

Government Gazette
Staatskoerant

REPUBLIC OF SOUTH AFRICA
REPUBLIEK VAN SUID AFRIKA

Vol. 718 4 April / April 2025 No. 52449

PART 1 OF 4

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NO FUTURE QUERIES WILL BE HANDLED IN CONNECTION WITH THE ABOVE.

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government printing
Department:
Government Printing Works
REPUBLIC OF SOUTH AFRICA

HIGH ALERT: SCAM WARNING!!!

TO ALL SUPPLIERS AND SERVICE PROVIDERS OF THE GOVERNMENT PRINTING WORKS

It has come to the attention of the *GOVERNMENT PRINTING WORKS* that there are certain unscrupulous companies and individuals who are defrauding unsuspecting businesses disguised as representatives of the *Government Printing Works* (*GPW*).

The scam involves the fraudsters using the letterhead of *GPW* to send out fake tender bids to companies and requests to supply equipment and goods.

Although the contact person's name on the letter may be of an existing official, the contact details on the letter are not the same as the *Government Printing Works*'. When searching on the Internet for the address of the company that has sent the fake tender document, the address does not exist.

The banking details are in a private name and not company name. Government will never ask you to deposit any funds for any business transaction. *GPW* has alerted the relevant law enforcement authorities to investigate this scam to protect legitimate businesses as well as the name of the organisation.

Example of e-mails these fraudsters are using:

PROCUREMENT@GPW-GOV.ORG

Should you suspect that you are a victim of a scam, you must urgently contact the police and inform the *GPW*.

GPW has an official email with the domain as **@gpw.gov.za**

Government e-mails DO NOT have org in their e-mail addresses. All of these fraudsters also use the same or very similar telephone numbers. Although such number with an area code 012 looks like a landline, it is not fixed to any property.

GPW will never send you an e-mail asking you to supply equipment and goods without a purchase/order number. *GPW* does not procure goods for another level of Government. The organisation will not be liable for actions that result in companies or individuals being resultant victims of such a scam.

Government Printing Works gives businesses the opportunity to supply goods and services through RFQ / Tendering process. In order to be eligible to bid to provide goods and services, suppliers must be registered on the National Treasury's Central Supplier Database (CSD). To be registered, they must meet all current legislative requirements (e.g. have a valid tax clearance certificate and be in good standing with the South African Revenue Services - SARS).

The tender process is managed through the Supply Chain Management (SCM) system of the department. SCM is highly regulated to minimise the risk of fraud, and to meet objectives which include value for money, open and effective competition, equitability, accountability, fair dealing, transparency and an ethical approach. Relevant legislation, regulations, policies, guidelines and instructions can be found on the tender's website.

Fake Tenders

National Treasury's CSD has launched the Government Order Scam campaign to combat fraudulent requests for quotes (RFQs). Such fraudulent requests have resulted in innocent companies losing money. We work hard at preventing and fighting fraud, but criminal activity is always a risk.

How tender scams work

There are many types of tender scams. Here are some of the more frequent scenarios:

Fraudsters use what appears to be government department stationery with fictitious logos and contact details to send a fake RFQ to a company to invite it to urgently supply goods. Shortly after the company has submitted its quote, it receives notification that it has won the tender. The company delivers the goods to someone who poses as an official or at a fake site. The Department has no idea of this transaction made in its name. The company is then never paid and suffers a loss.

OR

Fraudsters use what appears to be government department stationery with fictitious logos and contact details to send a fake RFQ to Company A to invite it to urgently supply goods. Typically, the tender specification is so unique that only Company B (a fictitious company created by the fraudster) can supply the goods in question.

Shortly after Company A has submitted its quote it receives notification that it has won the tender. Company A orders the goods and pays a deposit to the fictitious Company B. Once Company B receives the money, it disappears. Company A's money is stolen in the process.

Protect yourself from being scammed

- If you are registered on the supplier databases and you receive a request to tender or quote that seems to be from a government department, contact the department to confirm that the request is legitimate. Do not use the contact details on the tender document as these might be fraudulent.
- Compare tender details with those that appear in the Tender Bulletin, available online at **www.gpwonline.co.za**
- Make sure you familiarise yourself with how government procures goods and services. Visit the tender website for more information on how to tender.
- If you are uncomfortable about the request received, consider visiting the government department and/or the place of delivery and/or the service provider from whom you will be sourcing the goods.
- In the unlikely event that you are asked for a deposit to make a bid, contact the SCM unit of the department in question to ask whether this is in fact correct.

Any incidents of corruption, fraud, theft and misuse of government property in the *Government Printing Works* can be reported to:

Supply Chain Management: Ms. Anna Marie Du Toit, Tel. (012) 748 6292.
Email: **Annamarie.DuToit@gpw.gov.za**

Marketing and Stakeholder Relations: Ms Bonakele Mbhele, at Tel. (012) 748 6193.
Email: **Bonakele.Mbhele@gpw.gov.za**

Security Services: Mr Daniel Legoabe, at tel. (012) 748 6176.
Email: **Daniel.Legoabe@gpw.gov.za**

Closing times for **ORDINARY WEEKLY** *GOVERNMENT GAZETTE* 2025

*The closing time is **15:00** sharp on the following days:*

- **24 December,** Wednesday for the issue of Friday **03 January 2025**
- **03 January,** Friday for the issue of Friday **10 January 2025**
- **10 January,** Friday for the issue of Friday **17 January 2025**
- **17 January,** Friday for the issue of Friday **24 January 2025**
- **24 January,** Friday for the issue of Friday **31 January 2025**
- **31 January,** Friday for the issue of Friday **07 February 2025**
- **07 February,** Friday for the issue of Friday **14 February 2025**
- **14 February,** Friday for the issue of Friday **21 February 2025**
- **21 February,** Friday for the issue of Friday **28 February 2025**
- **28 February,** Friday for the issue of Friday **07 March 2025**
- **07 March,** Friday for the issue of Friday **14 March 2025**
- **13 March,** Thursday for the issue of Thursday **20 March 2025**
- **20 March,** Thursday for the issue of Friday **28 March 2025**
- **28 March,** Friday for the issue of Friday **04 April 2025**
- **04 April,** Friday for the issue of Friday **11 April 2025**
- **10 April,** Thursday for the issue of Thursday **17 April 2025**
- **16 April,** Wednesday for the issue of Friday **25 April 2025**
- **23 April,** Wednesday for the issue of Friday **02 May 2025**
- **02 May,** Friday for the issue of Friday **09 May 2025**
- **09 May,** Friday for the issue of Friday **16 May 2025**
- **16 May,** Friday for the issue of Friday **23 May 2025**
- **23 May,** Friday for the issue of Friday **30 May 2025**
- **30 May,** Friday for the issue of Friday **06 June 2025**
- **06 June,** Friday for the issue of Friday **13 June 2025**
- **12 June,** Thursday for the issue of Friday **20 June 2025**
- **20 June,** Friday for the issue of Friday **27 June 2025**
- **27 June,** Friday for the issue of Friday **04 July 2025**
- **04 July,** Friday for the issue of Friday **11 July 2025**
- **11 July,** Friday for the issue of Friday **18 July 2025**
- **18 July,** Friday for the issue of Friday **25 July 2025**
- **25 July,** Friday for the issue of Friday **01 August 2025**
- **01 August,** Friday for the issue of Friday **08 August 2025**
- **08 August,** Friday for the issue of Friday **15 August 2025**
- **15 August,** Friday for the issue of Friday **22 August 2025**
- **22 August,** Friday for the issue of Friday **29 August 2025**
- **29 August,** Friday for the issue of Friday **05 September 2025**
- **05 September,** Friday for the issue of Friday **12 September 2025**
- **12 September,** Friday for the issue of Friday **19 September 2025**
- **18 September,** Thursday for the issue of Friday **26 September 2025**
- **26 September,** Friday for the issue of Friday **03 October 2025**
- **03 October,** Friday for the issue of Friday **10 October 2025**
- **10 October,** Friday for the issue of Friday **17 October 2025**
- **17 October,** Friday for the issue of Friday **24 October 2025**
- **24 October,** Friday for the issue of Friday **31 October 2025**
- **31 October,** Friday for the issue of Friday **07 November 2025**
- **07 November,** Friday for the issue of Friday **14 November 2025**
- **14 November,** Friday for the issue of Friday **21 November 2025**
- **21 November,** Friday for the issue of Friday **28 November 2025**
- **28 November,** Friday for the issue of Friday **5 December 2025**
- **05 December,** Friday for the issue of Friday **12 December 2025**
- **11 December,** Thursday for the issue of Friday **19 December 2025**
- **17 December,** Wednesday for the issue of Wednesday **24 December 2025**

LIST OF TARIFF RATES

FOR PUBLICATION OF NOTICES

COMMENCEMENT: 1 APRIL 2018

NATIONAL AND PROVINCIAL

Notice sizes for National, Provincial & Tender gazettes 1/4, 2/4, 3/4, 4/4 per page. Notices submitted will be charged at R1008.80 per full page, pro-rated based on the above categories.

Pricing for National, Provincial - Variable Priced Notices		
Notice Type	**Page Space**	**New Price (R)**
Ordinary National, Provincial	1/4 - Quarter Page	252.20
Ordinary National, Provincial	2/4 - Half Page	504.40
Ordinary National, Provincial	3/4 - Three Quarter Page	756.60
Ordinary National, Provincial	4/4 - Full Page	1008.80

EXTRA-ORDINARY

All Extra-ordinary National and Provincial gazette notices are non-standard notices and attract a variable price based on the number of pages submitted.

The pricing structure for National and Provincial notices which are submitted as **Extra ordinary submissions** will be charged at R**3026.32** per page.

GOVERNMENT PRINTING WORKS - BUSINESS RULES

The **Government Printing Works** (**GPW**) has established rules for submitting notices in line with its electronic notice processing system, which requires the use of electronic *Adobe* Forms. Please ensure that you adhere to these guidelines when completing and submitting your notice submission.

Closing Times for Acceptance of Notices

1. The *Government Gazette* and *Government Tender Bulletin* are weekly publications that are published on Fridays and the closing time for the acceptance of notices is strictly applied according to the scheduled time for each gazette.

2. Please refer to the Submission Notice Deadline schedule in the table below. This schedule is also published online on the Government Printing works website www.gpwonline.co.za

   All re-submissions will be subject to the standard cut-off times.
   All notices received after the closing time will be rejected.

Government Gazette Type	Publication Frequency	Publication Date	Submission Deadline	Cancellations Deadline
National Gazette	Weekly	Friday	Friday 15h00 for next Friday	Tuesday, 15h00 - 3 working days prior to publication
Regulation Gazette	Weekly	Friday	Friday 15h00 for next Friday	Tuesday, 15h00 - 3 working days prior to publication
Petrol Price Gazette	Monthly	Tuesday before 1st Wednesday of the month	One day before publication	1 working day prior to publication
Road Carrier Permits	Weekly	Friday	Thursday 15h00 for next Friday	3 working days prior to publication
Unclaimed Monies (Justice, Labour or Lawyers)	January / September 2 per year	Last Friday	One week before publication	3 working days prior to publication
Parliament (Acts, White Paper, Green Paper)	As required	Any day of the week	None	3 working days prior to publication
Manuals	Bi- Monthly	2nd and last Thursday of the month	One week before publication	3 working days prior to publication
State of Budget (National Treasury)	Monthly	30th or last Friday of the month	One week before publication	3 working days prior to publication
Extraordinary Gazettes	As required	Any day of the week	*Before 10h00 on publication date*	*Before 10h00 on publication date*
Legal Gazettes A, B and C	Weekly	Friday	One week before publication	Tuesday, 15h00 - 3 working days prior to publication
Tender Bulletin	Weekly	Friday	Friday 15h00 for next Friday	Tuesday, 15h00 - 3 working days prior to publication
Gauteng	Weekly	Wednesday	Two weeks before publication	3 days **after** submission deadline
Eastern Cape	Weekly	Monday	One week before publication	3 working days prior to publication
Northern Cape	Weekly	Monday	One week before publication	3 working days prior to publication
North West	Weekly	Tuesday	One week before publication	3 working days prior to publication
KwaZulu-Natal	Weekly	Thursday	One week before publication	3 working days prior to publication
Limpopo	Weekly	Friday	One week before publication	3 working days prior to publication
Mpumalanga	Weekly	Friday	One week before publication	3 working days prior to publication

GOVERNMENT PRINTING WORKS - BUSINESS RULES

Government Gazette Type	Publication Frequency	Publication Date	Submission Deadline	Cancellations Deadline
Gauteng Liquor License Gazette	Monthly	Wednesday before the First Friday of the month	Two weeks before publication	3 working days **after** submission deadline
Northern Cape Liquor License Gazette	Monthly	First Friday of the month	Two weeks before publication	3 working days **after** submission deadline
National Liquor License Gazette	Monthly	First Friday of the month	Two weeks before publication	3 working days **after** submission deadline
Mpumalanga Liquor License Gazette	Bi-Monthly	Second & Fourth Friday	One week before publication	3 working days prior to publication

Extraordinary Gazettes

3. *Extraordinary Gazettes* can have only one publication date. If multiple publications of an *Extraordinary Gazette* are required, a separate Z95/Z95Prov *Adobe* Forms for each publication date must be submitted.

Notice Submission Process

4. Download the latest *Adobe* form, for the relevant notice to be placed, from the **Government Printing Works** website www.gpwonline.co.za.

5. The *Adobe* form needs to be completed electronically using *Adobe Acrobat* / *Acrobat Reader*. Only electronically completed *Adobe* forms will be accepted. No printed, handwritten and/or scanned *Adobe* forms will be accepted.

6. The completed electronic *Adobe* form has to be submitted via email to submit.egazette@gpw.gov.za. The form needs to be submitted in its original electronic *Adobe* format to enable the system to extract the completed information from the form for placement in the publication.

7. Every notice submitted **must** be accompanied by an official **GPW** quotation. This must be obtained from the *eGazette* Contact Centre.

8. Each notice submission should be sent as a single email. The email **must** contain **all documentation relating to a particular notice submission**.

   8.1. Each of the following documents must be attached to the email as a separate attachment:

      8.1.1. An electronically completed *Adobe* form, specific to the type of notice that is to be placed.

         8.1.1.1. For National *Government Gazette* or *Provincial Gazette* notices, the notices must be accompanied by an electronic Z95 or Z95Prov *Adobe* form

         8.1.1.2. The notice content (body copy) **MUST** be a separate attachment.

      8.1.2. A copy of the official **Government Printing Works** quotation you received for your notice. *(Please see Quotation section below for further details)*

      8.1.3. A valid and legible Proof of Payment / Purchase Order: **Government Printing Works** account customer must include a copy of their Purchase Order**. Non-Government Printing Works** account customer needs to submit the proof of payment for the notice

      8.1.4. Where separate notice content is applicable (Z95, Z95 Prov and TForm 3, it should **also** be attached as a separate attachment. *(Please see the Copy Section below, for the specifications)*.

      8.1.5. Any additional notice information if applicable.

GOVERNMENT PRINTING WORKS - BUSINESS RULES

9. The electronic *Adobe* form will be taken as the primary source for the notice information to be published. Instructions that are on the email body or covering letter that contradicts the notice form content will not be considered. The information submitted on the electronic *Adobe* form will be published as-is.

10. To avoid duplicated publication of the same notice and double billing, Please submit your notice **ONLY ONCE.**

11. Notices brought to **GPW** by "walk-in" customers on electronic media can only be submitted in *Adobe* electronic form format. All "walk-in" customers with notices that are not on electronic *Adobe* forms will be routed to the Contact Centre where they will be assisted to complete the forms in the required format.

12. Should a customer submit a bulk submission of hard copy notices delivered by a messenger on behalf of any organisation e.g. newspaper publisher, the messenger will be referred back to the sender as the submission does not adhere to the submission rules.

QUOTATIONS

13. Quotations are valid until the next tariff change.

    13.1. ***Take note:*** **GPW**'s annual tariff increase takes place on ***1 April*** therefore any quotations issued, accepted and submitted for publication up to ***31 March*** will keep the old tariff. For notices to be published from 1 April, a quotation must be obtained from **GPW** with the new tariffs. Where a tariff increase is implemented during the year, **GPW** endeavours to provide customers with 30 days' notice of such changes.

14. Each quotation has a unique number.

15. Form Content notices must be emailed to the *eGazette* Contact Centre for a quotation.

    15.1. The *Adobe* form supplied is uploaded by the Contact Centre Agent and the system automatically calculates the cost of your notice based on the layout/format of the content supplied.

    15.2. It is critical that these *Adobe* Forms are completed correctly and adhere to the guidelines as stipulated by **GPW**.

16. **APPLICABLE ONLY TO GPW ACCOUNT HOLDERS**:

    16.1. **GPW** Account Customers must provide a valid **GPW** account number to obtain a quotation.

    16.2. Accounts for **GPW** account customers **must** be active with sufficient credit to transact with **GPW** to submit notices.

        16.2.1. If you are unsure about or need to resolve the status of your account, please contact the **GPW** Finance Department prior to submitting your notices. (If the account status is not resolved prior to submission of your notice, the notice will be failed during the process).

17. **APPLICABLE ONLY TO CASH CUSTOMERS:**

    17.1. Cash customers doing **bulk payments** must use a **single email address** in order to use the **same proof of payment** for submitting multiple notices.

18. The responsibility lies with you, the customer, to ensure that the payment made for your notice(s) to be published is sufficient to cover the cost of the notice(s).

19. Each quotation will be associated with one proof of payment / purchase order / cash receipt.

    19.1. This means that **the quotation number can only be used once to make a payment.**

GOVERNMENT PRINTING WORKS - BUSINESS RULES

COPY (SEPARATE NOTICE CONTENT DOCUMENT)

20. Where the copy is part of a separate attachment document for Z95, Z95Prov and TForm03

20.1. Copy of notices must be supplied in a separate document and may not constitute part of any covering letter, purchase order, proof of payment or other attached documents.

The content document should contain only one notice. (You may include the different translations of the same notice in the same document).

20.2. The notice should be set on an A4 page, with margins and fonts set as follows:

Page size = A4 Portrait with page margins: Top = 40mm, LH/RH = 16mm, Bottom = 40mm; Use font size: Arial or Helvetica 10pt with 11pt line spacing;

Page size = A4 Landscape with page margins: Top = 16mm, LH/RH = 40mm, Bottom = 16mm; Use font size: Arial or Helvetica 10pt with 11pt line spacing;

CANCELLATIONS

21. Cancellation of notice submissions are accepted by **GPW** according to the deadlines stated in the table above in point 2. Non-compliance to these deadlines will result in your request being failed. Please pay special attention to the different deadlines for each gazette. Please note that any notices cancelled after the cancellation deadline will be published and charged at full cost.

22. Requests for cancellation must be sent by the original sender of the notice and must accompanied by the relevant notice reference number (N-) in the email body.

AMENDMENTS TO NOTICES

23. With effect from 01 October 2015, **GPW** will not longer accept amendments to notices. The cancellation process will need to be followed according to the deadline and a new notice submitted thereafter for the next available publication date.

REJECTIONS

24. All notices not meeting the submission rules will be rejected to the customer to be corrected and resubmitted. Assistance will be available through the Contact Centre should help be required when completing the forms. (012-748 6200 or email info.egazette@gpw.gov.za). Reasons for rejections include the following:

24.1. Incorrectly completed forms and notices submitted in the wrong format, will be rejected.

24.2. Any notice submissions not on the correct *Adobe* electronic form, will be rejected.

24.3. Any notice submissions not accompanied by the proof of payment / purchase order will be rejected and the notice will not be processed.

24.4. Any submissions or re-submissions that miss the submission cut-off times will be rejected to the customer. The Notice needs to be re-submitted with a new publication date.

GOVERNMENT PRINTING WORKS - BUSINESS RULES

Approval of notices

25. Any notices other than legal notices are subject to the approval of the Government Printer, who may refuse acceptance or further publication of any notice.

26. No amendments will be accepted in respect to separate notice content that was sent with a Z95 or Z95Prov notice submissions. The copy of notice in layout format (previously known as proof-out) is only provided where requested, for Advertiser to see the notice in final Gazette layout. Should they find that the information submitted was incorrect, they should request for a notice cancellation and resubmit the corrected notice, subject to standard submission deadlines. The cancellation is also subject to the stages in the publishing process, i.e. If cancellation is received when production (printing process) has commenced, then the notice cannot be cancelled.

Government Printer Indemnified Against Liability

27. The Government Printer will assume no liability in respect of—

27.1. any delay in the publication of a notice or publication of such notice on any date other than that stipulated by the advertiser;

27.2. erroneous classification of a notice, or the placement of such notice in any section or under any heading other than the section or heading stipulated by the advertiser;

27.3. any editing, revision, omission, typographical errors or errors resulting from faint or indistinct copy.

Liability of advertiser

28. Advertisers will be held liable for any compensation and costs arising from any action which may be instituted against the Government Printer in consequence of the publication of any notice.

Customer inquiries

Many of our customers request immediate feedback/confirmation of notice placement in the gazette from our Contact Centre once they have submitted their notice – While **GPW** deems it one of their highest priorities and responsibilities to provide customers with this requested feedback and the best service at all times, we are only able to do so once we have started processing your notice submission.
GPW has a 2-working day turnaround time for processing notices received according to the business rules and deadline submissions.
Please keep this in mind when making inquiries about your notice submission at the Contact Centre.

29. Requests for information, quotations and inquiries must be sent to the Contact Centre ONLY.

30. Requests for Quotations (RFQs) should be received by the Contact Centre at least **2 working days** before the submission deadline for that specific publication.

GOVERNMENT PRINTING WORKS - BUSINESS RULES

Payment of cost

31. The Request for Quotation for placement of the notice should be sent to the Gazette Contact Centre as indicated above, prior to submission of notice for advertising.

32. Payment should then be made, or Purchase Order prepared based on the received quotation, prior to the submission of the notice for advertising as these documents i.e. proof of payment or Purchase order will be required as part of the notice submission, as indicated earlier.

33. Every proof of payment must have a valid **GPW** quotation number as a reference on the proof of payment document.

34. Where there is any doubt about the cost of publication of a notice, and in the case of copy, an enquiry, accompanied by the relevant copy, should be addressed to the Gazette Contact Centre, **Government Printing Works**, Private Bag X85, Pretoria, 0001 email: info.egazette@gpw.gov.za before publication.

35. Overpayment resulting from miscalculation on the part of the advertiser of the cost of publication of a notice will not be refunded, unless the advertiser furnishes adequate reasons why such miscalculation occurred. In the event of underpayments, the difference will be recovered from the advertiser, and future notice(s) will not be published until such time as the full cost of such publication has been duly paid in cash or electronic funds transfer into the **Government Printing Works** banking account.

36. In the event of a notice being cancelled, a refund will be made only if no cost regarding the placing of the notice has been incurred by the **Government Printing Works**.

37. The **Government Printing Works** reserves the right to levy an additional charge in cases where notices, the cost of which has been calculated in accordance with the List of Fixed Tariff Rates, are subsequently found to be excessively lengthy or to contain overmuch or complicated tabulation.

Proof of publication

38. Copies of any of the *Government Gazette* or *Provincial Gazette* can be downloaded from the **Government Printing Works** website www.gpwonline.co.za free of charge, should a proof of publication be required.

39. Printed copies may be ordered from the Publications department at the ruling price. The **Government Printing Works** will assume no liability for any failure to post or for any delay in despatching of such *Government Gazette*(s)

GOVERNMENT PRINTING WORKS CONTACT INFORMATION

Physical Address:	**Postal Address:**	**GPW Banking Details:**
Government Printing Works	Private Bag X85	**Bank:** ABSA Bosman Street
149 Bosman Street	Pretoria	**Account No.:** 405 7114 016
Pretoria	0001	**Branch Code:** 632-005

For Gazette and Notice submissions: Gazette Submissions:	**E-mail:** submit.egazette@gpw.gov.za
For queries and quotations, contact: Gazette Contact Centre:	**E-mail:** info.egazette@gpw.gov.za
	Tel: 012-748 6200
Contact person for subscribers: Mrs M. Toka:	**E-mail:** subscriptions@gpw.gov.za
	Tel: 012-748-6066 / 6060 / 6058
	Fax: 012-323-9574

GOVERNMENT NOTICES • GOEWERMENTSKENNISGEWINGS

DEPARTMENT OF AGRICULTURE, LAND REFORM AND RURAL DEVELOPMENT

NO. 6091 **4 April 2025**

ANIMAL IMPROVEMENT ACT, 1998 (ACT NO. 62 OF 1998)

REGULATIONS RELATING TO THE IDENTIFICATION OF ANIMALS

The Minister of Agriculture intends, in terms of section 28 of the Animal Improvement Act, 1998 (Act No. 62 of 1998), to make the regulations in the Schedule.

Interested persons are invited to send written comments on the proposed regulations within 60 days from the date of publication of this notice to the Minister, for the attention of the Director-General: Department of Agriculture, 600 Lilian Ngoyi Street, Pretoria, 0001; Email: *JoelM@Dalrrd.gov.za.*

SCHEDULE

1. Definitions

In these Regulations, any word or expression to which a meaning has been assigned in the Act shall have that meaning and unless the context indicates otherwise-

1.a) **"animal"** means an animal as defined and declared as such in terms of the Act;

1.b) "**identification device**" means a device approved by the Registrar for identification of declared animals;

1.c) **"INTERGIS"** means the Integrated Registration System and Genetic Information System as defined in the Act;

1.d) **"owner"** means the person in whose name an animal is recorded and registered; and

1.e) "**the Act**" means the Animal Improvement Act, 1998 (Act No. 62 of 1998).

2. Identification of animals

2.1 The owner of an animal must identify the animal or cause the animal to be identified by means of an identification device.

2.2 The identification device referred to in sub-regulation 2.1 must-

(a) contain information relating to ownership and farm of origin;

(b) provide a provincial unique identification number which must be alpha-numeric; and

(c) be effectively applied or attached to and retained by and not be harmful to such animals.

2.3 The identification device and information contained therein must be integrated into and secured on the INTERGIS.

3. Registration of animals

3.1 The owner of an animal shall register or cause an animal to be registered with the Registrar.

3.2 The Registrar shall keep and maintain records of all registered animals on INTERGIS.

3.3 The following information with regard to an animal shall be recorded:

(a) owner's identification number;

(b) its sex and age;

(c) identification device and analogue tag number;

(d) the brand and its positioning;

(e) the animal holding;

(f) its health status;

(g) the province and magisterial district where it is kept;

(h) the date of registration or tagging of the animal; and

(i) It's colour in any official language.

3.4 Ownership of an animal for purposes of registration shall be determined by the Registrar or any other designated official using a brand mark on

such animal, and where applicable, the brand mark shall be confirmed by the Registrar using a brand certificate.

4. Registration of owners

4.1 The owner of an animal shall register as such with the Registrar.

4.2 The Registrar shall-

(a) keep and maintain a register of owners on INTERGIS;

(b) record the owner's personal details and the number of animals owned;

(c) provide the owner with an identification number relating to the animal owned; and

(d) issue the owner with a Stock Register card.

4.3 The owner shall keep the following information on an on-farm record for animals:

(a) the date of birth of any animal;

(b) the date of death of any animal;

(c) the date of arrival of such animal in the holding;

(d) the date of transfer or departure of such animal from the holding;

(e) any medical treatment of such animal, such as vaccinations, de-worming or dipping; and

(f) any withdrawal periods associated with the medical treatment of such animal.

5. Identification of animals

5.1 An animal shall be identified as follows:

(a) in relation to cattle, by placing an animal identification device on the animal at birth or before such animal is six months old; and

(b) in relation to an ostrich, by the use of a registered holding of origin and an approved individual animal identification.

5.2 The Registrar shall develop an animal identification system for any other animal as and when it is required.

5.3 The owner shall not move an animal from one holding to another without having tagged such an animal.

5.4 The owner shall not tag or present an animal for identification if-

(a) the animal is not branded;

(b) the brand mark of the animal is not the same as the one on the brand certificate of the owner;

(c) the brand mark of the animal is not clear or is obliterated;

(d) the animal is branded with an unauthorised mark;

(e) the animal is already identified with an animal identification device; or

(f) the animal is identified with the particulars of a different owner.

5.5 The owner of an animal shall not move the animal from one holding to another unless the animal has been tagged using an approved identification tag or device.

6. Identification Devices

6.1 An animal shall be identified-

(a) with a pair of tags made up of a digital and an analogue tag, both of which shall have a male and female unit; or

(b) if inserted with a microchip with an analogue ear tag.

6.2 The owner of an animal shall tag the animal by placing it in the centre or the middle of each ear with an analogue ear tag on the right ear and a digital ear tag on the left ear.

6.3 The identification device which is a microchip shall be tagged with an analogue ear tag on the right ear.

6.4 An analogue ear tag or digital ear tag for-

(a) an animal born in South Africa shall be yellow in colour;

(b) an animal imported into South Africa shall be green in colour; and

(c) an animal resident on a holding which is located in a foot-and-mouth disease-sensitive area shall be marked with red ear tags.

6.5 The owner who loses any ear tag shall-

(a) report the loss of the ear tag to the nearest Department of Agriculture office or the nearest police station within seven days of the loss; and

(b) present evidence to the Registrar or any delegated officer, or a police officer that the animal was previously identified with an ear tag.

6.6 The owner shall, after reporting the loss of an ear tag to the Registrar or delegated officer or a police station-

(a) replace, where an animal has lost a pair of digital ear tags, with a new pair of digital ear tags;

(b) replace, where an animal has lost an analogue ear tag with a blank ear tag on which he shall write the number of the lost analogue ear tag; and

(c) report the replacement and the new information on the pair of digital ear tags to the nearest Department of Agriculture.

6.7 An ear tag shall be linked to a particular owner and the holding at the time of buying or transferring an animal.

6.8 An ear tag that has not been accordingly applied and captured on a database at the end of 90 days after acquisition, shall be deactivated.

7. Registration of manufacturers and distributors of identification devices

7.1 A person intending to register as a manufacturer or distributor of identification devices shall apply to the Registrar for the approval of a device.

7.2 The application referred to in sub-regulation 7.1 shall-

(a) be made on an application form obtainable from the office of the Registrar; and

(b) be accompanied by-

(i) the relevant samples; and

(ii) application fee as determined by the Minister by notice in the Gazette.

7.3 The Registrar may impose conditions on the approval of an identification device.

8. Identification of cattle

8.1 The owner of cattle declared as animals must identify or cause to be identified such cattle by means of an identification device applied or attached such as an ear tag, brand mark or tattoo.

8.2 If identification is by means of a brand mark, it shall be applied on any clearly visible part, except the neck of an animal.

8.3 If the identification method is a tattoo, it shall be applied on the inside of the ear of the animal using a tattoo plier and permanent ink.

8.4 An animal shall be identified by the use of an animal identification device placed on the animal at birth or before such animal is six months old.

9. Identification of sheep and goats

9.1 The owner of a sheep or goat declared as an animal must identify or cause to be identified such sheep or goat by means of an identification device attached or applied to such animal.

9.2 A lamb, kid or born into a flock or herd must be identified within 3 weeks from the date of birth or before it is moved from its place of birth.

10. Identification of pigs

10.1 The owner of pigs declared as animals must identify or cause to be identified such pigs by means of an identification device applied or attached to such animal or using mechanical methods such as slap marks or tattoos.

10.2 A slap mark may be applied on each front shoulder of the pig using compressed air slap marking equipment or a tattoo may be applied on the ear of the animal.

10.3 A piglet born in the drove must be identified one week from the date of birth or before it is moved from its place of birth.

11. Identification of Ostriches

The owner of ostriches declared as animals must identify or cause to be identified such ostrich by means of an identification device applied or attached to such ostrich or using conventional methods such as a brand mark.

12. Identification of Horses

The owner of horses declared as animals must identify or cause to be identified such horse by means of a device applied or attached to such horse or using a hot iron brand mark or freeze brand.

13. Identification of donkeys

13.1 The owner of donkeys declared as animals must identify or cause to be identified such donkey by means of an identification device applied or attached to such donkey or conventional methods such as tattoos.

13.2 Donkeys may be tattooed or identified using a hot iron brand or free brand.

14. Identification of rabbits

14.1 The owner of rabbits declared as animals must identify or cause to be identified such rabbits by means of an identification device applied or attached to such rabbits.

14.2 Rabbits may be tattooed under the ear.

15. Identification of dogs

15.1 The owner of dogs declared as animals must identify or cause to be identified such dogs by means of an identification device applied or attached to such dogs.

15.2 Dogs may be tattooed under the ear, belly or inner thigh or using microchips inserted under the skin of the animals.

16. Identification of bee colonies

16.1 Any person who keeps honeybees must register as a beekeeper.

16.2 Beekeepers must identify hives with their brand and maintain records of where and when hives are kept.

17. Identification of imported animals

17.1 The importer of a declared animal must identify or cause to be identified such animal using an identification device as contemplated in these regulations.

17.2 The animal referred to in sub-regulation (1) must be identified within three days from the date on which the animal is released from its point of entry.

18. Transfer of ownership

18.1 For a transfer to occur, both the current and the new owner should have registered the animal onto INTERGIS.

18.2 Any change of ownership requires the completion of an application form for transfer obtainable from the Registrar.

18.3 In case of the death of an owner, an animal can be transferred to the new owner if the executor of the estate approves.

18.4 If the owner is a company, evidence that the signatories are duly authorised members of the company will be required.

18.5 The transfer of ownership must be registered on INTERGIS within 7 days of the change of ownership.

19. Offences

Any person who-

(a) contravenes or fails to comply with any provision or requirement of these regulations;

(b) uses an ear tag meant for one holding in a different holding;

(c) removes or causes to be removed, an ear tag of an animal from any infected area or place of isolation to a place outside such infected area or place of isolation, and

(d) commits an offence, and if found guilty is liable to a fine or imprisonment for a period not exceeding two years.

20. Commencement of Regulations

These regulations come into operation on their date of final publication.

MINISTER OF AGRICULTURE
DATE: 05-03-25

DEPARTMENT OF AGRICULTURE, LAND REFORM AND RURAL DEVELOPMENT

NO. 6092 **4 April 2025**

WITHDRAWAL OF GAZETTE NUMBER 49863, NOTICE NUMBER 4195 OF 2023, DATED 14 DECEMBER 2023 IN TERMS OF SECTION 11A (4) OF THE RESTITUTION OF LAND RIGHTS ACT, 1994 (ACT NO. 22 OF 1994), AS AMENDED IN RESPECT OF MS. MAABANE MOELANG BETTY LAND CLAIM.

Notice is hereby given that gazette number 49863, notice number 4195 of 2023, dated 14 December 2023 is withdrawn in terms of section 11A (4) of the Restitution of Land Rights Act, Act No. 22 of 1994 as amended. The Office of the Regional Land Claims Commissioner investigated the land claim lodged by Ms. Maabane Moelang Betty on the farm Kalkfontein 367 KT situated in Greater-Tubatse (now known as Fetakgomo-Tubatse) Local Municipality, Sekhukhune District of the Limpopo and found to be non-compliant with the provisions of Section 2 of the Restitution of Land Rights Act, 22 of 1994, as amended.

Any interested party affected hereby may, within a period of **30** days of publication hereof, submit his/her/its comment or objection hereto to the Office of the Regional Land Claims Commissioner at the address set out below, failing which the said notice shall **automatically** be withdrawn at the expiry of the said period.

The office of the Regional Land Claims Commissioner: Limpopo
Private Bag x9552
POLOKWANE
0700

Submission may also be delivered to:
13th – 15th Floor Thabakgolo Nedbank Building
50-58 Landros Mare Street
POLOKWANE
0700

MR. L.H. MAPHUTHA
REGIONAL LAND CLAIMS COMMISSIONER, SA
DATE: 2025/08/24

DEPARTMENT OF HEALTH

NO. 6093 **4 April 2025**

HAZARDOUS SUBSTANCES ACT, 1973 (ACT NO.15 OF 1973)

GROUP I, CATEGORY A, HAZARDOUS SUBSTANCES: DECLARATION

The Minister of Health in terms of section 2(1) (a) of the Hazardous Substances Act, 1973 (Act No. 15 of 1973), declare the substances mentioned in the schedule and mixtures containing such substances to be Group I, Category A Hazardous Substances.

DR PA MOTSOALEDI, MP
MINISTER OF HEALTH
DATE: 6/9/2025

SCHEDULE

Definitions

1. In this Notice, any word or expression to which a meaning has been assigned in that Act, shall have that meaning, and unless the context indicates otherwise:-

"ECHA" means the European Chemicals Agency;
"the Act" means the Hazardous Substances Act, 1973 (Act No. 15 of 1973).
"UN Globally Harmonized System or (GHS)" means the Globally Harmonized System of UN Classification and Labelling of Chemicals or GHS , a guidance document developed by the United Nations (UN) for standardising and harmonising the classification and labelling of chemicals globally, as may be updated from time to time, commonly known as the UN Purple Book;

Group I, Category A hazardous substances

2. The following are hereby declared as Group I Category A hazardous substances, namely:-

(a) All industrial substances listed in Annexure III of the Rotterdam Convention on Prior Informed Concerned Procedure for Certain Hazardous Chemicals and Pesticides in International Trade (https://www.pic.int/TheConvention/Chemicals/AnnexIIIChemicals) with allowed uses in the country and subject to paragraph 3;

(b) Mercury and mercury compounds allowed for uses as prescribed in the Minamata Convention on Mercury; and

(c) Any industrial substance or mixture of substances, products or materials which in the course of customary or reasonable handling or use, including ingestion, by reason of its;

(i) acute toxicity oral, skin or inhalation, category 1 or 2 or;
(ii) carcinogenicity, category 1, 1A or 1B or;
(iii) reproductive toxicity, category 1, 1A or 1B or;
(iv) germ cell mutagenicity, category 1A or 1B or;
(v) specific target organ toxicity-single exposure (STOT-SE), category 1 or;
(vi) specific target organ toxicity-repeated exposure (STOT-RE), category 1;

listed as harmonised in the Classification and Labelling Inventory obtainable from the ECHA web site, https://echa.europa.eu and classified according to the hazard classification prescribed in the latest version of the *United Nations UNGHS.

Exclusions

3. The above declaration excludes:-

(a) Substances classified as Explosivesin terms of the United Nations (UN) Globally Harmonized System of Classification and Labelling of Chemicals – GHS, Purple Book;
(b) Radioactive substances as defined in terms of the Hazardous Substances Act, 1973 (Act No. 15 of 1973);
(c) Prohibited substances or use of substances in terms of the Hazardous Substances Act, 1973 (Act No. 15 of 1973) as amended, or Fertilizers, Farm Feeds, Agricultural Remedies and Stock Remedies Act, 1947 (Act No. 36 of 1947), or the National Environmental Management: Air Quality Act, 2004 (Act No. 39 of 2004) or National Environmental Management Act, 1998 (Act No. 107 of 1998) or any other relevant legislation;
(d) Substances and preparations and admixtures which are classified as scheduled substances under the Medicines and Related Substances Control Act, 1965 (Act No. 101 of 1965);
(e) All industrial substances listed in the Stockholm Convention on Persistent Organic Pollutants;

(f) Chemicals used as flavourants and additives in foodstuffs,

(g) Chemicals used in cosmetics; and

(g) A substance, mixture of substances, products or materials declared as Group II hazardous substance.

Applicability of other laws

4. (1) Any person engaged in the sale or supply of Group I, Category A hazardous substances must comply with the provisions of Regulations under the Hazardous Substances Act, 1973 (Act No. 15 of 1973) published in Government Notice No. R453, *Gazette* No. 5467 of 25 March 1977.

(2) Any person engaged in the sale and use of Fluoroacetic acid (Mono), its Salts and Derivatives, must comply with the provisions of Regulations Relating to the Control over Fluoroacetic Acid (Mono), Its Salts and Derivatives published in Government Notice No. R1488 of 14 November 1977.

(3) Any person engaged in the sale of Cyanide for use in Cyanide poison-firing apparatus, must comply with the provisions of Regulations Relating to the Control of the Sale of Cyanide for use in Cyanide poison-firing Apparatus published in Government Notice No. R1486 of 14 November 1977.

(4) Subject to regulation 3(1) of the Regulations Regarding Group I Category A hazardous substances, the sale of mercury and mercury compounds for primary mercury mining and for use in artisanal and small-scale gold mining is prohibited.

(5) In recognition of the provision of section 31 of the Act, the GHS labelling requirements for hazardous chemical substances that are outlined in the Regulations for Hazardous Chemical Agents under Occupational Health and Safety Act, 1993 (Act No. 85 of 1993), shall be in addition to the labelling requirements stipulated in regulation 8 of

Regulations under the Hazardous Substances Act, 1973 (Act No. 15 of 1973) Government Notice No. R453, of 25 March 1977.

Exemptions

(5) (1) Government Notice R1489 of 14 November 1977, that exempt a laboratory, a teaching institution, an industry, a Government institution, a provincial authority or a provincial institution who imports fluoroacetic acid (mono), its salts and derivatives for use in the Republic which is not sealed in a poison collar, from the provisions of section 3(1)(a) of the said Act, is still applicable.

(5) (2) Government Notice R1489 of 14 November 1977, that exempt any person that has received written approval from the head of a provincial authority of the province concerned to load Cyanide cartridges for use in Cyanide poison-firing from the provisions of section 3(1)(a) of the said Act, is still applicable.

Repeal

6. Group I Hazardous Substances, Government Notice No. R. 452 published in Government *Gazette* No. R. 5467 dated 25 March 1977 and Regulations regarding the Declaration of Carbon Tetrachloride as Group I Category A Hazardous Substance, Government Notice No. R. 1705 published in Government Gazette No. 16796 dated 3 November 1995 are hereby repealed.

Date of commencement

7. The declaration shall come into effect six months after the date of publication of this Notice.

Transitional arrangements

8. (1) A license issued under section 4 of the Act, before the publication date of this Declaration Notice, shall be valid until expiry date.

(2) The license application submitted before the date of publication of the Notice shall be dealt with in terms of Notice referred to in paragraph 6.

Title

9. This Notice is called Declaration of Group I Category A Hazardous Substances in terms of the Hazardous Substances Act, 1973 (Act No. 15 of 1973), 2023.

HAZARDOUS SUBSTANCES ACT, 1973 (ACT NO.15 OF 1973)

GROUP I, CATEGORY B, HAZARDOUS SUBSTANCES: DECLARATION

The Minister of Health in terms of section 2(1) (a) of the Hazardous Substances Act, 1973 (Act No. 15 of 1973), declare the substances mentioned in the schedule hereto and mixtures containing such substances, products or materials to be Group I, Category B hazardous substances.

DR PA MOTSOALEDI, MP
MINISTER OF HEALTH
DATE: 6/19/2025

SCHEDULE

Definitions

1. In this Notice, and any word or expression to which a meaning has been assigned in that Act, shall have that meaning and unless the context indicates otherwise:-

"ECHA" means the European Chemicals Agency;

"the Act" means the Hazardous Substances Act, 1973 (Act No. 15 of 1973);

"UN Globally Harmonized System or (GHS)" means the Globally Harmonized System of Classification and Labelling of Chemicals; a guidance document developed by the United Nations (UN) for standardising and harmonising the classification and labelling of chemicals globally, as may be updated from time to time, commonly known as the UN Purple Book;

Group I, Category B hazardous substances

2. The following are hereby declared as Group I Category B hazardous substances, namely:-

(1) Any pesticide or agricultural remedy that fulfils the criteria for substance of concern and restricted agricultural remedy under Fertilizers, Farm Feeds, Agricultural Remedies and Stock Remedies Act, 1947 (Act No. 36 of 1947), except for low risk products and subject to approved registration in terms of the mentioned Act including severely hazardous pesticides under Annex III of the Rotterdam Convention.

(2) The declaration in paragraph (1) does not apply to:-

(a) Substances listed in the Classification and Labelling Inventory obtainable from the ECHA web site, https://echa.europa.eu, and classified as Explosives in terms of the latest version of the UNGHS;
(b) Radioactive substances as defined in terms of the Hazardous Substances Act, 1973 (Act No.15 of 1973);
(c) Prohibited substances or use of substances in terms of the Hazardous Substances Act, 1973 (Act No. 15 of 1973) as amended, or the Fertilizers, Farm Feeds, Agricultural

Remedies and Stock Remedies Act, 1947 (Act No. 36 of 1947), or the National Environmental Management: Air Quality Act, 2004 (Act No. 39 of 2004) or National Environmental Management Act, 1998 (Act No. 107 of 1998) or any other legislation; and

(d) Substances and preparations and admixtures which are classified as scheduled substances under the Medicines and Related Substances Control Act, 1965 (Act No. 101 of 1965).

Applicability of other laws

3. (1) Any person engaged in the sale or supply of Group I, Category B hazardous substances must comply with the provisions of the Regulations under the Hazardous Substances Act, 1973 (Act No. 15 of 1973), published in Government Notice No. GNR 453, Gazette No. 5467 of 25 March 1977 as amended.

(2) Any person engaged in the application of agricultural remedies must comply with the provisions of Regulations Relating to the Aerial Application of Agricultural Remedies, published in Government Gazette No. 1951 of 22 December 1995 as amended.

Repeal

4. Group I Hazardous Substances: Amendment, Government Notice No. R 1381 published in Government *Gazette* 15907 dated 12 August 1994 is hereby repealed.

Commencement date

5. The Declaration comes into effect six months after the date of publication of this Notice.

Transitional arrangements

6. (1) A license issued under section 4 of the Act, before the publication date of this Declaration Notice, shall be valid until expiry date.

(2) The license application submitted before the date of publication of the Notice shall be dealt with in terms of Notice referred to in paragraph 4.

Title

7. This Notice is called Declaration of Group I, Category B Hazardous Substances in terms of the Hazardous Substances Act, 1973 (Act No. 15 of 1973), 2024.

HAZARDOUS SUBSTANCES ACT, 1973(ACT NO. 15 OF 1973)

GROUP II HAZARDOUS SUBSTANCES: DECLARATION

The Minister of Health, in terms of section 2(1) (a) of the Hazardous Substances Act, 1973 (Act No. 15 of 1973) declare the substances mentioned in the schedule hereto and mixtures containing such substances to be Group II hazardous substances.

DR PA MOTSOALEDI, MP
MINISTER OF HEALTH
DATE: 6/1/2025

SCHEDULE

Definitions

1. For the purposes of this Notice, any word or expression to which a meaning has been assigned in that Act, shall have that meaning, unless the context indicates otherwise:-

"ECHA" means the European Chemicals Agency;

"the Act" means the Hazardous Substances Act, 1973 (Act No. 15 of 1973); and

" UN Globally Harmonized System or (GHS)" means the Globally Harmonized System of Classification and Labelling of Chemicals a guidance document developed by the United Nations (UN) for standardising and harmonising the classification and labelling of chemicals globally, as may be updated from time to time, commonly known as the UN Purple Book.

Group II Hazardous Substances

2. The following are hereby declared as Group II hazardous substances, namely:-

Any substance or mixture of substances which in the course of customary or reasonable handling or use, including ingestion, by reason of its;

a) skin corrosion/irritation, category 1, (1A, or 1B or 1C)* or
b) serous eye damage/eye irritation, category 1 or 2A or;
c) respiratory sensitization, category 1; or
d) specific target organ toxicity-single exposure (STOT-SE), category 2 or 3;
e) specific target organ toxicity-repeated exposure (STOT-RE), category 2 or;
f) aspiration hazard, category 1 or 2 or;
g) acute toxicity oral, skin or inhalation, category 3 or;
h) skin sensitization, category 1 or;
i) germ cell mutagenicity, category 2 or;
j) carcinogenicity, category 2 or;
k) reproductive toxicity, category 2 or;
l) aspiration hazard category 1 or 2;

as listed in the Classification and Labelling Inventory obtainable from the ECHA web site, https://echa.europa.euand classified according to the hazard classification prescribed in the latest version of the *UNGHS , is hereby declared as Group II hazardous substance.

Exclusion

3. The above declaration excludes;

(a) Substances classified as Explosives;
(b) Radioactive substances defined in terms of the Hazardous Substances Act, 1973 (Act No. 15 of 1973) as amended;
(c) Prohibited substances or use of substances in terms of the Hazardous Substances Act, 1973 (Act No. 15 of 1973) as amended, or the Fertilizers, Farm Feeds, Agricultural Remedies and Stock Remedies Act, 1947 (Act No. 36 of 1947), or the National Environmental Management: Air Quality Act, 2004 (Act No. 39 of 2004) or National Environmental Management Act, 1998 (Act No. 107 of 1998) or any other legislation; and
(d) Substances already declared as Group I, Category I A or B hazardous substances.

Repeal

4. Declaration of Group II Hazardous Substances, Government Notice No. R 1382 of 12 August 1994 is hereby repealed.

Date of commencement

5. The declaration shall come into effect six months after the date of publication of this declaration Notice.

Title

6. This Declaration Notice is called Declaration of Group II Hazardous Substances in terms of the Hazardous Substances Act, 1973 (Act No. 15 of 1973), 2023 .

DEPARTMENT OF HOME AFFAIRS

NO. 6094 **4 April 2025**

ALTERATION OF FORENAMES IN TERMS OF SECTION 24 OF THE BIRTHS AND DEATHS REGISTRATION ACT, 1992 (ACT NO. 51 OF 1992)

Notice is hereby given of Government Gazette No.**51950** which, was published in Government Gazette No **5777** dated **25 January 2025**, is hereby rectified to read as follows:

1. Matshidiso Karabo Hope Mofokeng - 000713 0608 *** - 1512 Matsapa Street, Mailula Park, Extension 3, VOSLOORUS, 1475 - *Sibahle Karabo*

2. Matampi Moloi - 000404 0796 *** - 1962 Paballong , WITSIESHOEK, 9870 - *Matanki*

3. Aryan Loykissoonlal - 030903 1802 *** - 22 Katberg Street, The Reeds, CENTURION, 0157 - *Ahrina*

4. Warren Brian Human - 690508 0938 *** - Belle Abbey Manor, Ballakilpheril Road, Colby, ISE OF MAN, 1000 - *Lauren*

5. James Patrick Wallace Mckeown - 050814 1327 *** - 17 Crescent Road, WYNBERG, 7800 - *Mia Wren*

6. Cameron Jordan Reid - 990504 1419 *** - 1 – 2nd Avenue, Killarney, JOHANNESBURG, 2193 - *Cami Mae*

7. Ngobunono Skhuselwe Muriel Mtshabe - 971023 6234 *** - 21-452 Robert McBride Street, Mandela Park, KHAYELITSHA, 7784 - *Ngobunono Thato*

8. Abicial Sinqobile Noluthando Zwane - 010606 6521 *** - 53 – 8th Avenue, Bezuidenhout Valley, EDENVALE, 2094 - *Enzokuhle Jedidiah Daluthando*

9. Qeneqelo Loftars Masiza - 051117 5375 *** - 185 Bluegumbusch, PHUTHADITJHABA, 9866 - *Qenehelo Loftus*

10. Kgothatso Kgatla - 050624 5115 *** - Stand No 454, MAMAILA, 0800 - *Kgothatso Moses Junior*

11. Ariama Alyse Gounden - 040301 1391 *** - 86 Lewis Drive, Eltro, AMANZIMTOTI, 4126 - *Ariana Alyse*

12. Donald Xolani Moshoete - 930313 5155 *** - 3906 Bomu Street, Tshepisong, ROODEPOORT, 1725 - *Xolani*

13. Sifiso Shabangu - 950814 1337 *** - 3001 Lengau Street, Emdeni, soweto, 1868 - *Marley Neo*

Notice is hereby given of Government Gazette No.**50971** which, was published in Government Gazette No **5058** dated **19 July 2024**, is hereby rectified to read as follows

1. Dikeledi Lucia Chiloane - 010625 0699 *** - 36900 Theobela Street, Extension 22, MAMELODI EAST, 0122 - *Karabo Dikeledi Lucia*

DEPARTMENT OF HOME AFFAIRS

NO. 6095 **4 April 2025**

ALTERATION OF FORENAMES IN TERMS OF SECTION 24 OF THE BIRTHS AND DEATHS REGISTRATION ACT, 1992 (ACT NO. 51 OF 1992)

The Director-General has authorized the following persons to assume the forename printed in *italics*:

1. Neliswe Boya - 011007 0967 *** - House No 1058, Moroka Location, THABA NCHU, 9780 - *Nelisiwe*
2. Nombulelo Mbatha - 060816 0576 *** - Roosbom, LADYSMITH, 3370 - *Nombulelo Zamashandu*
3. Oukakie Monethi - 860824 1335 *** - House No 10331, Phaposane Village, TLAKGAMENG, 8616 - *Oumakie*
4. Gugumpendulo Mahlangu - 040217 1192 *** - 14 Sylvia Street, Heatherdale, AKASIA, 0182 - *Gugulethu Mpendulo*
5. Kgalalelo Gaokaelwe - 050618 0096 *** - House No 5423, Ramochana, RUSTENBURG, 0300 - *Kgalalelo Faith*
6. Siena Molatudi - 001103 0337 *** - House No 3347, Rooirand, BARKLY WEST, 8575 - *Olerato Siena*
7. Nompumelelo Promise Mngoma - 040926 0952 *** - Nkampini Location, MARGATE, 4275 - *Nokwanda*
8. Nomkhosi Nobandile Mkwena - 060920 1137 *** - 963 Mkhwanazi Street, Sakhile, STANDERTON, 2431 - *Nobandile Nomkhosi*
9. Kabelo Moedi Kobo - 060317 0135 *** - 33B Koggelaar Street, Rooihuiskraal, CENTURION, 0157 - *Kabelo Moedi Michelle*
10. Nthabiseng Rosalia Macheli - 771007 0854 *** - 1318 H 3, BOTSHABELO, 9781 - *Nthabiseng Rose*
11. Nomthandazo Mirriam Seemane - 850523 0610 *** - Block C, Milkyway Road, DASSENHOEK, 3610 - *Nokuthobeka Mathapelo*
12. Nthabiseng Martina Mokoena - 860429 0784 *** - 3186 Key Street, PHUTHADITJHABA, 9866 - *Nthabiseng*
13. Ulisha Alvina Karim - 980707 0828 *** - 97 Coranation Road, MALVERN, 4055 - *Ameerah Alvina*
14. Magata Martha Moyane - 820607 0481 *** - Stand No 1594, Matsulu C, MBOMBELA, 1203 - *Agatha Mokgadi*
15. Masetjhaya Sylvia Mralathi - 880918 0989 *** - 6640 Mzathi Street, Asla Park, MOSSELBAY, 6530 - *Siyolise Sylvia*
16. Matlakala Rebecca Manaiwa - 950127 0836 *** - House No 2203 , Block P, SOSHANGUVE, 0152 - *Bontle Rebecca*
17. Martha Ntombi Tshabalala - 791012 0493 *** - 243 Malefetse Street, Nguni Section, VOSLOORUS, 1475 - *Martha Ntombikayise*
18. Nimrod Bolisiki - 060717 5563 *** - Rasmeni Area, NGCOBO, 5050 - *Nimrod Msindisi*
19. Medi Smit - 040626 5886 *** - 25 Wagner Street, DELFT SOUTH, 7100 - *Afika*
20. Shriyah Govender - 020801 5265 *** - 189 Road 721, Montford, CHATSWORTH, 4092 - *Shriyan*
21. Onthathile Athwell Dumisa - 031009 5312 *** - 7360 Seme Street, MOHLAKENG, 1760 - *Muziwendoda Athwell*

22. Gomolemo Joel Tladi - 930429 5958 *** - House No 1339 , Majakaneng Section, Makapanstad, MORETELE, 0407 - *Gomolemo Motswaledi*

23. Miyelani Shadrack Maluleke - 010210 5459 *** - Ga-Matipane, BOLOBEDU, 0831 - *Miyelani Shadrack Samuel*

24. Ernest Tshepiso Khambule - 970722 5916 *** - House No 251 B, Thaba Bosili, WITSIESTHOEK, 9870 - *Tshepiso Ernest*

25. Sharon Williams - 030925 0111 *** - 6 Chamelie Street, KIMBERLEY, 8301 - *Rosabella Shasron Armuhella*

26. Yondi Ntshinka - 950630 0731 *** - 31732 Thukumbela Street, Lwandle, STRAND, 7140 - *Yolanda Yondi*

27. Germinah Seimela - 921224 0755 *** - 3304 Clara Park, Clara Street, PRETORIA, 0002 - *Germinah Mercy*

28. Mirriam Modiselle - 680806 1031 *** - House No 3827, Zone 3, GA-RANKUWA, 0208 - *Mirriam Maleburu*

29. Liyabona Bovula - 020619 1246 *** - 2748 Waluwolo Street, CROSSROADS, 7750 - *Leeyonce Liyabona*

30. Cyan Fritz - 050920 0273 *** - 17 Turnhouse Street, Highveld, CENTURION, 0167 - *Cyan Jordan*

31. Nombulelo Pailman - 971215 1368 *** - 302 Chestnut Place, BELHAR, 7493 - *Gaironeesa*

32. Shevane Rabie - 950805 0913 *** - 34 Niersteen Street, ELDORADO PARK, 1812 - *Shaakira*

33. Benedicta Mhlanga - 870403 1164 *** - 584 Boulevard, Tsutsumani , ALEXANDRA, 2090 - *Phindile Benedicta*

34. Yandisa Mbanjwa - 040508 1123 *** - 121 8 Hartfield Street, Catalina Gardens, BEREA, 2198 - *Lerato Yandisa*

35. Kelly Adonis - 060313 0229 *** - 76 Agnes Street, VALNALLA PARK, 7490 - *Ashra*

36. Shelter Moyo - 021018 0670 *** - Ekhaya Junction, 346 Werr Street, PRETORIA GARDENS, 0082 - *Shirley Shelter*

37. Sithabile Sibiya - 931113 1068 *** - Nkundusi Area, MTUBATUBA, 3935 - *Sindisiwe Sithabile*

38. Eben Faber - 060201 1673 *** - 16 Westbrooke Street, Mangold Park, GQEBERHA, 6070 - *Elora Lizette*

39. Nontembeko Silekwa - 870209 0582 *** - 18539 Matonosi Street, Diepkloof, Zone 4, SOWETO, 1862 - *Nontembeko Sive*

40. Nontokozo Ngcobo - 060116 0986 *** - Mxhosa, MAPHUMULO, 4470 - *Nontokozo Zainap*

41. Litsoanelo Lenkoane - 970501 1335 *** - 165 Lawley Station, LENASIA, 1829 - *Itumeleng Litsoanelo*

42. Jodin Abrahams - 020411 0070 *** - 34 Azalea Crescent, BELHAR, 7493 - *Jahaan*

43. Monnalisa Sibanda - 001105 1183 *** - 10962 Dithakong East, MAHIKENG, 2745 - *Monnalisa Tanaka*

44. Aphiwe Bawuti - 030407 0708 *** - Upper Xhongora, MTHATHA, 6099 - *Olothando Aphiwe*

45. Lisa Jordaan - 991023 0062 *** - 129 Weber Street, Meyerspark, PRETORIA, 0184 - *Lisa Schnetler*

46. Nakene Selinah Makgamatha - 640827 0329 *** - 139 Ruth Malewa Street, Block K, SOSHANGUVE, 0152 - *Kweni Nakene Selinah*

47. Mamphakgo Lina Bopape - 651109 0348 *** - Stand No 1268, PALEDI, 0727 - *Matjakana Lina*

48. Lena Mapula Mzonda - 640904 0530 088 - 11361 Warrior Street, MOHLAKENG, 1759 - *Mapula Anna*

49. Kokoleto Constance Tshabalala - 751104 0806 *** - 7343 Intendele Crescent, Windmill Park, BOKSBURG, 1459 - *Gugulethu Constance*

50. Victrice Nolthando Tshabalala - 850117 6212 *** - 580A Tsabane Street, White City, JABAVU, 1868 - *Thando Victrice*

51. Dipuo Ethel Gumede - 780518 0403 *** - 44 Queen Alexandra Road, LOMBARDY EAST, 2090 - *Matshepo Dipuo Ethel*

52. Phuti Germina Matlhadisha - 830323 0950 *** - House No 1192, Mankweng Unit C, SOVENGA, 0727 - *Phemeloyamorena Germina*

53. Ntombenkosi Esam Beje - 060403 1661 *** - Lepota Village, STERKSPRUIT, 9762 - *Linamandla Esam*

54. Sikhanyiso Beyonce Ndlovu - 960917 1586 *** - 320 Main Avenue, Randburg, JOHANNESBURG, 2194 - *Sikhanyiso*

55. Silindile Gabisile Khumalo - 051021 0327 *** - China 2, AMERSFOORT, 2480 - *Silindile Zobuhle*

56. Hezechiel Sithole - 840119 5754 *** - 1007/77 Umzolozolo Street, Block V, SOSHANGUVE, 0152 - *Hezechiel Tumelo*

57. Donald Mabowa - 030321 5226 *** - Ga Radingwana, SEKHUKHUNE, 1124 - *Tsekele Donald*

58. Bongani Charlie - 791022 5714 *** - House No 50299, Nqonqweni Location, Berlin, EAST LONDON, 5660 - *Lubabalo*

59. Emanuel Boms - 820518 5442 *** - House No 12, Zone 12, LANGA, 7455 - *Jongikhaya Emmanuel*

60. Previous Sibanda - 940917 6443 *** - 577 Maseru Street, Meadowlands, Zone 8, SOWETO, 1852 - *Lethukuthula*

61. Luxolo Buso - 980729 5715 *** - Unit 2, Waikiliki, Horizon View, ROODEPOORT, 1724 - *Luxolo Makayenze*

62. Taboka Dube - 041210 5533 *** - 35 Van Der Merwe Street, Elsburg, GERMISTON, 1401 - *Siyabonga Taboka Kgosi*

63. Boniwe Ndzumo - 040905 5457 *** - House No 5823, Shayamoya, KOKSTAD, 4700 - *Ludwe*

64. Qondile Malebo - 010403 6076 *** - 798 Eloff Street, SLOVO PARK, 1811 - *Qondile Kamati*

65. Liso Sibeko - 041219 5282 *** - 07 Shamrock Lane, BEACON BAY, 5201 - *Liso Christopher*

66. Tshepang Mokwena - 050815 5951 *** - 060 City Place, Church Street, PRETORIA, 0001 - *Sebolai Tshepang*

67. Hardlife Chauke - 940708 6085 *** - House No 4757, Extension 19, Olievenhoutbosch, CENTURION, 2000 - *Vhutshilo Hardy*

68. Akhona Zikhali - 040325 6080 *** - Esikhaleni 1349, Mgwagwane Road, EMPANGENI, 3900 - *Akhona Qhawe*

69. Sinty Mtimde - 980719 5431 *** - Mjika Area, NTABANKULU, 5130 - *Sintu*

70. Jabu Baba - 990827 6123 *** - 1127 Lesseyton, QUEENSTOWN, 5320 - *Nhlanhla*

71. Zukile Dumani - 790405 5760 *** - Tshonya Area, LUSIKISIKI, 4820 - *Zukile Happy*

72. Jamiel Carlito Minnies - 050813 5193 *** - 78 Zambesi Way, Portlands, MITCHELLS PLAIN, 7785 - *Jamiel*

73. Mohale Khotso Machete - 991206 6338 *** - 58 Switch Street, Powerpark, SOWETO, 1852 - *Khotso*

74. Brandon Quinn Vincent Galant - 831121 5367 *** - 6 Canara Crescent, Sherwood Park, ATLANTIS, 7394 - *Budrudeen*

75. Siyabonga Matsagane Biyela - 040429 5561 *** - 6656 Unongane Street, VOSLOORUS, 1475 - *Siyabonga Brandon*

76. Gert Petrus Adriaan Van Aarde-Rossouw - 810310 5027 *** - No 8 18 Basuin Crescent, PRETORIA, 0081 - *Brian*

77. Thapedi Johannes Mokwena - 550213 5502 *** - E3030 Jakkalas Dans, WINTERVELDT, 0198 - *Thapedi George*

78. Mmatlou Lesley Matsi - 750519 5330 *** - 30 Soutpansberg Road, Riviera, PRETORIA, 0002 - *Matlou Lesley*

79. Albert Mabetha Nkoana - 730913 5505 *** - 59 Ash Street, Kibler Park, ALBERTON, 2091 - *Mabetha Albert Majelakapitseng*

80. Stephen Ramotswahole Kutlwano Monkoe - 050527 5777 *** - 29 Woolsack Drive, ROSEBANK, 7700 - *Kutlwano Stephen*

81. Kgopotso Fevern Matuludi - 930212 5741 *** - Ntwampe, MOROKE, 1154 - *Kgopotso Magaelane*

82. Marothi Solomon Mangena - 801018 5386 *** - 452 Unit A, LEBOWAKGOMO, 0737 - *Madumane Michael*

83. Tshidiso Jackson Fondini - 031205 5921 *** - 56 Langhoven, STILFONTEIN, 2551 - *Nhlanhla Mduduzeni*

84. Meluleki Ntethelelo Nkosi - 990821 5714 *** - Kwabanakeni Area, VRYHEID, 3100 - *Melusi Silo*

85. Bradly Oratile Montsha - 060428 5565 *** - 27058 Magope Street, MAMELODI, 0125 - *Bradly Oratile Malesela*

86. Monde William Siswana - 040514 5958 *** - Julukuqu Area, MTHATHA, 5099 - *Monde*

87. Lemohang Tsofali Masoetsa - 031011 5064 *** - 19067 Hlongwane Street, Bophelong, ROCKLANDS, 9323 - *Lemohang Tsofali Calvin*

88. Pamela Phinda Magubane - 011217 5252 *** - Nomvula Area, EMPANGENI, 3887 - *Phakamela Khulani*

89. Isabella Charline Venter - 940704 6431 *** - 195 A Cornelis Street, Fairland, RANDBURG, 2070 - *Noah Daniel*

90. Mfuno Mzudumile Norolela - 020821 6036 *** - 113 Bishop Square, Leogery Place, Erand Gardens, MIDRAND, 5100 - *Mfumo Mzudumile*

91. Luanda Mzimela - 921011 1175 *** - 734 Park Street, Arcadia, PRETORIA, 0001 - *Luyanda Zamalwandle*

92. Jade Michealla Johannes-Ebrahim - 970619 0217 *** - 04 Tuberose Street, CAPE TOWN, 7785 - *Aleena*

93. Eva Kgolofelo Nkhumane - 940401 0287 *** - Swartrif No 8, ONVERWACHT, 0557 - *Eva Mokgaetsi*

94. Lungile Sonwabo - 961123 5191 *** - 253 Ocean View Drive, Sea Point, CAPE TOWN, 8060 - *Lungile Alhassan*

95. Sustanos Mawela - 850228 5448 *** - Ohristad, POLOKWANE, 1122 - *Mpho Sustanos*

96. Seholofele Dean Rampya - 940107 5458 *** - 4155 Molekatlou Street, Mamahule, DALMADA, 0699 - *Sathekge Israele*

97. Simamkele Maseko - 020126 1090 *** - House No H15A, Zwide , PORT ELIZABETH, 6201 - *Simamkele Kamogelo*

98. Nosandile Bhejengile - 790101 1911 *** - Qatywa Area, ELLIOTDALE, 5070 - *Lindelwa Nosandile*

99. Anda Khonza - 040824 0327 *** - House No 43226, Scenery Park, Phase 3, EAST LONDON, 5253 - *Ayesanda*

100. Unathi Mhlanga - 050211 0596 *** - 1187 Petsana, REITZ, 9810 - *Unathi Samukelisiwe Maria*

101. Gontse Tjempe - 970503 0581 *** - 2163 Maubane, HAMMANSKRAAL, 0412 - *Mmadira Rosinah Gontse*

102. Hlukani Hlatywayo - 890911 0303 *** - 32983 Tshabalala, TSAKANE, 1550 - *Hlukani Bongi*

103. Kelebohile Matla - 061207 0071 *** - 9135 Egypt, BETHLEHEM, 9701 - *Kelebohile Bonolo*

104. Manduloza Martha Motsoeneng - 731008 0836 *** - 262 B Namoha, Phase 2, WITSIESHOEK, 9860 - *Martha*

105. Wendy Princess Mbejeni - 920127 0454 *** - Room 2 Zone 19, Langa, CAPE TOWN, 7455 - *Wendy Aphiwe*

106. Jeniffer Matuludi - 990607 0678 *** - Ntwampe, MOROKE, 1154 - *Mabule Jeniffer*

107. Maredi Phalamashweu - 060117 5301 *** - 1679 Duvha Park, Extension 8, WITBANK, 1034 - *Bokamoso*

108. Thabang Theonel Mocumi - 050122 5878 *** - 35 Morare Drive, Munsieville, KRUGERSDORP, 1739 - *Keotshepile Theonel*

109. Kildy Edward Stander - 920428 5193 *** - 593 Mansvelt Street, ELARDUSPARK, 0181 - *Kilday Edward*

110. Arrogant Nkosnat Ubisi - 060105 5856 *** - 9 Copper Street, SPRINGS, 1559 - *Vukosi Repent Nkosinathi*

111. Moses Moshe Valashiya - 850530 5527 *** - House No 5692, Zone 5, PIMVILLE, 1809 - *Moshe*

112. Sabulela Samora Faltein - 800929 5769 *** - 27 Mkhuze Street, Zwide, GQEBEKHA, 6201 - *Siyabulela Samora*

113. Ammie Maraka - 831223 0967 *** - House No 052, Nobeng Village, KURUMAN, 8460 - *Amy Naledi*

114. Geraldine Tyambetyu - 800520 0208 *** - A-3 Russel Skema , WORCESTER, 6850 - *Laeeqah*

115. Zenzile Nompumelelo Mondlane - 960820 1087 *** - Stand No 50, NELSPRUIT, 1205 - *Zenzile Nompumelelo Carol*

116. Ignitious Keabetswe Makoro - 050523 1375 *** - House No 7327/13, Extension 4, Soshanguve, PRETORIA, 0152 - *Keabetswe Ignitious*

117. Paulinah Rose Mdhluli - 950712 0562 *** - Stand No 7040, Daantjie Trust, NELSPRUIT, 1216 - *Mbalenhle Pumla*

118. Nthabeleng Philadelphia Motloung - 870817 0538 *** - House No 1413, Extension 05, BETHLEHEM, 9701 - *Matshidiso Elisa*

119. Lavina Carmelita Fortune - 801025 0192 *** - 2 – A Thames Walk, MANENBERG, 7764 - *Carmelita*

120. Jeaneth Mary Maphake - 760304 0900 *** - 8160 Chief Masango Street, Extension 9, QWA-QWA, 1035 - *Nyeleti Khanyisa*

121. Mokgwakgwa Manyama - 891221 5638 *** - Ga-Mokwakwaila, BOLOBEDU, 0835 - *Mokgwakgwa Kevin*

122. Onika Mteto - 050127 5369 *** - Mgotholore 17121, VOSLOORUS, 1475 - *Teboho Onika*

123. Jesse-Lee Adonis - 990520 5084 *** - 194 Bietou Road, Eastridge, MITCHELLS PLAIN, 7785 - *Abduraaghmaan*

124. Henry Phakwana - 820821 5727 *** - House No 6806, Extension 12, JOUBERTON, 2574 - *Thabang Henry*

125. Msuthu Shorty Yawa - 971019 5232 *** - House No 585, SOSHANGUVE SOUTH, 0152 - *Simphiwe Msuthu Shorty*

126. Nhoma Soga - 840323 0972 *** - 4 Daniel Street, Cambridge West, EAST LONDON, 5201 - *Nolukhanyo Letticia*

127. Anna Januarie - 690728 0036 *** - Chelseastraat 2067, HAWSTON, 7202 - *Jo-Anne*

128. Craig Nicholas Roxburgh - 961114 1211 *** - 207 2 On Lincoln, 2 Lincoln Street, CAPE TOWN, 7708 - *Cassandra Priam*

129. Amahle Qaphelani Fakude - 050517 6341 *** - Nkanini Area, INGWAVVUMA, 3968 - *Mazwamahle Qaphelani*

130. Hlumela Tsotsi - 001017 0332 *** - 4511 Nu 8, MDANTSANE, 5219 - *Hlumela Unathi*

131. Taneel Verwey - 030406 1061 *** - 69 Lloyd Avenue, BLUFF, 4000 - *Taneel Andromeda*

132. Cathrine Ramoroka - 821005 0050 *** - 3330 Block B , New Eersterus, HAMMANSKRAAL, 0400 - *Teenage Cathrine*

133. Nothando Sobekwa - 860503 0967 *** - 175 Uthingo Park, Extension 6, Tasbet, WITBANK, 1040 - *Ntombizikho*

134. Boitumelo Maputle - 040714 0337 *** - 11963 Flamingo Avenue, Hospital View, KAGISO, 1754 - *Boitumelo Tiffany*

135. Natasha Da Costa Souvaris - 881004 0044 *** - 1141 Spoobnbill Circle, GREENSTONE HILL, 1609 - *Natasha Maio*

136. Changano Segunda Paulino - 950828 0136 *** - 19416 Matale Street, Extension 8, Boitekong, RUSTENBURG, 0300 - *Annastacia Segunda*

137. Tshilidzi Whitney Munzhelele - 741118 0817 *** - Matangari, Mibomoni, THOHOYANDOU, 0950 - *Tshilidzi*

138. Patracia Kotoko Mabetoa - 881113 0210 *** - 1683 Jubilee Road, Parklands Estate, Jubilee Road, THE PARKS, 1459 - *Patricia Kotoko*

139. Amukelani Prosperity Baloyi - 820611 0502 *** - House No 270, Section A, MALAMULELE, 0985 - *Amukelani Patience*

140. Thaina Mthandazo Mona - 660506 0781 *** - Stand No 36, Mshadza, MASOYI, 1240 - *Tina Nomthandazo*

141. Maré Elize Du Toit - 830224 0157 *** - 267 Mike Muller Straat, SWELLENDAM, 6740 - *Maré-Elize*

142. Lizo Mbonelo - 960620 6039 *** - Bala Area, FLAGSTAFF, 4810 - *Lizo Sfiso*

143. Phiri Abram Mongwenyana - 750407 5582 *** - House No 1166, Zone 20, GA-RANKUWA, 0205 - *Abram Busang*

144. Jamie Dean Joachim Du Toit - 020216 5099 *** - 105A Kersboom Street, Bonteheuwel, CAPE TOWN, 7764 - *Jamiel*

145. Mtetwa Amos Dlamini - 780227 5364 *** - 53 Impempe Street, Proclamation Hill, PRETORIA, 0183 - *Mthethwa Amos*

146. Imi Bunu - 050719 0926 *** - Ny 78 No 39A, GUGULETHU, 7750 - *Zimile Cebolenkosi*

147. Monique Preston-Kruger - 060120 0230 *** - 11 Wonderboom, Glen Marais, KEMPTON PARK, 1619 - *Bailey*

148. Bokhola Thapelo - 931101 1127 *** - Stadt Village, MAHIKENG, 2745 - *Boitumelo Bokhola*

149. Carrin Lee Kim Haddon - 970622 0191 *** - 40 Amatola Crescent, Heideveld, ATHLONE, 7764 - *Saabirah*

150. Diketso Moshiane Phogole - 041012 1160 *** - 10046 Mphanama, MPILO, 1069 - *Diketso Maseke*

151. Carla Jemima Taljaard - 031014 0281 *** - 25 Smithers Road , The Orchards, Extension 11, AKASIA, 0182 - *Francis Carlo*

152. Celeste Lindiswa Baleni - 900623 0541 *** - 01 Solaris Street, AAN DE WINJLANDEN, 7100 - *Philasande*

153. Maria Sinna Mmathapelo Mosenogi - 701224 1359 *** - Extension 39, MMABATHO, 2745 - *Mathapelo*

154. Tholakele Silindile Khumalo - 900815 1312 *** - H143 Mkhombe Road, KWAMASHU, 4359 - *Silindile Tholakele*

155. Rziah Sithembile Phakathi - 990525 1265 *** - Nkonkoni Street, SHAKAVILLE, 4450 - *Sithembile Razia*

156. Carmel Ann Rubinstein - 750809 0105 *** - 11 Kestrel Way, Kenrock Estate, HOUTBAY, 7806 - *Carmel Ann Stoch*

157. Ntiyiso Julia Ramalepe - 060725 0230 *** - House No 70618, Lusake Dan, LETABA, 0870 - *Ntiyiso*

158. Aphile Wandile Nhlangothi - 051228 0272 *** - 16 Milkwood Road, Acaciaville, LADYSMITH, 3370 - *Aphile Wandile Makhamnandi*

159. Zimasa Anda Fukula - 920113 1135 *** - 11 Okkerneut Street, DELFT SOUTH, 7100 - *Zimasa*

160. Kisuamba Deborah Kanianga - 990519 1321 *** - 143 Great Britain , Kenilworth, ROSETTENVILLE, 2190 - *Deborah*

161. Joergina Paula Tato - 060311 0139 *** - 312 Kagisanong View, KGABALATSANI, 0200 - *Sinethemba Goergina*

162. Kabelo Mokone - 930312 6104 *** - House No 1223, WAALKRAAL, 0412 - *Kabelo Malose*

163. Njabulo Motha - 061101 6305 *** - 779 Phola Park, Street 34, KWAMHLANGA, 1022 - *Njabulo Lloyd*

164. Nqobani Masumpa - 970804 6159 *** - House No 364, Block D, ALIWAL NORTH, 9756 - *Michael*

165. Snenhlanhla Absent Sithole - 980925 6215 *** - 11688 Malefane Street, ORLANDO WEST, 3350 - *Snenhlanhla Andile*

166. Hlupeka Vincent Lekgothoane - 871117 5781 *** - House No 3963, Zithobeni, BRONKHORSTSPRUIT, 1024 - *Khulwana Vincent*

167. Khumbulani Thapelo Makhayi - 051103 6123 *** - 70069 Mmotong, Bakenberg, MOKOPANE, 0611 - *Thapelo*

168. Phuthi Donavan Lekalakala - 090317 5691 *** - Stand No 30336, Maroteng Village, MOKOPANE, 0601 - *Thabang*

169. Thompo Musiwa Ragwala - 060505 6454 *** - Stand No 99, Magau Village, SINTHUMULE, 0938 - *Thompho Musiwa*

170. Bhekinkosi Isaac Mngomezulu - 810106 6245 *** - P O Box 340, INGWAVUMA, 3968 - *Isaac Thembinkosi*

171. Kerclohho Sibusiso Majara - 051106 5987 *** - Stand No A66, Mavillage Section, PIET RETIEF, 2380 - *Katlego Sibusiso*

172. Madimabe Armstrong Absalom Moshime - 691230 5797 *** - 21 Dawid Street, The Reeds, CENTURION, 0157 - *Madi Armstrong Absalom*

173. Diapo Joel Mailula - 060703 6085 *** - Kopermyn, GA-MAJA, 0719 - *William Lesiba*

174. Puseletso Thabo Masenya - 040913 6444 *** - 1035 Blouvalk Street, Ninapark Estate, AKASIA, 0182 - *Thabo Puseletso Yirmiyahu*

175. Motlhelo Benjamin James - 880822 5294 *** - 2693 Jansen Rylaan, WARRENTON, 8530 - *Motlhelo Poppy*

176. Siphephile Jabhile Gumede - 960908 5863 *** - Obonjeni , JOZINI , 3969 - *Siphephile Jahile*

177. Nothemba Gwentshu - 810715 0376 *** - 7129 Jacob Zuma Street, Ocean View, JEFFREYSBAY, 6330 - *Nothemba Connie*

178. Lee-Andri Neethling - 980610 0131 *** - 129 Van Zyl Laan, WORCESTER, 6850 - *Naadirah*

179. Nombulelo Nongwana - 920114 1204 *** - Mtimde Location, LUSIKISIKI, 4820 - *Nombulelo Thulisa*

180. Reoikantse Majova - 011103 0183 *** - 378 Unit 1, Lerato, LEHURUTSHE, 3880 - *Reoikantse Thenjiwe*

181. Mumsy Masimula - 990617 0663 *** - Xenon Street, Nellmapius, PRETORIA, 0112 - *Botlhale*

182. Patricia Ngubane - 770315 0517 *** - Phatheni Location, RICHMOND, 3780 - *Patricia Ngitheni Jabulile*

183. Nonhlanhla Motaung - 010807 0751 *** - 1272 Matlasane Street, Extension 2, VOSLOORUS, 1475 - *Nonhlanhla Lesedi*

184. Meiki Moholo - 970407 0680 *** - House No 10255, Matlapeng Section, Khunotswane, LEHURUTSHE, 2883 - *Meiki Pertunia*

185. Gugu Mpobole - 980717 0483 *** - 2431 Diale Street, Orlando East, SOWETO, 1804 - *Gugu Natasha*

186. Riani Burger - 960227 0133 *** - 17 Velling Place, Wapadrand, PRETORIA, 0050 - *Riani Wagner*

187. Mbulaheni Mutshinya - 890924 0790 *** - Unit 22, Villagrande, Beverley, FOURWAYS, 2162 - *Humbulani Candice*

188. Abigail De Wet - 870827 0148 *** - 30 Kameeldoring Street, Lentegeur, MITCHELLS PLAIN, 7785 - *Asiyah*

189. Nomfundo Phumelele Lindokuhle Gumede - 740128 0345 *** - 8 Holy Road, Cleland, PIETERMARITZBURG, 3201 - *Zinnia Phumelele Lindokuhle*

190. Maakgatshang Ashley Magutshula - 040127 0271 *** - 22973 Pine Haven, BLOEMFONTEIN, 9323 - *Tebogo Maakgatshang Ashley*

191. Kesilwe Gloria Ramakhale - 830426 0497 *** - House No 18699, Thabong , WELKOM, 9463 - *Kesikilwe Gloria*

192. Mpho Mabotse Christina Moloantoa - 920316 0540 *** - House No 265, Moong Village, LEPHALALE, 0555 - *Phuti Letladi Ennie*

193. Kgomotso Sarah Mothiba - 981218 0080 *** - House No 975 , Zone 6, SEBOKENG, 1984 - *Matlou Kgomotso Sophia Sarah*

194. Mpofokaze Bokhatsi Maope - 700702 0805 *** - 19 Laric Street, Flamingo Park, WELKOM, 9459 - *Mpofokaze Bokhatsi Christine*

195. Alana Heather Stober - 000716 0118 *** - 11 Garden Lane, STRANDFONTEIN, 7798 - *Airah*

196. Lwethu Kwanele Shelembe - 060212 1030 *** - 34 Cowens Crescent, Blackridge, PIETERMARITZBURG, 3201 - *Lwethu Eliana*

197. Neo Mmabatho Lehlohonolo Ramoeng - 810828 0548 *** - 246 Mayfair Court, 1 Oasis Lane, Century City, CAPE TOWN, 7445 - *Kinny Mmabatho Lehlohonolo*

198. Blantinah Modiehi Ketsise - 900911 0883 *** - 53 Diaz Street, Dagbreek, WELKOM, 9459 - *Bahumi Deborah*

199. Makopi Venolia Ramokopu - 891128 0186 *** - House No 8646 , Phase 7, BETHLEHEM, 9701 - *Naledi Venolia*

200. Boitumelo Gladness Ditlhobolo - 800123 0527 *** - House No A 84, Good Wood Village, GANYESA, 8613 - *Boitumelo Kegopotsemang Gladness*

201. Phalakgoro Mahlako Mafiri - 971101 0290 *** - Madibong , JANE FURSE, 1085 - *Mahlako Precious*

202. Parciaus Puseletso Ramokgopa - 900707 0579 *** - 81 M Section, BOTSHABELO, 9181 - *Mpho*

203. Sbongile Sebenzile Mnguni - 920705 0748 *** - 58 Auret Street, Jeppestown, JOHANNESBURG, 2094 - *Khosi Saziso*

204. Nolindelo Leanne Duma - 960212 0641 *** - Nkangala Road, Adams Mission, ADAMS, 4100 - *Lwandle Lindelwa*

205. Precilla Modiehi Mokhali - 930501 0227 *** - House No 9796, Extension 11, EVATON WEST, 1984 - *Modiehi Shantel*

206. Thato Mosoune Leboho - 990301 0229 *** - House No 920, Block DD, SOSHANGUVE, 0152 - *Thato Moswane*

207. Mmaphologa Evelyn Seleka - 981016 0188 *** - 41 Retloetso Street, Mahube Heights, MAMELODI, 0122 - *Tlou*

208. Chakozako Lucy Chunga - 831224 0239 *** - 17H Pharoe Park Corner, Jackfoueen, GERMISTON, 1400 - *Thembelihle Lucy*

209. Dikeledi Portia Malebo - 970609 0072 *** - House No 2784 K, BOTSHABELO, 9781 - *Thatohatsi Portia*

210. Sesi Ndazi Skhosana - 910807 1266 *** - Stand No 1258, Watervaal B, SIYABUSWA, 0472 - *Nozulu*

211. Martha Mmamma Phahlamohlaka - 751111 0859 *** - Ga-Phaahla, MAKADIKWE, 1062 - *Mmangakane Martha*

212. Mary Magadi Phohlela - 870727 0965 *** - House No 809, Mashemong Section, TEMBISA, 1632 - *Malebo Magadi Mary*

213. Kefilwe Maria Msimango - 910104 0743 *** - House No 15805, Extension 11, Ikageng Location, POTCHEFSTROOM, 2531 - *Aminah*

214. Carlyn Chelsea Undre - 980510 0037 *** - 5 Perry Street, CLAMHALL, 7500 - *Qadirah*

215. Phumzile Veronica Gumede - 000607 0241 *** - 21303 Phezukomkhono, UMBUMBULU, 4105 - *Nolwazi*

216. Mokgadi Agness Mohale - 950313 0682 *** - Maunavhathu, LWAMONDO, 0985 - *Mokgadi*

217. Sifunisile Maricia Mokoena - 980712 0105 *** - 2469 Thobela Street, Blue Gum View, DUDUZA, 1496 - *Cloe Victory*

218. Rejoice Matlou Mantsho - 920423 0996 *** - Stand No 541, Moletjie , Madikoti, KOLOTI, 0709 - *Rejoyce Matlou*

219. Suzzy Permission Mukhawana - 841006 0420 *** - 40 Eikenhof Extension, Starling Close, MEREDALE, 2091 - *Suzzy Xiluva*

220. Matthew-Mark Lewis - 060202 5336 *** - 1812 Dorothea Flats, c/o Rahima Moosa & Russel Street, Newclare, JOHANNESBURG, 2093 - *Yazeed Osama*

221. Tshidiso Ratsiu - 970926 5151 *** - 15215 Swanepoel Street, Bloemanda, BLOEMFONTEIN, 9300 - *Letlotlo Matshediso*

222. Sipho Milazi - 750104 5768 *** - P O Box 138, BURGERSFORT, 1150 - *Masiye Adjisa*

223. Vuyovuyani Kokela - 001009 5427 *** - 47 shale Road, Orion Park, RANDFONTEIN, 1759 - *Vuyo Vuyani*

224. Lonwabo Matiwane - 871006 6314 *** - 7 Mtati Avenue, Joe Slovo, MILNERTON, 7441 - *Airport*

225. Hulisani Lovers Rakhalaru - 050214 5745 *** - Tshamulungwi, MUTALE, 0956 - *Hulisani Sydney*

226. Jenade José Watsmann - 000929 5117 *** - 680 – 8th Avenue, Mayville, PRETORIA, 0084 - *Israel*

227. Mpiki Motheo Mabowa - 880704 5831 *** - 36469 Maja Street, Lusaka, Mamelodi East, PRETORIA, 0122 - *Kgoputjo Motheo*

228. Jacobs Siphiwe Mkhize - 740628 5448 *** - Olakeni Area, MBAZWANA, 3974 - *Jacob Siphiwe*

229. Gipson Mashumu Dolamo - 980930 5569 *** - Vlak, MARISHANE, 1064 - *Gipson Mogaletloa*

230. Setepi Collins Ramoloko - 641108 5247 *** - Unit 7 Glasgow Road, Lombardy, JOHANNESBURG, 2090 - *Tseke Mogudi*

231. Samuel Cater Stevens - 980327 5243 *** - 137 Muirfield Avenue, Pearl Valley, PAARL, 7646 - *Samual*

232. Wonderboy Thamsanqa Dlamini - 800310 6212 *** - 2664 Wiggins Road, CATO MANOR, 4091 - *Wonder Thamsanqa*

233. Tshephang Marihle Makwana - 990628 5640 *** - Dihlabaneng, SEKHUKHUNE, 1124 - *Marihle Colett*

234. Baldwin Martin Saka - 820722 5688 *** - 7938 Letlwa Street, Nallmapius , Extension 7, PRETORIA, 0122 - *Ishmael Blessing*

235. Mashegwanyane Siphiwe Matlala - 900207 5588 *** - Stand No 10023, New Stands, GLEN COWIE, 1061 - *Makabulane Siphiwe*

236. Moses Shimo Seletisha - 860729 5574 *** - 23 Duet Street, Tasbet Park, Extension 2, WITBANK, 1034 - *Moses Shimo Kakate*

237. Henry James Brown - 920705 5083 *** - 120 Lavender Street, Lentegeur, MITCHELLS PLAIN, 7785 - *Nurudeen*

238. Francios Jacques Marais - 901018 5012 *** - 47 Jacaranda Street, BRACKENFELL, 7560 - *Francois Jacques*

239. Sagela Kleinbooi Mokwana - 860202 5525 *** - Skhila 3680, LYDENBURG, 1047 - *Sphola Kleinbooi*

240. Mandilakhe Okuhle Simon Mhlutywa - 990713 5071 *** - 21380 Ayeix Street, Wallacedene, KRAAIFONTEIN, 7570 - *Mandilakhe*

241. Kgothatso Motempane Tlaka - 921117 5614 *** - Riverside, JANE FURSE, 1085 - *Kgothatso Kgobisi*

242. Ushley Wandile Nyembe - 060511 5689 *** - 35 Jacaranda Avenue, DUNDEE, 3000 - *Ashley Parker Wandile*

243. Cabangani Mfungeni Mthethwa - 940116 5575 *** - Obizo Reserve, EMPANGENI, 3880 - *Thubelihle Cabangani*

244. Mkhonto Nicholas Nsibande - 630824 5989 *** - Imombeni Area, INGWAVUMA, 3968 - *Msizi Nicholas*

245. Yandisa Mtshokotsha - 970831 0779 *** - 26 Mangold Street, WESBANK, 7580 - *Yandisa Bridgette*

246. Nombuso Mathibe - 921124 0380 *** - House No 1943, Block 7, Soshanguve, PRETORIA, 0118 - *Paul*

247. Khosibakhe Ntokozo Sigwebela - 020929 6346 *** - Shobeni Location, Ward 32, IZINGOLWENI, 4260 - *Ntokozo*

248. Machaka Mavasa - 930525 0979 *** - 37 Relkiewn Street, Three Rivers, VEREENIGING, 1929 - *Machaka Elsa Hagiazo*

249. Hleziphi Nosipho Sharon Kheswa - 820131 0369 *** - Eshobeni Location, Ward 32, PADDOCK, 4240 - *Nosipho Sharon*

250. Cynthia Samukelisiwe Mhlongo - 881211 0583 *** - Bhobhoyi Location, Ward 23, PORT SHEPSTONE, 4240 - *Samukelisiwe*

251. Ndzalo Malwandla Ngwenya - 050923 1288 *** - 22 Mostert Avenue, Extension 16, WITBANK, 1034 - *Aliyah Ndzalo*

252. Soneni Florah Manana - 020323 1060 *** - Stand No 7155, Eciphonzni, PIET RETIEF, 2380 - *Lihle Florah*

253. Kiso Joyce Moncho - 040509 0731 *** - House No 0236, Manyeding Village, KURUMAN, 8460 - *Kitso Joyce*

254. Mthembeni Standley Mpofana - 790608 5625 *** - 29030 Nkazimlo Road, PINETOWN, 3610 - *Mthembeni Stanley*

255. Bayanda Qiniso Mthethwa - 050601 6520 *** - Mngangando , HLABISA, 3937 - *Bayanda Bhekezakhe Qiniso*

256. Martha Motlhabi - 020817 0187 *** - CH974, Khutsong, CARLETONVILLE, 2499 - *Martha Angel*

257. Angezwa Totoshile - 020323 0705 *** - Ncihana Area, ELLIOTDALE, 5070 - *Ongezwa*

258. Mavis Jika - 731117 0762 *** - Gotyibeni Area, TSOLO, 5170 - *Nikiwe Mavis*

259. Sello Molele - 880817 0873 *** - 91 Main Road, SALDANHA, 7395 - *Joy*

260. Philanathi Pangumso - 060905 1060 *** - Thabamoroela Village, Block B8 Flat G08, MOOINOOI, 0325 - *Philanathi Anele*

261. Thanelo Qumbisa - 041103 1283 *** - A272 Veniyeni Road, Ontokozweni, UMLAZI, 4066 - *Thandolwethu*

262. Makoma Motloutsi - 050709 0680 *** - 41 – 4th Avenue, Highlands North, JOHANNESBURG, 2092 - *Makoma Mpho*

263. Endrea Minnis - 660510 0238 *** - 47 Azalia Street, Protea Park, ATLANTIS, 7349 - *Enisa*

264. Mazizi Nkuna - 910110 1444 *** - 935 Kilimanjaro Street, MIDRAND, 1680 - *Mazizi Mambo*

265. Tselane Edna Mphatsoe - 720507 0269 *** - 51 Jacaranda Avenue, 53 Sonata Square, OLIVEDALE, 2188 - *Bila Tselane*

266. Tetelo Madibeng Monakedi - 050815 1118 *** - 10017 Kolokotela, GA MAMPANA, 0467 - *Tetelo*

267. Petronella Mokgaetjie Makhafola - 960424 1067 *** - 38 Sangiro, VANDERBIJLPARK, 1901 - *Mokgaetjie Koketso*

268. Marriam Mamogakabe Sithole - 911125 0506 *** - 3187 Tiende Street, Khuma, STILFONTEIN, 2562 - *Marriam Baby*

269. Mathabo Alice Radebe - 820526 0428 *** - 40-2 Ruth Mampati Street, Small Farm, VEREENIGING, 1984 - *Nompumelelo Grace*

270. Madibolo Mavis Maripane - 871016 0657 *** - Ga-Majfiegoana, SEKHUKHUNE, 1085 - *Madibolo Lebo*

271. Fikile Ester Zwane - 040319 1116 *** - 3199/04 Msholozi Park, VOLKUSRUST, 2470 - *Fikile Esamisipho*

272. Bongi Angel Kgabo - 041224 1437 *** - House No 14640, Extension 8, ORANGE FARM, 1841 - *Reamohetse Angel*

273. Dieketseng Keamohetswe Tshabalala - 061021 0685 *** - 394 Mtshali Street, Khuma, STILFONTEIN, 2551 - *Keamohetswe Dieketseng*

274. Mukona Mary Mudau - 060927 0251 *** - 144466 PTN 181, Protea Glen, Extension 12, SOWETO, 1819 - *Mukonazwothe Rosemary*

275. Gloria Unathi Monedi - 031229 0820 *** - 15651 Table Mountain Street, Extension 12, KAGISO, 1754 - *Unathi*

276. Beanco Thetlwane Mashifane - 060721 0790 *** - Mokgapaneng, NEBO, 1059 - *Bianca Thetlwane*

277. Ramadimetje Letjobana Seete - 920505 0909 *** - 96 Mohlabane Street, SAULSVILLE, 0125 - *Ramatsimele Letjobana*

278. Tumelo Lebo Sehona - 060704 1143 *** - Ga Maponto, BOCHUM, 0790 - *Matome Lebo*

279. Alyssa Cornelia Cloete - 900329 0241 *** - 1270 Wesso Street, BELLVILLE SOUTH, 7530 - *Alicia Cornelia*

280. Mmakgarebe Thembi Sello - 870828 0933 *** - Ga-Mashabela, SEKHUKHUNE, 1064 - *Mampše Thembi*

281. Maite Felicity Maboya - 060413 0120 *** - 624 Winnie Mandela Street, Zone 12, TEMBISA, 1632 - *Botshelo*

282. Chukwuemeka Enyeazu - 050826 5188 *** - 13 Patryis Avenue, KEMPTON PARK WEST, 1619 - *Chukwuemeka Lukhanyo Ngcebo*

283. Mbalentle Jika - 040811 5523 *** - Ndengani Location, BIZANA, 4800 - *Masizole*

284. Kwesa Mathebula - 050922 6709 *** - 985 Tswelopele Street, Winnie Mandela, TEMBISA, 1632 - *Thokozani Wonderful*

285. Ntlakhla Sindi - 041003 5353 *** - Willowvale, Ntlahlane Location, MAHASANE, 5040 - *Ntlahla*

286. Ephraim Madonci - 900427 5461 *** - KP004 Belhar Estate , Carman End, CAPE TOWN, 7784 - *Lungelo Ephraim*

287. Johannes Mphikelelieddie Zwane - 860916 6361 *** - House No 2555, Section D, EKANGALA, 1024 - *Mphikeleli Johannes Eddie*

288. Maswareng Success Mailola - 921017 5667 *** - Ga Mohlala, Mamone, SEKWATI, 1063 - *Dithopi Maswareng Success*

289. Jack Mokope Ramaila - 860621 5570 *** - Mahubetswane, MASEMOLA, 1060 - *Molane Kgomotso*

290. Samuel Thulane Motene - 890918 6056 *** - Ga Masha, NGUAABE, 1058 - *Thulani Ngwaketse*

291. Bulelani Abednego Mazule - 790807 5794 *** - C 22 Selane Street, Dukathole, GERMISTON, 1401 - *Bulelani*

292. Makungu Light Mathebula - 970115 5391 *** - 12 Forest Street, Turffontein, JOHANNESBURG, 2190 - *Makungu*

293. Bongumusa Heavy-Stone Hlatshwayo - 040926 5734 *** - Kwa Mdokwana Area, PONGOLA, 3170 - *Bongumusa Lwandle*

294. Tshepo Cecil Mahange Ka Mzizi - 711006 5474 *** - 23 Linda Place, KIBLERPARK, 2091 - *Mnotho Mahlori Themba Cecil*

295. Mziwenhlahla Bhekinkosi Mpanza - 721207 5605 *** - Block 15D, Meadowlands, Zone 11, SOWETO, 1852 - *Mziwenhlanhla Mandlakayise*

296. Ntimo Given Makgalatiba - 930622 6093 *** - House No 10031, Phokwane, NEBO, 1059 - *Thokgoane Simon*

297. Pookgoadi Hernaus Kebaabetswe Maredi - 000412 5415 *** - 1391 Phiri Street, MAMELODI, 0122 - *Kebaabetswe Pookgoadi Hernaus*

298. Herow Ntando Nzunza Mahlangu - 060725 5509 *** - 30 – 9th Avenue, Phosa Village, ERMELO, 2330 - *Hero Ntando Nzunza*

299. Victor Mogalatjane Sethole - 910313 5303 *** - 23 Boekenhout Street, General Albertspark, ALBERTON, 1449 - *Katleho Victor*

300. Kgothatso Sefako Mnisi - 060901 6422 *** - Stand No B371, MONSTERLUS, 1047 - *Kgothatso Loctrin Scott*

301. Junior Mosenyana Madihlaba - 060527 6084 *** - MA 1029, TAFELKOP, 0474 - *Junior Frans Magabole*

302. Mnusi Harry Buys - 670822 5633 *** - 9149 Mbalo Drive, Extension 3, DOBSONVILLE, 1863 - *Mmusi Harry*

303. Mxhekele Ben Mhlongo - 501217 5611 *** - 2431 B1, New Eesterus, HAMMANSKRAAL, 0400 - *Bhejani Ben*

304. Ditau Peter Monageng - 040114 5500 *** - 887A Stadium View, TAFELKOP, 0474 - *Thlokego Ditau Peter*

305. Maletete Damane - 910629 1110 *** - 5919 Thathazano Street, Extension 22, OLIEVEN, 0001 - *Diana Maletete*

306. Nabantu Ngophe - 910801 1089 *** - 30 Tungsten Road, Saaiplaas, VIRGINIA, 9430 - *Nobantu*

307. Tsepile Masheula - 910709 0972 *** - Mavhunqa, DZANANI, 0955 - *Tsepile Therecia*

308. Sibangakonke Nyawose - 061203 1040 *** - Amandawe Mission, SCOTTBURGH, 4180 - *Sibongakonke Nkanyezi*

309. Celloise Fourie - 000701 0114 *** - 4 Owl Street, Birchleigh, KEMPTON PARK, 1618 - *Cellouise*

310. Granny Shalang - 971007 1161 *** - 03 Olienhout Street, Zonderwater, CULLINAN, 1000 - *Granny Lebo Pebetse*

311. Balindile Mdlaka - 030626 0848 *** - EG Vet 238 Main Street, KOKSTAD, 4700 - *Ivy*

312. Yondela Jayiya - 051026 0622 *** - Mathwebu Location, BIZANA, 4800 - *Renee*

313. Andisiwe Mtengwane - 910219 0659 *** - Own Haven, 722 Belgravia Crescent, EAST LONDON, 5201 - *Andisiwe Naledi*

314. Khululiwe Vilakazi - 010825 0829 *** - 2712 Nomqgokwana Street, MLUNGISI, 6000 - *Enhle*

315. Malebo Masemola - 060116 1357 *** - Unit 42, Grysbok Street, Tasbetpark , WITBANK, 1040 - *Baakedi Malebo*

316. Kaylin Fisher - 970626 0254 *** - 1 Brigantine Place, EERSTERIVER, 7100 - *Kauthar*

317. Anelisiwe Mdlalose - 010716 0915 *** - Mvvzini, EMONDLO, 3105 - *Anele*

318. Nomasondo Cindi - 060416 0536 *** - House No T5, Ruimsig, ROODEPOORT, 1747 - *Sonto Dimpho*

319. Yolanda Ntuli - 060923 0269 *** - Mafakatini, PIETERMARITZURG, 3201 - *Celiwe Yolanda*

320. Ayanda Mmola - 000701 1331 *** - Ga-Phasha, DRIEKOP, 0737 - *Ayanda Selina*

321. Marelize Jacobs - 010712 0417 *** - 280 Flora Road, Unit 102, DANABAY, 6510 - *Elia*

322. Lesego Rankua - 990825 0470 *** - 2172 Unit 5, South, MOGWASE, 0314 - *Lesego Innocentia Tshenolo*

323. Tshepang Malefane - 001227 0572 *** - 12 Upper Uesbeeck Road, ROSEBANK, 7700 - *Tshepang Jessica*

324. Athethiwe Sontlaka - 051115 1328 *** - Mvenyane Area, Mvenyane Location, NTABANKULU, 5130 - *Athenjiwe*

325. Kekolo Ngwenya - 970521 0729 *** - Thokgoaneng, CHUENESPOORT, 0745 - *Kekolo Shantelle*

326. Samukelisiwe Mthembu - 880317 0694 *** - Mzingwenya Area, ESIKHAWINI, 3887 - *Samukelisiwe Fundisa Sibani*

327. Nolwani Dlamini - 040201 0416 *** - House No V 1146, V Section, UMLAZI, 4066 - *Nolwazi*

328. Bulelwa Mpumlwana - 060228 0038 *** - 568 Tsetsebi Street, NEW CANADA, 1804 - *Lindokuhle Bulelwa*

329. Keseri Padayachy - 810826 0111 *** - 3 Eagle Road, MALVERN, 4095 - *Keseri Himeya*

330. Chrisanda Grey - 801118 0087 *** - 17 Chepstowe Road, Tigserhof, MILNERTON, 7441 - *Cassy Frost*

331. Kedibone Williams - 030521 1348 *** - 4015 Sonderwater, Ikhutseng, WARRENTON, 8530 - *Koketso*

332. Pinky Nonzwakazi Nkaqa - 000522 0600 *** - Nikhwe Location, BIZANA, 4800 - *Pinky Amahle*

333. Tasha Josephine Trishaan Loggenberg - 971128 0049 *** - 16 Zanzibar Street, Tafelsig, MITCHELLS PLAIN, 7785 - *Thaakirah*

334. Nolubabalo Sarah Moloi - 950727 0908 *** - 9 Jobela Street, Ilitha Park, KHAYELITSHA, 7784 - *Lerato*

335. Murangi Marcia Khakhu - 040629 0526 *** - 33 General De Wet Street, Thabatshwane, TSHWANE, 0187 - *Tawana Hunadi Murangi*

336. Pulane Gladys Kopele - 050328 0548 *** - 50191 Madibogo Street, MAHIKENG, 2745 - *Pulane Tshwarelo*

337. Ignatia Nokubonga Mkhabela - 880228 0775 *** - Entoyeni, KWAMBONAMBI, 3915 - *Nokubonga Kuyenzeka*

338. Mmaleho Florah Letsoalo - 850104 0961 *** - Ga Mamabolo, Stand No 344, Tshoare, GA MAMABOLO, 0763 - *Mmakoma Kgotlelelo Lauretta*

339. Phindile Zandile Sokhulu - 980918 1261 *** - 1255 Namnam Road, AMANZIMTOTI, 4126 - *Phindile Pinky Zandile*

340. Jabulile Precious Masondo - 900504 1254 *** - House No 704, Extension 6, BARBERTON, 1300 - *Innate Precious*

341. Ramatsemele Jenivah Matlala - 860316 1192 *** - Stand D2223, MAMONE, 1063 - *Motswashele Jenivah*

342. Tshwelepele Modiba - 060717 1131 *** - Mathibela, ZEBEDELA, 0632 - *Tswelopele Morongwa*

343. Goikitsemang Magdeline Makape - 791207 0197 *** - T1882 Tswelelopele, Magojaneng, KURUMAN, 8460 - *Keitumetse Goikitsemang Magdeline*

344. Sibabalwe Gloria Noza Mxokozeli - 900208 1211 *** - Tora Area, NGCOBO, 5050 - *Sibabalwe*

345. Reabetsoe Dorothy Lekena - 950702 0852 *** - 27 Beacon Avenue, Linbro Park, SANDTON, 2090 - *Reabetsoe Candice*

346. Tiffany Maria Piers - 940202 0248 *** - 12 Savora Street, Voorbrug , DELFT, 7100 - *Tiffany Marian*

347. Nthabiseng Benedicta Tsoai - 911116 0233 *** - 1121 Masilo, THEUNISSEN, 9410 - *Kediinametse Nthabiseng Benedicta*

348. Philisiwe Prudence Chiloane - 890828 0445 *** - Stand No 7628, DAANTJIE, 1216 - *Philisiwe Keturah Maureen*

349. Mamoloi Esther Molele - 910107 1011 *** - House No 2306, Extension 1, ORANGE FARM, 1841 - *Bontle Esther*

350. Tabataba Naum Monare - 030819 0512 *** - 10 Maluti Road, RANDFONTEIN, 1759 - *Tabataba Naomi*

351. Sinethemba Joyce Mafika - 000717 0408 *** - 13 Swire Court, Leiden , DELFT, 7100 - *Sinethemba*

352. Thimna Aqhama Mbanjana - 040818 0146 *** - 55 Milkwood Drive, Umlele Heights, Kids Beach, EAST LONDON, 5099 - *Uthimna Aqhama*

353. Ntombekhaya Sylvia Doli - 030402 0379 *** - 88 Ntimba Street, Nu 11, MOTHERWELL, 6211 - *Sanelisiwe*

354. Karabelo Irene Tekela - 920415 0833 *** - 71 Namahadi Village, WITSIESHOEK, 9866 - *Karabelo Irene Oarabile*

355. Betty Perseverance Selai - 000920 0627 *** - House No 11528, Zone 5, THABA NCHU, 9780 - *Naledi Perseverance Betty*

356. Nita Prema Parshotam - 671115 0107 *** - 30 Sunbird Avenue, Extension 1, LENASIA, 1827 - *Nusayba*

357. Menroonisha Amod Abubakar - 660404 0137 *** - Flat 1003, Exeter Hall, 24 Sol Harris Crescent, DURBAN, 4001 - *Mehroonisha Amod*

358. Marilyn Gail Erasmu - 680520 02772 *** - 35 Eland Avenue, Lotus River, CAPE TOWN, 7941 - *Malika*

359. Zizipho Mihlali Ndana - 991107 0080 *** - 04 Ndyondy Street, Makhaza, KHAYELITSHA, 7784 - *Mihlali Zizipho*

360. Biaca Brithest Swarts - 991114 0154 *** - Nona Farm, DE WET, 6853 - *Bianca*

361. Margaret Lerato Litta Maisela - 010721 0516 *** - 1422 New Stand, KLIPGAT, 0202 - *Liyana Lerato*

362. Zanele Grace Matumba - 710417 0490 *** - 39 King Edward Road, Lombardy East, JOHANNESBURG, 2090 - *Graceupongrace*

363. Ciara Louise Rattue - 001018 0341 *** - 3 Goldbourne Road, Kennilworth, CAPE TOWN, 7708 - *Viva John Philippe*

364. Dinyiko Tryphina Motsoane - 761215 0541 *** - 8757A Lesolang Street, Orlando West, SOWETO, 1804 - *Dineo Dinyko*

365. Lerre Maruping - 060102 5437 *** - House No 10197, Kgomola Section, BODIBE, 2741 - *Lere Ruben*

366. Aron Makama - 030703 6181 *** - Moletjie, LONSDALE, 0710 - *Aaron Tlou*

367. Reatlegile Phasha - 060725 5413 *** - Ga Manyaka, DRIEKOP, 1129 - *Reatlegile Raphasha*

368. Jealous Sekgololo - 041104 6269 *** - 10075 Strydkraal, APEL, 0739 - *Thipane Katlego*

369. Yamkelani Towa - 061020 5296 *** - 1627 Eastern Boulevard Street, MANDELA VIEW, 9301 - *Yamkelani Ayanda*

370. Zamile Bisolo - 020125 5650 *** - 109 Sport Street, MOUNT AYLIFF, 4700 - *Philani*

371. Rapula Mafora - 041128 5372 *** - House No 6102, RAMOCHANA, 0300 - *Rapula Lindokuhle*

372. Tobile Gowa - 780525 5624 *** - 47 Saunders Road, Morningside, EAST LONDON, 5201 - *Thobile Victor*

373. Oldrin Debeila - 960828 5843 *** - Ga-Nchabeleng, LEFALANE, 0741 - *Mahlabane Oldrin*

374. Mphumuzi Ngcamu - 970621 5655 *** - Osabeni Area, MAPHUMULO, 4470 - *Mphumuzi Cebo*

375. Alvon Rhoode - 050702 5262 *** - 17A Ventura Street, FACTRETON, 7405 - *Rameez*

376. Njabulo Mdhlalose - 021221 5092 *** - 151 Southrand Road, Lambton, GERMISTON, 1401 - *Na'yika Njabulo*

377. Isaiah Titus - 650624 5115 *** - 23 Botterblom Street, Bos En Dal, GEORGE, 6529 - *Christopher Isaiah*

378. Olwethu Potologang - 060825 5418 *** - 1537 Swallow Crescent, Ebony Park, MIDRAND, 1685 - *Olwethu Siyabonga*

379. Godfrey Fanqa - 961017 6128 *** - 9138 Peterswarts, Phase 3, Mangaung, BLOEMFONTEIN, 9300 - *Lihle Goodness*

380. Amahle Mthembu - 060405 5065 *** - House No C 82, INANDA, 4310 - *Bahle*

381. Bhoyi Temeki - 970606 6510 *** - Informal Settlement, LIDGETTON, 3270 - *Bhoyi Samkelo*

382. Shane Davids - 980506 5213 *** - Unit 32 Avenue Du, Midi No 21, PLUMSTEAD, 7800 - *Moegamat Saleh*

383. Mohlophehi Simon Ramafikeng - 820216 5364 *** - House No 12878, Extension 7A, ORANGE FARM, 1841 - *Tshepo Simon*

384. Leonardo Reedt Chad Jacobs - 991025 5117 *** - 83 Dolomites Street, Tafelsig, MITCHELLS PLAIN, 7785 - *Junaid*

385. Alexandre Georges Wessel Ingram - 050105 5277 *** - 1 Oleander Avenue, MORNINGSIDE, 2191 - *Alexandre Georges Wessel Jacobus*

386. Abia Donald Sibuyi - 781025 5497 *** - Flat 4 Church Street, PRIESKA, 8940 - *Dlamini Donald*

387. Tireeque Tiago Herman - 041125 5055 *** - 27 Kilomanjaro Street, MITCHELLS PLAIN, 7785 - *Rafeeq*

388. Mahlodi Rebecca Mogaila - 990629 6339 *** - 545 Mokgokong Street, MOLETJIE, 0742 - *Mahlodi Abel*

389. Alcinio Geowanne Cornelissen - 990503 5122 *** - 9 Rhone Street, PAARL, 7641 - *Aqeel*

390. Pinkie Lash Khumalo - 640123 5759 *** - U 53 Bula Street, Site B, KHAYELITSHA, 7784 - *Xolani Lash*

391. Katlego Lenkwane Manku - 060330 6222 *** - Malagane, GA SELOANE, 0737 - *Katlego Mamohlakeng*

392. Dipoelo Crucial Shogole - 061227 6387 *** - House No D012076, Zone E, LEBOWAKGOMO, 0737 - *Dipoelo Seete*

393. Thabo Shaun Mphahlele - 040414 5746 *** - Tooseng, GA MPHAHLELE, 0736 - *Kganki Shaun*

394. Ditaba Abraham Mahlatsi - 050909 5150 *** - 471 Wessel Street, VANSTADENSRUS, 9950 - *Kabelo Abraham*

395. Aphiwe Asiphile Buthelezi - 040406 5487 *** - 12 Laager Lani, Model Kloof, LADYSMITH, 3370 - *Minenhle Asiphile*

396. Morgen Shaniseka Mabasa - 710622 5717 *** - Shirly, ELIM, 0960 - *Morgen Shaun*

397. Thabo Benjamin Shai - 810408 5655 *** - 95 Tulip Garden, Yorna Valley, MIDRAND, 1686 - *Thabo*

398. Letlhogile Abel Morokweng - 060726 6042 *** - House No 06130, Morokwa Section, KRAAIPAN, 2747 - *Letlhogile Anele*

399. Trinity Senzeni Mathabe - 970918 5491 *** - Stand No 480, Shabalala Trust, HAZYVIEW, 1242 - *Trinity Samkelo*

400. Xhanti Matatela Nabi - 950715 5421 *** - 483 Justice Mahomed , Muckleneuk, PRETORIA, 0002 - *Xhanti Matthew*

401. Roelof Deon De Lange - 950422 5024 *** - 87 Athol Crescent, SOMERSET WEST, 7130 - *Roy Roelof Deon*

402. Nkululeko Dennis Dlamini - 811022 5853 *** - 188 Manqindi Road, CATORIDGE, 3680 - *Nkululeko*

403. Nico Brandon Magwala - 040528 5352 *** - 57 Thompson Street, ELLIOT, 5460 - *Brandon*

404. Mmatheko Chepiso Masekela - 040514 5201 *** - RDP Stinkwater, HAMMANSKRAAL, 0400 - *Tshepiso Mmatheko*

405. Mzila Elvis Nkosingiphile Nene - 800720 5259 *** - 30911 Phikelela Street, KLAARWATER, 3610 - *Elvis Nkosingiphile*

406. Marthinus Christoffel Lamprecht - 060602 5136 *** - 19 Davis Drive, Selection Park, SPRINGS, 1559 - *Tiaan*

407. Windvoel Jabu Sibanyoni - 690615 5722 *** - 417 Mamarkletmarten, 367 Justice Mahomad Street, PRETORIA, 0002 - *Jabulani*

408. Kosisochukwu Franklin Nwadi - 060409 6220 *** - 31 Hoop Street, BLOEMHOF, 2660 - *Franklin Francois*

409. Ethen Ernest Mkhabela - 040124 5389 *** - AB 061 Hoyi Street, KOMATIPOORT, 1340 - *Moses Ernest*

410. Stephen Maphoto Leopeng - 720905 5639 *** - 39 Joe Slovo Street, CHUERWACHT, 0557 - *Stephen Motlogelwa*

411. Mosokothwana Herry Kese - 000808 5982 *** - Shaleng Section, BODZBE, 2740 - *Omphemetse Herry*

412. Matheogela Theo John Moloto - 960619 5876 *** - Stand No 210, Ga Makibelo, MOLETJIE, 0753 - *Matheogela Chuene Johannes*

413. Sphiwe Poto - 060402 0751 *** - Stand No 508, PHAKE, 0432 - *Simphiwe Tyla*

414. Eunice Dlamini - 020308 1230 *** - Stand No B5, Barvale, ELANDSHOEK, 1202 - *Eunice Zinhle*

415. Eshandhree Govender - 890908 0250 *** - 70 Dickie Fritz Avenue, EDENVALE, 2061 - *Nishi Eshandree*

416. Amahla Komsana - 050613 0609 *** - 21 Nyoka Location, KING WILLIAMS TOWN, 5600 - *Amahle*

417. Anna Joseph - 490127 0142 *** - 10 Vyfde Straat, Rusthof, STRAND, 7140 - *Annamarie*

418. Promise Malatjie - 980103 1154 *** - Stand No 67, Shabalala Trust, HAZYVIEW, 1242 - *Promise Kayla*

419. Maria Monyela - 060902 1112 *** - Stand No C0178, Koedoespoort Village, MMAMETLHAKE, 0432 - *Boipelo Maria*

420. Dorothy Zimkhitha Lamfiti-Sikrweqe - 911123 0845 *** - 29164 Sobukhwe Street, Wallacedene, KRAAIFONTEIN, 7570 - *Alupheli Zimkhitha*

421. Martha Masikazana Msimanga - 030813 0116 *** - 6104 Xhamu Street, Mayvield, Extension 7, DAVEYTON, 1513 - *Nelisiwe Masikazana*

422. Lauren Elizabeth Brückner - 920305 0332 *** - 14 Old Mutual Drive, Stellenberg, DURBANVILLE, 7550 - *Lauren Elizabeth*

423. Hluphekile Jemina Tshabalala - 860406 0243 *** - 1811 Saint Joseph Street, LEHAE, 1829 - *Jeminah*

424. Bongekile Mateaza Mncwabe - 860330 0382 *** - 200 Daterlane Street 05, 05 Komati Village, BLANKPAN, 2250 - *Joseph Mary Water*

425. Macy Mathoko Nkadimeng - 960523 0180 *** - 20513 Mabogwane Street, DAVEYTON, 1520 - *Macy Matheko Mathapelo*

426. Haley Lu-Schencka Tazzlyn Bloem - 051016 0465 *** - 10 Seconey Street, Egoli Township, EAST LONDON, 5201 - *Hayley Lu-Schencka Tazzlyn*

427. Snenhlanhla Fortunate Ximba - 960916 0560 *** - 90570 Eziqalabeni, Matimatolo Area, GREYTOWN, 3250 - *Snenhlanhla Minenhle*

428. Phinoile Elizabeth Xulu - 870525 0351 *** - East Area, VRYHEID, 3100 - *Phindile Anele*

429. Kokololo Johannah Mokgoatsane - 791201 0576 *** - Stand No MA – 900, Tafelkop, GA MATSEPE, 0470 - *Manage Johannah*

430. Nelisiwe Caroline Bobani - 960221 0314 *** - 5381 Witbooi Street, SEDGEFIELD, 6573 - *Nelisiwe*

431. Lyneth Kedibone Sekoto - 891216 0887 *** - Stand No 19, Pulaneng Village, TZANEEN, 0850 - *Lyneth Lesedi*

432. Jasinta Aroon Kara - 941012 0273 *** - 1111 Kikvuv Apartments, Maxwell Drive, WATERFALL, 2066 - *Jasinta*

433. Matlala Pat Chewe - 040925 0510 *** - Mzilela Village, GIYANI, 0828 - *Mashudu Pat*

434. Jade Ronel Kruger - 931112 0310 *** - 14 Groot Crescent, Leiden, DELFT, 7100 - *Jehaan*

435. Silbarose Mpho Ramphele - 760912 0650 *** - 2558 Valley View Estate, Kosmosdal, CENTURION, 0157 - *Mpho Silbarose*

436. Jade Dramat - 060701 5363 *** - 8 Rita Street, BOTRIVIER, 7185 - *Jayden*

437. Thabang Khoza - 060924 6290 *** - Stand No 3140, MSHOLOZI, 1240 - *Thabang Tshepo*

438. Onika Geza - 040713 5295 *** - 34 Kerk Street, Heuwilkruin, DESPATCH, 6000 - *Onika Ulibo*

439. Graham Enrico Galant - 830602 5138 *** - 34 Bedowen Court, DELFT SOUTH, 7100 - *Moegamatabdusamat*

440. Jannie Booysen - 561117 5147 *** - 21 Crater Street, Salberau, ELSIESRIVER, 7000 - *Janusz*

441. Asivile Vincent Mawisa - 061020 6401 *** - 23463 Hlongwane Street, MFULENI, 7100 - *Asivile*

442. Junior Thulani Kagisho Mosalaesi - 020527 5572 *** - House No 2149, HOLPAN, 8505 - *Junior Brayton Kagisho*

443. Austin-Junior Eshwin Alexander - 040328 5190 *** - 155 Malmesburry Road, CHATSWORTH, 7354 - *Khayelihle-Eshwin*

444. Kgalalelo Manqoba Modise - 050727 5233 *** - 21756/20 Kgogobadimo Street, Extension 6, BOKSBURG, 1475 - *Kgalalelo*

445. Dzunani Vutomi Nyathi - 060927 6335 *** - 31 Impala Street, WHITE RIVER, 1240 - *Vutomi Jnr*

446. Philasande Zamani Thethwayo - 060808 6108 *** - Nkundusi Reserve, Enseleni , EMPANGENI, 3880 - *Philasande Zumane*

447. Thando Mandisa Nxumalo - 061105 5332 *** - 148 Mosilabele Street, Extension 5, VOSLOORUS, 1475 - *Thando*

448. Mahlatse Makgale Mangakeng - 020722 5598 *** - Botlokwa , SPRINGS, 1924 - *Shepherd Mahlatse*

449. Mihir Mayur Narrandes - 030827 5163 *** - 2 Heatherbank Road, Featherton Estate, PORT ELIZABETH, 6070 - *Mahir*

450. Kubu Barend Mosia - 800906 5778 *** - 372 Leribe, WITSIESHOEK, 9870 - *Khulu Barend*

451. Matsobane Frans Chuene - 770102 6462 *** - Mamaolo, MPHAHELE, 0736 - *Kadi Isaac*

452. Bongiwe Ngxe - 901214 0308 *** - 7724 Khayelitsha, DIMBAZA, 5671 - *Bongiwe Sibulele*

453. Maria Molwantoa - 010330 1201 *** - Stand No E1864, LEFISO, 0431 - *Bianca Maria*

454. Eunice Mahlangu - 671110 0529 *** - 7045 Lebotse Street, MAMELODI WEST, 0122 - *Thembi Eunice*

455. Tlotlang Joy Noosi - 020805 0065 *** - 497 Mississippi Street, Faerie Glen, PRETORIA, 0081 - *Amelia Tlotlang Joy*

456. Sweetness Vinjiwe Ntakana - 660708 0891 *** - Ny 52 – 1, GUGULETHU, 7750 - *Sweetness Khungeka*

457. Mooki Rachel Machaole - 801229 0278 *** - Selcsesha, DIMOKAMA, 2868 - *Gomolemo Rachel*

458. Gift Chauke - 990708 6175 *** - Homu 14C, GIYANI, 0826 - *Musa*

459. Vincenzo Ross Ennid Fortini - 981031 5122 *** - 32 Zeeland Crescent, TABLEVIEW, 7441 - *Vincenzo Ross Ennio*

460. Tefo Nhlamole Segoneco - 051114 5429 *** - Block TT, Soshanguve South, PRETORIA, 0152 - *Tefo Nhlamulo*

461. Simon Mandaba Mdhluli - 060228 6182 *** - Stand No 1741 , Thembalethu, KWAMHLANGA, 1022 - *Siyabonga Simon*

462. Reuben Timothy De Wit - 040402 5394 *** - 9 Piet Retief Street, TULBAGH, 6820 - *Reuben*

463. Nombini Qateni - 830725 0759 *** - Jambeni, LUSIKISIKI, 4820 - *Ayathola Nombini*

464. Phetolo Refilwe Malealole Digoro - 000312 0184 *** - 4 Snyman Street, WESTONARA, 1779 - *Phetolo Refilwe*

465. Buziwe Victoria Nolawu - 820430 0550 *** - House No 409, G Section, NEEDS CAMP, 5200 - *Buziwa*

466. Sadiyah Sallie - 050521 0190 *** - 4 Van Wyk Street, Westering, GQEBERHA, 6025 - *Saadiyah*

467. Xolani Jasoni - 030508 0515 *** - House No E 8299, Zone 2, THABA-NCHU, 9780 - *Andiswa Mbalienhle Xolani*

468. Nontobeka Noluthando Tshabalala - 051014 0429 *** - House No 531, Obed Nkosi, RATANDA, 1441 - *Nontobeko Noluthando*

469. Semakaleng Kamogelo Suprise Fatana - 021111 1280 *** - 13112 Mokwane Street, Mamelodi East, PRETORIA, 0122 - *Kamogelo*

470. Princess Sethato Manyabeane - 060718 0117 *** - House No 2726, Section D, EKANGALA, 1021 - *Sethato*

471. Mpho Gift Modisane - 050207 1336 *** - House No 4329, Moroka Location, THABA-NCHU, 9780 - *Mpho Makeiso*

472. Amanda Nombulelwa Ntombela - 050707 0260 *** - 34 Ockers & Quartz , Sunnyhoek, HILLBROW, 2001 - *Amanda Thandolethu*

473. Smilo Conco - 060602 6312 *** - Shayamoya Reserve, Kwamthethwa, EMPANGENI, 3880 - *Smilo Mlando*

474. Dikome Kemishetso Senamela - 040521 5538 *** - 34 Mosibithla Street, Extension 17, ATTERIDGEVILLE, 0008 - *Lekgatholane Kemishetso*

475. Mofenyi Tumelo Aubrey Morudu - 050803 5150 *** - 68 Dave Herman Street, AKASIA, 0118 - *Mofenyi Tumelo*

476. Kelvin Pompi Madimetsa Mathibeng - 020804 5220 *** - 1207 Hospital View, Mahwelereng, MOKOPANE, 0626 - *Kelvin Lesiba*

477. Sesona Alvandre Ntamo - 040804 5643 *** - 37330 Phase 1, Scenery Park, EAST LONDON, 5201 - *Sesona*

478. Sherpered Mpumelelo Mnyamana - 040604 5238 *** - Mantlaneni Area, LUSIKISIKI, 4820 - *Luyolo Mpumelelo*

479. Shadrack Paseka Ntebe - 890425 5324 *** - 1013 Moduoawe Street, Mandela View, BLOEMFONTEIN, 9301 - *Paseka Shadrack*

480. Raymond Chandré Jenner - 970910 5092 *** - 13 Selati Crescent, KLEINVLEI, 7100 - *Raymond Zach*

481. Tailynn Jacque Goba - 060926 5365 *** - 18 Bird Place, Montclair, DURBAN, 4004 - *Tylin Jacques*

482. Thembeka Precious Nxumalo - 800203 6526 *** - House No D28, Ubombo Area, KWAMASHU, 4359 - *Maswazi Thembeka Mbusi*

483. Tsakane Priscilla Nkwashu - 910109 6401 *** - 03 Stephanus Road, Glen Marais, KEMPTON PARK, 1619 - *Tsakane Tinyiko Prince*

484. Alfred Prince Thabang Mnisi - 050907 5820 *** - 198 New Stand, Onverwacht, CULLINAN, 1000 - *Thabang Prince*

485. Daniel “DJ” Justin Appalsami - 060213 5094 *** - 27 Kanna Street, Northmead , Extension 4, BENONI, 1501 - *Daniel DJ Justin*

486. Gilbert Kelushi Maroga - 000731 5565 *** - Ga-Moloi, GLEN COWIE, 1061 - *Tagishi Gilbert*

487. Lerato Kgakishi Malepe - 040825 5736 *** - 82 Olienhout Group 5, THABAZIMBI, 0380 - *Lerato Mafeme*

488. Hlengile Innocentia Masasane - 050403 0847 *** - House No 6671, Section S, MAMELODI WEST, 0122 - *Hlengiwe Innocentia*

489. Romone Vuyo Ruiters - 010704 5268 *** - 6040 Cryolite Street, Extension 8, ENNERDALE, 1830 - *Ramon Vuyo*

490. Qeen Again Mkuna - 060730 0495 *** - PV6929 Vergenoeg, ATTERIDGEVILLE, 0008 - *Queen Abgain*

491. Resego Shallcross Basiile - 010607 0775 *** - 10099 Cokonyane, TAUNG, 8580 - *Resego*

492. Nkosinathi Rebecca Sithole - 960106 0616 *** - 1222 Zwelithini, Payneville, SPRINGS, 1559 - *Unathi Rebecca*

493. Donald Khosa - 840415 5550 *** - Block E6B, Saulsville Village, PRETORIA, 0125 - *Wisani Donald*

494. Ntwampe Gidion Nethononda - 740511 5301 *** - 224 Royal Palace, Mapaneng Section, POLOKWANE, 0700 - *Kgoxikgolo Ntwampe*

495. Siyamthanda Petrick Gentleman - 060712 5672 *** - Tsembeyi Village, LADY FRERE, 5410 - *Siyamthanda*

496. Parag Dhiroo Parag - 040928 0131 *** - 748 Matrys Street, KLOOFENDAL, 1709 - *Diya*

497. Muofhe Mphaphuli - 030613 0666 *** - 11578 Harry Gwala Street, Ikageng, POTCHEFSTROOM, 2531 - *Muofhe Naledi*

498. Marita Tyatyani - 661028 0210 *** - 34 Sir Walter Street, Avelon Park, KUILSRIVER, 7580 - *Maurita*

499. Refiloe Nonkululeko Radise - 960128 0185 *** - 552 Fly Catcher , Aspen Hills Nature Estate, ALBERTON, 2059 - *Nonkululeko*

500. Mabeta Annah Masoeu - 050120 0138 *** - 299 Thabana-Tshwana, WITSIESHOEK, 9870 - *Annah*

501. Mantja Patricia Nchabeng - 031012 1117 *** - 3722 Phomolamqashi , Bohlokong, BETHLEHEM, 9702 - *Onalerona Patricia*

502. Melissia Kherdeesha Terblanche - 060929 1322 *** - 1 Rhus Lancea, RICHARDS BAY, 3900 - *Mellisa Kherdeesha*

503. Masale Predence Maake - 061221 1211 *** - 507 Khoza Street, STANDERTON, 2430 - *Keamogetsi Prudence*

504. Nditsheni Arina Muzila - 931209 0677 *** - 195 Concrete Street, Klerksoord x 28, PRETORIA, 0182 - *Talitha*

505. Gabriel Mylee Johnson - 010313 1501 *** - 50 Jakkalsvlei Avenue, Bonteheuwel , CAPE TOWN, 7764 - *Gabriella Mylee*

506. Seeng Delina Tsoaeli - 970305 0617 *** - 8603 Snake Park, Zamdela, SASOLBURG, 1949 - *Gabriella Delina*

507. Favourite Z Khumalo - 860703 0739 *** - Qwayinduku Area, EMPANGENI, 3867 - *Favourite Zamantungwa*

508. Nonjabulo Portia Nadia Nkabinde - 920822 0096 *** - 53 Pitts Avenue, Sunnyridge, GERMISTON, 1401 - *Portia*

509. Cynthia Nomawethu Nyuka-Nkukwana - 721026 0491 *** - 25 Zebra Road, Colridge View, OUDTSHOORN, 6625 - *Nomawethu Cynthia*

510. Odinakchukwu Kama - 030104 5136 *** - 5981 Standard Road, Cato Crest, MAYVILLE, 4091 - *Xabiso Odinaka*

511. Wandile Zikalala - 000528 5095 *** - 838B Mthembu Street, Zola 3, SOWETO, 1818 - *Cebisa*

512. Mayanda Mfo - 900930 5537 *** - G73 Tra 5, Point 1, DELFT, 7100 - *Mayanda Lwando*

513. Birthwell Mohlala - 850424 5622 *** - 104 Mashiloane Street, THOKOZA, 1426 - *Molokoane Birthwell*

514. Tashriek Salie - 821010 5157 *** - 20 Heath Road, PARKWOOD, 7785 - *Tashreeq*

515. Masixole Marcus Rolobe - 890606 5327 *** - 1 Mqhayi Street, New Brighton, PORT ELIZABETH, 6200 - *Masixole Sean*

516. Oteng Kamogelo Maletswa - 060419 6024 *** - 40115 Mosiane View, MAHIKENG, 2745 - *Kamogelo Oteng Gabothuse*

517. Gift Mpho Selelepoo - 031016 6007 *** - Moroke, MOROKE, 1134 - *Gift Mpho Mankgane*

518. Akhona Malibongwe Ruth Malevu - 061215 5124 *** - Taylors Halt, PIETERMARITZBURG, 3201 - *Sandile Thabiso*

519. Lesiba Nathan Thabethe - 061023 6250 *** - 27 Hadley Street, Riviera, PRETORIA, 0084 - *Nathan Matthew*

520. Mohosi Macdonald Ramahoyo - 890111 5997 *** - 576B Kwenamoloto 1, Moletjie, POLOKWANE, 0742 - *Mahosi Macdonald*

521. Lwethu Nhleko Wandile Zwane - 050317 5473 *** - House No 2734, Blaaubosch, OSIZWENI, 2952 - *Wandile Nhlelozenkosi*

522. Andrew Lebiba Makopo - 870101 7615 *** - 415 Stompo, MDUTJANA, 2472 - *Andrew Lesiba*

523. Lastime Polelo Cossa - 020210 5500 *** - House No 242, Zone 20, GA-RANKUWA, 0208 - *Polelo Akani Lourenco*

524. Magezi Intelligence Chauke - 031023 5476 *** - Mdabula Village, MALAMULELE, 0980 - *Intelligence*

525. Precious Baloyi - 020827 1267 *** - House No 114, Zone 21, GA-RANKUWA, 0208 - *Precious Mikateko*

526. Rushaan Young - 660804 0583 *** - 18 Opal Road, Kabega Park, PORT ELIZABETH, 6025 - *Rukshaan*

527. Ignature Lutricia Sokatsha - 060328 1471 *** - 1 Wilcox Street, Monument Heights, KIMBERLEY, 8301 - *Lusanda Lutricia*

528. Christina Sebengwane Mabunda - 970512 0908 *** - House No 198, Block BB, SOSHANGUVE, 0182 - *Christinah Elizabeth Gabriella*

529. Digoke Julia Mthimunye - 820428 0386 *** - T 024 Extension 3, KWA-THEMA, 1575 - *Julia Khethiwe*

530. Kutlwano Nkanyane - 010326 5333 *** - 187 Iminwe Street, Glenway state, MAMELODI, 0122 - *Kemisetso*

531. Sanele Sokhela - 940624 6466 *** - Modamini Road, Village Location, PIETERMARITZBURG, 3200 - *Sabelo*

532. Makhwenkodwa Albert Mngcotana - 030527 5074 *** - A 535 A Tiger Street, Site C, KHAYELITSHA, 7784 - *Odwa*

533. Annah Rayi - 001219 1410 *** - House No 3003, Extension 06, T\GANE, 2606 - *Palesa*

534. Mirriam Jim - 771122 0894 *** - 2488 Bongweni Location, Ndevana, KING WILLIAMS TOWN, 5600 - *Vuyokazi Mirriam*

535. Andiswa Maseko - 001124 0205 *** - 30 Dinququ Street, Sali Section, KATLEHONG, 1431 - *Andiswa Luciana*

536. Nomusa Matshali - 041114 0090 *** - 7 Lambert Street, RUSTENBURG, 0299 - *Kelebogile Mmatele Nomusa*

537. Marionette Constance Arendse - 731004 0128 *** - 22 Marigold Street, Lentegeur, MITCHELLS PLAIN, 7785 - *Marion*

538. Nthabiseng Palesa Leah Kazzie - 940611 0149 *** - 12 Tolashe Street, Kwa-Thema, SPRINGS, 1575 - *Palesa Nthabiseng Leah*

539. Julio Smith - 021126 5136 *** - 15 Rus Road, Jan Hofmeyer, JOHANNESBURG, 2092 - *Conrad Rocky*

540. Evonr Laizer - 891207 5268 *** - 36 Jasmyn Street, Riebeek, KASTEEL, 7307 - *Envor*

541. Antonio Prince Carvalho - 861106 5279 *** - Stand No 1399, Hornbill Street, Hills View, WHITE RIVER, 1240 - *Antonio Prince Anthony*

542. Celukuphila Silence Mbonambi - 960709 6077 *** - Mission Area, NDWEDWE, 4342 - *Silence Celukuphila*

543. Kwadi Edward Mohapi - 710927 5504 *** - House No 18731, Zone 14, SEBOKENG, 1983 - *Kwadimoreneng Edward*

544. Patrick Zukisani Chiya - 830301 5687 *** - Kwa-Mabuza Farm, ERMELO, 2350 - *Siyabonga Patrick Zukisani*

545. Cassidy Louis Maarman - 051221 5937 *** - 62 Hennie Fortuin, RAVENSMEAD, 7493 - *Aden Cassy*

546. Lizeka Plingane - 001130 0852 *** - 279 Street 6, Rocklands Location, UITENHAGE, 6230 - *Lisakhanya*

547. Mampe Letsatsi - 050522 1322 *** - 09 Pitritief Hilton, SENEKAL, 9300 - *Beauty Thlolo*

548. Ragini Chetty - 690425 0101 *** - 343 Cardinal Road, Stone Bridge, PHOENIX, 4061 - *Rookaya*

549. Gloria Mado - 911025 0450 *** - 1 Plantation Road, AUCKLAND PARK, 2092 - *Mpho Gloria*

550. Lesego Maponyane - 011010 0426 *** - House No 970, Zone 2, MAHWELERENG, 0626 - *Lesego Moribula*

551. Mankomo Mtombo - 041027 0548 *** - House No 6436, Hlalani Location, GRAHAMSTWON, 6139 - *Makoma Kamvelihle*

552. Kaupeni Karistu - 900107 0279 *** - House No 5671, Extension 4, SOSHANGUVE SOUTH, 0152 - *Selestina Pawaopeni*

553. Nontuthuzelo Primrose Retyu - 830414 0868 *** - 212 Baduza Street, STERKSPRUIT, 9762 - *Nontuthuzelo*

554. Ntshengedzeni Suzan Motsepe - 580823 0243 *** - 2902 Louis & Umsila, Amandasig, PRETORIA, 0182 - *Seichiri Susan*

555. Sihle Gloria Nkomo - 040419 0971 *** - 8461 Vietnam Drive , Close 3, NYANGA, 7285 - *Sihle Alicia*

556. Rebotile Muzongamamphoto Sathekge - 810918 0676 *** - House No 8981, Extension 44, POLOKWANE, 0699 - *Mudzunga Mamphoto*

557. Moltjie Violet Lekoloane - 750810 1521 *** - 9 Mallat Street, New Park, KIMBERLEY, 8301 - *Kade*

558. Sinelizwi Lithakazi Vumenjani - 910813 0245 *** - 22 Mkwenkwe Street, GQEBERHA, 6001 - *Sinelizwi*

559. Elizabeth Anne Shabangu - 770309 0530 *** - 29212 Sealetsa Street, MAMELODI EAST, 0122 - *Lizanne Elizabeth*

560. Jeannett Loveness Dube - 900613 0617 *** - Unit 45 Greenlee Estate, Linbro Park, SANDTON, 2090 - *Thando Jeannette*

561. Kim Stormé Smith - 000820 0738 *** - 2 Garnet Crescent, MANENBERG, 7000 - *Ilhaam*

562. Amogelang Gift Maphalle - 070205 1277 *** - 1078 Malesa Mentz, GA MAMABOLO, 0727 - *Amogelang*

563. Zizipo Alulo Ntombela - 010110 1039 *** - 111 Siyakholwa, Mlamli Street, MTHATHA, 5099 - *Zizipo Alulo Afrika*

564. Mpho Welemina Ngwenya - 970707 0107 *** - 146 – 9th Avenue, ALEXANDRA, 2090 - *Mpho Mamorake*

565. Natasha Crystal Kara - 690531 0124 *** - 7 – 8th Avenue, Florida, ROODEPOORT, 1709 - *Tayyibah Natasha*

566. Pholoso Given Mahongwa - 040122 1101 *** - 650 Pretorius Street, Arcadia, PRETORIA, 0007 - *Pholoso Kefuoe*

567. Siphokazi Francina Thompson-Makapela - 870402 0438 *** - 66 Sunbird North, Sunbird Park, KUILSRIVER, 7580 - *Siphokazi*

568. Annete Theodorine Yolisa Siphambo-Mngxali - 760302 1050 *** - 5 Salvia Place, Vincent Heights, EAST LONDON, 5247 - *Yolisa Annete Theodorine*

569. Marriam Metja Ntladi - 020916 0198 *** - House No 927 , Block E, HANSKEKANA, 0400 - *Kate Ramadimetja*

570. Dadawele Zizi Mooi - 031030 0147 *** - 3 Sandpiper Crescent, Electric City, EERSTE RIVER, 7100 - *Thalitha Niola*

571. Dean Seinker - 690411 5247 *** - 220 Middleberg Street, MUCKLENEUCK, 0002 - *David*

572. Yuzeya Mulungo - 000208 5920 *** - K819 Stwetla Street, ALEXANDRA, 2090 - *Amos Yuzeya*

573. Yamkela Ashlir - 040410 5557 *** - House No 1299, Zone 2, EZIBELENI, 5326 - *Bashir*

574. Lilitaray Funani - 040712 5316 *** - 385 Thabo Mbeki Street, LANSERIA, 1739 - *Lilitha Ray*

575. Moshe Mokgothu - 930519 5858 *** - 1068 Magogoe Tar, MAHIKENG, 2745 - *Tebogo*

576. Petros Magendane Ngcobo - 700328 5867 *** - 179 Bombay Road, Northdale, PIETERMARITZBURG, 3201 - *Petros Madlokovu Magendane*

577. Justine Evane Enzo Phillipus - 020511 5226 *** - 72 Aandblom Street, Rietvale, RITCHIE, 8701 - *Justin Evan Enzo*

578. Mboyo Zolantima Van Wyk - 061216 5125 *** - 15 Milna Road, MAITLAND, 7441 - *Vuyo Jayson*

579. Gladwin Sekwati Matjie - 011218 5508 *** - Mohlaletse, SEKHUKHUNE, 1124 - *Gladwin Mabule*

580. Amarachukwu Favour Mtshali - 050327 5283 *** - 32 Rethahile Drive, Friendship Town, Commercia Ext 9, MIDRAND, 1682 - *Amara Favour*

581. Caseboy Botlhale Lobaleng - 910712 5551 *** - 188 Disa Street, Azaadville Gardens, AZAADVILLE, 1754 - *Botlhale*

582. Dylan Camlin Hill - 050625 5965 *** - 3412 Edmund Flats, WESTBURY, 2000 - *Daylan Camlin*

583. Adekunle Ramadan Maluleka - 061006 6107 *** - 510 Steve Biko Road, Gezina, PRETORIA, 0084 - *Ramsey Adekunle Siyabonga*

584. Mashupye Heacliff Nape - 940128 5666 *** - Mohlaletse, JANE FURSE, 1085 - *Fortune Heacliff*

585. Audrey Vernon Floors - 690622 5231 *** - 16 Prince Street, PEARSTON, 5860 - *Aubrey Vernon*

586. Sadhavivan Naidoo - 700820 5156 *** - 8 Garnet Road, SAVANNAH PARK, 4092 - *Sadha*

587. Lesiba Zephonia Ngoepe - 870930 5537 *** - 2134 Ntuli Street, MAMELODI EAST, 0122 - *Vusimuzi Zephania*

588. Tabudi Walter Rampora - 840328 5672 *** - 979 Rwala Street, Extension 21, NELLMAPHIUS, 0122 - *Tukudi Walter*

589. Kabelo Roid Mashigo - 830408 5679 *** - House No 2734, Block L, SOSHANGUVE, 0152 - *Magic Kabelo Asteroid*

590. Moeketsi Tshiamo Mphahlele - 990526 5766 *** - 17 Katzehellbogen Street, SECUNDA, 2302 - *Tshiamo Mooketsi Kgwaedi*

591. Thembhani Morris Babane - 670421 5240 *** - Stand No 524, Xikundu Village, MALAMULELE, 0826 - *Morris Thembhani*

592. Mercy Vikilahle - 051125 0880 *** - 29126 Canation Way, DELFT SOUTH, 7100 - *Mercy Lathitha*

593. Reitumetse Mhlahlo - 030428 0255 *** - Beyers Naude, Tramonto Flat 114, POTCHEFSTROOM, 2531 - *Reitumetse Sevuyile*

594. Gosego Kgabage - 020912 0658 *** - 10044 Leshobo, TAUNG, 8584 - *Onkokame Gosego*

595. Jeanette Ndaba - 700715 0563 *** - 9 Bavarian Mews, 136 Harpur Avenue, BENONI, 1501 - *Jeanette Thandi*

596. Mmatseke Veron Ramontja - 031225 0651 *** - House No 4188, Extension 2, REFILWE, 1003 - *Tshegofatso Veron*

597. Cay-Lynn Barbara Begg - 000312 0224 *** - 67 Taylor Street, PAROWVALLEY, 7500 - *Cyra*

598. Figile Innocentia Sibeko - 970726 0217 *** - 11242 Grindstone Street, HATHERLY, 0122 - *Fikile Innocentia*

599. Lilian Anitha Sono - 900711 0540 *** - 3934 Elestega Street, Nellmapius, PRETORIA, 0001 - *Leandre Masego Manku*

600. Masalel Alberto Mogale - 801030 5650 *** - House No 17716, Extension 11, MOHLAKENG, 1759 - *Masala Albert*

601. Johannes Willem Barend Van Der Colff - 870421 5175 *** - 24 Bond Place , Midstream Estate, CENTURION, 0158 - *Johan*

602. Tshiamo Matekola - 980208 5573 *** - 22 Phatudi Street, ATTERIDGEVILLE, 00008 - *Tshiamo Dominique*

603. Petros Nathi Xaba - 780101 5947 *** - Slahla, RICHMOND, 3780 - *Abelo Nathy*

604. Keith Deon Emslie - 060129 5210 *** - 12A – 14th Avenue, KLEINZEE, 8282 - *Keith*

605. Phatutshedzo Doctor Masunda - 840209 5362 *** - No 277 Thondoni, HA-MASIA, 0944 - *Phathutshedzo Doctor Masia*

606. Thabiso Gladness Setata – 840514 5675 *** - wife Eva Basetsana Setata – 841206 0925 *** - with two minor children – Tlotlegang Potego Setata – 120502 5240 *** - Keleabetswe Mmasetšhaba Setata – 201001 0366 *** - 840514 5675 081 - 450 Bruiweend Street, SOSHANGUVE SOUTH, 0152 - *Thabiso*

607. Kabo Lydia Mokele - 920106 0441 *** - Unit 7,No 4 Regent Street, BEDFORD GARDENS, 2007 - *Mmaselibeng Molebogeng Kabo*

608. Makgari Nthabiseng Mampuru - 060120 0698 *** - 6 Ntjapedi Street, Atteridgeville, PRETORIA, 0008 - *Nthabiseng Thlabu Naomi*

609. Hlulane Mtileng - 051221 0593 *** - House No 716, Block T, SOSHANGUVE, 0152 - *Karabo Hlulane*

610. Clement Moshidi - 990127 5704 *** - Mahloloaneng, GA MASEMOLA, 1060 - *Clement Sekgwathane*

611. Raymond Mamotsiololo Tseka - 770916 5964 *** - Malope, GA MASEMOLA, 1060 - *Raymond Madiane*

612. Tsietsi Romeo Manale - 880401 5606 *** - Moletlane, ZEBEDIELA, 0678 - *Lesibana Romeo*

613. Luxolo Mncedane - 061001 5905 *** - Buffalo Street, Extension 2 , DIEPSLOOT, 2100 - *Thutto*

614. Portia Lindelani - 910520 1430 *** - Stand No 10011, Mavhode, MUTALE, 0956 - *Portia Mpho*

615. Thulasizwe Phiri - 060104 5998 *** - 5463 Udonga Street, Extension 4, Protea Glen, SOWETO, 1818 - *Thulasizwe Brian*

616. Lehlohonolo Stephen Letsoara - 791216 5756 *** - 28 Diascia Avenue, Karen Park, ARCADIA, 0182 - *Lehlohonolo Mothekge*

617. Kabelo Portion Khwiyane - 880710 5463 *** - Stand No 355, Hlabekisa , GRASKOP, 1270 - *Kabelo Pholosho*

618. Jan Edward Tshabalala - 930219 5884 *** - 4358 Sobuza Street, SHARPVILLE, 1928 - *Thabiso Edward*

619. Itumeleng Machakela - 070128 5096 *** - 865 Vmbweza Street, Nkwe Estate, ROSSLYN, 0180 - *Itumeleng Velly*

620. Thato Mteleni - 050609 6194 *** - 117 – 8th Street, Extension 7, ATTERIDGEVILLE, 0008 - *Will*

621. Nthokozisi Ngobeni - 941002 6141 *** - 1900 Niger Streets, KATLEHONG, 1400 - *Mthokozisi Mfanafuthi*

622. Thabo Esau Mokautu - 820823 5593 *** - 6574 Taung Street, Zone 04, DIEPKLOOF, 1862 - *Vusimuzi Letoaba*

623. Masilo Phillemon Raletjena - 750822 5364 *** - 8 TC Nel Avenue, Phillip Nel Park, PRETORIA, 0183 - *Masilo Manuel*

DEPARTMENT OF HOME AFFAIRS

NO. 6096 **4 April 2025**

ALTERATION OF SURNAMES IN TERMS OF SECTION 26 OF THE BIRTHS AND DEATHS REGISTRATION ACT, 1992 (ACT NO. 51 OF 1992)

The Director-General has authorized the following persons to assume the surnames printed in *italics*

Notice is hereby given of Government Gazette No.**51950** which, was published in Government Gazette No.**5778** dated **24 January 2025**, is hereby rectified to read as follows

1. Mandisa Thandeka Thokoane - 970826 1083 *** - 08 Abelia Street, Tasbet Park, Extension 1, EMALAHLENI, 1042 - *Nhlapho*
2. Elisa Mapula Mothiba - 980131 0529 *** - Stand No 542, Matsulokwane, Nobody, GAMOTHIBA, 0727 - *Maele*
3. Reneilwe Jeniffer Mokgele - 980423 0612 *** - House No 600, Myra Village, TAUNG, 8580 - *Senyasamore*
4. Efenia Mukhudwana - 920609 0727 *** - Mpofu Village, Nthabalala, MAKHADO, 0960 - *Mutibi*
5. Promise Malomane - 900122 1104 *** - House No 28574, Extension 37, Mogoba, DAVEYTON, 1520 - *Mokwana*
6. Sandiso Sbongakonke Gumede - 951007 0639 *** - Matshana Reserve, EMPANGENI, 3880 - *Sithole*
7. Jacob Vusimuzi Phiri - 770528 5666 *** - House No 13160, Extension 8, PALMRIDGE, 1458 - *Qalane*
8. Tiisetso Providance Semaushu - 970817 5149 *** - 9638 Singonzo, Phelindaba, BLOEMFONTEIN, 9323 - *Tlali*
9. Thakgatso Jan Moshidi - 030202 6001 *** - 1213 Manapjane, MOGANYAKA, 0459 - *Maibelo*
10. Terrance Thoriso Masemola - 930101 5562 *** - Ngolo, ZEBEDIELA, 0632 - *Mabuso*
11. Lesego Mpumelelo Kaba - 010317 5428 *** - 63 Outeniqua Street, Sonland Park, VEREENIGING, 1930 - *Radebe*
12. Simphiwe Wiseman Zondi - 760218 5379 *** - Swayimane Area, PIETERMRITZBURG, 3201 - *Malimela*
13. Linky Nemudzivhadi - 060518 0735 *** - Ha Lambani, Vhufumba, THOHOYANDOU, 0950 - *Mabiku*
14. Conie Dudu Temba - 960423 0289 *** - 665 – 16th Street, Extension 11, ESSELEN PARK, 1628 - *Mlilo*
15. Mohammed Raziq Isaacs - 970626 5262 *** - 10 Derna Road, KENWYN, 7780 - *Theys*
16. Matshidiso Karabo Hope Mofokeng - 000713 0608 *** - 1512 Matsapa Street, Mailula Park, Extension 3, VOSLOORUS, 1475 - *Khumalo*
17. Ramaesele Happiness Mogashoa – 940427 0646 *** - with two minor children – Mahlogonolo Confidence Mogashoa – 110419 1535 *** - Boikgantsho Mogashoa – 170209 0342 *** - 940427 0646 081 - Ga-Mathabatha, LEBOWAKGOMO, 0737 - *Mathabatha*

Notice is hereby given of Government Gazette No.**51526** which, was published in Government Gazette No.**5525** dated **08 November 2024**, is hereby rectified to read as follows

1. Edward Muse - 830914 5526 *** - House No 13443, Lorwaneng Village, MAHIKENG, 2745 - *Ntombela*

DEPARTMENT OF HOME AFFAIRS

NO. 6097 **4 April 2025**

ALTERATION OF SURNAMES IN TERMS OF SECTION 26 OF THE BIRTHS AND DEATHS REGISTRATION ACT, 1992 (ACT NO. 51 OF 1992)

The Director-General has authorized the following persons to assume the surnames printed in *italics*:

1. Gaoreteleloe Maseko - 040308 0234 *** - 10 Drysdale Avenue, Horizon View, , ROODEPOORT, 1724 - *Moropa*
2. Boitumelo Naledi Sylvia Matlou - 970830 0401 *** - 39 Cactus Street, Doorn, , WELKOM, 9459 - *Nketsi*
3. Zingisa Mata - 810101 2228 *** - Rocky Ridge Farm, , KOKSTAD, 4700 - *Makaula*
4. Nokulunga Olwethu Ndebele - 990410 0295 *** - 25 Bushwillow Drive, , ORMONDE, 2091 - *Maimane*
5. Desree Mosa Tracy Ramatlakana - 900424 0910 *** - House No 0250, Selosesha Section, , JERICHO, 0189 - *Ranaka*
6. Noxolo Phumzile Mncube - 000702 1159 *** - Glykwater Farm, , YTRECHT, 2980 - *Ndhlovu*
7. Yvonne Lerato Silawu - 700103 1282 *** - Stand No 20149, , BUSHBUCKRIDGE, 1280 - *Ntimane*
8. Delia Ernsley Cumming - 941222 0598 *** - 14 Ruby Crescent, Parkside, , EAST LONDON, 5201 - *Gaehler*
9. Nontobeko Precious Shangase - 820621 0480 *** - 12 Merina Road, Northdale, , PIETERMARITZBURG, 3201 - *Mazibuko*
10. Lerato Innocentia Pearl Tshukudu - 890207 0257 *** - 1205 Kaboganka Street, Kagiso II, , MOGALE CITY, 1754 - *Nalane*
11. Lerato Maupa - 780103 0473 *** - 16 Barry Street, Harmelia, , EDENVALE, 1609 - *Mlambo*
12. Keotshepile Faith Kofiwa - 041022 0866 *** - House No 1422, Ikageleng , DINOKANA, 2868 - *Boikanyo*
13. Palesa Wezile Mlaba - 060718 0437 *** - 210 Thembelihle Street, Extension 5, , SIMUNYE, 1779 - *Mkhasibe*
14. Realeboga Tshwarelo Makaota - 030929 0657 *** - 1365 Tshepong Street, , PUDIMOE, 8581 - *Nakana*
15. Nthabiseng Koketso Felicity Sibiya - 060628 0954 *** - 1788 Victor Basjan Street, , POSTMASBURG, 8420 - *Tlakeli*
16. Lebogang Maphanga - 060614 1136 *** - 4200 Hingalwi Street, Extension 9, , LAWLEY, 1830 - *Mosia*
17. Nolwazi Portia Buthane - 990719 0194 *** - 823 Nitrogen Street, Block F West, , SOSHANGUVE, 0152 - *Dladla*
18. Lethabo Magantla Motloutsi - 050705 0566 *** - Stand No 42, , KOMANENG, 0727 - *Dikotla*
19. Thobekile Meriam Letsoaka - 790303 2566 *** - House No CH 339, Ezinembeni, , MAQONQO, 3201 - *Mbatha*
20. Akhona Phungula - 061103 0602 *** - Nkulu Location, Ward 36, , IZINGOLWENI, 4260 - *Nzimande*
21. Reantseng Paul Shiloane - 960226 5822 *** - New Town Estate, , SECUNDA, 1098 - *Motsoto*
22. Pepe William Masombuka - 581025 5640 *** - House No 1456, Siyabuswa A, , MATIELE, 0476 - *Nene*
23. Thendo-Emmanuel Kone - 030105 5226 *** - 918 Ubugu Street, Block XX, , SOSHANGUVE, 0152 - *Moima*
24. Godfrey Rikhotso - 710903 5462 *** - Califonia, , TZANEEN, 0850 - *Baloyi*
25. Donald Mabowa - 030321 5226 *** - 33430 Mathibe Street, Extension 17, , MAMELODI EAST, 0122 - *Sithole*

26. Alfeus Rietkop - 040206 5906 *** - House No 332, , CILLIE, 8870 - *Gaeage*
27. Nyaniso Nyembezi Cima - 060921 6131 *** - Redouth Location, Ward 18, , BIZANA, 4800 - *Nyembezi*
28. Sibusiso Madala Mahlangu - 921130 5501 *** - Stand No 2122, , MAMELODI WEST, 0122 - *Gumede*
29. Andries Thabiso Mfaba - 831104 5852 *** - House No 2267, Ward 5, Osizweni, NEWCASTLE, 2952 - *Buthelezi*
30. Kevin Lwandile Samkelo Gamede - 050919 6435 *** - 25/16723 Nomndeni, Extension 18, , ERMELO, 2351 - *Dube*
31. Thabiso Ngcobo - 011013 5530 *** - Unit 57, Block D57, Dalton Road, , CONGELA, 4001 - *Hlengwa*
32. Botho Matanganye - 050930 6218 *** - Unit 58 Twenty On Furrow, Furrow Road, Diswilmar, KRUGERSDORP, 1739 - *Davhana*
33. Mzoli Lucky Qakaza - 840904 6270 *** - 3 Edna Street, Fountain Village, , BELLVILLE, 7100 - *Tiya*
34. Mawethu Mntwapi - 830717 6030 *** - 847 Nu 17, , MDANTSANE, 5219 - *Madikiza*
35. Bongane Surprise Masango - 060924 5161 *** - Stand No 56, Aramburg, , ELUKWATINI, 1192 - *Luphondo*
36. Tshepho Jan Majola - 890412 5570 *** - 35877 Molahlegi Street, Extension 22, , MAMELODI EAST, 0122 - *Manoko*
37. Ramaesa Andrew Mamabolo - 660920 5487 *** - 14294 Mashaba Street, Mamelodi East, , PRETORIA, 0122 - *Mokhothu*
38. Rudzani Percy Nevhufumba - 060112 5765 *** - Stand No 5888, Ha-Makhuvha Tshilivho, , THOHOYANDOU, 0950 - *Nemushungwa*
39. Calvin Ndou - 900218 6135 *** - House No BB57, Sterkfontein, Bela Bela, NKADIMENG, 0470 - *Magane*
40. Umelusi Emmanuel George Mpye - 590423 5529 *** - House No 1018, Block NN, , SOSHANGUVE, 0152 - *Magagula*
41. Umzwaifani Isaac Leballo - 790117 5881 *** - 833 Galeshewe, , POTCHEFSTROOM, 2531 - *May*
42. Tiro Theophillus Secwaise - 990727 5557 *** - 150 Tiger Street, Mapoteng Village, , KURUMAN, 8460 - *Modise*
43. Siyabonga Cyprian Nkabinde - 960618 5533 *** - 8779 Xaba Street, Extension 1, Ratanda, HEIDELBERG, 1441 - *Malinga*
44. Khayelihle David Mabaso - 780606 5928 *** - Taylors Halt, , PLESSISLACK, 3201 - *Mnguni*
45. Siphiwe Emmanual Nxasane - 850407 5653 *** - Mr 566 Roay, Lion Park, , CAMPERDOWN, 3752 - *Hlongwane*
46. Percy Monde Nodolo - 920513 5581 *** - 9805 Nkanzakane Street, Extension 7, , PALMRIDGE, 1458 - *Letlaka*
47. Sifiso Prince Sibeko - 000731 5473 *** - 293 Accra Lane, Reedville, , SPRINGS, 1559 - *Mnisi*
48. Nnyase Joseph Mokobedi - 760407 6127 *** - House No 867 B, Kgaphamadi, , MMAKAUNYANA, 0200 - *Mashishi*
49. Sfiso Kananelo Mokabo - 001223 5166 *** - 3093 Khowane Street, , THOKOZA, 1426 - *Magagula*
50. Thabiso Kgaje Esau Makgajane - 940706 5315 *** - House No 780, Block GG, Soshanguve, PRETORIA, 0152 - *Ngakane*
51. Sanele Patrick Morai - 921001 5494 *** - 448 Marhatsane Street, , POORTJIE, 1841 - *Zondi*
52. Conway Mongezi Magubane - 851019 5464 *** - 18 Les Van Wyk Drive, Glenwood, , PIETERMARITZBURG, 3201 - *Mncwabe*
53. Ryder Mothokgo Molala - 831221 5355 *** - 773 Newtown, Extension 1, , MHLUZI, 1058 - *Matlala*
54. Tebogo Alfred Maruping - 800628 5640 *** - House No 919, Extension 6, , TAUNG, 8580 - *Mokoena*
55. Babilon Thomas Dube - 540915 5457 *** - House No 4463, Extension 2, , REFILWE, 1000 - *Sedibe*

56. Shaun Paul Alexander - 050607 6641 *** - 315 Steenvilla Complex, Military Road, , STEENBERG, 8001 - *Parnell*
57. Mxolisi Mzikayifani Ndulini - 990819 5787 *** - 05 Emaphephetheni, , INANDA, 4310 - *Gwala*
58. Sbusiso William Yende - 950929 5873 *** - Wihoek Farm, , SHEEPMOOR, 2352 - *Siyengo*
59. Tshepo Terence Bradley Tshukudu - 850427 5753 *** - 1205 Kaboganka Street, Kagiso II, , MOGALE CITY, 1754 - *Nalane*
60. Zwelidumile Richard Mkhungo - 720110 6072 *** - H6028 King Dingane Road, , UMLAZI, 4066 - *Mtambo*
61. Kutloano Sphiwe Matjeni - 060322 1108 *** - 25 Wakeford Street, , BARKLY WEST, 8375 - *Moraladi*
62. Lungile Primerose Mbatha - 770315 0935 *** - B751 Dlokolo Road, , KWA-MASHU, 4359 - *Sithole*
63. Minenhle Tembe - 030304 0420 *** - Endlondhweni Area, , KWANGWANASE, 3974 - *Zikhali*
64. Palesa Agatha Khathatse - 931120 0829 *** - 3A Van Lingen Street, , GRMISTON SOUTH, 1401 - *Duma*
65. Gundo Victoria Musingadi - 060811 1542 *** - 32 Long Street, , KEMPTON PARK, 1619 - *Chikala*
66. Onthatile Mankwanile Molebaloa - 031110 0391 *** - 833 Mojave Street, , PRETORIA, 0182 - *Mononyane*
67. Cindy Emmah Mafuma - 000301 1384 *** - 14 Arabian Crescent, Leeuwenhof Estate, , TYGER VALLEY, 0081 - *Mokoena*
68. Tebogo Motlana - 020218 0117 *** - 4549 Mpumalanga Street, Phomolong, , TEMBISA, 1632 - *Legodi*
69. Thobela Angelina Giba - 791012 0347 *** - 1403 NU 14, , MDANTSANE, 5219 - *Gulubele*
70. Lerato Thamai - 031007 0512 *** - 1088 Moabi Street, , WESSELSBRON, 9180 - *Dhlakisa*
71. Silindile Nominini Mthembu - 880501 0825 *** - D10700 Gagwini , UMBUMBULU, 4105 - *Mnyandu*
72. Sbusisiwe Pauline Motshegwa Machitje - 990924 0075 *** - 62 Piet Uys Street, , WESTERGLOOR, 1759 - *Mahlangu*
73. Sibusisiwe Zanele Yaka - 970520 0426 *** - House No 3968, Tshepisong , Phase 1, ROODEPOORT, 1724 - *Mkhwanazi*
74. Lebogang Anneline Ledwaba - 870305 0520 *** - 1326 Kudube, Unit 1, , TEMBA, 0407 - *Mahape*
75. Kanya Dumezweni - 040205 0248 *** - R107 Sishuba Street, Mlungisi Extension, , QUEENSTOWN, 5320 - *Mbona*
76. Thabiso Motlalekgomo Skosana - 010724 1213 *** - 2860 Seluma Street, Mamelodi West, , PRETORIA, 0122 - *Mabena*
77. Ambani Gracius Rakhwali - 060309 0576 *** - Nail Mafius, Extension 24, , MAMELODI, 0112 - *Ndou*
78. Nonhlahla Thethwayo - 061110 0755 *** - 599 Langalibalele, , HOWICK WEST, 3290 - *Ndlela*
79. Julia Nomqebelo Nkosi - 560506 1062 *** - 13 – 10th Avenue, , ALEXANDRA, 2090 - *Gulwako*
80. Lungile Chantel Hlubi - 031205 0751 *** - 2044 Unit 14, Imbali, , PIETERMARITZBURG, 3201 - *Khanyile*
81. Kgomotso Mathethe - 020423 1293 *** - 86 – 12th Avenue, Alexandra, , JOHANNESBURG, 2090 - *Modiba*
82. Dàniel David Nel – 30606 5435 *** - 61 Selborne Avenue, Lyttelon,,, CENTURION,0151, - *Langner*
83. Bathobile Sanelisiwe Gwala - 860903 0853 *** - 9049 Madiba Street, , CINDERELLA PARK, 3201 - *Hlongwane*
84. Lindokuhle Masantsabe - 991215 5817 *** - Ntlenzi Location, , BIZANA, 4800 - *Manxeba*
85. Khulani Answer Mtshali - 990707 5528 *** - Mpembeni Area, , HLABISA, 3937 - *Khanyile*

86. Mlamuli Nhleko - 010720 6234 *** - Enkukhwini Area, , MKUZE, 3965 - *Fakude*
87. Ayanda Mokoena - 050919 6639 *** - 144 Oshakati Street, Extension 28, , VOSLOORUS, 1475 - *Mlotshwa*
88. Johannes Hermanus Herbst - 051114 5265 *** - 24 Hoep Hoep Avenue, , RUSTEBURG, 0299 - *Bronkhorst*
89. Mduduzi Kagiso Molok - 031018 5916 *** - House No 4016, Phase 1, , DOORINKOP, 1050 - *Mokwana*
90. Wandisa Sicelo Makhubedu - 050110 5689 *** - Crest Street, Mhluzi , Extension 5, MIDDELBURG, 1055 - *Sibeko*
91. Pheko Mphela Mafalo - 060930 6116 *** - Dithabaneng, , MPHOHLELE, 0736 - *Petja*
92. Phamela Martin Mapheto - 920315 5977 *** - 25 Hauptfleisch Street, Florapark, , POLOKWANE, 0699 - *Mohale*
93. Sandile Thabiso Nxumalo - 990907 5669 *** - Mhlathull Area, Ngwelelane, , EMPANGENI, 3880 - *Maisela*
94. Neo Michael Mathodi - 890725 6028 *** - 513 Au-Katze Street, , VRYBURG, 8601 - *Thebe*
95. Benjamin Thuso Leping - 770102 6304 *** - 11964 Rock Ridge Street, , MOHLAKENG, 1759 - *Balie*
96. Mosa Thomas Letswalo - 940806 5822 *** - House No 528, Moteong Section, , TEMBISA, 1632 - *Phalane*
97. Nhlakanipho Wisedom Mkhulise - 921024 5572 *** - A 139 Bhejani Road, , MPOPHOMENI , 3233 - *Khumalo*
98. Jackson Mashitisho - 840228 5891 *** - 34391 Lengana, Extension 6, , MAMELODI EAST, 0122 - *Kganyago*
99. Nhlakanipho Mdluli - 980713 5780 *** - 47 Catoridge, , PIETERMARITZBURG, 3201 - *Ngidi*
100. Andile Brian Mbambo - 870220 5912 *** - Sweetwater, , INADI, 3201 - *Ngcobo*
101. Sphesihle Siyabonga Mvula - 041204 5451 *** - 147 Temple Road, , DURBAN , 4000 - *Mvelase*
102. Nqobile Mbandlwa - 030717 6134 *** - Nkambule Area, , VRYHEID, 3100 - *Mhlongo*
103. Kwandokuhle Fisokuhle Ndebele - 060130 5473 *** - 8737 Rainbow Park, , ILLOVU, 4126 - *Xulu*
104. Sihle Nkosinathi Leshaba - 060227 5923 *** - 2025 Kgokosu Street, , MAMELODI GARDENS, 0122 - *Malaza*
105. Ntuthuko Njapha - 000302 6005 *** - K554 Gwala Gwala Road, , KWAMASHU, 4360 - *Nzimande*
106. Ofentse Sello Thole - 860913 5419 *** - Stand No 1000, Unit 1, , TEMBA, 0407 - *Malope*
107. Thubelihle Mgaga - 021103 5301 *** - Fitipak, Mhlumayo, , LADYSMITH, 3370 - *Mtshali*
108. Mxolisi Artwell Zwane - 880417 5646 *** - 1420 Fast Track West, Catomanor, , DURBAN, 4138 - *Ngobese*
109. Yandisa Mvinjelwa - 030513 5975 *** - 42809 Khankanya Street, Makhaza , KHAYELITSHA, 7784 - *Mkwane*
110. Funokuhle Shange - 040115 6362 *** - St Chads Mission, , LADYSMITH, 3370 - *Mbhele*
111. Maphiwayinkosi Mofokeng - 060219 6420 *** - Khulani Balimi, , VOLKSRUST, 2470 - *Dhlamini*
112. Ntiyiso Makhobela - 040810 5643 *** - Myakayaca Village, , RITAVI, 0870 - *Baloyi*
113. Nhlanhla Thethwayo - 061110 5769 *** - 599 Langalibalele Street, , HOWICK, 3290 - *Ndlela*
114. Masibulele Faku - 050328 5124 *** - 601 Ramokonopi East, , KATLEHONG, 1431 - *Noqayi*
115. Mxolisi Khwezi Ndimande - 030305 5766 *** - Ntuzuma D, , DURBAN, 2556 - *Sithole*

116. S'phokuhle Lisizo Mbhele - 060516 6082 *** - Ekuvukeni no 130, Section A, , LADYSMITH, 3370 - *Gama*

117. Ofentse Allen Makena - 040326 5635 *** - 8 Bera Road, Mostyn Park, , ALEXANDRA, 2040 - *Kekana*

118. Siyabonga Vincent Mabena - 050101 5887 *** - House No 1308, Kwaggafontein, Ekukhanyeni, EMPUMALANGA, 0458 - *Manana*

119. Sivnathi Cydwell Gwelana - 030510 5833 *** - Ndlovukazi, , QUEENSTOWN, 5320 - *Ndhlovu*

120. Unathi Fred Shange - 850307 5723 *** - Lot 4298, Extension 3, , MARGATE, 4275 - *Pepu*

121. Andile Joshua Buthelezi - 900609 5550 *** - C3337 Califonia Road, Lindelani, , NTUZUMA, 4310 - *Kunene*

122. Obakeng Sekgwari Molebaloa - 041013 5787 *** - 833 Mojave Street, Montana , PRETORIA, 0182 - *Mononyane*

123. Ntandoyenkosi Asande Zulu - 040507 5879 *** - Mthunzini Reserve, , EMPANGENI, 3900 - *Xulu*

124. Mfaniseni Gumede - 041225 6136 *** - Ophondweni Area, , MTUBATUBA, 3935 - *Mkhwanazi*

125. Wandile Siphamandla Mnguni - 040113 6128 *** - House No 10047, , KWAMNYANDU, 3201 - *Ndlovu*

126. Bright Hlambeto Zitha - 060501 6194 *** - Homu Block 14B, , GIYANI, 0826 - *Khosa*

127. Jadriene Fivaz - 990907 5203 *** - 2 River Lodge, 43 Truter Street, , KROONSTAD, 9499 - *Paulik*

128. Collen Themba Kabini - 840326 5507 *** - House No 7319/78, Block YY, , SOSHANGUVE, 0152 - *Msezane*

129. Ntobeko Simenjalo Jnr Majola - 041222 5720 *** - 110133 Mlambo Road, , BOTHAS HILL, 3660 - *Ngcobo*

130. Lenny Malesela Kambule - 880827 5504 *** - 225 Marshal Street, , POLOKWANE, 0699 - *Moja*

131. Boitumelo Ramushu - 890116 5608 *** - 5406 Lalaphanzi Street, Olivenhoutbosch, , CENTURION, 2016 - *Malete*

132. Kgaogelo Ofentse Hanyane - 030614 5341 *** - House No 2192, Block P, , SOSHANGUVE, 0152 - *Morodi*

133. Lindani Terrence Nxumalo - 050907 6398 *** - Nzimakwe Location, , MARGATE, 4275 - *Ngeleka*

134. Zuko Njabulo Qali - 920917 5528 *** - Unit 13 No 1550, Imabli, , PIETERMARITZBURG, 3201 - *Ziqubu*

135. Khensani Tirani Buthelezi - 970501 5276 *** - 2745A Zwelitsha Street, Zola 1, Soweto, JOHANNESBURG, 1868 - *Nkuna*

136. Luvuyo Racham Norman Simons - 670112 5177 *** - 2 Jan Celliers Street, , PAROW NORTH, 7500 - *Nombewu*

137. Sonwabile Mhlanti - 821006 5496 *** - Lot 1227, Extension 3, , MARGATE, 4275 - *Mgoqi*

138. Siyabonga Ofentse Mngoma - 000125 5273 *** - 40 Channel Road, West Park, , PRETORIA, 0183 - *Mathe*

139. Reginald Mahlatse Rapetswa - 960131 5645 *** - Skirlek 7013, , MAMELODI EAST, 0122 - *Sathekge*

140. Orapeleng Ayanda Ntlailane - 020308 0495 *** - 5860 Witwatersrand Street, Extension 4, , LENASIA SOUTH, 1829 - *Maseko*

141. Selloane Moletsane - 900622 0252 *** - 166 Akgarebe Street, , NALEDI, 1868 - *Mokati*

142. Serobane Lethabo Mofokeng - 010613 0377 *** - 1816 Hartzrivier Street, , TOEKOMSRUS, 1759 - *Manotoane*

143. Sophy Lengwaza Sekhota - 960415 0388 *** - 2103 Nyakallong Street, , ALLANRIDGE, 9490 - *Mothapo*

144. Mbasa Momo - 030918 1396 *** - 38 Sethler Street, , BLOEMFONTEIN, 9300 - *Ndamase*

145. Dimpho Pleasure Ntsanwisi - 010121 0646 *** - 24942 Granadila Street, Extension 28, , PROTEA GLEN, 1819 - *Maluleka*

146. Nosipho Mthethwa - 011130 0728 *** - Mamaila, , SEKGOSESE, 0814 - *Magoro*

147. Itumeleng Mashau - 971228 5307 *** - 6246 Makalima Street, , ORLANDO EAST, 1804 - *Mutholing*

148. Thuto Koketso Mogorosi - 000728 5537 *** - Magogoe Tar, , MAHIKENG, 2745 - *Pule*

149. Elias Themba Nkuna - 810906 5309 *** - House No 3183, Zone 9, , GA-RANKUWA, 0208 - *Lukhele*

150. Songe Mosiwe - 040105 6035 *** - Timane Area, Kwaglayi Location, , DUTYWA, 5000 - *Zwakala*

151. Thabiso Molefe - 890608 5743 *** - House No B334, Mogono Section, , LUKA, 0314 - *Rapoo*

152. Kamogelo Wisdom More - 030703 5229 *** - 72 Welgedacht Avenue, , SPRINGS, 1400 - *Komane*

153. Mpho Mosweu - 811125 6178 *** - House No 1511, Slovoville, , ROODEPOORT, 1754 - *Frances*

154. Tebogo Angela Teffo - 060127 0686 *** - House No 0996, Rooibokfontein, , MAPELA, 0610 - *Poto*

155. Refiloe Victoria Masufi - 050424 0782 *** - 14530 Balemi Street, Zone 11, , SEBOKENG, 1983 - *Mashilwane*

156. Ziyanda Ngcobo - 050314 0386 *** - 9 Nquma Road, , BOTHAS HILL, 3660 - *Gqada*

157. Pamela Nkwane - 780902 0510 *** - 2275 – 6th Avenue, Boikhutsong Flats, , ALEXANDRA, 2090 - *Madonsela*

158. Amahle Dlani - 010625 0533 *** - 72 Kestrel Crescent, Yellow Wood Park, , PROSPECTON, 4004 - *Mthetho*

159. Thato Pamella Manyathela - 010207 0262 *** - 43 Witteboom, Brackendowns, , ALBERTON, 1448 - *Maja*

160. Matshidiso Johanna Baddie - 020222 0412 *** - 223 Khuale Street, Block UU, , SOSHANGUVE, 0152 - *Raphiri*

161. Palesa Molebogeng Charmaine Molokomme - 051006 0373 *** - 114 Ribbon Street, The Orchards, , PRETORIA, 0200 - *Thekiso*

162. Onthatile Angel Maroga - 060529 0052 *** - House No 14974, Extension 77, , SOSHANGUVE, 0152 - *Mashaga*

163. Thuto Oratile Maseko - 030414 0660 *** - 49 Mamphoko Street, Block UU, Soshanguve, PRETORIA, 0152 - *Malope*

164. Thandiwe Ntombikayise Maqhaqha - 061227 1318 *** - House No 3098, Slovo Park, , MABOPANE, 0190 - *Nkosi*

165. Siphosethu Nkabini - 011201 0081 *** - 32 olivia Road, Eveleigh Heights, , BOKSBURG, 1459 - *Mdletshe*

166. Tshegofatso Kgomo - 030215 0283 *** - House No 22600, Extension 7, , SOSHANGUVE, 0152 - *Malaza*

167. Lelethu Mtimkulu - 011225 1142 *** - 194 Gerald Spilkin, Ikhwezi, , MTHATHA, 5099 - *Ngcebetsha*

168. Tintswalo Marian Khosa - 800810 0493 *** - House No 268, Mkhuhlu , HAZYVIEW, 1246 - *Themba*

169. Tshepiso Innocent Mokobodi - 960306 0594 *** - 179 Ibuchu Street, , KANANA WEST, 0407 - *Molokomme*

170. Tinny Nonhlanhla Masilela - 960525 0475 *** - 1624 Murphy Street, , CULLINAN, 0458 - *Msweli*

171. Rambelani Innocentia Singo - 050831 0908 *** - 9487 Sibanyoni Street, Kagiso 11, , KRUGERSDORP, 1754 - *Nevondo*

172. Lizarda Ndlanlane - 060724 0910 *** - Mtengwane Location, Ward 21, , MURCHISON, 4250 - *Shozi*

173. Nozipho Charlotte Zwane - 721022 0405 *** - 24952 Mogase Street, Diepkloof , Extension 10, SOWETO, 1864 - *Nyembe*

174. Lehlogonolo Innocent Moloko - 991015 5810 *** - 11589 Mthunzini Avenue, Extension 8, , MHLUZI, 1055 - *Mthethwa*

175. Vincent Mduduzi Soko - 930701 6223 *** - House No 114, Section C, Tweefontein, KWA-MHLANGA, 1022 - *Thubana*

176. Thamagane Pilot Lesufi - 730515 5690 *** - Tjibeng, , MOOILYK, 0866 - *Tladi*

177. Thamzile Phanuel Nkaelang - 820406 5594 *** - House No 2109 , Mogotino, , FOXLAKE, 0299 - *Nkwe*

178. Lisanda Mmeli Khathi - 050825 6053 *** - 12 Elmwood Close, , HAYVIELDS, 3201 - *Mathonsi*

179. Tshireletso Porota - 050620 5138 *** - House No 75 Paballong Village, Rheeder Park, , WELKOM, 9459 - *Mofokeng*

180. Nhlakanipho Simphiwe Shezi - 061013 6359 *** - Dududu Area, , UMZINTO, 4240 - *Ndlovu*

181. Funanani Mammburu - 060715 5482 *** - Tshlombo, , THOHOYANDOU, 0950 - *Netshivhazwaulu*

182. Musawenkosi Ngcobo - 871023 5794 *** - Mpumuza Area, , PIETERMARITZBURG, 3201 - *Nzuza*

183. Orefile Lobone Mokakale - 040508 5948 *** - N 2252 Tikisano, , MOROKWENG, 8614 - *Gaboinewe*

184. Caleb Reign Miller - 850206 5846 *** - House No 105 , Zone 1, , ITSOSENG, 2744 - *Vanstaden*

185. Funokwakwe Selby Mhlongo - 861123 6075 *** - Ngubo Area, , TUGELA FERRY, 3010 - *Sithole*

186. Thuto Bume Vuyo Yoyo - 930125 5366 *** - 11 Qagana Road, Hazelden, Browns Farm, PHILLIPI, 7785 - *Koti*

187. Lucky Sibusiso Ngidi - 780420 5763 *** - 50 – 7th Avenue, Alexandra Township, , JOHANNESBURG, 2090 - *Dlamini*

188. Moeketsi Alfred Motaung - 880227 5388 *** - 4276 Kwakwatsi, , KOPPIES, 9540 - *Majola*

189. Thato Mathibe - 051101 5398 *** - House No E10497, Zone 4 Extension, , THABA NCHU, 9780 - *Tshabalala*

190. Molifi Gift Ramolehe - 060214 5657 *** - 16497 Mike Kwekwe Street, Thabong, , WELKOM, 9463 - *Mphomela*

191. Kamohelo Andrew Nyambose - 060217 6170 *** - 1889 Golden Garden, , SEBOKENG, 1983 - *Mofokeng*

192. Carlie Vermeulen - 971203 0163 *** - 1A Waterland, , BRACKENFELL , 7560 - *Segal*

193. Palesa Ancensha Maroba - 060114 0557 *** - 122 Tempi, , KOFFIEFONTEIN, 9982 - *Topkin*

194. S'nethemba Hope Gumede - 040120 1145 *** - Emacekane Reserve, Ward 31, , EMPANGENI, 3880 - *Buthelezi*

195. Nontethelelo Ivy Baleni - 940209 0864 *** - 9826 De Luba Crescent, , OLIFANTSFONTEIN, 1683 - *Macebo*

196. Andiswa Zulu - 050803 0307 *** - Sonyongwana Location, , CREIGHTON, 3263 - *Jili*

197. Fortunate S'lindelo Mthembu - 881122 0658 *** - Nsimbini Area, , ESIKHAWINI, 3887 - *Zuma*

198. Annacletta Zanele Mthembu - 850304 0597 *** - House No S – 381, Georgedale Area, , HAMMARSDALE, 3700 - *Makhetha*

199. Patience Mmagoseale Sethokgwa - 830609 1013 *** - 159 Ga Moloi, , GLEN COWIE, 1061 - *Mashego*

200. Pertunia Nthabiseng Mamanyoa - 980802 0437 *** - Kaphahlelo, , SEKGOSESE, 0814 - *Lebepe*

201. Mamello Mokgobu - 020929 0218 *** - House No 1338 , Lethabong Section, , MABOLOKA, 0197 - *Motaung*

202. Nqubeko Nosipho Samkelisiwe Matseke - 970722 0183 *** - House No B 1954, Section 2, , MADADENI, 2951 - *Makhubu*

203. Olebogeng Martha Mokoena - 970508 0210 *** - 2716 Nazareth, , MAKAPANSTAD, 0404 - *Tladi*

204. Mamashala Brighet Kofang - 971205 0461 *** - 67 – 4th Avenue, , ALEXANDRA, 2090 - *Ramaphoko*

205. Nonhlanhla Portia Zulu - 930401 0440 *** - 41 Parkington Grove, , GREENWOOD PARK, 4051 - *Mlaba*

206. Thembi Kgomo - 961017 0824 *** - House No 22600, Extension 7, , SOSHANGUVE, 0132 - *Malaza*

207. Makhosazana Dick - 860907 0304 *** - 4 Sakabula Crescent, , LIEFDE EN VREDE, 2190 - *Buthelezi*

208. Zekhethelo Ngcobo - 030613 0603 *** - 9 Nquma Road, , BOTHAS HILL, 3660 - *Gqada*

209. Lethukuthula Siphesihle Mbambo - 920423 5229 *** - House No 277 , Mlaba Village, , HAMMARSDALE, 3700 - *Zulu*

210. Sipho Elias Xaba - 770125 5653 *** - 9820 Kgama Street, Mayfield , Extension 9, DAVEYTON, 1520 - *Masemola*

211. Siyabonga Wesley Brown - 860720 5549 *** - Steadville, , LADYSMITH, 3370 - *Mazibuko*

212. Katlego Macdonald Sibanyoni - 941126 5026 *** - House No 311, Isekelo Section, , TEMBISA, 1632 - *Manyapye*

213. Sandile Buthelezi - 920319 5550 *** - Ensukangihiale Area, , ULUNDI, 3866 - *Phakathi*

214. Velly William Nkhwashu - 681103 5492 *** - 1427 Ravens Street, Extension 3, , NELLMAPHIAS, 0126 - *Chiloane*

215. Ntobeko Charles Mhlongo - 950516 5486 *** - Kwamondi Area, , ESHOWE, 3815 - *Ngema*

216. Martin Martin - 820515 6056 *** - 6043 Mokolo Street, Lufhereng, , SOWETO, 1861 - *Eckelton*

217. Mangaliso Mushuka Watson Fweta - 650620 5991 *** - 478 Windsor Road, Garsfontein, , PRETORIA, 0042 - *Fweta-Mzobe*

218. Thokozani Sphesihle Abraham Sibozo - 900821 5850 *** - 2347 Blaaubosch, , OSIZWENI, 2952 - *Malinga*

219. Akhona Mvelenhle Ziqubu - 060518 6420 *** - 16 Area, , JOZINI, 3969 - *Chamane*

220. Nsindiso Nhlonipho Khanyisani Gebashe - 960227 5752 *** - 134 Ramnaidoo Road, Springfield, , DURBAN, 4091 - *Ndlovu*

221. Sello Cassius Mpja - 020503 5120 *** - Nairn, , BOCHUM, 0790 - *Seakamela*

222. Sicelo Surprise Mbatha - 060511 6664 *** - Ntinini Area, , NQUTHU, 3135 - *Ngubane*

223. Ayabonga Andile Hlongwane - 050624 6178 *** - Barpord, , LADYSMITH, 3370 - *Masimula*

224. Musa Koketso Hlatshwayo - 021017 5508 *** - 679 Mohlala Street, Sotho Section, , VOSLOORUS, 1475 - *Sebati*

225. Jabulane Ngcukanye - 880113 6175 *** - House No 22, Motsamai Section, , KATLOHONG, 1431 - *Ntuli*

226. Siyethemba Andile Myeza - 060708 5243 *** - Manlenlle Area, , EMPANGENI, 3880 - *Mdletshe*

227. Khanya Nkululeko Mkhize - 900417 5591 *** - 80825 Ngode Road, , KWANYUSWA, 3660 - *Sibisi*

228. Katlego Mashile - 000816 5308 *** - 127 Thabakhubidu, , DENNILTON, 1036 - *Phora*

229. Tovhowani Thomas Livhia - 790917 5823 *** - Ravele Stand No 91, Tshilwavhusiku, , SINTHUMULE, 0938 - *Lebea*

230. Jaden Leroy Venter-Kleingeld - 030919 5530 *** - 10 Loubser Street, Wilgehof, , KROONSTAD, 9500 - *Venter*

231. Imraan Thabo Modukanene - 920311 5897 *** - 1544 Crysantheum, , HARTSWATER, 8570 - *Vanrooi*

232. Nsovo Charles Mboweni - 050623 5509 *** - House No 1037A, , NKOWANKOWA, 0870 - *Lubisi*

233. Franky Thipa Monyela - 980813 5546 *** - Stand No 551, Mothopong Village, , TZANEEN, 0850 - *Phalane*

234. Katlego Rodney Sebetola - 930705 5861 *** - Plot 524, Tarentaal Rand, , TZANEEN, 0850 - *Blessie*

235. Godfrey Fanyane Khumalo - 890910 5707 *** - Stand No 545, , MAHUSHU, 1242 - *Mokoena*

236. Lehlogonolo Mmathepe Tshijolo - 041001 6074 *** - Stand No 1101, Ramotshinyadi Village, , TZANEEN, 0850 - *Ramothwala*

237. Teboho Letlhake - 940916 5614 *** - 64 Xuma Street, Bekkersdal, , WESTON AREA, 2194 - *Molopa*

238. Kamohelo Teboho Engelo Molutsi - 040719 5864 *** - 6681 Mango Street, Extension 9, , KHUMA, 2551 - *Morake*

239. Kegaisang Obakeng Hazel Khumalo - 991231 0159 *** - House No 3303, Seraleng, , RUSTENBURG, 0300 - *Tagobe*

240. Lebogang Advocate Mokgoshi - 921127 5783 *** - 1393 Crow Street, Ipelegeng Location, , SCHWEIZER-RENEKE, 2780 - *Motsumi*

241. Vusumzi Sebastian Fezile Pieterson - 990810 5477 *** - 849 Maatla Street, , PUDIMOE, 8581 - *Nqunde*

242. Phenyo Isaac Mokabaphuthi - 990430 5250 *** - E1944 Dithabaneng, , PHOKENG, 0335 - *Ramorwa*

243. Musa Mixo Chauke - 980418 5615 *** - Stand No 045, , XIGALO, 0982 - *Shivambu*

244. Boitumelo Masinga - 971103 5434 *** - 2625 Joe Slovo Street, Unit 9, , MMABATHO, 2745 - *Kadile*

245. Lethabo Theo Phatedi Bambo - 961231 5354 *** - House No 295, Block DD, , SOSHANGUVE, 0152 - *Mahlangu*

246. Phale Michael Bokwala - 861225 5532 *** - Ga-Mashabela, , MARISHANE, 1064 - *Mokoala*

247. Moribishane Kgaugelo Stephen Mogale - 000120 5520 *** - 105 Sophia Izedinova, Danville , Extension 13, PRETORIA WEST, 0183 - *Lerutla*

248. Mxoli Joseph Nilika - 860414 5500 089 - 1893 Mafume Street, Mokwallo, , VREDEFORT, 9595 - *Pei*

249. Zamokwakhe Telphord Maranjana - 740910 6111 *** - 6399 Pilot Street, , MIDRAND, 1685 - *Ketsiwe*

250. Lehlonono Lenatha - 031118 6002 *** - Tsoloeng Village, , MOUNT FLETCHER, 4770 - *Khiba*

251. Kamva Dyomfana - 060525 5496 *** - 17 Dove Street, Electric City, , EERSTE RIVER, 7100 - *Bangaza*

252. Mxolisi Bangani - 061030 6447 *** - Mombeni Area, , MOUNT AYLIFF, 4735 - *Mbata*

253. Zukisile Manciya - 060704 5787 *** - 3128 Shayamoya Street, , KOKSTAD, 4700 - *Figlan*

254. Sesethu Diko - 060314 0374 *** - Nikhwe Location, , BIZANA, 0610 - *Nduku*

255. Evodia Moipone Maribe - 881125 1120 *** - House No 1340, Mandela Park, , VILJOENSKROON, 9520 - *Kgiba*

256. Phenyo Boitshepo Sebogodi - 030731 5152 *** - House No 1221, Extension 9, , PALMRIDGE, 1458 - *Ndlovu*

257. Nkhola Collen Mahlo - 730425 5952 *** - Stand No 96, , BURGERSDORP, 0850 - *Mole*

258. Sibongile Agnes Mapela - 740630 0399 *** - 66 Springbok Street, Tswelopele Section, , TEMBISA, 1632 - *Tshabalala*

259. Lorraine Tenyane - 860513 1025 *** - 259 Motsitsi Street, Golden Gardens, , VEREENIGING, 1983 - *Caleb*

260. Thandeka Refilwe Thomas - 050710 0536 *** - 3309 Regulius Street, Freedom Park, , DEVLAND, 1811 - *Radebe*

261. Phumzile Precious Shabangu - 790803 0718 *** - 9092 Bul Bul Street, Twatwa East, , DAVEYTON, 1501 - *Mabuza*

262. Lerato Lovely Mosinki - 971223 0297 *** - 7 Barnard Street, Boichoko, , POSTMASBURG, 8420 - *Shuping*

263. Joyce Kitike - 920410 0767 *** - House No 2955 , Extension 4, Refilwe, CULLINAN, 1003 - *Phakoago*

264. Thobile Ntombikayise Shangase - 890720 0800 *** - Mbuyeni Area, , NDWEDWE, 4342 - *Majola*

265. Immaculate Silindile Hlengiwe Dubazane - 811208 0457 *** - Enkomokazini, Loskop, , ESTCOURT, 3310 - *Mdakane*

266. Olivia Plamana - 920529 0590 *** - 1779 Tshikwalo Street, , LUFHERENG, 1725 - *Nkosi*

267. Promise Lungi Ndwandwe - 710928 0695 *** - 62 Laguma Road, Mount Royal, , PHOENIX, 4068 - *Masondo*

268. Khathalo Dennis Kunene - 680320 6295 *** - 103 – 8th Road, , KEW, 2000 - *Makhado*

269. Kabelo Excellent Manyandi - 040824 5766 *** - House No 6713, Tokoloho Section, Tumahole, PARYS, 9585 - *Maloka*

270. William Mduduzi Skosana - 760713 5412 *** - 03 Rasebetse Street, , KWA-THEMA, 1575 - *Khomo*

271. Sandile Victor Matladi - 721123 5832 *** - House No 1486, Tshongweni Section, , KATLEHONG, 1431 - *Zulu*

272. Herschille Dean Claasen - 920305 5223 *** - 03 Lusern Straat, Sesbrugge, , UPINGTON, 8801 - *Goliath*

273. Otlogetswe Reuben Bokgwathile - 751009 5864 *** - House No 11561 , Lotlhakane Village, , MAHIKENG, 2745 - *Seanego*

274. Avhasei Eric Mulayo - 790511 5640 *** - Mphephu Location, , DZANANI, 0955 - *Rasimphi*

275. Ignatius Gaopalelwe Sebati - 841104 5400 *** - 184 E, Majeakgoro, , TAUNG, 8584 - *Zibaya*

276. Zwelithini Perfect Silinda - 921010 5497 *** - House No 1248, Extension 3, , KLARINET, 2310 - *Sindane*

277. Njongo Ngomana - 051030 5460 *** - Cebe Area, , CENTANE, 4980 - *Mbana*

278. Nkanyiso Sanele Gumede - 970418 5094 *** - House No C4191, , ILLOVO, 4126 - *Mvubu*

279. Tshepiso Sekonyana - 890713 5804 *** - 58 Lennox Road, Albemarle, , GERMISTON, 1401 - *Mthenjane*

280. Sicelimpilo Vukile Ndlela - 040224 5431 *** - Section 5, , MADADENI, 2952 - *Mtshali*

281. Mudzunga Prince Dzhombe - 990411 5175 *** - Tshirolwe, , DZANANI, 0955 - *Mathalise*

282. Peter Mogomotsi Mokhotho - 870308 5304 *** - 5051 Hlompho Street, , NELMAPIUS, 0122 - *Malatsi*

283. Thato Samuel Makatong - 891001 5981 *** - 22 Poon Street, , BLOEMFONTEIN, 9301 - *Molema*

284. Edwin Matlou - 880411 5572 *** - Stand No 191, King Solly Park, , MOLETJIE, 0700 - *Makgobatlou*

285. Ofentse Luzuko Mahote - 061212 5461 *** - 237 Oristano Road, Lombardy Estate, Shere, PRETORIA EAST, 0084 - *Monese*

286. Senzekile Poppy Duma - 920828 0868 *** - Nyamvubu Area, , GREYTOWN, 3250 - *Mchunu*

287. Sanelisiwe Mathwebula - 990906 0092 *** - 93 Rockhill, Hillgrove, , NEWLANDS WEST, 4037 - *Mpanza*

288. Zekhethelo Fanelesibonge Ntombela - 030512 0500 *** - Dlini Area, , NONGOMA, 3950 - *Ndlovu*

289. Petunia Koketso Ndlovu - 880321 0383 *** - 914 Mothutlung, , BRITS, 0268 - *Lefunyane*

290. Katlego Masotla - 021123 0677 *** - 6 Valk Street, Birch Acres, , KEMPTON PARK, 1617 - *Rahube*

291. Mbali Dercia Mokgwetsi - 051114 1273 *** - 1434B Ndaweni Street, , ZOLA NORTH, 1868 - *Motha*

292. Mabaeng Kgolane Mampuru - 020105 1499 *** - Mohlaletse, , SEKHUKHUNE, 1124 - *Sibina*

293. Goodness Nelisiwe Kunene - 851221 0526 *** - 741 Lloyd Street, , CHARLESTOWN, 2473 - *Madi*

294. Dintle Neo Motoung - 061211 0626 *** - Stand No 220, Marobo Village, , MOLEPO, 0732 - *Mothapo*

295. Johanna Ngwepe Ramashala - 050520 1023 *** - Podile Village, , MANKWENG, 0727 - *Tladi*

296. Tiseletso Moshabane - 060612 1489 *** - House No 9894, Extension 6, Phomolong, MAMELODI EAST, 0122 - *Maleka*

297. Hlanganiso Sambo - 061231 0315 *** - Stand No 74, Gandlanani, , MALAMULELE, 0988 - *Mathebula*

298. Lucious Nthibi Selepe - 041201 0910 *** - Stand No 199, , MARIBANA, 0700 - *Kganyago*

299. Zothani Carol Maluleka - 040402 0467 *** - Nomkhubulwano Area, , HORNVILLE, 3201 - *Baartman*

300. Naledi Olwethu Mhlongo - 060416 1201 *** - Mntengwane Location , Ward 22, , MURCHISON, 4240 - *Hadebe*

301. Nonhlanhla Comfort Mthembu - 920228 0650 *** - House No 2555, Extension 01, , ORANGE FARM, 1841 - *Ntshangase*

302. Dineo Jennifer Malapile - 010115 0819 *** - Stand No 5440, Extension 10, , WITBANK, 1039 - *Nobela*

303. Lehlogonolo Duduetsang Masilela - 021129 5601 *** - 17 – 9th Avenue, Da Gama Park, , SIMONSTOWN, 7975 - *Bapela*

304. Sello Samuel Mothulega - 821222 5789 *** - 03 Eden Street, , STILFONTEIN, 2551 - *Mokhabela*

305. Rodney Kopano Mpini - 780219 5293 *** - 7391 Horse Shoe Street, , KOKSTAD, 4700 - *Leseme*

306. Tshepo Ontiretse Taole - 950310 5280 *** - 06 Mokgalo Street, , TLHABANE WEST, 0299 - *Maoka*

307. Falakhe Macdonald Kosana - 900610 5978 *** - 7816 Phalafala Street, Motsekuwa, , BETHLEHEM, 9701 - *Tsatsa*

308. Malakiya Jan Madidimalo - 011018 5162 *** - House No 2213, Extension 01, Mothotlang, BRITS, 0268 - *Khumalo*

309. Lesego Alfred Mangadi - 011104 5486 *** - A312 Makhutso Drive, Zone 3, , DIEPKLOOF, 1864 - *Matheba*

310. Bongani Alpheus Mthembu - 860826 5432 *** - Hlomendlini Area, , MANDENI, 4490 - *Shandu*

311. Katlego Gavenor Kgosiemang - 991021 5114 *** - House No 1087, Zone 3, , ITSOSENG, 2744 - *Mokgwasa*

312. Njabulo Nathaniel Nkosi - 010307 5512 *** - 318 Skosana, , KATLEHONG, 1431 - *Malaza*

313. Leornard Nkosifikile Ndlovu - 750110 6146 *** - Thokozani Location, , CRAMOND, 3201 - *Madondo*

314. Thabang Brian Ntswereng - 010709 5750 *** - House No 5672, Zone 12 Extension , SEBOKENG, 1984 - *Monaheng*

315. Mzimasi Brian Timakwe - 901202 5746 *** - 1 Muller Street, Klipfontein, , WITBANK, 1035 - *Magadla*

316. George Mangoane - 861212 5404 *** - 7662 Sisulu Section, Tumahole, , PARYS, 9585 - *Sewela*

317. Bongani Justice Malinga - 000110 5386 *** - Moolman, , PIET RETIEF, 2360 - *Nene*

318. Lutendo Norman Matjila - 830323 5693 *** - 4536 Kakhulu Street, , PALMRIDGE, 1458 - *Nedondwe*

319. Hlompho Titus Bohlolo - 050905 5369 *** - 1 Salite Crescent, Elandsridge, , CARLETONVILLE, 2479 - *Malepa*

320. Lukas Sithole - 040724 5336 *** - Stand No 442, Mokgoloboto Village, , TZANEEN, 0870 - *Mtshabi*

321. S'fundo Philani Khumalo - 050121 6408 *** - Sinana Place 240, , UMGUNGUNDLOVU, 3201 - *Dludla*

322. Agapé Sityo - 061003 5534 *** - 725 Greenstone Ridge, , EDENVALE, 1609 - *Themba*

323. Vusi Clayton Mmutlane - 030707 6188 *** - 50041 Raceteanyane, , BORAKALALO, 2569 - *Dlamini*

324. Katlego Mokobodi - 061204 5194 *** - House No 2604, Zone B, Mahweleneng, MOKOPANE, 0600 - *Lekolwana*

325. Nhlanhla Hlophe - 851222 5731 *** - 148 Maunde Street, Saulsville, , PRETORIA, 0125 - *Mkhize*

326. Mkateko Rifuwo Tshuma - 040916 5648 *** - Dinga Village, , MALAMULELE, 0982 - *Shivuri*

327. Nzemene William Lesea - 940615 5304 *** - Maluti 23, , BLOEMFONTEIN, 9300 - *Mokhothu*

328. Semakaleng Michael Tsikane - 670124 5632 *** - 910 Morolong Section, Extension 1, , KGABALATSANE, 0200 - *Tsikane-Manonyane*

329. Tshediso Moropoli - 901127 5365 *** - 6268 Thinane, , THOKOZA, 1426 - *Mokoena*

330. Zwelethu Ronaldo Mtshokotshe - 850417 5815 *** - Bambisane, , LUSIKISIKI, 4820 - *Mpinga*

331. Sabelo Khanyile - 880908 6533 *** - Embilane Area, , ULUNDI, 3838 - *Xaba*

332. Sibusiso Chauke - 760707 5828 *** - 2005B Mayekiso Street, Zola 2, , SOWETO, 1868 - *Zuke*

333. Siphesihle Owami Mofokeng - 041118 6378 *** - 245B Khumalo Street, Meadowlands, Zone 5, SOWETO, 1852 - *Radebe*

334. Austin Thibello Mlangeni - 020331 5766 *** - 2238 Phomolong, , DENNYSVILLE, 1932 - *Mokoena*

335. Simukelo Mthembu - 970913 5914 *** - Nkanyisweni Area, , ADAMS MISSION, 4100 - *Maphumulo*

336. Noah Modise Khunou - 880418 5835 *** - 7359 Kwalatha Street, Protea Glen, Extension 11, SOWETO, 1818 - *Ramorola*

337. Lesiba Frans Aphiri - 800213 5484 *** - Stand Number 1268, Sengwene Village, , ZEBEDIELA, 0628 - *Matlou*

338. Happy Khutso Samuel Moshebi - 781224 5442 *** - 3103 Uzangozolo Street, Gemvalley , MAMELODI EAST, 0125 - *Lekota*

339. Noluthando Masego Khumalo - 040918 0139 *** - 12261 Cypress Crescent, , KAGISO 2, 1754 - *Mkhwanazi*

340. Fundile Boipelo Maine - 030507 0434 *** - 1492 Ramatlo Street, Tshongweni Section, , KATLEHONG, 1431 - *Dube*

341. Theekgo Mashabela - 040926 0503 *** - 159 Ribeiro Street, Extension 11, , MAMELODI EAST, 1590 - *Seswai*

342. Nolukhanyo Radebe - 040731 0086 *** - 759 Sytze Wierda, Philip Nel Park, , PRETORIA WEST, 0183 - *Thabana*

343. Keneilwe Diseko Liseko - 030322 0443 *** - 1908 Harmony Street, Diepsloot, Extension 7, RANDBURG, 2189 - *Sefara*

344. Manoko Christopher Ramaite - 030930 5961 *** - 36534 Sifiso Street, Tsakane , Extension 16, BRAKPAN, 1550 - *Mahumane*

345. Bandile Sibiya - 020706 5700 *** - Ibusi Village, , LADYSMITH, 3370 - *Mosia*

346. Sandile Buthelezi - 850712 6080 *** - 499 Main Street, , JEPPESTOWN, 2094 - *Gama*

347. Lebohang Donald Mochela - 931112 5787 *** - 7248 Mokoena Street, , THOKOZA, 1426 - *Kessah Mochela*

348. Reitumetse Kgasi - 061004 6259 *** - 4277 Rockville, , HAMMANSKRAAL, 0407 - *Motshologane*

349. Mandlenkosi Amos Mdawu - 840704 6041 *** - 7 Luthango Street, , KWATHEMA, 1575 - *Modisane*

350. Wandile Zulu Madubanya - 060920 5570 *** - 6843 Dichela Street, , NELLMAPIUS, 0122 - *Sibiya*

351. Wish Tebokgo Khoza - 031128 6089 *** - Stand No 941, Tonga View, , KOMATIPOORT, 1341 - *Nkuna*

352. Tebogo Junior Sebolai - 040220 5919 *** - 16 hesperus Street, , KIMBERLEY, 8301 - *Monoametsi*

353. Tshephang Boshielo - 040120 5678 *** - 3818 Thaha Khubela, Mahube Sam Valley, , MAMELODI, 0122 - *Makgetlaneng*

354. Andziso Ethan Maluleke - 060820 5802 *** - Stand No 108, Tiyani Magoro Village, , ELIM, 0960 - *Hlungwani*

355. Ndabenhle Peter Junior Hadebe - 050419 6340 *** - House No B1747, , ILLOVO, 4126 - *Mazibuko*

356. Nkosingiphile Blessing Makhubo - 030412 6216 *** - House No a1337, Ezakheni, , LADYSMITH, 3370 - *Kubheka*

357. Ofentse Masemola - 010616 0695 *** - House No 2773 , Phase One, , MAMELODI EAST, 0125 - *Mashiloana*

358. Keitumetse Joyce Mathidibe - 790228 0961 *** - 6181 Chrome Street, Platinum Village, , RUSTENBURG, 0308 - *Mosasi*

359. Tsholofelo Masinga - 931114 0266 *** - 2625 Joe Slovo Street, Unit 9, , MMABATHO, 2735 - *Kadile*

360. Lethabo Modau - 030306 1187 *** - 1128 Bruineend Street, Block XX, , SOSHANGUVE, 0152 - *Makhubela*

361. Mamiki Wendy Sihlangu - 990223 0325 *** - 110102 Shabalala Street, , MOUNTAIN VIEW, 1242 - *Malatjie*

362. Cynthia Jabulile Khoza - 831126 0641 *** - Stand No 1107, Clau-Clau Trust, , KABOKWENI, 1245 - *Nkuna*

363. Elize Thandazile Mtungwane - 941117 0093 *** - Embeni Location, Ward 33, , IZINGOLWENI, 4260 - *Shezi*

364. Thabo Kgatla - 061122 5055 *** - Blue Vally 5241, Mankic, , CENTURION, 0026 - *Ledwaba*

365. Vhulahani Stanley Luvhengo - 710723 5703 *** - 90 Stone River Estate, Fourways, , JOHANNESBURG, 2191 - *Mudengu*

366. Enough Bruce Mohlala - 950828 5953 *** - 3 Heron Village, Stoneheng, , MBOMBELA, 1200 - *Mphahlele*

367. Johannes Vusi Skhosana - 780525 5278 *** - House No 3737, Mahlabathini, , KWAMHLANGA, 1022 - *Mtsweni*

368. Kgatontle Rankukeng Phukuile - 870128 5423 *** - 28 Kgurboom Street, Geelhout Park, Extension 4, RUSTENBURG, 0300 - *Hoagane*

369. Avuzwa Fikizolo - 050505 7247 *** - Phelandaba Village, , STERKSPRUIT, 9762 - *Mathanjana*

370. Migcobo Luthuli - 060920 5653 *** - Nkunzimbini, , LUSIKISIKI, 4820 - *Ndumiso*

371. Vusumuzi Nkosi - 031006 6320 *** - 11H9 Nkanini Hudula, , OSIZWENI, 2952 - *Zwane*

372. Olebogeng Jacky Theledi - 981004 5588 *** - 13308 Monareng Street, , MAMELODI EAST, 0122 - *Mogohlwane*

373. Thabang Jacob Makokwe - 901126 5816 *** - 2758 Zone 2, , ITSOSENG, 2744 - *Matshoba*

374. Bongani Jonathan Miya - 800509 5323 *** - 9 Persjuweeltjie Street, Boardwalk X 25, , PRETORIA, 0081 - *Morekhure*

375. Kenneth Sithembiso Radebe - 660914 5490 *** - 15389 Haine Street, , GLENRIDGE, 1818 - *Rabotapi*

376. Desmond Sifiso Manzini - 790727 5304 *** - 37 Blue Ridge Crescent, , NELSPRUIT, 1205 - *Hlatshwayoo*

377. Lucas Tummy Moyo - 870404 5747 *** - 333 Unit C, , MANKWENG, 0727 - *Sekgatša*

378. Caroline Ntombi Dala - 810111 0441 *** - House No 27924 , Extension 24, Jouberton Location, KLERKSDORP, 2574 - *Sebe*

379. Reamohetse Anastacia Molwele - 890618 0682 *** - House No 1416, Section K, , BOTSHABELO, 9781 - *Sepesa*

380. Lethiwe Sinikiwe Khanyile - 970503 0152 *** - Berea Reserve, , ESHOWE, 3815 - *Mthembu*

381. Keabetswe Mahlatsi - 030909 0643 *** - 13264 Monareng Street, Mamelodi East, , PRETORIA, 0122 - *Mokone*

382. Nontobeko Sibisi - 890425 0490 *** - 50 Rapson Road, Morningside, , DURBAN, 4001 - *Khumalo*

383. Nokuthula Noluthando Lushaba - 010606 0477 *** - 102 Buller Road, , MONTCLAIR, 4004 - *Ngubane*

384. Nonjabulo Precious Nqobile Xulu - 910802 0597 *** - 10 Lee Road, Blackheath, , JOHANNESBURG, 2195 - *Mcanyana*

385. Lusanda Kubheka - 060926 1356 *** - Groenvlei Farm, , UTRECHT, 2980 - *Zwane*

386. Nomfundo Mhlongo - 030426 0113 *** - Mbutshana Area, Sweetwaters, , PIETERMARITZBURG, 3201 - *Ngidi*

387. Zinhle Mazibuko - 021223 1065 *** - House No 7036, , OSIZWENI, 2952 - *Mofokeng*

388. Nomfundo Sphesihle Sibeko - 060820 0623 *** - House No 5204, Sakhile, Extension 4, STANDERTON, 2431 - *Mkwebane*

389. Ayanda Nolwazi Zulu - 061008 0475 *** - New Stand , Lakeside, , VRYHEID, 3100 - *Buthelezi*

390. Katlego Mahlogonolo Kekana - 040801 0033 *** - House No 1157, Zone 1, Makwelereng, MOKOPANE, 0600 - *Maja*

391. Aphiwe Valencia Hlangu - 060215 0296 *** - C – 1934 Sbusiso Mdakane Road, , UMLAZI, 4031 - *Mtungwa*

392. Ayanda Prudence Nomcebo Nxumalo - 930318 07425 *** - 153 Echibini, , DANNHOUSER, 3080 - *Nkosi*

393. Lesego Violet Manyike - 820824 0829 *** - 309 Kgano Street, Moedi Section, , TEMBISA, 1632 - *Komane*

394. Matjatji Faith Chabalala - 930412 0910 *** - Moletlane, , ZEBEDIELA, 0632 - *Kekana*

395. Zandile Yeko - 841120 1033 *** - Ziphunzana Location, , LIBODE, 5160 - *Sibalile*

396. Owethusonke Radebe - 050101 0789 *** - Stand 7237, Extension 18, , LESLIE, 2265 - *Nene*

397. Tsireledzo Maanda - 060918 1243 *** - Manamana, , THOHOYANDOU, 0950 - *Phalandwa*

398. Welheminah Mmatsatsi Tshehlo - 820902 0702 *** - Leseding 1963, , BELA BELA, 0480 - *Makola*

399. Sithembile Duma - 010209 0789 *** - House No B869, Folweni Township, , UMBUMBULU, 4105 - *Ntobela*

400. Mankatsi Sarah Mahlatji - 790317 0404 *** - North Street, Glen Marais, , KEMPTON PARK, 1619 - *Kgatla*

401. Petunia Nokwanda Ntuli - 800622 0259 *** - 474 Jacqueline Drive, , GARSFONTEIN, 0048 - *Masilela*

402. Lungelo Mqondisi Ndaba - 010303 6244 *** - Driefontein, , LADYSMITH, 3370 - *Sibisi*

403. Yongama Mngqongwa - 030325 6124 *** - Dindini Location, , BIZANA, 4800 - *Hlabe*

404. Thabiso Michael Makoko - 050709 5511 *** - House No 9636 K9, Kutloanong, , ODENDAALSRUS, 9483 - *Monyatsi*

405. Njabulo Sanele Zondi - 950721 5676 *** - 9 Richfield Street, Newlands West, , DURBAN, 4037 - *Bhengu*

406. Teboho Prince Mholo - 000709 5135 *** - 12102 Thobi Street, Thabong, , WELKOM, 9463 - *Mbhele*

407. Sibonelo Zulu - 041110 5845 *** - Eskom No 56, Groogtgeluk Farm, , DANNHAUSER, 3080 - *Vilakazi*

408. Simon Letshopha Ndhlovu - 730504 5970 *** - House No 6204, Extension 3, Khutsong Location, CARLETONVILLE, 2499 - *Letsopha*

409. Tebatso Egicent Ratau - 030314 5510 *** - Mabitsi B, New Stands, , GA-RAKGWADI, 1068 - *Lekgeu*

410. Olebogeng Madumo - 870313 5957 *** - 233 Lebushi Street, Ga-Rankuwa View, , GA-RANKUWA, 0208 - *Sekati*

411. Moeletsi Mahlaba - 060220 5737 *** - Ga-Mashabelo, , DRIEKOP, 1125 - *Mashabela*

412. Nkosingiphile Sphephelo Mdletshe - 051110 5360 *** - 5 Sizwe Mdlalose, , PINETOWN, 3610 - *Ndlovu*

413. Nkululeko Khensani Miyambo - 060226 5290 *** - 4 Piet Uys Street, Sharon Park, , NIGEL, 1496 - *Maseko*

414. Siphesihle Samkelo Nkosi - 050909 5337 *** - P O Box 363, , NELSPRUIT, 1200 - *Mabuza*

415. Lemohang Tlhaganelo Mokoteli - 061117 5354 *** - 268 Relebohile, , LUCKHOFF, 9932 - *Buffel*

416. Sello Kenneth Sibeko - 810423 5560 *** - 1308 Bhekuzulu Street, , BOIPATONG, 1911 - *Molefe*

417. Wayne Charleton Raadt - 890512 5050 *** - 24 Soutpansberg Drive, Oakdene, , JOHANNESBURG, 2190 - *Oliphant*

418. Sidwell Melusi Ntuli - 940930 5544 *** - House No 1358, , KWAGGAFONTEIN, 0458 - *Mabhena*

419. Kamogelo Given Dimpe - 051120 6148 *** - 175 Linden Road, , SANDTON, 2019 - *Leballo*

420. Chris Vukile Jiki - 761214 5543 *** - 1255 Rd 27, Chesterville, , DURBAN, 4091 - *Shabalala*

421. Rowan Calvin Taks - 031107 5337 *** - 489 Outeniekwa Street, Nasaret, , MIDDELBURG, 1050 - *Berends*

422. Mboniseni Aubrey Musetha - 790607 5446 *** - Luku, , MUTALE, 0956 - *Netshimbupfe*

423. Hosia George Nkabinde - 671207 5378 *** - 9470 Mfene Street, , KWA-THEMA, 1875 - *Mpshe*

424. Lucas Mukies Skosana - 700117 5800 *** - 3310 – 8th Street, Etwatwa, , DAVEYTON, 1520 - *Mahlangu*

425. Samuel Sengate Mkhwanazi - 940204 5718 *** - Malatane, , GA SELOANE, 0737 - *Mpanyane*

426. Thabo Aaron Mofokeng - 70102 6023 *** - House No 591002, Zone 3, , SEBOKENG, 1983 - *Mokoena*

427. Mlondi Blose - 030912 5336 *** - Cottonlands Area, , VERULAM, 4339 - *Ncube*

428. Phaphama Njenje Nxumalo - 960402 6376 *** - 26 Grahamtown, , JOHANNESBURG, 3001 - *Ntuli*

429. Sbusiso Zwane - 050805 6357 *** - Mbungulu Area, , UMZINTO, 4200 - *Khathi*

430. Siphamandla Millian Mashami - 800303 6125 *** - 13 Nhlapo Street, Zola 3, , SOWETO, 1868 - *Zakwe*

431. Kelebogile Witness Sekgabi - 940518 5822 *** - Mogatta Section, , UITKYK, 2800 - *Tledima*

432. Oratile Kgahliso Marule - 060811 5125 *** - 19B Shuttle Street, , MBOMBELA, 1200 - *Mabudusha*

433. Wesley Peter Rocky Clegg - 860917 5035 *** - N2 Stepney Green, , PARKLANDS, 7441 - *Tsobanoglou*

434. Phineas Mahlora Mongeki - 850702 6012 *** - Stand No 261, , RAPOTOKWANE, 0482 - *Mahlangu*

435. Mfanukhona Simon Ndebele - 860220 5565 *** - Dirkiesdorp, , PIET RETIEF, 2380 - *Radebe*

436. Tinyiko Perfect Nukeri - 870829 5980 *** - 65 Jordaan Street, The Orchards, Extension 24, AKASIA, 0182 - *Mahange*

437. Lukanyo Patric Tyaliti - 880105 6126 *** - 31 Pebble Lake Complex, Strubens Valley, , ROODEPOORT, 1709 - *Tofile*

438. Lebogang Marcus Nkwana - 880201 5322 *** - House No 2091, Block GG, , SOSHANGUVE, 0152 - *Sindane*

439. Ofentse Batsho Seatlhodi Phukuile - 930709 5183 *** - 28 Keurboom Avenue, Geelhout Park, Extension 4, RUSTENBURG, 0299 - *Hoaeane*

440. Gladwell Lefa Morapela - 980311 5308 *** - 10 Herminnie Street, Bedelia, , WELKOM, 9459 - *Fefe*

441. Tshedza Fortune Ramabali - 060906 6679 *** - 8571 Red Daisy Street, Capitalview Estate, , PRETORIA WEST, 0008 - *Mokoena*

442. Ntando Lino Ngwenyama - 060327 6287 *** - 182 Baardwisper Street, Kalafong heights, , ATTREGDVILLE, 0008 - *Nhapulo*

443. Kamohelo Lepita Galela - 050106 5362 *** - 77 Moletsaka Street, , VOSLOORUS, 1475 - *Mokoena*

444. Ntobeko Moses Shabalala - 930925 5845 *** - 169 King Dinuzulu, Berea, , JOHANNESBURG, 4000 - *Xulu*

445. Lethabo Masilo Phukuile - 980714 5022 *** - 28 Keurboom Avenue, Geelhout Park, Extension 4, RUSTENBURG, 0299 - *Hoaeane*

446. Olusha Sisanda Majola - 020430 5847 *** - 14 Blackhurst Avenue, , MUSGRAVE, 4001 - *Ncalane*

447. Bhekuyise Abram Mawela - 791217 5667 *** - 22193 Shilane Street, , KWA-THEMA, 1560 - *Sibiya*

448. Mandla Amos Skele - 811118 5618 *** - Mokhesi Location, , STERKSPRUIT, 9762 - *Mpu*

449. Phumlani Selby Gasa - 911017 5556 *** - 49 Berea Road, , DURBAN, 4000 - *Mbotho*

450. Ntokozo Mtimkulu - 901220 5258 *** - 15 Kappertjie Street, Visagie Park, , NIGEL, 1490 - *Mashinini*

451. Siphelele Sibongakonke Duma - 050603 5359 *** - House No B869, , FOLWENI, 4105 - *Ntobela*

452. Neo Hector Mabote - 911020 5386 *** - House No 168, Block PP1, , SOSHANGUVE, 0152 - *Rametse*

453. Penelope Qhawe Ntamo - 010826 0546 *** - House No 3492, Zone 3, Ga-Rankuwa, PRETORIA, 0208 - *Faltein*

454. Itumeleng Sheila Bapela - 820418 0643 *** - 1794 Motsu, Extension 5, , TEMBISA, 1632 - *Nembaleni*

455. Banjo Lefa Mokobane - 860817 5985 *** - Makotse, , LEBOWAKGOMO, 0737 - *Lekoloane*

456. Boy Elijah Mathenjwa - 620505 6218 *** - Kwamlogo, , PONGOLA, 3170 - *Gamede*

457. Sibusiso Mphuthi - 960226 5181 *** - 628 A Sifikile Street, Meadowlands, Zone 4, SOWETO, 1852 - *Dlamini*

458. Joyce Tlou Matsimela - 991215 0775 *** - Moremadi Park, , POLOKWANE, 1946 - *Motalane*

459. Philani Ulwandle Nomhlekhabo Sikhosana - 061204 0738 *** - House No 3306, Extension 2, , BETHAL, 2310 - *Thabethe*

460. Nomthandazo Sharon Sima - 861110 0312 *** - House No 020125, Emachobeni Area, , INANDA, 4309 - *Ndlovu*

461. Mantjane Rachel Ndini - 780107 0657 *** - House No 10120, , KOPPERMYN, 0719 - *Ntini*

462. Tebatso Precious Lekgothoane - 950918 0898 *** - House No 2188, , GA THOKA, 0700 - *Machaba*

463. Koketso Patience Matlou - 990713 0690 *** - Stand No 236, Kgabo Park, Phase 2, MOLETJIE, 0710 - *Mokgolo*

464. Lettie Mathatho - 860114 0441 *** - House No 2137, Zone 5, , SESHEGO, 0742 - *Maleka*

465. Lindokuhle Roboshi - 991128 0789 *** - Phole Location, , KING WILLIAMS TOWN, 5600 - *Klaas*

466. Arnold Mpho Lebembe - 940904 5432 *** - 148 Bakema Street, , HAMMANSKRAAL, 0400 - *Lamola*

467. Mamuki Baloyi - 821015 5518 *** - Shigalo, , TSUTSUMANI, 0981 - *Mabaso*

468. Ayanda Gift Mdutyana - 010707 629 *** - Stand B1 186, , MPULUZI, 2335 - *Ndaba*

469. Tebogo Michael Tshoenyane - 960106 5412 *** - 1751 Matshelapata, , HEBRON, 0193 - *Tlhoaele*

470. Kealeboga Errens Mogami - 900808 5753 *** - 74 Madibana Street, , LOBATLA, 2873 - *Marumo*

471. Mmeli Shamiel Sibitane - 980821 5769 *** - House No 331C, , MASIBEKELA, 1342 - *Sindane*

472. Keorapetse Obakeng Thembo - 950617 5423 *** - 3564 Tlagudi Street, Ikageng, , POTCHEFSTROOM, 2531 - *Tlale*

473. Thulo Samuel Lenong - 840226 5372 *** - House No 2828, Extension 9, Bronville, WELKOM, 9473 - *Mosiuoa*

474. Innocent Siyabonga Mngadi - 750517 5701 *** - House No J2483, Umlazi Township, , UMLAZI, 4066 - *Ngcobo*

475. Edie Edwin Vumane - 870228 5663 *** - 2003 Madikwe Street, Royal Cradle, , KRUGERSDORP, 1739 - *Maswanganye*

476. Lesego Thabani Moeti - 050813 5598 *** - 321 Blue Heights, 7 Westville Road, , WESTILLE, 3629 - *Khuboni*

477. Siphesihle Mthembu - 060923 5142 *** - House No D100 , Nkanyezini Location, , PIETERMARITZBURG, 3200 - *Nyambose*

478. Musa Moses Ngidi - 931001 5610 *** - CC1033 Ceto Crescent, Mayville, , DURBAN, 4091 - *Ntineza*

479. Lungelo Treasure Mthabela - 890110 5805 *** - 07550 Mzunjana Road, Umzinyathi Area 04, , INANDA, 4310 - *Simamane*

480. Carleigh Shandré Heslop - 991027 0234 *** - 119 Andora Street, , BLUFF, 4052 - *Hudson*

481. Dakalo Khonzeka - 060816 0475 *** - 925 Machaba Drive, Mofolo Village, , SOWETO, 1801 - *Sibasa*

482. Tebogo Edward Masinya - 000625 513 *** - House No 513, Block T, , SOSHANGUVE, 0152 - *Moatshe*

483. Lindokuhle Nkosinathi Mchunu - 890318 5430 *** - House No 499708, Thusumuntu Area, , KWANYUSWA, 3660 - *Ndlovu*

484. Mahlatse Lucas Mokonyama - 020816 5917 *** - 216 Joe Modise Street, Lotus Gardens, , PRETORIA, 0008 - *Mohlake*

485. Itumeleng Nakedi Manganyi - 060401 1018 *** - 23230 honga Street, Extension 4, , MAMELODI EAST, 0122 - *Montani*

486. Thulisile Hlongwane - 011006 0342 *** - C23 Effingham Road, , REDHILL, 3260 - *Phewa*

487. Shumani Mavis Phaswana - 771202 0393 *** - Mauluma, , DZANANI, 0955 - *Mivhumbe*

488. Nonjabulo Happiness Ndlangamandla - 030528 1156 *** - Fairbreeze, , NEWCASTLE, 2940 - *Siwela*

489. Jada Skye De Bruin - 040517 0558 *** - 91 Edmonds Orad, Glenwood, , DURBAN, 4001 - *Isaac*

490. Keolebogile Flora Maneedi - 050415 0942 *** - 2307 Tirisano Street, Magojaneng, , KURUMAN, 8460 - *Moseki*

491. Odirile Mabusela - 050908 0160 *** - 1836 Mmabatho Street, Mamelodi Gardens, Extension 2, MAMELODI EAST, 0122 - *Mabena*

492. Sana Suzan Ramaboka - 950522 1171 *** - 564 Makubung, Ga Molepo, , BOYNE, 0728 - *Tema*

493. Laurentia Mpete - 700313 0523 *** - 8777 Emdeni Avenue, , KAGISO 2, 1754 - *Dhlamini*

494. Vanessa-Angel Bajabulile Madonsela - 041022 1046 *** - House No E9143, Section 5, , MADADENI, 2951 - *Hlatshwayo*

495. Zimele Lwandile Noma Mweli - 070123 1039 *** - Thembeka Area, , NQUTU, 3135 - *Ntuli*

496. Vuyiswa Memela - 060414 1479 *** - Mlaba Location, , IMPENDLE, 3227 - *Ntshiza*

497. Tshegofatso Moacwi - 060830 0583 *** - 48323 Lerato Park, Roodepan, , KIMBERLEY, 8309 - *Cindi*

498. Anna Shoh Maruli - 040707 0750 *** - House No 106, Diana Village, , MASHASHANE, 0743 - *Ngobeni*

499. Kopano Phuti Ngoepe - 060511 0628 *** - Ga-Matlala Chloe, 429 Juno, , MATLALA, 0748 - *Selolo*

500. Lulama Angel Mthethwa - 061231 1232 *** - Kwatebetebe Area, , VRYHEID, 3100 - *Nkosi*

501. Thandokwakhe Boy Boy Ngcobo - 041123 5370 *** - 116 Dayl Road, Clerwood, , DURBAN, 4001 - *Chiliza*

502. Afika Xolile Phethu - 950912 6287 *** - K53 Kgotsong, Rooidakkie, , GRABOUW, 7160 - *Maphofela*

503. Lindelani Ayanda Mahlangu - 050204 5631 *** - 1044 Duduza, , VOLKSRUST, 2470 - *Zondo*

504. Keamogetswe Ramphisa - 041214 5752 *** - 64 Block H, Mafishane , Moloto, KWA MHLANGA, 1022 - *Ditshego*

505. Thulani Methula - 020308 6137 *** - Spitzkop Farm, , WAKKERSTROOM, 2480 - *Nkwanyana*

506. Moses Karabo Thamande - 010413 6070 *** - House No 5694 , Section Q, , MAMELODI, 0122 - *Madzibedi*

507. Lutendo Ramada - 920115 5738 *** - Makungwi, , DZANANI, 0955 - *Tshifure*

508. Xolane Thokozane Zwane - 941004 6015 *** - Stand No 32, Aramburg, , ELUKWATINI, 1192 - *Makhubu*

509. Kenneth Ngoveni - 880104 5952 *** - Tiyani Magoro, Stand No 1235, , ELIM, 0900 - *Rikhotso*

510. Zwivhuya Aidan Ndou - 050806 6219 *** - Ha-Makuya, , THOHOYANDOU, 0970 - *Makhuvha*

511. Bongani Lucky Manyebuke - 060818 5846 *** - 1143 Impumelelo, , DEVON, 1560 - *Mabena*

512. Andile Nkanyiso Mncwabe - 040111 5633 *** - 440777 Khumalo Road , Mpumuza Location, , PIETERMARITZBURG, 3200 - *Lushozi*

513. Kwanele Mfanafuthi Magwaza - 040708 6018 *** - Ibhubesi Road, , NTUZUMA, 4359 - *Radebe*

514. Sibusiso Simiso Mgenge - 060325 5194 *** - House No 3706, Illovo Township, , AMANZIMTOTI, 4120 - *Cele*

515. Sabelo Lwandle Mabida - 061202 5853 *** - 190364 Nungwane, , UMBUMBULU, 4105 - *Luthuli*

516. Obakeng Mabusela - 050908 5145 *** - 1836 Mmabatho Street, Mamelodi Gardens, Extension 2, MAMELODI EAST, 0122 - *Mabena*

517. Sifiso Mazibuko - 060721 5641 *** - 3066 Ballanden Street, Orlando East, , SOWETO, 1804 - *Nukeri*

518. Sipho Mthethwa - 060206 6747 *** - 24839 Vanilla Crescent, Protea Glen, Extension 28, SOWETO, 1818 - *Ngxongo*

519. Sabelo Mthethwa - 060206 6748 *** - 24839 Vanilla Crescent, Protea Glen, Extension 28, SOWETO, 1818 - *Ngxongo*

520. Siphokuhle Lwazi Ngubane - 070104 6196 *** - Gsas Tsheketshe Road, , UMLAZI, 4031 - *Nxumalo*

521. Mazithi Tsheme - 940105 6162 *** - 55 Grootkloof Stret, Glenhavie, , WESTONARIA, 1739 - *Macebo*

522. Siyabonga Percival Shabalala - 851029 5643 *** - House No 4664 , Section 3, , MADADENI, 2951 - *Zwane*

523. Kgaogelo Carl Ngobeni - 661010 6492 *** - 15 Forest Walk Street, Sagewood, , MIDRAND, 2000 - *Lekgoto*

524. Mogorosi Benjamin Moalusi - 740225 5807 *** - 8833 Realeboga Road, , OLIEVENHOUTBOSCH, 0187 - *Matsididi*

525. Timmy Chokoe - 960602 6042 *** - Stand No 142, Moletjie, , MADIGORONG, 0709 - *Mabotja*

526. Vuyo Edward Liphoko - 860819 6114 *** - 27182 Namibia Square, , BLOEMFONTEIN, 9300 - *Ndobela*

527. Teboho Rammile - 720825 6206 *** - 10 Shrike Street, , WILLOW ACRES, 0181 - *Mokoena*

528. Bandile Tshabalala - 061125 5278 *** - Emvubukazi, , UMZIMKHULU, 3297 - *Jokazi*

529. Simphiwe Mtshali - 060725 6456 *** - Sabokwe Reserve, , RICHARDS BAY, 3900 - *Mthethwa*

530. Zwelisha Gift Mngomezulu - 041012 6062 *** - Kwa-Ndaya Reserve, , ESIKHALENI, 3887 - *Mhlongo*

531. Simayedwa Ngcobo - 051129 6516 *** - Harry Gwala Hospital, Khatha Location, , IMPENDLE, 3227 - *Gasa*

532. Siyabonga Andiswa Mthethwa - 051021 6119 *** - Oqondweni Area, , MBAZWANA, 3974 - *Zikhali*

533. Siphokuhle Asande Dlamini - 050120 6170 *** - Ngolotsha Area, , NONGOMA, 3950 - *Dladla*

534. Njabulo Siboniso Mbatha - 050907 5777 *** - Magogo Area, , NQUTU, 3135 - *Zulu*

535. Neo Ngubeni - 960920 5495 *** - House No 10711, Extension 17, , BOPHELONG, 1913 - *Mothibedi*

536. Arbednico Banele Zitha - 060827 5231 *** - 1111 Phillip Street, , FINETOWN, 1828 - *Hlongwane*

537. Kaelo Moremi - 061203 5127 *** - 110 Leboko Street, , MOTHIBISTAD, 8474 - *Mosegedi*

538. Nomonde Khanyile - 020317 0161 *** - 779 Bhokolwakhe, Kwamakhutha Township, , AMANZIMTOTI, 4126 - *Duma*

539. Monyaku Priscilla Chaba - 790724 0313 *** - 978 Mokope Street, Block WW, , SOSHANGUVE, 0152 - *Sefanyetso*

540. Bulelwa July - 780513 0461 *** - Thembeni Location, , KING WILLIAMS TOWN, 5600 - *Copiso*

541. Thabang Vincent Marumo - 890219 5662 *** - House No 70329, Rakgolo Section, , BODIBE, 2741 - *Matlawe*

542. Thokozani Innocent Zwane - 830317 5690 *** - House No M1069, Section 7, , MADADENI, 2951 - *Mayisela*

543. Malusi Ayanda Sikunyana - 881010 5815 *** - 2401 Mampuyi Street, Golden Gardens, , SEBOKENG, 1983 - *Gojo*

544. Mohau Manganye - 041110 5843 *** - Selhabeng, , ZEBEDIELA, 0682 - *Shokane*

545. Gomolemo Shaun Itso Lefifi - 050526 5457 *** - House No 5753, Stellenbosch, , TEMBA, 0407 - *Lubisi*

546. Nkosinathi Skhosana - 010207 5480 *** - Stand No 294, Skirlek, , MAMELODI, 0122 - *Sithole*

547. Cosmos Vincent Marriott - 800320 5293 *** - 19B Bergrivier Street, Randlespark, , KLERKSDORP, 2571 - *Shangase*

548. Ngwazi Thato Mahange - 051202 5049 *** - 1898 Bloom Crescent, Fleurhof, Extension 28, SOWETO, 1709 - *Mabunda*

549. Themba Patrick Lesesa - 980525 5872 *** - 650 Mathobela Street, , VREDE, 9835 - *Dlamini*

550. Tshegofatso Tyson Phuane - 000821 5296 *** - House No 724, Block MM, , SOSHANGUVE, 0152 - *Noni*

551. Thamsanqa Donald Phumo - 870326 5672 *** - House No 491 , Mapoteng Village, , KURUMAN, 8460 - *Motshedi*

552. Andries Kobela Manganye - 780919 6004 *** - Stand No 20089, , SEABE, 0417 - *Tswai*

553. Athe Fortune Motsisi - 910409 5671 *** - 1312 Nyalatree Street, Magalies Country Estate, , AMANDASIG, 0182 - *Maithufi*

554. Godfrey Neo Mlilo - 050328 5993 *** - 33158 Sompisi Street, Extension 17, , MAMELODI EAST, 0122 - *Thiswana*

555. Phumla Gumede - 880109 0961 *** - 5057 Shayamoya , KOKSTAD, 4700 - *Siwela*

556. Thabang Mapeka - 910619 6067 *** - 12 Van Rensburg Street, , HENNENMAN, 9445 - *Hlalele*

557. Khethukuthula Ntokozo Ncala - 060520 5762 *** - Watersmeet Area, , LADYSMITH, 3370 - *Hadebe*

558. Tshepo Joseph Maponya - 000413 5770 *** - 532 Mashashane, Boetse Village, , PRETORIA, 0743 - *Mabunda*

559. Gift Mduduzi Ngema - 840320 5952 *** - 4926 Ubhokotshiki Street, Meadowlands, Zone 4, SOWETO, 1852 - *Mogotsi*

560. Qhayiya Sixolile Tshongweni - 050912 1427 *** - Goso, , MOUNT AYLIFF, 4735 - *Mbele*

561. Asivile Alutha Mcunukelwa - 060327 0154 *** - 63 Mlanjeni Street, Extension 4, , MFULENI, 7100 - *Komanisi*

562. Pontsho Constance Sepale - 970530 0545 *** - House No 25562, Extension 78, , POLOKWANE, 0699 - *Kobola*

563. Luyolo Socikwa - 031113 0152 *** - 6A Maxwell Macdonald Street, Glenadriene, , SANDTON, 2196 - *Mnqandi*

564. Amahle Sovendle - 061123 1404 *** - Mbutho Village, , TSOLO, 5170 - *Yawa*

565. Banele Kamogelo Maseko - 030224 0630 *** - 5112 Chakalas Street, Extension 2, , MHLUZI, 1055 - *Mabitse*

566. Nombulelo Mkwanazi - 840403 1205 *** - 5739 Mbulelo Street, Zone 5, Diepkloof, SOWETO, 1864 - *Gantshontsho*

567. Rethabile Tiisetso Makgoba - 051209 0328 *** - Stand No 288, Moletjie, , GA-RAMPHELE, 0709 - *Makibelo*

568. Philisiwe Peacemaker Magudulela - 950612 0822 *** - House No 3644, , OSIZWENI, 2952 - *Mbatha*

569. Tatenda Lucia Sehako - 060314 0509 *** - 89 Chris Street, Albermarle, , GERMISTON, 1401 - *Chauke*

570. Vanecia Ramasela Thubakgale - 060621 0324 *** - 2143 Leratong Street, Mosesetjane, , MOKOPANE, 0600 - *Seroba*

571. Entle Xiluva Patleswana - 041129 0661 *** - 2374 Patsy Molefo Street, Mahube Valley, , MAMELODI, 0122 - *Manganyi*

572. Khutso Desry Sekole - 961223 0792 *** - Plot 8 Moonlight Road, , OLIFANTSFONTEIN, 1666 - *Mailula*

573. Janré Bothma - 060623 5026 *** - 103 Hermanus Beach Club, , HERMANUS , 7200 - *Fourie*

574. Siyabonga Madi - 890929 5339 *** - House No 4257, Ward 17, , OSIZWENI, 2952 - *Zwane*

575. Rofhiwa Collen Mudau - 940514 5584 *** - 2 Ostend Road, Delville, , GERMISTON, 1401 - *Maise*

576. Neo Amokelane Mabunda - 060328 5190 *** - House No 27261 , Extension 6, , SOSHANGUVE, 0152 - *Masilela*

577. Wandile Letlape - 030915 5301 *** - 69 Wilbur Woods, 14 Curie Road, , REMBRANDT PARK, 2090 - *Zulu*

578. Lwazi Prince Xolo - 060313 5531 *** - 50 Mclrose Gate, 3 Woodhoek Close, , MELROSE WORTH, 2196 - *Canham*

579. Zamokuhle Lacus Zungula - 040819 5960 *** - House No 3145, Shayamoya , KOKSTAD, 4700 - *Sabile*

580. Paballo Atzerious Majova - 000311 5239 *** - 3819 Taita Falcon Street, , PRETORIA, 0183 - *Mongale*

581. Lesedi Lawson Nkitle - 980222 5226 *** - 9 Kgopisho Street, Vergenoeg, , KIMBERLEY, 8345 - *Moseki*

582. Happy Kamogelo Matlala - 011224 5147 *** - 21674 Maricco Barb Street, Extension 7, , SOSHANGUVE, 0152 - *Ngobeni*

583. Risana Ritlhavile Malwani - 030501 5413 *** - 2631 Mere Street, Zone 2, , GA-RANKUWA, 0208 - *Mashego*

584. Khanya Selokelo - 031231 5465 *** - 23 Gardenia Street, , WESTONARIA, 1779 - *Motsoari*

585. Hlayiseka Tendercare Amukelani Radingoana - 060106 5085 *** - 29613 Nkwe Street, Extension 5, , MAMELODI, 0122 - *Kubayi*

586. Kamogelo Tshiamo Mike Shirindi - 040901 5248 *** - 9 Azania Street, , LEPHALALE, 0577 - *Pole*

587. Lethabo Omphemetse James Shirindi - 061123 5697 *** - 09 Azania Street, , LEPHALALE, 0577 - *Pole*

588. Thuto Godfrey Lehihi - 941117 5468 *** - 1086 Lucas Street, Tswelelang, , WOLMARANSSTAD, 2630 - *Mdledle*

589. Robert Bongani Mngomezulu - 840129 5270 *** - 186 Sugar bird Close, Rabie Ridge, , MIDRAND, 1685 - *Johnson*

590. Phumlani Mdunge - 820618 5491 *** - House No 356, GG Section, Snathing, EDENDALE, 3201 - *Mkhize*

591. Qiniso Siyabonga Mbatha - 990510 5550 *** - 262 Chris Hani Road, Dlamini, , SOWETO, 1818 - *Nkosi*

592. Thobane Dennies Matshatsha - 860420 6092 *** - 5089 Matome Street, Section P, , MAMELODI WEST, 0112 - *Mapheto*

593. Solethu Nofonta - 050917 5292 *** - Qhankqu Area, , LIBODE, 5160 - *Njara*

594. Tharollo Jollity Mabelane - 061231 5314 *** - House No 53729, Extension 14, , SOSHANGUVE, 0152 - *Makofane*

595. Luthando Gqwede - 061122 6219 *** - Mabobo Area, , MOUNT FRERE, 5090 - *Kakaza*

596. Tshedimosho Evidence Maja - 041225 6086 *** - Sefoteng, , ATOK, 0739 - *Mashako*

597. Carsen Theunissen - 061218 5221 *** - 8 Malva Street, Lentegeur, , MITCHELLS PLAIN, 7785 - *Sadie*

598. Wian Sutton - 060916 5137 *** - 976B Swartpiek, Shawu Estate, , NINAPARK, 0182 - *Du Preez*

599. Boikhutso Molefe - 041209 5828 *** - House No 534, Mocha Section, , PANKOP, 0414 - *Pule*

600. Abel Vuzimusi Semela - 030426 5401 *** - House No BB517, Robega Section, , CHANENG, 0310 - *Zwane*

601. Diale Percy Motaung - 720624 5785 *** - House No 1653, , TEMBA, 0407 - *Mokobodi*

602. Vitori Hugo Goliath - 001007 5057 *** - 10 Buckhurst Road, Epping Forest, , ELSIES RIVER, 7490 - *Willemse*

603. Qhayiya Sixolile Tshongweni - 050912 1427 *** - Goso, , MOUNT AYLIFF, 4735 - *Mbele*

604. Asivile Alutha Mcunukelwa - 060327 0154 *** - 63 Mlanjeni Street, Extension 4, , MFULENI, 7100 - *Komanisi*

605. Pontsho Constance Sepale - 970530 0545 *** - House No 25562, Extension 78, , POLOKWANE, 0699 - *Kobola*

606. Luyolo Socikwa - 031113 0152 *** - 6A Maxwell Macdonald Street, Glenadriene, , SANDTON, 2196 - *Mnqandi*

607. Amahle Sovendle - 061123 1404 *** - Mbutho Village, , TSOLO, 5170 - *Yawa*

608. Banele Kamogelo Maseko - 030224 0630 *** - 5112 Chakalas Street, Extension 2, , MHLUZI, 1055 - *Mabitse*

609. Nombulelo Mkwanazi - 840403 1205 *** - 5739 Mbulelo Street, Zone 5, Diepkloof, SOWETO, 1864 - *Gantshontsho*

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611. Philisiwe Peacemaker Magudulela - 950612 0822 *** - House No 3644, , OSIZWENI, 2952 - *Mbatha*

612. Tatenda Lucia Sehako - 060314 0509 *** - 89 Chris Street, Albermarle, , GERMISTON, 1401 - *Chauke*

613. Vanecia Ramasela Thubakgale - 060621 0324 *** - 2143 Leratong Street, Mosesetjane, , MOKOPANE, 0600 - *Seroba*

614. Entle Xiluva Patleswana - 041129 0661 *** - 2374 Patsy Molefo Street, Mahube Valley, , MAMELODI, 0122 - *Manganyi*

615. Khutso Desry Sekole - 961223 0792 *** - Plot 8 Moonlight Road, , OLIFANTSFONTEIN, 1666 - *Mailula*

616. Janré Bothma - 060623 5026 *** - 103 Hermanus Beach Club, , HERMANUS , 7200 - *Fourie*

617. Siyabonga Madi - 890929 5339 *** - House No 4257, Ward 17, , OSIZWENI, 2952 - *Zwane*

618. Rofhiwa Collen Mudau - 940514 5584 *** - 2 Ostend Road, Delville, , GERMISTON, 1401 - *Maise*

619. Neo Amokelane Mabunda - 060328 5190 *** - House No 27261 , Extension 6, , SOSHANGUVE, 0152 - *Masilela*

620. Wandile Letlape - 030915 5301 *** - 69 Wilbur Woods, 14 Curie Road, , REMBRANDT PARK, 2090 - *Zulu*

621. Lwazi Prince Xolo - 060313 5531 *** - 50 Mclrose Gate, 3 Woodhoek Close, , MELROSE WORTH, 2196 - *Canham*

622. Zamokuhle Lacus Zungula - 040819 5960 *** - House No 3145, Shayamoya , KOKSTAD, 4700 - *Sabile*

623. Paballo Atzerious Majova - 000311 5239 *** - 3819 Taita Falcon Street, , PRETORIA, 0183 - *Mongale*

624. Lesedi Lawson Nkitle - 980222 5226 *** - 9 Kgopisho Street, Vergenoeg, , KIMBERLEY, 8345 - *Moseki*

625. Happy Kamogelo Matlala - 011224 5147 *** - 21674 Maricco Barb Street, Extension 7, , SOSHANGUVE, 0152 - *Ngobeni*

626. Risana Ritlhavile Malwani - 030501 5413 *** - 2631 Mere Street, Zone 2, , GA-RANKUWA, 0208 - *Mashego*

627. Khanya Selokelo - 031231 5465 *** - 23 Gardenia Street, , WESTONARIA, 1779 - *Motsoari*

628. Hlayiseka Tendercare Amukelani Radingoana - 060106 5085 *** - 29613 Nkwe Street, Extension 5, , MAMELODI, 0122 - *Kubayi*

629. Kamogelo Tshiamo Mike Shirindi - 040901 5248 *** - 9 Azania Street, , LEPHALALE, 0577 - *Pole*

630. Lethabo Omphemetse James Shirindi - 061123 5697 *** - 09 Azania Street, , LEPALALE, 0577 - *Pole*

631. Thuto Godfrey Lehihi - 941117 5468 *** - 1086 Lucas Street, Tswelelang, , WOLMARANSSTAD, 2630 - *Mdledle*

632. Robert Bongani Mngomezulu - 840129 5270 *** - 186 Sugar bird Close, Rabie Ridge, , MIDRAND, 1685 - *Johnson*

633. Phumlani Mdunge - 820618 5491 *** - House No 356, GG Section, Snathing, EDENDALE, 3201 - *Mkhize*

634. Qiniso Siyabonga Mbatha - 990510 5550 *** - 262 Chris Hani Road, Dlamini, , SOWETO, 1818 - *Nkosi*

635. Thobane Dennies Matshatsha - 860420 6092 *** - 5089 Matome Street, Section P, , MAMELODI WEST, 0112 - *Mapheto*

636. Solethu Nofonta - 050917 5292 *** - Qhankqu Area, , LIBODE, 5160 - *Njara*

637. Tharollo Jollity Mabelane - 061231 5314 *** - House No 53729, Extension 14, , SOSHANGUVE, 0152 - *Makofane*

638. Luthando Gqwede - 061122 6219 *** - Mabobo Area, , MOUNT FRERE, 5090 - *Kakaza*

639. Tshedimosho Evidence Maja - 041225 6086 *** - Sefoteng, , ATOK, 0739 - *Mashako*

640. Carsen Theunissen - 061218 5221 *** - 8 Malva Street, Lentegeur, , MITCHELLS PLAIN, 7785 - *Sadie*

641. Wian Sutton - 060916 5137 *** - 976B Swartpiek, Shawu Estate, , NINAPARK, 0182 - *Du Preez*

642. Boikhutso Molefe - 041209 5828 *** - House No 534, Mocha Section, , PANKOP, 0414 - *Pule*

643. Abel Vuzimusi Semela - 030426 5401 *** - House No BB517, Robega Section, , CHANENG, 0310 - *Zwane*

644. Diale Percy Motaung - 720624 5785 *** - House No 1653, , TEMBA, 0407 - *Mokobodi*

645. Vitori Hugo Goliath - 001007 5057 *** - 10 Buckhurst Road, Epping Forest, , ELSIES RIVER, 7490 - *Willemse*

646. Remofilwe Mphekgwane - 060319 0157 *** - 3251 Walter Masemola, Alexandra Far East Bank, Phase 2, ALEXANDRA, 2090 - *Moswethe*

647. Mavila Angel Mangoane - 041007 0749 *** - House No 2697, Phase 1, Oukasie, BRITS, 0250 - *Chauke*

648. Omphemetse Thabe - 060713 0083 *** - House No 3184, Block U, , MABOPANE, 0190 - *Mphake*

649. Ziyanda Ndzabela - 060614 0432 *** - 04 Elizabeth Eybers, Dalpark, , BRAKPAN, 1541 - *Khanye*

650. Busisiwe Diniso - 041208 0099 *** - 2301 Mxhomi Street, Zone 2, , DIEPKLOOF, 1864 - *Vilakazi*

651. Olugaho Mudogwa - 040904 1264 *** - 21 Modumbla Street, Lotus Gardens, , PRETORIA, 0025 - *Radzilani*

652. Buhle Nompandana - 040611 1210 *** - House No C254, Nigeria Area, , AMAOTANA, 4309 - *Simelane*

653. Nokubonga Miya - 990628 1455 *** - 189 Gumtree Avenue, Berea Centr, , DURBAN, 4001 - *Mazibuko*

654. Robert Neo Sebopa - 040725 5106 *** - House No 2751, Extension 1, Refilwe, CULLINAN, 1003 - *Mokoena*

655. Mantsororo Humphrey Makola - 830706 5776 *** - G201 Ecopark East, 14 Panfluit Street, Highveld, CENTURION, 0157 - *Sekhaulelo*

656. Lisenathi Mvakwendlu - 031204 6088 *** - Masakala Area, , MATATIELE, 4730 - *Mbolekwa*

657. Alwande Asiphe Mathenjwa - 061006 6057 *** - House No E9074, Section 5, , MADADENI, 2951 - *Nyembe*

658. Qiniso Magwaza - 020919 5826 *** F1811 Ibhubesi road, Ntuzuma Township, , DURBAN, 4023 - *Radebe*

659. Masiluve Siguca - 051218 6047 *** - Ntabelanga Area, , TSOLO, 5170 - *Mkiva*

660. Siphesihle Andreas Nkomo - 040721 5769 *** - 135 Foreman Road, Clare Estate, , DURBAN, 4091 - *Jwara*

661. Lancelot Sipho Mabua - 060528 5929 *** - 20 Tafelboom Street, Leondale, , GERMISTON, 1401 - *Made*

662. Onthatile Gaobuse - 030628 5687 *** - House No 719C, Ditshilong, , TAUNG, 8584 - *Twasing*

663. Mduduzi Charles Nhleko - 800414 5584 *** - 36 Albreaht Street, Sunward Park, , BOKSBURG, 1475 - *Hlatshwayo*

664. Phethego Ditshego - 050712 5793 *** - 18 Elandsdoorn, , DENNILTON, 1030 - *Makuwa*

665. Thabiso Ephraim Tjale - 060326 5120 *** - 169 Jacoba Road, Gold Lake Estate, , ALBERMARLE, 1401 - *Mothube*

666. Falakhe Matthews Khumalo - 661025 5719 *** - Imbubu Location, , PIETERMARITZBURG, 3201 - *Mzolo*

667. Mabuya Collins Masola - 060321 5640 *** - House No M1595, Section 7, , MADADENI, 2951 - *Msibi*

668. Thato Sello - 030127 5677 *** - House No 823, Section G, , BOTSHABELO, 9781 - *Hlohlongoane*

669. Kagiso Thando Mabua - 040622 5424 *** - 20 Tafelboom Street, Leondale, , GERMISTON, 1401 - *Made*

670. Amohelang Elmon Lesoetsa - 051018 5161 *** - Kroomspruit Village, , STERKSPRUIT, 9400 - *Nkomo*

671. Khotso Moses Setilo - 870618 6038 *** - 2612 Malele Street, Wallville, , BENONI, 1501 - *Mofokeng*

672. Theophilus Elethu Sicwebu - 980923 5298 *** - 25 Impala Moya Walk, Wiggins, , MAYVILLE, 4091 - *Sayedwa*

673. Londiwe Bridget Masombuka - 030527 0732 *** - 7026 Tola Crescent, Mhluzi, , MIDDELBURG, 1055 - *Nkomo*

674. Mahlatse Koena Chipu - 031225 0504 *** - Private Bag 229, , ROMATATANE, 0630 - *Mpebe*

675. Karabo Luthando Ntlemeza - 050601 0219 *** - 18154 Mohale Street, Diepkloof, Zone 4, SOWETO, 2095 - *Finger*

676. Itumeleng Hope Mothobi - 030317 0425 *** - House No 19164, , SOSHANGUVE, 0152 - *Muthimunye*

677. Sanele Siceluxolo Molefe - 040903 0926 *** - House No R1721, Section 7, , MADADENI, 2951 - *Tshabalala*

678. Tshedza Tharage - 040203 0172 *** - 30 Mount Emmons Street, Midstream Estates, , CENTURION, 1692 - *Vele*

679. Sinesipho Dyan - 061208 0777 *** - 27651 Tromp Road, Missionvale, , GQEBERHA, 6059 - *Mpahla*

680. Anjelica Jillian Viveiros - 030522 0161 *** - 31 School Avenue, , SUNNYRIDGE, 1401 - *Buttle*

681. Anothando Mvubu - 051226 0616 *** - B 39 A Themba Crescent, , MFULENI, 7100 - *Mothobi*

682. Liesbeth Margaret Skrermanes - 060130 1235 *** - 737 Morulane Street, , REBONE, 0617 - *Majadibodu*

683. Mohau Monky - 031102 6082 *** - House No 3634 , Phase 3, Tshepiso, SHARPVILLE, 1900 - *Monku*

684. Wandile Mesuli Mhlongo - 000712 6366 *** - 1000 Okaki Street, New Canada, , SOWETO, 1804 - *Khuzwayo*

685. Luthando Mthembu - 040522 5587 *** - G 1551 Umgwenya Crescent, , UMLAZI, 4066 - *Xolo*

686. Kgothatso Masetle Molapo - 051030 5614 *** - House No 14A, , BURGERSDORP, 0857 - *Botabota*

687. Rapule Willem Matheolana - 930303 5562 *** - 146489 Konings Street, Promosa, , POTCHEFSTROOM, 2531 - *Seleke*

688. Tebogo Solly Masimene - 041110 5227 *** - House No 30039, Morwe Village, , SELEKA, 0621 - *Mashamaite*

689. Oratile Moleme - 051120 6153 *** - 17812 Lebaleng Street, , JOUBERTON, 2574 - *Moruti*

690. Mxolisi Malete - 980923 5407 *** - 3904 Kanana Street, Extension 22, , HAMMANSKRAAL, 0001 - *Hlatshiwayo*

691. Khomotso Malope - 061123 6417 *** - Stand No 642, , MAGANA, 0400 - *Matemotja*

692. Apiwe Nyanga - 010720 5849 *** - 20309 Ben Moloise Street, Mandela Park, , KHAYELITSHA, 7784 - *Mlindi*

693. Lilitha Jali - 030330 5267 *** - 60 – 138 Abraham Tiro Street, Kuyasa, , KHAYELITSHA, 7784 - *Mzwakali*

694. Kgositsile Makabongwe Mabuza - 050509 6332 *** - 3075 Motaung Street, , DUDUZA, 1496 - *Mongale*

695. Bonsa Stimela - 060815 6511 *** - 5 – 7th Avenue, , SPRINGS, 1550 - *Abdella*

696. Mohau Lesly Ramakgolela - 060601 6256 *** - House No 5765, Section 09, , MASHEMONG, 0402 - *Mabase*

697. Mkululi Magazi - 721210 5913 *** - 17442 Road 40, Betterlife, , PHILIPI, 7785 - *Mbelani*

698. Condry Hlungwana - 980811 6074 *** - Bakale, , ACORNHOEK, 1360 - *Machabe*

699. Calvin Keamogetse Moloto - 940127 5525 *** - House No 179, Block UU, , SOSHANGUVE, 0152 - *Motshegoa*

700. Ditshitiso Joseph Hlahane - 660618 5767 *** - House No 1374, Section L, , SOSHANGUVE, 0152 - *Mashigo*

701. Azwinndini Archibald Nkhwatshirema - 910919 5855 *** - Stand No 620, Garden View, Ga-Makhushane, PHALABORWA, 1390 - *Maugana*

702. Tumi Mahlakwane - 060421 6277 *** - 1980 Impangele Street, Ramaphosa , Extension 5, BOKSBURG, 1459 - *Mohlolo*

703. Tshepiso Fambe - 020111 5539 *** - 1885 Sobukwe Street, Protea North, , SOWETO, 1818 - *Malope*

704. Ziphokuhle Mthokozisi Mhlongo - 910112 5742 *** - D 16 Xamu Road, , NTUZUMA, 4359 - *Khumalo*

705. Paul Zwane - 770116 5789 *** - 292 Kututsha Street, Dube Village, , SOWETO, 1800 - *Mkize*

706. Kgokedi Army Tokotse - 800827 5484 *** - Mohlaledi, , SEKHUKHUNE, 1124 - *Debeila*

707. Nnini Julia Nkone - 921116 0134 *** - Matlhonyane Village, , MAHIKENG, 2745 - *Magengenene*

708. Elsie Mpho Pete - 010926 0612 *** - House No 2737, Extension 1, , KANANA, 0400 - *Kgwale*

709. Mpho Cenenda - 871011 0218 *** - 270 Dube Street, , VOSLOORUS, 1400 - *Mpela*

710. Sevenzile Nkhwashu - 030718 0803 *** - Stand No 1249, Dan Village, , TZANEEN, 0870 - *Mabaso*

711. Wanga Mudau - 041024 0349 *** - Dopeni, , THOHOYANDOU, 0970 - *Manyaga*

712. Lindiwe Pamela Msomi - 990831 0434 *** - House No Y2276, Umlazi Township, , UMLAZI, 4031 - *Ngobese*

713. Quanitah De Wet - 820330 0281 *** - 7 Pelikaan Street, , KUILSRIVER, 7580 - *Raciet*

714. Owethu Idah Mbaya - 050226 0510 *** - Mfekayi, , MTUBATUBA, 3935 - *Mbuyazi*

715. Namile Neliswa Biyela - 040122 0861 *** - Madlankala Area, , ESIKHAWINI, 3887 - *Mfeka*

716. Tshiamiso Precious Oleseng - 050410 1000 *** - House No A37, Matloding Village, , MOROKWENG, 8614 - *Thekisho*

717. Thobeka Noluthando Bulayi - 051225 0568 *** - House No L87, Section 7, , MADADENI, 2951 - *Mafuleka*

718. Lucia Adri Smuts - 051111 0628 *** - 20 Linttot Street, Wilgenhof, , KROONSTAD, 9499 - *Schoeman*

719. Snothando Zombuso Vilakazi - 060322 0665 *** - 19 Marianridge Drive, , PINETOWN, 3610 - *Khanyile*

720. Londiwe Zibuyile Ngwenya - 060713 1596 *** - 828 Ingwempisi Street, Senaone, , SOWETO, 1818 - *Ncanana*

721. Kgobosho Jane Segobo - 850106 0799 *** - 1 Flat Fichant Street, , SASOLBURG, 1947 - *Sinakgomo*

722. Mapaseka Keamogetswe Hlalele - 060414 0313 *** - 1086 Igwali Street, , NELLMAPIUS, 0122 - *Choshane*

723. Seboke Rhosion Matlou - 880610 0558 *** - Stand No 1999, Mogapeng Village, , TZANEEN, 0850 - *Moropane*

724. Robert Debeer Abie - 050510 5277 *** - 2 Lucas Street, , ELDORADO PARK, 1811 - *Marks*

725. Kgetho Kemoratile Nkosana Mtsweni - 050208 6224 *** - 770 Phase 2, Samorose, , NASARET, 1055 - *Mohlala*

726. Levy Tjale - 871122 5423 *** - House No 4449, Rampere Section, , MATHIBESTAD, 0418 - *Mathabe*

727. Dakalo Nethenzheni - 040806 5478 *** - Stand No 449, Vondwe, , THOHOYANDOU, 0950 - *Nemakonde*

728. Lehlohonolo Nkosi - 940828 5584 *** - 41943 Lekoela Street, Extension 19, , BRAKPAN, 1550 - *Mokoena*

729. Wenzile Cibane - 000825 6266 *** - Ndwedwe Mission, , NDWEDWE, 4342 - *Mdletshe*

730. Kagiso Neo Valentino Moletsane - 030214 5319 *** - 4453 Mareka Street, , SHARPEVILLE, 1928 - *Sereetsi*

731. Akhona Tyatya - 061003 5977 *** - 1123 Kagiso Heights, , KAREEDOUW, 0400 - *Persent*

732. Vhuthuhawe Lethole - 041208 5264 *** - Stand No 118, Sinthumule, Zone 2, MADOMBIDZHA, 0921 - *Ramaru*

733. Siyethemba Nkanyiso Vilane - 980623 5679 *** - 15388 Banana Street, Tsalane, , BRAKPAN, 1550 - *Mthembu*

734. Isaac Cebelihle Mofokeng - 810318 5816 *** - House No A 826, Section 1, , MADADENI, 2981 - *Sibiya*

735. Arnold Modiba - 050926 5419 *** - House No 2010, T Section, , BOTSHABELO, 9781 - *Mohlabane*

736. Jason Deon Minnie - 041013 5098 *** - 6 Grysbok Laan, , STILBAY, 4674 - *Jooste*

737. Gregory Musawenkosi Shobede - 761126 6049 *** - 111 Platt Drive, Isipingo Hills, , PROSPECTON, 4031 - *Lushozi*

738. Buhlebenkosi Mathibela - 010710 5197 *** - 128 Bidston Road, , DURBAN, 4001 - *Mthalane*

739. Thyron Lee Bosman - 041218 5312 *** - 52 Wren Street, Rant En Dal, , KRUGERSDORP, 1751 - *Vosloo*

740. Elvis Thabo Masideni - 790219 5521 *** - 27 Dahlia Street, Azalea Section, , STANDERTON, 2430 - *Selepe*

741. Jabulani Nkanyiso Mazibuko - 880718 5360 *** - Kwamzwezwe Area, Coronation, , VRYHEID, 3100 - *Zulu*

742. Joseph Lesetja Manamela - 800101 5640 *** - House No 153, Zone 1, , SESHEGO, 0742 - *Monama*

743. Marvyn Tshepo Mokgatlhane - 741212 6183 *** - House No 1706, Ntswane Section, , HAMMANSKRAAL, 0159 - *Marima*

744. Hlengi Sayco Ngwenya - 010929 5304 *** - Stand No 312, , ELUKWATINI, 1192 - *Fakude*

745. Buti Abie Mothupi - 740207 5775 *** - 26 Porchepstroom Street, , EVANDER, 2280 - *Nkosi*

746. Elias Madige Msiza - 770911 678 *** - 48 Suikerbekkie Avenue, Rooihuiskraal, , CENTURION, 0157 - *Taumang*

747. Zakhele France Motaung - 720803 5995 *** - 1110 Mnguni Street, Thokoza, , ALBERTON, 1450 - *Gumbi*

748. Lucas Buti Motaung - 910603 5437 *** - 33 Tato Street, 170 Tsenelong, , TEMBISA, 1632 - *Malatjie*

749. Katlego Dilebo - 870920 5476 *** - 2906 Canberra Street, Chief A Luthuli, , DAVEYTON, 1520 - *Mashego*

750. Luncedo Cristopher Jack - 830926 5641 *** - 05 Wilters Street, Cruywagen Park, , GERMISTON, 1428 - *Sishuta*

751. Oratile Siyabonga Nelani - 040623 5534 *** - House No 9522, Protea Glen, Extension 12, SOWETO, 1818 - *Mosimanyana*

752. Patrick Vusi Mahlangu - 890225 5450 *** - 20838 Ntsoanne Crescent, , ETWATWA WEST, 1507 - *Madonsela*

753. Phumlani Petros Gansa - 850926 5414 *** - House No 406188, Mzinyathi Area, , INANDA, 4310 - *Mhlamvu*

754. Ayanda Vezokuhle Nyathi - 061202 6158 *** - 1 – 11th Street, Pageview, , JOHANNESBURG, 3310 - *Mbatha*

755. Elias Themba Skosana - 790617 5472 *** - House No 4470, Block F2, , NEW EERSTERUS, 0400 - *Mthimunye*

756. Mbuso Jiwa - 990618 5191 *** - House No 444, Twala Section, , KATLEHONG, 1431 - *Dube*

757. Matuba Abisai Manganye - 740922 5801 *** - 20087 Lehabane Section, Seabe Village, , SIYABUSWA, 0417 - *Tswai*

758. Londa Hlophe - 950929 6104 *** - Q16 Bhambatha Road, Ashdown, , PIETERMARITZBURG, 3201 - *Mthalane*

759. Rendani Sithagu - 930207 5788 *** - Tshituni Gavhe, , DZANANI, 0955 - *Mbodi*

760. Lunga Mthethwa - 980414 5113 *** - 1256A Magaret Street, Extension 1, , GELUKSDAL, 1550 - *Phakathi*

761. Morgan Ngomane - 050918 6169 *** - Casteel Stand No 023, Next to Alfred High, , BUSHBUCKRIDGE, 1280 - *Shubane*

762. Syamthanda Kabelo Madela - 060706 5319 *** - 193 President Swart Avenue, Hillview, , EMPANGENI, 3880 - *Khumalo*

763. Ntuthuko Clive Mthembu - 950120 5272 *** - 89 Helen Joseph Street, Glenwood, , DURBAN, 4001 - *Dludla*

764. Lungelo Alfred Gqamane - 700603 6159 *** - House No 988, Tolofiyeni Location, , KING WILLIAMS TOWN, 5600 - *Bombo*

765. Siphesihle Ennocent Jiyane - 060130 5777 *** - 1972 Phola Park, , KWAMHLANGA, 1022 - *Mtsweni*

766. Thulani Perseverence Maema - 050916 5746 *** - House No 1272 F, , BOTSHABELO, 9781 - *Kholomba*

767. Themba Bonginkosi Kubeka - 041217 5992 *** - Bhadeni Area, Ward 6, , EDUMBE, 3180 - *Khumalo*

768. Thulani Knowledge Sambo - 870428 5622 *** - Stand No 1000, , LANGELOOPE, 1337 - *Mhlongo*

769. Dumazan Nzuza - 760103 5865 *** - Sobantu, , PIETERMARITZBURG, 3200 - *Ngcobo*

770. Olerato Olehile Pebane - 070106 5613 *** - 3074 Mello Crecent, Kgobong, , BOTHAVILLE, 9660 - *Monye*

771. Themba Clive Phukane - 980202 5351 *** - House No 8590, Extension 11, Evaton West, EVATON, 1984 - *Mthethwa*

772. Samkelo Mtambo - 001011 5758 *** - House No R893, , UMLAZI, 4066 - *Gumede*

773. Ipfi Mulaudzi - 970430 5409 *** - 444 Mashau Thondoni, , HA-MASHAU, 0943 - *Maraga*

774. Elsie Dipuo Senye - 870825 0902 *** - 7791 Moshe Kantani, Rebirile, , KIMBERLEY, 2745 - *Selemogo*

775. Asanda Ngubane - 030921 1018 *** - 25 Aventurine Way, Copesville, , PIETERMARITZBURG, 3201 - *Myeza*

776. Sekome Pescida Malatji - 040922 1157 *** - Stand No 418, Shikwane Village, , TRICHARDTSDAL, 0890 - *Mahlakwane*

777. Stella Lebohang Ndhlovu - 820225 0324 *** - 1120 Delta-Close , Crescentwood Estate, , MIDRAND, 1687 - *Mohatlane*

778. Kananelo Leah Tsegofatso Mhlongo - 050928 0825 *** - 68 – 5th Avenue, , EDENVALE, 1609 - *Ramolodi*

779. Malwanduthando Olwethu Ndlovu - 040802 0440 *** - No 1492, Imbali Unit 13, , PIETERMARITZBURG, 3200 - *Mbhele*

780. Thandolwethu Londiwe Zwezwe - 050325 0212 *** - B220 Sulubha Road, Illovo Township, , AMANZIMTOTI, 4126 - *Dube*

781. Paballo Radebe - 001213 0724 *** - 5891 Moshoeshoe Road, Phahameng, , BLOEMFONTEIN, 9323 - *Lefisoane*

782. Phumlile Mjoka - 000122 0415 *** - Phezukomkhono Area, , UMBUMBULU, 4105 - *Kweyama*

783. Ayabonga Matemba - 050603 0855 *** - 13 Gxiya Street, , KHAYELITSHA, 7784 - *Mwanda*

784. Tsholofelo Williams - 041118 1198 *** - House No 10392, G S Phok, , MADIBOGO, 2772 - *Modise*

785. Itumeleng Ramashala - 880604 1185 *** - 10199 Reservoir Street, Windmill Park, , BOKSBURG, 1459 - *Mosito*

786. Nonkululeko Zandile Mdladla - 850128 0005 *** - 80 Tucker Street, , JULES, 1400 - *Ndebele*

787. Linda Ann Day - 050905 0929 *** - 8 Van Den Heever Street, , ORKNEY, 2619 - *Ralph*

788. Khanyisile Khothe - 980303 1711 *** - 1443 J B Mafora Street, , BLOEMFONTEIN, 9323 - *Khumalo*

789. Esther Nodolly Shaku - 060920 0761 *** - Sekurung, , MPHAHLELE, 0236 - *Mathabatha*

790. Keitumetse Pooe - 010719 0306 *** - 40A Fairwood Avenue, , THE ORCHARDS, 0782 - *Leshoe*

791. Inosecia Metsing - 930706 0470 *** - 566 Plaza Road, , BEAUFORT WEST, 6970 - *Lebowa*

792. Mmapula Evelyn Sitoe - 631014 0846 *** - House No 14921, Extension 11, , SOSHANGUVE, 0152 - *Madi*

793. Bongiwe Mathiso - 940529 1025 *** - Sandile Area, , NGCOBO, 5080 - *Tawe*

794. Mokau Evelyn Mashilo - 911202 1195 *** - 500 Sokhulumi Street, Section C, , BRONKHORSTSPRUIT, 1020 - *Phora*

795. Luyanda Noxolo Gumede - 061203 0958 *** - 1817 Thembeni, , KWADUKUZA, 4450 - *Bhengu*

796. Sipiwento Lugabazi - 051229 1053 *** - 9015 Rholihlahla Street, , MALMESBURY, 7300 - *Moseki*

797. Anovuyo Jafta - 060305 0581 *** - Nongidi, , UMZIMKHULU, 3297 - *Dlamini*

798. Rethabile Mthumunye - 060603 0401 *** - 2044 Paballong, , WITSIESHOEK, 9870 - *Mokoena*

799. Thando Dabane - 021118 0120 *** - 02 Magndlia Street, Ester Park, , EDENVALE, 1619 - *Mtsweni*

800. Reamohetse Mpho Refiloe Motsepe - 060802 1078 *** - 6010 Kwebu Street, , AKASIA, 0182 - *Mlambo*

801. Meki Julia Lechalaba - 660619 0780 *** - 3121 Skotiphola Street, Tumahole , PARYS, 9585 - *Mkhize*

802. Minenhle Cele - 060218 1410 *** - Amandawe Mission, , SCOTTBURGH, 4180 - *Gumede*

803. Bongeka Valentia Zungu - 050314 0664 *** - 53744 Mtoyedwa Area, , UMBUMBULU, 4105 - *Ndwandwe*

804. Adam Shabane - 820808 5244 *** - 50 Blue Crest Terrace, Bayview, , CHATSWORTH, 4092 - *Ismail*

805. Joseph Kagiso Mothibi - 620715 6060 *** - 159 Du Plessis Street, Danville, Extension 1, PRETORIA WEST, 0183 - *Peele*

806. Tersius Matete Masekoameng - 050213 5582 *** - House No 10068, , CLOETESDAM, 0748 - *Tjale*

807. Tristan Camden Singh - 030405 5135 *** - 4A Blinkblaar Street, , BELA-BELA, 0480 - *Francis*

808. Vincent Montgomeru Sithole - 770315 5371 *** - House No 934, Block H, , SOSHANGUVE, 0152 - *Maswanganyi*

809. Igjaundré Rudolph Lessing - 061030 5416 *** - 14 Paulet Street, , SOMERSET EAST, 5850 - *Stride*

810. Nicholas Keitumetse Senoamadi - 911230 6235 *** - 40 Far East Bank, , ALEXANDRA, 2090 - *Koka*

811. Phillip Moholeng - 850922 6309 *** - 242 Lovebird Street, Palm Springs, Section A, JOHANNESBURG, 1984 - *Molala*

812. Mphostoli Vusi Ndimande - 940809 5900 *** - Ndindima Reserved, Mpangeni, , ESIKHAWINI, 3887 - *Sithole*

813. George Sello Silaluke - 700510 5302 *** - 2 Soetverblyf, Bergrivier Street, Extension 59, TERENURE, 1618 - *Manganye*

814. Mthobisi Thokozani Msweli - 730203 5666 *** - 379 Mgwazeni Street, Shakaville, , KWA DUKUZA, 4450 - *Sibiya*

815. Standford Nare Mabitsela - 880218 5717 *** - Unit 846, Jeffs Place, 133 Francis Baard Street, , PRETORIA, 0001 - *Bothana*

816. Melusi Njabulo Mhlambi - 051228 5241 *** - 9 Guava Street, , ALRA PARK, 1491 - *Mashinini*

817. Samuel Van Niekerk - 930126 6125 *** - 32 – 15th Street, Broadlands Village, , STRAND, 7140 - *Siko*

818. Ndamulelo Hezekiel Nageli - 971213 5037 *** - Stand No 1067, Tshiozwi Village, , LOUIS TRICHARDT, 0920 - *Mthombeni*

819. Sindile Cornelius Munyai - 931023 5706 *** - 4712 Julius Nyerere Street, Extension 5, Diepsloot, RANDBURG, 2189 - *Msibi*

820. Tumelo Andries Manaka - 910917 5445 *** - 9296 Xenon Street, , NELLMAPIUS, 0126 - *Seerane*

821. Matthew Anthony Mikkelsen - 061226 5503 *** - 10 Elizabeth Lane, , CONSTANTIA, 7500 - *Bedford*

822. Sakhiwo Lwazi Vuso - 021004 5050 *** - Ny 21 No 263, , GUGULETHU, 7750 - *Nontolwana*

823. Tiisetso Simon Tjempe - 040521 5470 *** - 3868 Majaneng Street, Mashemong , Section 2, TEMBA, 0407 - *Nokeri*

824. Nature Masocha Macebele - 050525 6113 *** - Stand No 1535, Nkomanini Village, , TZANEEN, 0850 - *Mbhalati*

825. Kamohelo Gabriel Makae - 980517 5705 *** - House No 4325, Extension 4, , SOSHANGUVE SOUTH, 0152 - *Lesige*

826. Simon Selepe Mashilwane - 640612 5703 *** - 1270/1 Slovo Gardens, , WINTERVELDT, 0198 - *Maboi*

827. Erick Bongani Leballo - 001206 5323 *** - 212 Molapo Dumelang Street, , SOWETO, 1868 - *Ncama*

828. Kgahliso Malele - 020122 5812 *** - Stand No M104, Shatale Trust, , BUSHBUCKRIDGE, 1280 - *Mogane*

829. Tshepo Michael Mahlophe - 861009 5742 *** - W64 Caleb Motsabi, , BLOEMFONTEIN, 9300 - *Ngubeni*

830. Mpho David Mashola - 930102 5509 *** - 10 Cycad Cresent, , ONVERWACHT, 0557 - *Mashilo*

831. Thato Matlala - 940926 5153 *** - House No 2319, Zone 9, Meadowlands, SOWETO, 1852 - *Lino*

832. Mpendulo Nkosi - 790731 5420 *** - 410 Sikundu Street, , DAVEYTON, 1520 - *Mahlangu*

833. Itumeleng Stephen Monareng - 700611 5876 *** - 1521 Sebenzisa Street, , KAGISO, 1754 - *Mangole*

834. Tisetso Quincy Kutoana - 970927 5305 *** - H72 Luhlaza Street, Mbekweni, , PAARL, 7646 - *Jenete*

835. Sanele Prince Hlatshwayo - 041229 6227 *** - 3083 Sbetha, , PIET RETIEF, 2380 - *Shongwe*

836. Joseph Siphiwe Khumalo - 810915 6086 *** - 28800 Ramampudu Street, Mamelodi East, , PRETORIA, 0122 - *Mpongo*

837. Daniel Mohomotsi Moholeng - 840221 5953 *** - House No 424, Section A, , PALM SPRINGS, 1984 - *Molala*

838. Peter Moka Ramalatsi - 721111 6034 *** - House No 370A, Radijoko Section, , MARAPYANE, 0412 - *Tlometsane*

839. Elias Nemunzhele - 990529 6121 *** - Stand No 254, Mavhode, Dzimauli, MUTALE, 0975 - *Muthala*

840. Onkgopotse Trust Magojane - 061014 6019 *** - House No 11149, Block 1, , WELGEVAL, 0318 - *Makhura*

841. Kenu Adams - 041103 5492 *** - No 7 Karlga Court, , DELFT, 7100 - *Swartz*

842. Ntando Ntukela - 990929 6311 *** - Tshathogwe Lagos, , MUOZHEDZI, 0948 - *Thivheli*

843. Aobakwe Seoketsa - 050427 5077 *** - 16394 Phorola Street, Extension 12, , SOSHANGUVE, 0152 - *Matlala*

844. Lucky Ramadolela - 911129 5507 *** - 193 Isihlonono Street, Mallula Park, , VOSLOORUS, 1475 - *Yabo*

845. Tseko Jeffrey Kose - 770716 5561 *** - House No 1603, Section C, , OSIZWENI, 2952 - *Sithole*

846. Jongisizwe Christopher Monatsi - 730216 5501 *** - N70 Dube Road, Nyanga East, , CAPE TOWN, 7755 - *Ntingi*

847. Mogase Sechaba Phiri - 070305 5056 *** - 847 Noretloa Street, Zone 4, , SESHEGO, 0742 - *Paledi*

848. Hlalume Tilikana - 070217 6000 *** - 15010 Leratong, Meloding, , VIRGINIA, 9430 - *Ngxande*

849. Thabo Nhlenyama - 051117 5682 *** - Olakeni Area, Ward 3, , MBAZWANA, 3974 - *Mthethwa*

850. Presley Thakgatso Malomane - 050604 5639 *** - House No 17201, Ivory Park, Extension 10, MIDRAND, 1685 - *Malele*

851. Heinrich Wasserfall - 060714 5257 *** - 32 Dove Street, Rant En Dal, , KRUGERSDORP, 1756 - *Naude*

852. Thapelo Seleke - 050525 5356 *** - 1839 Kagiso Avenue, , KAGISO, 1754 - *Makitla*

853. Samkelo Mdunyelwa - 051209 5818 *** - 10913 Zazulwana Crescent, Browns Farm, , PHILLIPI, 7750 - *Myona*

854. Kopano Modise - 050123 5919 *** - House No 4656, Extension 3, Bozkhutso, LICHTENBURG, 2740 - *Mothibi*

855. Botlhale Setati - 030207 5561 *** - 823 Uil Crescent, Rabie Ridge, , MIDRAND, 1683 - *Mabaso*

856. Siyamthanda November - 041002 5624 *** - 02 Bay Street, , MTHATHA, 5100 - *Mnguni*

857. Lindokuhle Thandolwethu Nkambule - 061206 5157 *** - 32 Loraine Street, , WITBANK, 1035 - *Memela*

858. Zothani Sangweni - 020712 5997 *** - Ward 06, Osizweni, , NEWCASTLE, 2952 - *Mashinini*

859. Sthabiso Blessing Dlamuka - 061221 6429 *** - 20 Peach Road, Woodland, , PIETERMARITZBURG, 3201 - *Mngadi*

860. Nduduzo Buthelezi - 980512 6156 *** - Milford Area, , DANNHAUSER, 3080 - *Mashazi*

861. Liyema Hlantlalala - 050326 6260 *** - Qamata Area, , COFIMVABA, 5380 - *Toro*

862. Tshepiso Mohale - 040521 5230 *** - House No 5022, Extension 2, Bohlokong, BETHLEHEM, 9700 - *Moeletsane*

863. Mcedisi Liberty Nkosi - 840110 5710 *** - 485 pitikoe Street, Botleng, , DELMAS, 2210 - *Masuku*

864. Johannes Willem Barend Van Der Colff- 870421 5175 *** -24 Bond Place , Midstream Estate, , CENTURION, 0158 - *Stewart*
,

865. Tshiamo Matekola- 980208 5573 *** -22 Phatudi Street, , ATTERIDGEVILLE, 00008 - *Mokwena*
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866. Petros Nathi Xaba- 780101 5947 *** -Slahla, , RICHMOND, 3780 - *Mdlalose*
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867. Keith Deon Emslie- 060129 5210 *** -12A – 14th Avenue, , KLEINZEE, 8282 - *O'Moore*
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868. Phatutshedzo Doctor Masunda- 840209 5362 *** -No 277 Thondoni, , HA-MASIA, 0944 - *Masia*
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869. Thabiso Gladness Setata – 840514 5675 *** - wife Eva Basetsana Setata – 841206 0925 *** - with two minor children – Tlotlegang Potego Setata – 120502 5240 *** - Keleabetswe Mmasetšhaba Setata – 201001 0366 ***- 450 Bruiweend Street, , SOSHANGUVE SOUTH, 0152 - *Malele* ,

870. Kabo Lydia Mokele- 920106 0441 *** -Unit 7,No 4 Regent Street, , BEDFORD GARDENS, 2007 - *Pholosi*
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871. Makgari Nthabiseng Mampuru - 060120 0698 *** -6 Ntjapedi Street, Atteridgeville, , PRETORIA, 0008 - *Mamabolo*
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872. Hlulane Mtileng- 051221 0593 *** -House No 716, Block T, , SOSHANGUVE, 0152 - *Hlongwane*
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873. Clement Moshidi- 990127 5704 *** -Mahloloaneng, , GA MASEMOLA, 1060 - *Mosehla*
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874. Raymond Mamotsiololo Tseka- 770916 5964 *** -Malope, , GA MASEMOLA, 1060 - *Serepo*
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875. Tsietsi Romeo Manale- 880401 5606 *** -Moletlane, , ZEBEDIELA, 0678 - *Masemola*
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876. Luxolo Mncedane- 061001 5905 *** -Buffalo Street, Extension 2 , DIEPSLOOT, 2100 - *Kakole*
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877. Portia Lindelani- 910520 1430 *** -Stand No 10011, Mavhode, , MUTALE, 0956 - *Mulaudzi*
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878. Thulasizwe Phiri- 060104 5998 *** -5463 Udonga Street, Extension 4, Protea Glen, SOWETO, 1818 - *Mazibuko*
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879. Lehlohonolo Stephen Letsoara- 791216 5756 *** -28 Diascia Avenue, Karen Park, , ARCADIA, 0182 - *Ramabitsa*
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880. Kabelo Portion Khwiyane- 880710 5463 *** -Stand No 355, Hlabekisa , GRASKOP, 1270 - *Chiloane*
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881. Jan Edward Tshabalala- 930219 5884 *** -4358 Sobuza Street, , SHARPVILLE, 1928 - *Mofokeng*
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882. Itumeleng Machakela- 070128 5096 *** -865 Vmbweza Street, Nkwe Estate, , ROSSLYN, 0180 - *Magagula*
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883. Thato Mteleni- 050609 6194 *** -117 – 8th Street, Extension 7, , ATTERIDGEVILLE, 0008 - *Nyoni*
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884. Nthokozisi Ngobeni- 941002 6141 *** -1900 Niger Streets, , KATLEHONG, 1400 - *Mavundla*
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885. Thabo Esau Mokautu- 820823 5593 *** -6574 Taung Street, Zone 04, , DIEPKLOOF, 1862 - *Mazibuko*
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886. Masilo Phillemon Raletjena- 750822 5364 *** -8 TC Nel Avenue, Phillip Nel Park, , PRETORIA, 0183 - *Hlako*
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887. Phumzile Rachel Mzobe – 800202 1949 *** - with one minor child – Lubanzi Siphesihle Mzobe – 151005 5628 *** - 4075 Clermont Road, Clermont, , PINETOWN, 3610 - *Dlamini*

888. Lorain Maboshego – 870402 0053 *** - with one minor child – Mahlako Karabo Maboshego – 141004 1065 *** - Nogodi, , NAPHAHLENG, 0736 - *Mashiloane*

889. Lwandlekazi Bathande Mayeza – 980925 0602 *** - with one minor child – Lukhanyo Mthunzi Mayeza – 161206 6192 *** - Mzamba R61, Ward 24, , BIZANA, 4800 - *Magaga*

890. Siyathemba Ngcobo – 991123 0130 *** - with one minor child – alondwe Ayanda Ngcobo – 170712 0224 *** - 22B President Street, , UITRECHT, 2980 - *Mtambo*

891. Boitshwarelo Ntlele – 920613 1149 *** - with three minor children – Tumisang Goodwill Ntlele – 100417 5598 *** - Gomolemo Diamond Ntlele – 170221 0508 *** - Kaone Claudia Ntlele – 170221 0506 *** - House No 3686 , Perisevlei Section, Dinokana, ZEERUST, 2868 - *Gopane*
892. Thandeka Pertunia Maphumulo – 900403 0882 *** - with two minor children – Ntsika Valentino Lubanzi Maphumulo – 180719 5609 *** - Minenhle Olwethu Precious Maphumulo – 120917 0581 *** - 4092 Lemons Street, Phase 1, , BRAAMFISCHER, 1724 - *Ndlovu*
893. Nomonde Pearl Mazubane – 901006 0234 *** - with one minor child – Okuhle Ntandoyenkosi Mazubane – 130414 5574 *** - Msikaba Location, Ward 25, , PORT SHEPSTONE, 4240 - *Mbhele*

894. Molefe Edward Ndzimande – 660904 5690 *** - wife Jeanet Basentsng Ndzimande – 710304 0440 *** - with two minor children – Moniccah Tery Ndzimande – 120902 1071 *** - Gumisho Ndzimande – 081105 6327 *** - Ga-Phasha, , PRAKTISEER, 1133 - *Makgoga*
895. Rüvaun Sergio Lakey – 910218 5992 *** - wife Juré Elisna Lakey – 880331 0192 *** - with one minor child – Réden Leng – 201104 5768 *** - 13 Pearl Street, Stone River Valley, , PAARL, 7646 - *Sinclair*

896. Mandisi Oscar Doncabe – 761116 5286 *** - wife Zibuyile Happiness Doncabe – 810607 0277 *** - with two minor children – Sphephelo Doncabe – 071120 5490 *** - Snqobile Mpumelelo Doncabe – 110223 5663 *** - Kwandelu Location, Ward 13, , UMZUMBE, 4225 - *Maphumulo*
897. Jacobus Albertus Beukes – 930110 5057 *** - wife Audrey Beukes – 920429 0564 *** - with one minor child – Mia Beukes – 201226 0227 *** - 31 Lawson Street, New Park, , KIMBERLEY, 8301 - *Mouton*

898. Zwelethu Calvin Soko – 801104 5468 *** - wife Siphiwe Portia Mahlangu – 841023 0936 *** - with two minor children – Lukhanyo Dondo Siyabonga Mahlangu – 190906 5207 *** - Sphosethu Nondumiso Sauhatse – 091217 0341 *** - 121 Klipspringer Avenue, , LEONDALE, 1401 - *Dhlamini*

899. Thalita Malgas – 821031 0458 *** - and two minor children – Emihle unamava Malgas – 100513 1156 *** - Ndalo Malgas – 180217 5352 *** - 62 Belgravia Crescent, , EAST LONDON, 5201 - *Nqinileyo*

900. Motlatsi Raymond Mokoena – 830312 5860 *** - wife Sharinton Monadikoe Maselela – 911205 0610 *** - with two minor children – Keitumetse Lesego Mokoena – 150512 0472 *** - Remoabetswe Katleho Mokoena – 221124 0333 *** - 38 Sonop Street, Horizon View, , ROODEPOORT, 1724 - *Sebotsa*
901. Nokwanda Zakwe – 971003 0583 *** - with one minor child – Nkanyezi Owethu Zakwe – 190806 6120 *** - Ewhlungwane Area, , MAHLABATHINI, 3865 - *Mhlongo*

902. Patience Lindelwa Qwaku – 761016 0799 *** - with two minor children – Ndinani Qwaku – 150629 0196 *** - Langa Litha Qwaku – 070614 5681 *** - 05 Ngqamakhwe Place, , NGCOBO, 5050 - *Toyi*

903. Elizabeth Nthabiseng Lebogo – 820421 0500 *** - with two minor children – Ntakadzeni Lebogo – 170403 0437 *** - Bohlale Lebogo – 110625 0253 *** - 286 Mmakgabo, Moletji, , KOLOTI, 0709 - *Tshikovhele*

904. Mukondeleli Godfrey Ramutsheli – 820527 5434 *** - with three minor children – Sharlot Ramutsheli – 080809 0749 *** - Orifha Gift Ramutsheli – 110924 5960 *** - Muimeleli Godfrey Ramutsheli – 141224 5633 *** - House No 030576, Shanzha Village, , VHULAUDZI, 0926 - *Dzhidzhila*

905. Monde Dzolodzolo – 760621 679 *** - wife Siphokazi Rwexwana – 820910 1332 *** - with two minor children – Onele Dzolodzolo – 170806 1133 *** - Somelele Chris Dzolodzolo – 160601 6467 *** - Sethokga Hostel Block 17D, , TEMBISA, 1632 - *Mfana*

906. Prince Mabutho Mpanza – 840202 6409 *** - wife Nrateng Wisegirl Molefe – 840229 0841 *** - with two minor children – Mpendulo Nompumelelo Mpanza – 150820 0479 *** - Syamthanda Lethabo Ziyanda Mpanza – 191030 1045 083 - House No 2007 , Kwamakhutha Township, , AMANZIMTOTI, 4126 - *Gumede*

907. Thabiso Aron Shabi – 861128 5395 *** - wife Noluthando Bertina Shabi – 930501 0626 087 – with one minor child – Farai Shabi – 200503 6020 *** - 302 Sanders Road, Meadowlands, Zone 2, SOWETO, 1852 - *Mkwanazi*

908. Sheilla Nondima Bocongo – 690626 0637 *** - with one minor child – Lilita Ntsika Bocongo – 060707 1225 *** - - Tuku C Location, , PEDDIE, 5640 - *Damba*

909. Musawenkosi Wiseman Ndimande – 801220 5624 *** - wife Nokuthobeka Ndimande – 850807 0761 *** - with one minor child – Luthando Liyema Ndimande – 160713 5288 *** - Nazareth, , LADYSMITH, 3370 - *Hlatshwayo*

910. Tshepho Moses Mamoshidi – 810916 5763 *** - wife Ramorwaswi Conny Mamoshidi – 830626 0994 *** - with three minor children – Puseletso Adelaide Mamoshidi – 071116 1329 *** - Boitumelo Solomon Mamoshidi – 120726 6116 *** - Keshumile Lovey Mamoshidi – 200328 1151 *** - Makot, , GA MAPHAHLELE, 0736 - *Seloane*

911. Selaelo Sandra Morapana – 870402 0266 *** - with two minor children – Nathalie Mokgaetsi Morapana – 190123 0340 *** - Mpalapatse Jeremiah Morapana – 130129 5328 *** - 6 Ray Stree, Emdo Park, , POLOKWANE, 0704 - *Morapama*

912. Sibongile Nthabiseng Maine – 970623 0961 *** - and two minor children – Lindokuhle Perpetual Maine – 190423 0167 *** - Ntandoyenkosi Daniel Maine – 160331 5853 085 - House No 1306, Block PP2, , SOSHANGUVE, 0152 - *Makomboti*

913. Matome Cathwin Madiga – 890218 5499 *** - with one minor child – Kgaugelo Okgethilwe Chula – 180927 5228 *** - 555 Moletjie Makgodu, Ramongwana No 2, , POLOKWANE, 0709 - *Semenya*

914. Nothando Penelope Khoza – 981227 0428 *** - with one minor child – Siphosethu Snothile Khoza – 151026 1220 *** - 134 Bigger Stree, , GLENCOE, 2930 - *Mbatha*

915. Thumeka Makaula – 850814 0973 *** - with three minor children – Bukho Makaula – 111004 6405 *** - Alutha Makaula – 080924 1224 *** - Yamihle Lakhita Makaula – 220502 0324 *** - Tsazo Area , NGCOBO, 5050 - *Mntuyedwa*

916. Thandeka Nokwanda Mbonambi – 840905 1385 *** - with one minor child – Asanda Zamaxolo Mbonambi – 030817 1124 *** - 37 Syring Avenue, , DURBAN, 4002 - *Nciliba*

917. Avuyile Xabadiya – 920810 5655 *** - wife Sinethemba Xabadiya – 930331 0544 *** - with two minor children – Simanye Avuyile Junior Qongqo – 151206 5097 *** - Luhlelo Asithandile Xabadiya – 221217 0711 *** - Zagwityi Location, , BUTTERWORTH, 4960 - *Xabadiya*

918. Andille Sengane – 800209 549 *** wife Nonhlanhla Maureen Sengane – 831017 0440 *** with two minor children – Sthembela Innocent Sengane – 150830 5400 *** - Nosiphiwo Sengane – 221125 0740 *** - House No 47114, Bhekulwandle Area, , AMANZIMTOTI, 4126 - *Mzobe*

919. Sinesipo Bholomani – 970515 1166 *** - with one minor child – Esinalo Oyena Bholomani – 200706 1068 *** - Msikaba Location, Ward 25, , PORT SHEPSTONE, 4240 - *Tenyane*

920. Zanele Matebese – 930422 0270 *** - with two minor children – Endinako Sibulele Matebese – 091104 5555 *** - Zanokuhle Mnqobi Matebese – 150513 6438 *** - 15 Church Street, , COLESBERG, 9795 - *Ntlanganiso*

921. Lebogang Cacentra Snyman – 990808 0145 *** - with one minor child – Lehumo Lemo Snyman – 160809 1666 *** - House No 7508 , Magojaneng, , KURUMAN, 8460 - *Boyang*

922. Nomthandazo Phumelele Hope Khuzwayo – 000630 0681 *** - with two minor children – Nhlalonhle Thandolwethu Khuzwayo – 190905 0736 *** - Melokuhle Sibani Khuzwayo – 220516 5253 *** - Gcilima Location, Ward 9, , MARGATE, 4275 - *Danca*

923. Sekgothe Isaiah Rampedi – 770829 5366 *** - wife Mary-Ann mophere Rampedi – 801230 0653 *** - with two minor children – Brian Rampedi – 191103 5156 *** - Malope Bennedictor Seopela – 080710 6464 *** - House No 20206, Katlehong Section, Vleeschboom, NEBO, 1059 - *Molemane*

924. Andrew Setlisi Chipu – 791224 5762 *** - wife Jerminah Ramatsobane Chipu – 840324 0644 *** - with four minor children – Phenyo Chipu – 110105 5189 *** - Bontlegadi Chipu – 130703 0289 *** - Mogau Chipu – 171105 0228 *** - Thato Chipu – 210419 0332 *** - Stand No 61C, Mohodi, , GAMANTHATA, 0788 - *Modipa*

925. Sabelosethu Siphokuhle Memories Gumede – 850525 5309 *** - wife Thembisile Precous Gumede – 890805 0981 *** - 09 O'Connor Place, Durban North, , VIRGINIA, 4051 - *Mdletshe*

926. Zuko Mganga – 930914 5612 *** - wife Notshaya Mganga – 910530 1137 *** - with two minor children – Lingcwele Liam Mganga – 22721 5892 *** - Zenkosi Heavenlyjoy Mganga – 231228 0700 *** - 70 Orange Street, , AGGENYS, 8893 - *Sibindi*

DEPARTMENT OF SPORTS, ARTS AND CULTURE

NO. 6098 **4 April 2025**

INVITATION FOR COMMENTS AND INPUTS - DRAFT MUSIC SECTOR POLICY AND STRATEGY

In line with the recommendations from the Revised Paper on Arts, Culture, and Heritage, the Department of Sport, Arts, and Culture (DSAC) has developed a comprehensive Music Sector Policy and Strategy tailored to the music sector. The aim is to foster the growth of the sector, supporting wealth creation, job creation, poverty alleviation, reducing inequality, and driving an inclusive economy. The intention is to provide a framework to guide the development of the music industry, ensuring its sustainable growth and contribution to the broader cultural industries.

The Department hereby invites all interested stakeholders, industry role players, and the public to submit their comments and inputs on the Music Sector Policy and Strategy.

Documents for Review:

1. Draft Music Sector Policy: Provides a detailed understanding of the sector's dynamics, vision, specific outcomes, and focal areas for implementation.
2. Draft Music Sector Strategy: Outlines strategic interventions, activities, and responsibilities to help realise the sector's full potential.

How to Submit Comments:

- Deadline for submissions: 30 June 2025
- Submission Methods: Online Portal:

We encourage all interested parties, including music industry professionals, artists, business owners, academics, and members of the public, to engage in this important consultation process. To view the Draft Policy and Strategy documents, please visit [Insert Website Link]

For more information contact Mr Zwelakhe Mbiba, Deputy Director: Cultural Development – Music on 012 441 3585 or 082 888 1829 during office hours between 8h00 – 16h30.

DEPARTMENT OF TRADE, INDUSTRY AND COMPETITION

NO. 6099 **4 April 2025**

INVITATION FOR THE PUBLIC TO COMMENT ON THE AMENDMENT OF THE SCOPE OF THE ENERGY USERS BLOCK EXEMPTION, 2025

1. By virtue of the powers vested in me in terms of section 10(10), read with section 78(1) of the Competition Act, 1998 (Act No. 89 of 1998) as amended (the Competition Act), I, Mr Mpho Parks Tau, Minister of Trade, Industry and Competition, after consultation with the Competition Commission, hereby publish for public comments the amendment to the Energy Users Block Exemption, 2023 Regulations published in GN R. 3447 of Government Gazette No. 48651 of 24 May 2023 as set out in the Schedule hereto.

2. Stakeholders and interested persons are invited to submit comments in writing on the proposed regulations within a period of 15 business days of the publication of this notice to the Minister of Trade, Industry and Competition, for the attention of Dr Ivan Galodikwe, email IGalodikwe@thedtic.gov.za or hand delivered at 3rd Floor, Block E, 77 Meintjies Street, Sunnyside, 0132.

MR MPHO PARKS TAU, MP
MINISTER OF TRADE, INDUSTRY AND COMPETITION
DATE: 13/03/2025

This gazette is also available free online at **www.gpwonline.co.za**

GENERAL EXPLANATORY NOTE:

[ ] Words in bold type in square brackets indicate omissions from existing enactments.

_____ Words underlined with a solid line indicate insertions in existing enactments.

SCHEDULE

Definition

1. In this schedule, "the Regulations" means the regulations published by Government Notice No. 48651 of 24 May 2023.

Amendment of regulation 2 of the Regulations

2. Regulation 2 of the Regulations is hereby amended by the substitution for regulation 2 of the following regulation:

"(2) The purpose of these Regulations is to give effect to the purposes of the Act as set out in section 2 of the Act by exempting a category of agreements or practices by Energy Users from the application of sections 4(1)(a), 4(1)(b)(i) - excluding the fixing of the selling prices of goods and services to customers or consumers, 4(1)(b)(ii) and 5(1) of the Act in response to the Electricity Supply Constraint or to assist an industry in distress:

a) solely with the purpose of enabling collaboration to:

i) secure backup or alternative energy supply; or
ii) reduce energy costs; or
iii) promote the optimisation and efficient use of energy supply; or
iv) secure shared or adjacent sites, infrastructure, equipment and facilities.

b) in order to contribute to regulatory measures aimed at the prevention of the escalation of the Electricity Supply Constraint or to assist an industry in distress."

Amendment of regulation 3 of the Regulations

3. Regulation 3 of the Regulations is hereby amended by the addition of the following sub-regulation after sub-regulation 3(b)(iii):

"(b) Agreements or practices among Energy Users to reduce the cost or to promote the efficient use of energy supply only through:

(i) Joint negotiation and purchase of energy and related product and service supply, including power purchase agreements; or
(ii) Joint financing of backup and alternative energy supply; or
(iii) Joint purchasing of shared backup and alternative energy generation capacity.
iv) Joint or collective negotiation of negotiated price agreements or similar agreements with energy suppliers in an industry in distress."

Amendment of regulation 6 of the Regulations

4. Regulation 6 of the Regulations is hereby amended by the substitution for regulation 6 of the following regulation:

"(6) The scope of these Regulations is limited only to agreements or practices specified under regulation 3, and which have the sole purpose of responding to the Electricity Supply Constraint or to assist an industry in distress as set out in regulation 2."

Amendment of regulation 15 of the Regulations

5. Regulation 15 of the Regulations is hereby amended by the substitution for regulation 15 of the following regulation:

"(15) These Regulations remain in operation until withdrawn by the Minister taking into account the state of the Electricity Supply Constraint or the state of an industry in distress."

DEPARTMENT OF TRADE, INDUSTRY AND COMPETITION

NO. 6100 **4 April 2025**

competitioncommission
south africa

FINAL GUIDELINE ON INTERNAL RESTRUCTURING

1. The Competition Commission ("Commission") hereby publishes the final Guidelines on internal restructuring, in terms of section 79(1) of the Competition Act No. 89 of 1998 (as amended) ("the Act"), which allows the Commission to prepare guidelines to indicate its policy approach on any matter falling within its jurisdiction. The Commission thus issues this guideline on the Commission's handling of transactions which constitute internal restructurings in terms of the Act.

2. This Guideline has been prepared in order to provide guidance to parties on what the Commission is likely to determine to be a transaction which constitutes an internal restructuring which does not require notification to the Commission and the limited and narrow circumstances when a merger notification may be required.

3. This Guideline deals with control under section 12(1) and (2) of the Act *only* to the extent that it is relevant for assessing whether a transaction constitutes an internal restructuring. Further, this Guideline is not intended to comprehensively deal with the definition of a merger in terms of section 12(1) of the Act and the competitive and public interest assessment in terms of section 12A of the Act.

4. This Guideline applies generally and is not market, sector or industry specific. The principles outlined in this Guideline are based on the Commission's experience and assessment of a variety of transactions, competition law jurisprudence from the Competition Tribunal and the Competition Appeal Court, as well as guidance from other jurisdictions where appropriate.

5. The Final Guideline is available at: https://www.compcom.co.za/guidelines/

GENERAL NOTICES • ALGEMENE KENNISGEWINGS

DEPARTMENT OF CO-OPERATIVE GOVERNANCE AND TRADITIONAL AFFAIRS

NOTICE 3108 OF 2025

PUBLICATION OF EXPLANATORY SUMMARY OF THE INTERGOVERNMENTAL MONITORING SUPPORT AND INTERVENTIONS BILL, 2025

1. Notice is hereby given in terms of Rule 276(1)(b) of the Rules of the National Assembly that the Minister of Cooperative Governance and Traditional Affairs intends to introduce the Intergovernmental Monitoring, Support and Interventions Bill, 2025, in the National Assembly shortly.

2. The explanatory summary of the Bill is hereby published in accordance with Rule 276(1)(c) of the Rules of the National Assembly.

   The Bill is intended to regulate the implementation of, and the processes provided for in sections 100 and section 139 of the Constitution; it provide for provisions of targeted support to provinces and municipalities in need of assistance; it provide for the monitoring of provinces and municipalities as to the fulfilment of their executive obligations in terms of the Constitution or legislation; it provide for alternative steps to interventions to induce compliance by provinces or municipalities in undertaking their executive obligations; and it provide for the deployment of administrators by the intervening national executive or provincial executive.

3. A copy of the Bill can be found on the websites of the Department of Cooperative Governance at http://www.cogta.gov.za, and that of the Parliamentary Monitoring Group at http://www.pmg.org.za and, after introduction, may also be obtained from: Government Printers: Cape Town (Telephone number: (021) 465-7531).

DEPARTEMENT VAN SAMEWERKENDE REGERING EN TRADISIONELE SAKE

NOTICE 3108 OF 2025

PUBLIKASIE VAN VERDUIDELIKENDE OPSOMMING VAN DIE WETSONTWERP OP INTERREGERING MONITERING ONDERSTEUNING EN INGRYPINGS, 2025

1. Kennis word hiermee gegee in terme van Reël 276(1)(b) van die Reëls van die Nasionale Vergadering dat die Minister van Samewerkende Regering en Tradisionele Sake beoog om ‘n Wetsontwerp op die Interregering Monitering Ondersteuning en Ingrypings eersdaags in die Nasionale Vergadering in te dien.

2. Die verduidelikende opsomming van die Wetsontwerp word hiermee ooreenkomstig Reël 276(1)(c) van die Reëls van die Nasionale Vergadering gepubliseer:

   Die Wetsontwerp maak voorsiening vir die voorskrifte vir die uitvoering van, en prosesse van artikels 100 en 139 van die Grondwet; voorsiening van geteikende hulp aan provinsies en munisipaliteite vir die nakoming van die uitvoerende gesag in terme van die Grondwet en ander wetgewing; voorsiening vir alternatiewe stappe tot ingrypings om nakoming van provinsiale en munisipale uitvoerende verpligtings te verseker; en voorsiening vir die ontplooing van administrateurs deur die ingrypende nasionale en provinsiale uitvoerende gesag.

3. ‘n Afskrif van die Wetsontwerp kan verkry word op die webblaaie van die Departement van Samewerkende Regering by http://www.cogta.gov.za, en die Parliamentary Monitoring Group by http://www.pmg.org.za en kan, na indiening, verkry word by die Staatsdrukker in Kaapstad (Telefoonnommer: (021) 465-7531).

INDEPENDENT COMMUNICATIONS AUTHORITY OF SOUTH AFRICA

NOTICE 3109 OF 2025

PURSUANT TO SECTIONS 34 (2) AND (5) OF THE ELECTRONIC COMMUNICATIONS ACT, 2005, (ACT NO. 36 OF 2005

HEREBY ISSUES A NOTICE REGARDING THE DRAFT NATIONAL RADIO FREQUENCY PLAN 2025 FOR PUBLIC CONSULTATION.

1. The Independent Communications Authority of South Africa ("the Authority"), in terms of section 34 (2) and (5) of the Electronic Communications Act (Act No. 36 of 2005), as amended, hereby invites written representations to the "**Draft National Radio Frequency Plan 2025**".

2. Interested persons can submit their written representations, including an electronic version of the representation in Microsoft Word, to the Authority by no later than 16h00 on Friday 30 May 2025.

3. Persons submitting written representations can indicate whether they require an opportunity to make oral representations during the public hearings to be held by the Authority.

4. The public hearings may be scheduled.

5. Written representations or enquiries may be directed to:

   350 Witch-Hazel Avenue, Eco Point Office Park Eco Park,
   Centurion
   South Africa Private Bag X10,
   Highveld Park 0169
   Centurion,
   Pretoria

6. Attention:
   Mr Davis Kgosimolao Moshweunyane
   Email: dmoshweunyane@icasa.org.za

   And

Mr Manyaapelo Richard Makgotlho
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7. All written representations submitted to the Authority pursuant to this notice shall be made available for inspection by interested persons from 06 June 2025 at the ICASA Library or and copies of such representations and documents will be obtainable on payment of a fee.

8. The draft National Radio Frequency Plan and representations will be uploaded Authority's website.

9. Where persons making representations require that their representation or part thereof be treated as confidential, then an application in terms of section 4D of the ICASA Act, 2000 (Act No. 13 of 2000) must be lodged with the Authority. Such an application must be submitted simultaneously with the representation on the draft plan. All confidential material must be pasted onto a separate annexure which is clearly marked as "Confidential". If, however, the request for confidentiality is not granted, the person making the request will be allowed to withdraw the representation or document in question.

10. The guidelines for confidentiality request are contained in Government Gazette Number 41839 (Notice 849 of 2018).

MR MOTHIBI G. RAMUSI
ICASA CHAIRPERSON
DATE: 18/03/2025

NOTE:

The draft National Radio Frequency Plan takes into consideration resolutions taken by the World Radiocommunication Conference of 2023 (WRC-23). The colour coding has been used in this document for ease of referencing.

1. Green: This signifies the new resolution taken by WRC-23 and proposed changes to the National Radio Frequency Plan 2021

2. Strike Through (e.g., ~~XXX~~) This signifies text that is to be deleted from the National Radio Frequency Plan 2021

DRAFT NATIONAL RADIO FREQUENCY PLAN 2025 FOR PUBLIC CONSULTATION (NRFP-25)

8.3 kHz – 3000 GHz

INDEPENDENT COMMUNICATIONS AUTHORITY OF SOUTH AFRICA

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1 TERMS, DEFINITIONS AND ACRONYMS

1.1 Terms and definitions

accepted interference[1]*:*	*Interference* at a higher level than that defined as *permissible interference* and which has been agreed upon between two or more *administrations* without prejudice to other *administrations*.
active satellite:	A *satellite* carrying a *station* intended to transmit or retransmit *radiocommunication* signals.
active sensor:	A measuring instrument in the *earth exploration-satellite service* or in the *space research service* by means of which information is obtained by transmission and reception of *radio waves*.
adaptive system:	A *radiocommunication* system which varies its radio characteristics according to channel quality.
administration	Any governmental department or service responsible for discharging the obligations undertaken in the Constitution of the International Telecommunication Union, in the Convention of the International Telecommunication Union and in the Administrative Regulations (CS 1002).
aeronautical earth station:	An *earth station* in the *fixed-satellite service*, or, in some cases, in the *aeronautical mobile-satellite service*, located at a specified fixed point on land to provide a *feeder link* for the *aeronautical mobile-satellite service*.
[2]*aeronautical mobile (OR)** service:*	An *aeronautical mobile service* intended for communications, including those relating to flight coordination, primarily outside national or international civil air routes.
aeronautical mobile (R) service:*	An *aeronautical mobile service* reserved for communications relating to safety and regularity of flight, primarily along national or international civil air routes
aeronautical mobile service:	A *mobile service* between *aeronautical stations* and *aircraft stations*, or between *aircraft stations*, in which *survival craft stations* may participate; *emergency position-indicating radiobeacon stations* may also participate in this service on designated distress and emergency frequencies.
*aeronautical mobile-satellite (OR)** service:*	An *aeronautical mobile-satellite service* intended for communications, including those relating to flight coordination, primarily outside national and international civil air routes.
aeronautical mobile-satellite (R) service:*	An *aeronautical mobile-satellite service* reserved for communications relating to safety and regularity of flights, primarily along national or international civil air routes.
aeronautical mobile-satellite service:	A *mobile-satellite service* in which *mobile earth stations* are located on board aircraft; *survival craft stations* and *emergency position-indicating radiobeacon stations* may also participate in this service.
aeronautical radionavigation service:	A *radionavigation service* intended for the benefit and for the safe operation of aircraft.
aeronautical radionavigation-satellite service:	A *radionavigation-satellite service* in which *earth stations* are located on board aircraft.

[1] The terms "permissible interference" and "accepted interference" are used in the coordination of frequency assignments between *administrations*

*(R): route.
**(OR): off-route.

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aeronautical station:	A *land station* in the *aeronautical mobile service*. In certain instances, an aeronautical station may be located, for example, on board ship or on a platform at sea.
aircraft earth station:	A *mobile earth station* in the *aeronautical mobile-satellite service* located on board an aircraft.
aircraft station:	A *mobile station* in the *aeronautical mobile service*, other than a *survival craft station*, located on board an aircraft.
allocation (of a frequency band):	Entry in the Table of Frequency Allocations of a given frequency band for the purpose of its use by one or more terrestrial or space *radiocommunication services* or the *radio astronomy service* under specified conditions. This term shall also be applied to the frequency band concerned.
allotment (of a radio frequency or radio frequency channel):	Entry of a designated frequency channel in an agreed plan, adopted by a competent conference, for use by one or more *administrations* for a terrestrial or space *radiocommunication service* in one or more identified countries or geographical areas and under specified conditions.
altitude of the apogee or *of the perigee:*	The altitude of the apogee or perigee above a specified reference surface serving to represent the surface of the Earth.
amateur service:	A *radiocommunication service* for the purpose of self-training, intercommunication and technical investigations carried out by amateurs, that is, by duly authorized persons interested in radio technique solely with a personal aim and without pecuniary interest.
amateur station:	A *station* in the *amateur service*.
amateur-satellite service:	A *radiocommunication service* using *space stations* on earth *satellites* for the same purposes as those of the *amateur service*.
assigned frequency band:	The frequency band within which the *emission* of a *station* is authorized; the width of the band equals the *necessary bandwidth* plus twice the absolute value of the *frequency tolerance*. Where *space stations* are concerned, the assigned frequency band includes twice the maximum Doppler shift that may occur in relation to any point of the Earth's surface.
assigned frequency:	The centre of the frequency band assigned to a *station*.
assignment (of a radio frequency or radio frequency channel):	Authorization given by an *administration* for a radio *station* to use a radio frequency or radio frequency channel under specified conditions.
base earth station:	An *earth station* in the *fixed-satellite service* or, in some cases, in the *land mobile-satellite service,* located at a specified fixed point or within a specified area on land to provide a *feeder link* for the *land mobile-satellite service.*
base station:	A *land station* in the *land mobile service*.
broadcasting service:	A *radiocommunication service* in which the transmissions are intended for direct reception by the general public. This service may include sound transmissions, *television* transmissions or other types of transmission (CS).
broadcasting station:	A *station* in the *broadcasting service*.
broadcasting-satellite service:	A *radiocommunication service* in which signals transmitted or retransmitted by *space stations* are intended for direct reception by the general public. In the broadcasting-satellite service, the term "direct reception" shall encompass both *individual reception* and *community reception*.
carrier power (of a radio transmitter):	The average power supplied to the antenna transmission line by a transmitter during one radio frequency cycle taken under the condition of no modulation.
characteristic frequency:	A frequency which can be easily identified and measured in a given *emission*. A carrier frequency may, for example, be designated as the characteristic frequency.

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class of emission:	The set of characteristics of an *emission*, designated by standard symbols, e.g. type of modulation of the main carrier, modulating signal, type of information to be transmitted, and also, if appropriate, any additional signal characteristics.
coast earth station:	An *earth station* in the *fixed-satellite service* or, in some cases, in the *maritime mobile-satellite service*, located at a specified fixed point on land to provide a *feeder link* for the *maritime mobile-satellite service*.
coast station:	A *land station* in the *maritime mobile service*.
community reception (in the broadcasting-satellite service):	The reception of *emissions* from a *space station* in the *broadcasting-satellite service* by receiving equipment, which in some cases may be complex and have antennas larger than those used for *individual reception*, and intended for use: – by a group of the general public at one location; or – through a distribution system covering a limited area.
coordinated universal time (UTC):	Time scale, based on the second (SI), as described in Resolution **655 (WRC-15)**. (WRC-15)
coordination area:	When determining the need for coordination, the area surrounding an *earth station* sharing the same frequency band with *terrestrial stations*, or surrounding a transmitting *earth station* sharing the same bi-directionally allocated frequency band with receiving *earth stations*, beyond which the level of *permissible interference* will not be exceeded and coordination is therefore not required. (WRC-2000)
coordination contour:	The line enclosing the *coordination area*.
coordination distance:	When determining the need for coordination, the distance on a given azimuth from an *earth station* sharing the same frequency band with *terrestrial stations*, or from a transmitting *earth station* sharing the same bi-directionally allocated frequency band with receiving *earth stations*, beyond which the level of *permissible interference* will not be exceeded and coordination is therefore not required. (WRC-2000)
deep space:	Space at distances from the Earth equal to, or greater than, 2×10^6 km.
duplex operation:	Operating method in which transmission is possible simultaneously in both directions of a *telecommunication* channel[3].
earth exploration-satellite service:	A *radiocommunication service* between *earth stations* and one or more *space stations*, which may include links between *space stations*, in which: – information relating to the characteristics of the Earth and its natural phenomena, including data relating to the state of the environment, is obtained from *active sensors* or *passive sensors* on Earth *satellites*; – similar information is collected from airborne or Earth-based platforms; – such information may be distributed to *earth stations* within the system concerned; – platform interrogation may be included. This service may also include *feeder links* necessary for its operation.
earth station:	A *station* located either on the Earth's surface or within the major portion of the Earth's atmosphere and intended for communication: – with one or more *space stations*; or – with one or more *stations* of the same kind by means of one or more *reflecting satellites* or other objects in space.

[3] In general, *duplex operation* require two frequencies in *radiocommunication*

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effective antenna gain contour (of a steerable satellite beam):	An envelope of antenna gain contours resulting from moving the boresight of a *steerable satellite beam* along the limits of the *effective boresight area*.
effective boresight area (of a steerable satellite beam):	An area on the surface of the Earth within which the boresight of a *steerable satellite beam* is intended to be pointed. There may be more than one unconnected effective boresight area to which a single *steerable satellite beam* is intended to be pointed.
effective monopole radiated power (e.m.r.p.) (in a given direction)*:*	The product of the power supplied to the antenna and its *gain relative to a short vertical antenna* in a given direction.
effective radiated power (e.r.p.) (in a given direction)*:*	The product of the power supplied to the antenna and its *gain relative to a half-wave dipole* in a given direction.
emergency position-indicating radiobeacon station:	A *station* in the *mobile service* the *emissions* of which are intended to facilitate search and rescue operations.
emission:	*Radiation* produced, or the production of *radiation*, by a radio transmitting *station*. For example, the energy radiated by the local oscillator of a radio receiver would not be an emission but a *radiation*.
equivalent isotropically radiated power (e.i.r.p.):	The product of the power supplied to the antenna and the antenna gain in a given direction relative to an isotropic antenna *(absolute or isotropic gain)*.
equivalent satellite link noise temperature:	The noise temperature referred to the output of the receiving antenna of the *earth station* corresponding to the radio frequency noise power which produces the total observed noise at the output of the *satellite link* excluding noise due to *interference* coming from *satellite links* using other *satellites* and from terrestrial systems.
experimental station:	A *station* utilizing *radio waves* in experiments with a view to the development of science or technique. This definition does not include *amateur stations.*
facsimile:	A form of *telegraphy* for the transmission of fixed images, with or without half-tones, with a view to their reproduction in a permanent form.
feeder link:	A radio link from an *earth station* at a given location to a *space station*, or vice versa, conveying information for a *space radiocommunication service* other than for the *fixed-satellite service*. The given location may be at a specified fixed point, or at any fixed point within specified areas.
fixed service:	*A radiocommunication service* between specified fixed points.
fixed station:	A *station* in the *fixed service*.
fixed-satellite service:	A *radiocommunication service* between *earth stations* at given positions, when one or more *satellites* are used; the given position may be a specified fixed point or any fixed point within specified areas; in some cases this service includes satellite-to-satellite links, which may also be operated in the *inter-satellite service*; the fixed-satellite service may also include *feeder links* for other *space radiocommunication services*.
frequency tolerance:	The maximum permissible departure by the centre frequency of the frequency band occupied by an *emission* from the *assigned frequency* or, by the *characteristic frequency* of an *emission* from the *reference frequency*. The frequency tolerance is expressed in parts in 10^6 or in hertz.
frequency-shift telegraphy:	*Telegraphy* by frequency modulation in which the telegraph signal shifts the frequency of the carrier between predetermined values.
full carrier single-sideband emission:	A *single-sideband emission* without reduction of the carrier.

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gain of an antenna:	The ratio, usually expressed in decibels, of the power required at the input of a loss-free reference antenna to the power supplied to the input of the given antenna to produce, in a given direction, the same field strength or the same power flux-density at the same distance. When not specified otherwise, the gain refers to the direction of maximum *radiation*. The gain may be considered for a specified polarization. Depending on the choice of the reference antenna a distinction is made between: a) absolute or isotropic gain (G_i), when the reference antenna is an isotropic antenna isolated in space; b) gain relative to a half-wave dipole (G_d), when the reference antenna is a half-wave dipole isolated in space whose equatorial plane contains the given direction; c) gain relative to a short vertical antenna (G_v), when the reference antenna is a linear conductor, much shorter than one quarter of the wavelength, normal to the surface of a perfectly conducting plane which contains the given direction.
geostationary satellite:	A *geosynchronous satellite* whose circular and direct *orbit* lies in the plane of the Earth's equator and which thus remains fixed relative to the Earth; by extension, a *geosynchronous satellite* which remains approximately fixed relative to the Earth. (WRC-03)
geostationary-satellite orbit:	The *orbit* of a *geosynchronous satellite* whose circular and direct *orbit* lies in the plane of the Earth's equator.
geosynchronous satellite:	An earth *satellite* whose period of revolution is equal to the period of rotation of the Earth about its axis.
harmful interference:	*Interference* which endangers the functioning of a *radionavigation service* or of other *safety services* or seriously degrades, obstructs, or repeatedly interrupts a *radiocommunication service* operating in accordance with Radio Regulations (CS).
high altitude platform station:	A *station* located on an object at an altitude of 20 to 50 km and at a specified, nominal, fixed point relative to the Earth.
inclination of an orbit (of an earth satellite):	The angle determined by the plane containing the *orbit* and the plane of the Earth's equator measured in degrees between 0º and 180º and in counter-clockwise direction from the Earth's equatorial plane at the ascending node of the *orbit*. (WRC-2000)
individual reception (in the broadcasting-satellite service):	The reception of *emissions* from a *space station* in the *broadcasting-satellite service* by simple domestic installations and in particular those possessing small antennas.
industrial, scientific and medical (ISM) applications (of radio frequency energy):	Operation of equipment or appliances designed to generate and use locally radio frequency energy for industrial, scientific, medical, domestic or similar purposes, excluding applications in the field of *telecommunications*.
instrument landing system (ILS):	A *radionavigation* system which provides aircraft with horizontal and vertical guidance just before and during landing and, at certain fixed points, indicates the distance to the reference point of landing.
instrument landing system glide path:	A system of vertical guidance embodied in the *instrument landing system* which indicates the vertical deviation of the aircraft from its optimum path of descent.
instrument landing system localizer:	A system of horizontal guidance embodied in the *instrument landing system* which indicates the horizontal deviation of the aircraft from its optimum path of descent along the axis of the runway.

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interference:	The effect of unwanted energy due to one or a combination of *emissions*, *radiations*, or inductions upon reception in a *radiocommunication* system, manifested by any performance degradation, misinterpretation, or loss of information which could be extracted in the absence of such unwanted energy.
inter-satellite service:	A *radiocommunication service* providing links between artificial *satellites*.
ionospheric scatter:	The propagation of *radio waves* by scattering as a result of irregularities or discontinuities in the ionization of the ionosphere.
land earth station:	An *earth station* in the *fixed-satellite service* or, in some cases, in the *mobile-satellite service,* located at a specified fixed point or within a specified area on land to provide a *feeder link* for the *mobile-satellite service*.
land mobile earth station:	A *mobile earth station* in the *land mobile-satellite service* capable of surface movement within the geographical limits of a country or continent.
land mobile service:	A *mobile service* between *base stations* and *land mobile stations*, or between *land mobile stations*.
land mobile station:	A *mobile station* in the *land mobile service* capable of surface movement within the geographical limits of a country or continent.
land mobile-satellite service:	A *mobile-satellite service* in which *mobile earth stations* are located on land.
land station:	A station in the mobile service not intended to be used while in motion.
left-hand (anticlockwise) *polarized wave:*	An elliptically- or circularly-polarized wave, in which the electric field vector, observed in any fixed plane, normal to the direction of propagation, whilst looking in the direction of propagation, rotates with time in a left-hand or anticlockwise direction.
maritime mobile service:	A *mobile service* between *coast stations* and *ship stations*, or between *ship stations*, or between associated *on-board communication stations*; *survival craft stations* and *emergency position-indicating radiobeacon stations* may also participate in this service.
maritime mobile-satellite service:	A *mobile-satellite service* in which *mobile earth stations* are located on board ships; *survival craft stations* and *emergency position-indicating radiobeacon stations* may also participate in this service.
maritime radionavigation service:	A *radionavigation service* intended for the benefit and for the safe operation of ships.
maritime radionavigation-satellite service:	A *radionavigation-satellite service* in which *earth stations* are located on board ships.
marker beacon:	A transmitter in the *aeronautical radionavigation service* which radiates vertically a distinctive pattern for providing position information to aircraft.
mean power (of a radio transmitter):	The average power supplied to the antenna transmission line by a transmitter during an interval of time sufficiently long compared with the lowest frequency encountered in the modulation taken under normal operating conditions.
meteorological aids land station:	A *station* in the *meteorological aids service* not intended to be used while in motion. (WRC-15)
meteorological aids mobile station:	A *station* in the *meteorological aids service* intended to be used while in motion or during halts at unspecified points. (WRC-15)
meteorological aids service:	A *radiocommunication service* used for meteorological, including hydrological, observations and exploration.
meteorological-satellite service:	An *earth exploration-satellite service* for meteorological purposes.

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mobile earth station:	An *earth station* in the *mobile-satellite service* intended to be used while in motion or during halts at unspecified points.
mobile service:	A *radiocommunication service* between *mobile* and *land stations*, or between *mobile stations* (CV).
mobile station:	A *station* in the *mobile service* intended to be used while in motion or during halts at unspecified points.
mobile-satellite service:	A *radiocommunication service:* – between *mobile earth stations* and one or more *space stations*, or between *space stations* used by this service; or – between *mobile earth stations* by means of one or more *space stations*. This service may also include *feeder links* necessary for its operation.
multi-satellite link:	A radio link between a transmitting *earth station* and a receiving *earth station* through two or more *satellites*, without any intermediate *earth station*. A multi-satellite link comprises one up-link, one or more satellite-to-satellite links and one down-link.
necessary bandwidth:	For a given *class of emission*, the width of the frequency band which is just sufficient to ensure the transmission of information at the rate and with the quality required under specified conditions.
occupied bandwidth:	The width of a frequency band such that, below the lower and above the upper frequency limits, the *mean powers* emitted are each equal to a specified percentage b/2 of the total *mean power* of a given *emission*. Unless otherwise specified in an ITU-R Recommendation for the appropriate *class of emission*, the value of b/2 should be taken as 0.5%.
on-board communication station:	A low-powered *mobile station* in the *maritime mobile service* intended for use for internal communications on board a ship, or between a ship and its lifeboats and life-rafts during lifeboat drills or operations, or for communication within a group of vessels being towed or pushed, as well as for line handling and mooring instructions.
orbit:	The path, relative to a specified frame of reference, described by the centre of mass of a *satellite* or other object in space subjected primarily to natural forces, mainly the force of gravity.
out-of-band domain (of an emission):	The frequency range, immediately outside the *necessary bandwidth* but excluding the *spurious domain*, in which *out-of-band emissions* generally predominate. *Out-of-band emissions*, defined based on their source, occur in the out-of-band domain and, to a lesser extent, in the *spurious domain*. *Spurious emissions* likewise may occur in the out-of-band domain as well as in the *spurious domain*. (WRC-03)
out-of-band emission:	*Emission* on a frequency or frequencies immediately outside the *necessary bandwidth* which results from the modulation process, but excluding *spurious emissions*.
passive sensor:	A measuring instrument in the *earth exploration-satellite service* or in the *space research service* by means of which information is obtained by reception of *radio waves* of natural origin.
peak envelope power (of a radio transmitter):	The average power supplied to the antenna transmission line by a transmitter during one radio frequency cycle at the crest of the modulation envelope taken under normal operating conditions.
period (of a satellite):	The time elapsing between two consecutive passages of a *satellite* through a characteristic point on its *orbit*.

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permissible interference[4]*:*	Observed or predicted *interference* which complies with quantitative *interference* and sharing criteria contained in these Regulations or in ITU-R Recommendations or in special agreements as provided for in these Regulations.
port operations service:	A *maritime mobile service* in or near a port, between *coast stations* and *ship stations*, or between *ship stations*, in which messages are restricted to those relating to the operational handling, the movement and the safety of ships and, in emergency, to the safety of persons. Messages which are of a *public correspondence* nature shall be excluded from this service.
port station:	A *coast station* in the *port operations service*.
power:	Whenever the power of a radio transmitter, etc. is referred to it shall be expressed in one of the following forms, according to the class of *emission*, using the arbitrary symbols indicated: – *peak envelope power* (*P*X or *p*X); – *mean power* (*P*Y or *p*Y); – *carrier power* (*P*Z or *p*Z). For different *classes of emission*, the relationships between *peak envelope power*, *mean power* and *carrier power*, under the conditions of normal operation and of no modulation, are contained in ITU-R Recommendations which may be used as a guide. For use in formulae, the symbol *p* denotes power expressed in watts and the symbol *P* denotes power expressed in decibels relative to a reference level.
primary radar:	A *radiodetermination* system based on the comparison of reference signals with radio signals reflected from the position to be determined.
protection ratio (R.F.):	The minimum value of the wanted-to-unwanted signal ratio, usually expressed in decibels, at the receiver input, determined under specified conditions such that a specified reception quality of the wanted signal is achieved at the receiver output.
public correspondence:	Any *telecommunication* which the offices and *stations* must, by reason of their being at the disposal of the public, accept for transmission (CS).
radar beacon (racon):	A transmitter-receiver associated with a fixed navigational mark which, when triggered by a *radar*, automatically returns a distinctive signal which can appear on the display of the triggering *radar*, providing range, bearing and identification information.
radar:	A *radiodetermination* system based on the comparison of reference signals with radio signals reflected, or retransmitted, from the position to be determined.
radiation:	The outward flow of energy from any source in the form of *radio waves*.
radio altimeter:	*Radionavigation* equipment, on board an aircraft or *spacecraft,* used to determine the height of the aircraft or the *spacecraft* above the Earth's surface or another surface.
radio astronomy service:	A service involving the use of *radio astronomy*.
radio astronomy station:	A *station* in the *radio astronomy service*.
radio astronomy:	Astronomy based on the reception of *radio waves* of cosmic origin.
radio direction-finding station:	A *radiodetermination station* using *radio direction-finding*.
radio direction-finding:	*Radiodetermination* using the reception of *radio waves* for the purpose of determining the direction of a *station* or object.

[4] The terms “permissible interference” and “accepted interference” are used in the coordination of frequency assignments between *administrations*.

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radio waves or *hertzian waves:*	Electromagnetic waves of frequencies arbitrarily lower than 3 000 GHz, propagated in space without artificial guide.
radio:	A general term applied to the use of *radio waves*.
radiobeacon station:	A *station* in the *radionavigation service* the *emissions* of which are intended to enable a *mobile station* to determine its bearing or direction in relation to the radiobeacon station.
radiocommunication service:	A service as defined in this Section involving the transmission, *emission* and/or reception of *radio waves* for specific *telecommunication* purposes. In these Regulations, unless otherwise stated, any radiocommunication service relates to *terrestrial radiocommunication*.
radiocommunication:	*Telecommunication* by means of *radio waves* (CS) (CV).
radiodetermination service:	A *radiocommunication service* for the purpose of *radiodetermination*.
radiodetermination station:	A *station* in the *radiodetermination service*.
radiodetermination:	The determination of the position, velocity and/or other characteristics of an object, or the obtaining of information relating to these parameters, by means of the propagation properties of *radio waves*.
radiodetermination-satellite service:	*A radiocommunication service* for the purpose of *radiodetermination* involving the use of one or more *space stations*. This service may also include *feeder links* necessary for its own operation.
radiolocation land station:	A *station* in the *radiolocation service* not intended to be used while in motion.
radiolocation mobile station:	A *station* in the *radiolocation service* intended to be used while in motion or during halts at unspecified points.
radiolocation service:	A *radiodetermination service* for the purpose of *radiolocation*.
radiolocation:	*Radiodetermination* used for purposes other than those of *radionavigation*.
radiolocation-satellite service:	A *radiodetermination-satellite service* used for the purpose of *radiolocation*. This service may also include the *feeder links* necessary for its operation.
radionavigation land station:	A *station* in the *radionavigation service* not intended to be used while in motion.
radionavigation mobile station:	A *station* in the *radionavigation service* intended to be used while in motion or during halts at unspecified points.
radionavigation service:	A *radiodetermination service* for the purpose of *radionavigation*.
radionavigation:	*Radiodetermination* used for the purposes of navigation, including obstruction warning.
radionavigation-satellite service:	A *radiodetermination-satellite service* used for the purpose of *radionavigation*. This service may also include *feeder links* necessary for its operation.
radiosonde:	An automatic radio transmitter in the *meteorological aids service* usually carried on an aircraft, free balloon, kite or parachute, and which transmits meteorological data.
radiotelegram:	A *telegram*, originating in or intended for a *mobile station* or a *mobile earth station* transmitted on all or part of its route over the *radiocommunication* channels of the *mobile service* or of the *mobile-satellite service*.
radiotelemetry:	*Telemetry* by means of *radio waves*.
radiotelephone call:	A telephone call, originating in or intended for a *mobile station* or a *mobile earth station*, transmitted on all or part of its route over the *radiocommunication* channels of the *mobile service* or of the *mobile-satellite service*.
radiotelex call:	A telex call, originating in or intended for a *mobile station* or a *mobile earth station*, transmitted on all or part of its route over the

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	radiocommunication channels of the *mobile service* or the *mobile-satellite service.*
reduced carrier single-sideband emission:	A *single-sideband emission* in which the degree of carrier suppression enables the carrier to be reconstituted and to be used for demodulation.
reference frequency:	A frequency having a fixed and specified position with respect to the *assigned frequency*. The displacement of this frequency with respect to the *assigned frequency* has the same absolute value and sign that the displacement of the *characteristic frequency* has with respect to the centre of the frequency band occupied by the *emission*.
reflecting satellite:	A *satellite* intended to reflect *radiocommunication* signals.
right-hand (clockwise) *polarized wave:*	An elliptically- or circularly-polarized wave, in which the electric field vector, observed in any fixed plane, normal to the direction of propagation, whilst looking in the direction of propagation, rotates with time in a right-hand or clockwise direction.
safety service:	Any *radiocommunication service* used permanently or temporarily for the safeguarding of human life and property.
satellite emergency position-indicating radiobeacon:	An *earth station* in the *mobile-satellite service* the *emissions* of which are intended to facilitate search and rescue operations.
satellite link:	A radio link between a transmitting *earth station* and a receiving *earth station* through one *satellite*. A satellite link comprises one up-link and one down-link.
satellite network:	A *satellite system* or a part of a *satellite system*, consisting of only one *satellite* and the cooperating *earth stations*.
satellite system:	A *space system* using one or more artificial earth *satellites*.
satellite:	A body which revolves around another body of preponderant mass and which has a motion primarily and permanently determined by the force of attraction of that other body.
secondary radar:	A *radiodetermination* system based on the comparison of reference signals with radio signals retransmitted from the position to be determined.
semi-duplex operation:	A method which is *simplex operation* at one end of the circuit and *duplex operation* at the other[5].
ship earth station:	A *mobile earth station* in the *maritime mobile-satellite service* located on board ship.
ship movement service:	A *safety service* in the *maritime mobile service* other than a *port operations service*, between *coast stations* and *ship stations*, or between *ship stations*, in which messages are restricted to those relating to the movement of ships. Messages which are of a *public correspondence* nature shall be excluded from this service.
ship station:	A *mobile station* in the *maritime mobile service* located on board a vessel which is not permanently moored, other than a *survival craft station*.
ship's emergency transmitter:	A ship's transmitter to be used exclusively on a distress frequency for distress, urgency or safety purposes.
simplex operation:	Operating method in which transmission is made possible alternately in each direction of a *telecommunication* channel, for example, by means of manual control. [6]
single-sideband emission:	An amplitude modulated *emission* with one sideband only.

[5] In general, *semi-duplex operation* require two frequencies in *radiocommunication*;

[6] In general, *simplex operation* may use either one or two frequencies in *radiocommunication*;

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space operation service:	A *radiocommunication service* concerned exclusively with the operation of *spacecraft*, in particular *space tracking, space telemetry* and *space telecommand*. These functions will normally be provided within the service in which the *space station* is operating.
space radiocommunication:	Any *radiocommunication* involving the use of one or more *space stations* or the use of one or more *reflecting satellites* or other objects in space.
space research service:	A *radiocommunication service* in which *spacecraft* or other objects in space are used for scientific or technological research purposes.
space station:	A *station* located on an object which is beyond, is intended to go beyond, or has been beyond, the major portion of the Earth's atmosphere.
space system:	Any group of cooperating *earth stations* and/or *space stations* employing *space radiocommunication* for specific purposes.
space telecommand:	The use of *radiocommunication* for the transmission of signals to a *space station* to initiate, modify or terminate functions of equipment on an associated space object, including the *space station*.
space telemetry:	The use of *telemetry* for the transmission from a *space station* of results of measurements made in a *spacecraft*, including those relating to the functioning of the *spacecraft*.
space tracking:	Determination of the *orbit*, velocity or instantaneous position of an object in space by means of *radiodetermination*, excluding *primary radar*, for the purpose of following the movement of the object.
spacecraft:	A man-made vehicle which is intended to go beyond the major portion of the Earth's atmosphere.
special service:	A *radiocommunication service*, not otherwise defined in this Section, carried on exclusively for specific needs of general utility, and not open to *public correspondence*.
spurious domain (of an emission):	The frequency range beyond the *out-of-band domain* in which *spurious emissions* generally predominate. (WRC-03)
spurious emission:	*Emission* on a frequency or frequencies which are outside the *necessary bandwidth* and the level of which may be reduced without affecting the corresponding transmission of information. Spurious emissions include harmonic *emissions*, parasitic *emissions*, intermodulation products and frequency conversion products, but exclude *out-of-band emissions*.
standard frequency and time signal service:	A *radiocommunication service* for scientific, technical and other purposes, providing the transmission of specified frequencies, time signals, or both, of stated high precision, intended for general reception.
standard frequency and time signal station:	A *station* in the *standard frequency and time signal service*.
station:	One or more transmitters or receivers or a combination of transmitters and receivers, including the accessory equipment, necessary at one location for carrying on a *radiocommunication service*, or the *radio astronomy service*. Each station shall be classified by the service in which it operates permanently or temporarily.
steerable satellite beam:	A *satellite* antenna beam that can be re-pointed.
suppressed carrier single-sideband emission:	A *single-sideband emission* in which the carrier is virtually suppressed and not intended to be used for demodulation.
survival craft station:	A *mobile station* in the *maritime mobile service* or the *aeronautical mobile service* intended solely for survival purposes and located on any lifeboat, life-raft or other survival equipment.
telecommand:	The use of *telecommunication* for the transmission of signals to initiate, modify or terminate functions of equipment at a distance.

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telecommunication:	Any transmission, emission or reception of signs, signals, writings, images and sounds or intelligence of any nature by wire, radio, optical or other electromagnetic systems (CS).
telegram:	Written matter intended to be transmitted by *telegraphy* for delivery to the addressee. This term also includes *radiotelegrams* unless otherwise specified (CS). In this definition the term *telegraphy* has the same general meaning as defined in the Convention.
telegraphy[7]	A form of *telecommunication* in which the transmitted information is intended to be recorded on arrival as a graphic document; the transmitted information may sometimes be presented in an alternative form or may be stored for subsequent use (CS 1016).
telemetry:	The use of *telecommunication* for automatically indicating or recording measurements at a distance from the measuring instrument.
telephony:	A form of *telecommunication* primarily intended for the exchange of information in the form of speech (CS 1017).
television:	A form of *telecommunication* for the transmission of transient images of fixed or moving objects.
terrestrial radiocommunication:	Any *radiocommunication* other than *space radiocommunication* or *radio astronomy.*
terrestrial station:	A *station* effecting *terrestrial radiocommunication*. In these Regulations, unless otherwise stated, any *station* is a terrestrial station.
tropospheric scatter:	The propagation of *radio waves* by scattering as a result of irregularities or discontinuities in the physical properties of the troposphere.
unwanted emissions:	Consist of *spurious emissions* and *out-of-band emissions*.

[7] A graphic document records information in a permanent form and is capable of being filed and consulted; it may take the form of written or printed matter or of a fixed image.

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1.2 Acronyms

AAA	Astronomy Advantage Area
ACS	Automatic Connection System
AGAA	Astronomy Geographic Advantage Act, 2007 (Act No. 21 of 2007)
ASDE	Airports Surface Detection Equipment
ATC/CGC	Auxiliary Terrestrial Component /Complimentary Ground Component
BFWA	Broadband Fixed Wireless Access
BSS	Broadcast Satellite Service
BTX	Base Transmit
C-band	Frequency range between about 4 and 6 GHz
CT2	Second generation cordless telephones operating to specification MPT1334.
dBW	Decibels relative to one Watt of power.
DECT	Digital European Cordless Telecommunication system. ERC Decision ERC/DEC/ (94)03 refers.
DF	Duplex Frequency
DSC	Digital Selective Calling
DSSS	Direct Sequence Spread Spectrum
ECA	Electronic Communications Act, 2005 (No 36. of 2005) (also, the "Act").
ENG	Electronic News Gathering
ENG/OB	Electronic News Gathering / Outside Broadcasting
EPIRB	Emergency Position Indicating Radio Beacon
FDDA	Field Disturbance and Doppler Apparatus
FM	Frequency Modulation
FSS	Fixed Satellite Service
FWA	Fixed Wireless Access

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GLONASS	Global Navigation Satellite System
GMDSS	Global Maritime Distress and Safety System.
GPS	Global Positioning System - a satellite radio navigation system.
GSM	Global System for Mobile Communications. Originally Groupe Spécial Mobile. See ERC Decision ERC/DEC/ (94)01.
GSM-R	GSM Railways
GSO	Geostationary Orbit
HAP	High Altitude Platform
HDFS	High Density Fixed Service
HDFSS	High Density Fixed Satellite Service
HF	High Frequency (3 to 30 MHz)
ICAO	International Civil Aviation Organisation
ILS	Instrument Landing System-aeronautical radio navigation system.
IMO	International Maritime Organisation
IMT	International Mobile Telecommunications
ISM	Industrial, Scientific and Medical. The use of radio for non-communication purposes such as microwave heating etc.
ITU	International Telecommunication Union.
Ku-band	Part of the frequency band between about 12 and 18 GHz
LEO	Low Earth Orbit satellite
LMDS	Local Multipoint Distribution Services
LPVS	Low Power Video Surveillance
LTE	Long Term Evolution

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MF	Medium Frequency (300 to 3000 kHz)
MMS	Maritime Mobile Service
MSI	Maritime Safety Information
MPT	Mobile Public Trunking
MSS	Mobile Satellite Service
NGSO	Non-geostationary Satellite Orbit
OB	Outside Broadcast.
PAMR	Public Access Mobile Radio.
PMR	Private Mobile Radio.
PPDR	Public Protection and Disaster Relief
PSTN	Public Switched Telephone Network
RFID	Radio Frequency Identification systems
RLAN	Radio Local Area Network
RNSS	Radio Navigation Satellite Service
RR	Radio Regulation of the International Telecommunication Union
RTT	Road Transport Telematics
SAB	Services Ancillary to Broadcasting
SABRE	South African Band Replanning Exercise
SADC	Southern African Development Community
SAP	Services Ancillary to Programme-making
S-DAB	Satellite Digital Audio Broadcasting
SHF	Super High Frequency (3 to 30 GHz)
SKA	Square Kilometre Array
SNG	Satellite News Gathering

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SRDs	Short Range Devices, formerly referred to as Low Power Devices (LPDs).
T-DAB	Terrestrial Digital Audio Broadcasting.
TDD	Time Division Duplex
UHF	Ultra-High Frequency (300 to 3000 MHz)
UAV	Unmanned Aerial Vehicle
VHF	Very High Frequency (30 to 300 MHz)
VLF	Very Low Frequency (3 to 30 kHz)
VOR	Very high frequency Omnidirectional Range (aeronautical radionavigation system).
VSAT	Very Small Aperture Terminal
WAS	Wireless Access Services
WARC	World Administrative Radio Conference. The last WARC was held in 1992. WARCs are now superseded by WRCs.
WLAN	Wireless Local Area Network
WRC	World Radiocommunication Conference.

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2 PREAMBLE

2.1 Legislative Framework

Section 30 (1) of the Electronic Communications Act, 2005 (Act No. 36 of 2005) (the "ECA"/ "Act)", provides that "*In carrying out its functions under this Act and the related legislation, the Authority controls, plans, administers and manages the use and licensing of the radio frequency spectrum …*"

Section 34 (2) of the Electronic Communications Act provides that "*The Minister must approve the national radio frequency plan developed by the Authority, which must set out the specific frequency bands designated for use by particular types of services, taking into account the radio frequency spectrum bands allocated to the security services.*"

Section 34 (5) of the Electronic Communications Act provides that "*The national frequency plan must be updated when necessary in order to keep the plan current. When updating and amending this plan due regard must be given to the current and future usage of spectrum.*"

Section 231 (2) of the Constitution of the Republic of South Africa, 1996 provides that "*An international agreement binds the Republic only after it has been approved by resolution in both the National Assembly and the National Council of Provinces, unless it is an agreement referred to in subsection (3).*"

The NRFP-25 allocates the Radio Frequency Spectrum to Radio Services in the Frequency Bands between 8.3 kHz and 3000 GHz. All frequency assignments must be in accordance with the national radio frequency plan.

The Draft National Radio Frequency Plan 2025 (NRFP-25) incorporates the decisions taken by the 2023 World Radiocommunication Conferences (WRC-23). The revision reflects the 2024 version of the ITU Radio Regulations edition, including the frequency allocations relevant to Region 1 and its associated footnotes. It also includes updates on the Table of Frequency Allocations extending up to 3000 GHz and South African National Footnotes.

The ITU Radio Regulations edition of 2024 provides the ITU-R Resolutions and Recommendations referred in this document.

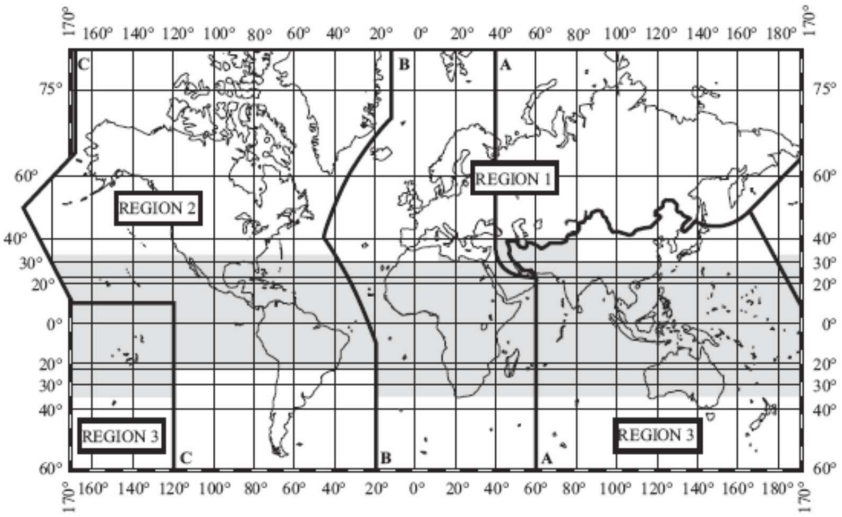
The following updates and amendments amongst others have been implemented in NRFP -25:

- National footnotes have been revised.
- The resolutions and decisions taken by World Radiocommunication Conferences preceding WRC-23.
- The resolutions and decisions taken by the WRC-23, as ratified by South Africa (Republic of), have been reflected.
- Incorporated references to the SADC Frequency Allocation Plan (FAP) and SADC Harmonised Guidelines
- Incorporated the published RFSAP's where applicable.

2.2 ITU-R Radio Regions

For the purposes of allocating frequencies, the ITU has divided the world into three Regions as shown on the following map:

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Region 1: Region 1 includes the area limited on the east by line A (lines A, B and C are defined below) and on the west by line B, excluding any of the territory of the Islamic Republic of Iran which lies between these limits. It also includes the whole of the territory of Armenia, Azerbaijan, the Russian Federation, Georgia, Kazakhstan, Mongolia, Uzbekistan, Kyrgyzstan, Tajikistan, Turkmenistan, Turkey and Ukraine and the area to the north of Russian Federation which lies between lines A and C.

Region 2: Region 2 includes the area limited on the east by line B and on the west by line C.

Region 3: Region 3 includes the area limited on the east by line C and on the west by line A, except any of the territory of Armenia, Azerbaijan, the Russian Federation, Georgia, Kazakhstan, Mongolia, Uzbekistan, Kyrgyzstan, Tajikistan, Turkmenistan, Turkey and Ukraine and the area to the north of Russian Federation. It also includes that part of the territory of the Islamic Republic of Iran lying outside of those limits.

The Republic of South Africa falls under ITU Region 1 and thus aligns its frequency allocations with those specified for ITU Region 1 in the ITU Radio Regulations as required by the Act.

2.3 Structure of the Table of Frequency Allocations

The Table of Frequency Allocations (section 4) lists all the allocations in the radio-frequency spectrum in the Republic of South Africa. The structure of the Table, which is outlined below, is similar to that of the International Table of Frequency Allocations as it appears in Article **5** of the ITU Radio Regulations.

The Table of Frequency Allocations covers the frequency range 8.3 kilohertz (kHz) to 3 000 Gigahertz (GHz). The table of frequency allocations list for each frequency range the radiocommunication services that are permitted and which ones are currently in use in South Africa. Information is also given on possible future uses or changes in use of particular frequency bands.

2.3.1 Column 1 - ITU Region 1 Allocations and footnotes

This column shows the type of radiocommunications service allocated to the frequency band by ITU. These allocations are defined in the ITU Radio Regulations. Entries in UPPER CASE denote primary services while entries in lower case denote secondary services as defined in the ITU Radio Regulations. Footnotes (e.g., **5.149**) are the footnotes to the Table of Frequency Allocations as detailed in Article **5** of the Radio Regulations.

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Values in this column denote the radio-frequency band. Magnitude of frequency units used in the column header are: kHz indicates kilohertz, MHz indicates Megahertz and GHz indicates Gigahertz.
Secondary services are on a non-interference and non-protection basis (NINP) to the primary services[8].
Spectrum assigned on a secondary basis means that the secondary station:

(i) cannot cause harmful interference to stations of primary services to which frequencies are already assigned or to which frequencies may be assigned at a later date;
(ii) cannot claim protection from harmful interference from stations of a primary service to which frequencies are already assigned or may be assigned at a later date, however;
(iii) can claim protection from interference from stations of the secondary service(s) to which frequencies may be assigned at a later date.

The frequency band referred to in each allocation is indicated in the left hand top corner of the part of the Table concerned.

The order of listing does not indicate relative priority within each category.
The footnote references are those that appear in Article 5 of the ITU Radio Regulations and are applicable to region 1.

- The footnote references which appear in the bottom of the table reflect the allocated service or services which apply to more than one of the allocated services, or to the whole of the allocation concerned.
- The footnote references which appear to the right of the name of a service are applicable only to that particular service.

2.3.2 Column 2 – South African allocations and footnotes

This column indicates the allocations of radiocommunication service(s) specified for South Africa, based on Article **5** of the ITU Radio Regulations. Names of services are based on the definitions in the ITU Radio Regulations and footnotes relevant to South Africa are included. The allocations highlighted with UPPER-CASE letters correspond to primary status allocations; the allocations with secondary status are written in lower-case.

Values in this column denote the radio-frequency band. The magnitude of the frequency units used in the column header are: kilohertz(kHz), Megahertz(MHz) and GHz indicates Gigahertz.
Whilst the South African allocations are broadly aligned with the ITU Region 1 requirements, a number of variations exist. In accordance with Radio Regulations No. **4.4**, such variations are subject to the condition that the associated radio installations do not cause harmful interference to the radio services or communications of other ITU Member States that operate in accordance with the provisions of the Radio Regulations, and that the possibility of harmful interference from such services and communications is accepted.

The column further makes reference to national footnotes (e.g., NF xx) that are indicated as 'NF' and appear in the table of allocation on the same basis as the ITU footnotes.

2.3.3 Column 3 – Typical Applications

This column indicates the current national usage of the frequency band in South Africa and contains allowed applications. Contains the main service, systems and application(s) of this frequency band or a part of it, authorized in South Africa. If the use covers more than one frequency band or concerns only one part of the band, the frequency range is generally indicated.

[8] Article **4.4** of the Radio Regulations: Administrations of the Member States shall not assign to a station any frequency in derogation of either the Table of Frequency Allocations in this Chapter or the other provisions of these Regulations, except on the express condition that such a station, when using such a frequency assignment, shall not cause harmful interference to, and shall not claim protection from harmful interference caused by, a station operating in accordance with the provisions of the Constitution, the Convention and these Regulations.

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2.3.4 Column 4 – Notes and comments

This column gives relevant document references as well as other additional information applicable to the frequency band. This column contains information about reference documents and relevant standards as well as other guidelines applicable to the frequency band, e.g., Government Gazette Notices pertinent to specific frequency bands, future requirements in specific bands, and ITU-R Recommendations or Resolutions which require implementation.

2.3.5 ITU-R Region 1 and National Footnotes

South African National Footnotes and ITU-R footnotes applicable to Region 1 are contained in sections 5 and 6 respectively.

2.3.6 List of frequency bands used for Maritime services

The List of frequency bands used for Maritime services is contained in section 8.

2.3.7 Frequency and wavelength bands

The radio spectrum shall be subdivided into nine frequency bands, which shall be designated by progressive whole numbers in accordance with the following table. As the unit of frequency is the hertz (Hz), frequencies shall be expressed:

– in kilohertz (kHz), up to and including 3 000 kHz;

– in megahertz (MHz), above 3 MHz, up to and including 3 000 MHz;

– in gigahertz (GHz), above 3 GHz, up to and including 3 000 GHz.

However, where adherence to these provisions would introduce serious difficulties, for example in connection with the notification and registration of frequencies, the lists of frequencies and related matters, reasonable departures may be made. (WRC-15).

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Table 1: Frequency and wavelength bands

Band number	Symbols	Frequency Range (lower limit exclusive, upper limit inclusive)	Corresponding metric Subdivision=
4	VLF	3 to 30 kHz	Myriametric waves
5	LF	30 to300 kHz	Kilometric waves
6	MF	300 to 3 000kHz	Hectometric waves
7	HF	3 to 30 MHz	Decametric waves
8	VHF	30 to300 MHz	Metric waves
9	UHF	300 to 3000 MHz	Decimetric waves
10	SHF	3 to 30 GHz	Centimetric waves
11	EHF	30 to300 GHz	Millimetric waves
12		300 to 3000 GHz	Decimillimetric waves

NOTE 1: "Band N" (N = band number) extends from 0.3×10^N Hz to 3×10^N Hz.
NOTE 2: Prefix: k = kilo (10^3), M = mega (10^6), G = giga (10^9).

Table 2: Standard Frequency Band Nomenclature

Table 2 below illustrates the standard letter-band designations.

Band	Frequency Range (GHz)	Wavelength in Free Space (centimeters)
L band	1 to 2	30.0 to 15.0
S band	2 to 4	15 to 7.5
C band	4 to 8	7.5 to 3.8
X band	8 to 12	3.8 to 2.5
Ku band	12 to 18	2.5 to 1.7
K band	18 to 27	1.7 to 1.1
Ka band	27 to 40	1.1 to 0.75
V band	40 to 75	0.75 to 0.40
W band	75 to 110	0.40 to 0.27
Millimetre band	110 to 300	0.27 to 0.10

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3 CONTACT DETAILS

Further information on the South African Table of Frequency Allocations and its interpretation can be obtained by contacting:

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URL: http://www.icasa.org.za
E-mail: info@icasa.org.za

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4 TABLE OF FREQUENCY ALLOCATIONS

ITU Region 1 allocations and footnotes	South African allocations and footnotes	Typical Applications	Notes and Comments
Below 8.3 kHz (Not allocated) 5.53 5.54	**Below 8.3 kHz** (Not allocated) 5.53 5.54		Frequency bands below 8.3 kHz are not allocated in South Africa
8.3-9 kHz METEOROLOGICAL AIDS 5.54A 5.54B 5.54C	**8.3-9 kHz** METEOROLOGICAL AIDS 5.54A	Thunderstorm detection stations	
9-11.3 kHz METEOROLOGICAL AIDS 5.54A RADIONAVIGATION	**9-11.3 kHz** METEOROLOGICAL AIDS 5.54A RADIONAVIGATION	Thunderstorm detection stations Navigational Aids Inductive Loop Systems (9 – 135 kHz)	Radio Frequency Spectrum Regulations as amended (Annex B) (GG. No. 38641, 30 March 2015).
11.3-14 kHz RADIONAVIGATION	**11.3-14 kHz** RADIONAVIGATION	Navigational Aids Inductive Loop Systems (9 – 135 kHz) SRDs – inductive short-range radiocommunications (9 – 135 kHz)	Radio Frequency Spectrum Regulations as amended (Annex B) (GG. No. 38641, 30 March 2015). SRDs - see ITU-R Rec.SM. 1896-1[9] latest version.

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ITU Region 1 allocations and footnotes	South African allocations and footnotes	Typical Applications	Notes and Comments
14-19.95 kHz FIXED MARITIME MOBILE 5.57 5.55 5.56	**14-19.95 kHz** FIXED MARITIME MOBILE 5.57 5.56	Maritime mobile communications Inductive Loop Systems (9 – 135 kHz) SRDs – inductive short-range radiocommunications (9 – 135 kHz)	Radio Frequency Spectrum Régulations as amended (Annex B) (GG. No. 38641, 30 March 2015). SRDs - see ITU-R Rec.SM. 2153-7 latest version.
19.95-20.05 kHz STANDARD FREQUENCY AND TIME SIGNAL (20 kHz)	**19.95-20.05 kHz** STANDARD FREQUENCY AND TIME SIGNAL (20 kHz)	SRDs – inductive short-range radiocommunications (9 – 135 kHz)	Radio Frequency Spectrum Regulations as amended (Annex B) (GG. No. 38641, 30 March 2015) SRDs - see ITU-R Rec.SM. 1896-1 latest version.
20.05-70 kHz FIXED MARITIME MOBILE 5.57	**20.05-70 kHz** FIXED MARITIME MOBILE 5.57 STANDARD FREQUENCY AND TIME SIGNAL	Maritime mobile communications Inductive Loop Systems (9 – 135 kHz) RFID (59.75 – 60.25 kHz) SRDs – inductive short-range radiocommunications (9 –135 kHz)	Radio Frequency Spectrum Regulations as amended (Annex B) (GG. No., 38641 March 2015)

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ITU Region 1 allocations and footnotes	South African allocations and footnotes	Typical Applications	Notes and Comments
5.56 5.58	5.56		SRDs - see ITU-R Rec.SM. 1896-1 latest version.
70-72 kHz RADIONAVIGATION 5.60	**70-72 kHz** RADIONAVIGATION 5.60	Navigational Aids ~~Inductive Loop Systems (9 – 135 kHz)~~ RFID (70 – 135 kHz) SRDs – inductive short-range radiocommunications (9 – 135 kHz) Ultra-Low Power Active Medical implants (ULP-AMI) inductive applications (9 kHz -148.5 kHz)	Radio Frequency Spectrum Regulations as amended (Annex B) (GG. No. 386410 March 2015) SRDs - see ITU-R Rec.SM.1896-X latest version. Report ITU-R .SM. 2153-72153-X Inductive SRD : ETSI EN 300 330 ULP-AMI (9 kHz - 315 kHz) ETSI EN 302 195
72-84 kHz FIXED MARITIME MOBILE 5.57 RADIONAVIGATION 5.60	**72-84 kHz** FIXED MARITIME MOBILE 5.57 RADIONAVIGATION 5.60 STANDARD FREQUENCY AND TIME SIGNAL	Maritime mobile communications Navigational Aids Inductive Loop Systems (9 – 135 kHz) RFID (70 – 135 kHz)	Radio Frequency Spectrum Regulations as amended (Annex B) (GG. No. 38641, 30 March 2015). SRDs - see ITU-R Rec.SM. 1896-latest version.

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ITU Region 1 allocations and footnotes	South African allocations and footnotes	Typical Applications	Notes and Comments
5.56	5.56	SRDs – inductive short-range radiocommunications (9 – 135 kHz) ultra-Low Power Active Medical Implants(ULP-AMI)inductive applications (9 kHz-148.5 kHz)	Report ITU-R .SM. 2153-72153-X Inductive SRD : ETSI EN 300 330
84-86 kHz RADIONAVIGATION 5.60	**84-86 kHz** RADIONAVIGATION 5.60	Navigational Aids Inductive Loop Systems (9 – 135 kHz) RFID (70 – 135 kHz) SRDs – inductive short-range radiocommunications (9 – 135 kHz)	Radio Frequency Spectrum Regulations (Annex B) (GG. No.38641, 30 March 2015). SRDs - see ITU-R Rec.SM. 1896-1 latest version.
86-90 kHz FIXED MARITIME MOBILE 5.57 RADIONAVIGATION	**86-90 kHz** FIXED MARITIME MOBILE 5.57 RADIONAVIGATION STANDARD FREQUENCY AND TIME SIGNAL	Maritime mobile communications Navigational Aids Inductive Loop Systems (9 – 135 kHz) RFID (70 – 135 kHz) SRDs – inductive short-range radiocommunications (9 – 135 kHz)	Radio Frequency Spectrum Regulations (Annex B) (GG. No.38641, 30 March 2015) SRDs - see ITU-R Rec.SM. 1896-1 latest version.

ITU Region 1 allocations and footnotes	South African allocations and footnotes	Typical Applications	Notes and Comments
5.56	5.56		
90-110 kHz RADIONAVIGATION 5.62 Fixed 5.64	**90-110 kHz** RADIONAVIGATION 5.62 Fixed 5.64	Navigational Aids Inductive Loop Systems (9 – 135 kHz) RFID (70 – 135 kHz) SRDs – inductive short-range radiocommunications (9 – 135 kHz)	Radio Frequency Spectrum Regulations (Annex B) (GG. No. 38641, 30 March 2015). SRDs - see ITU-R Rec.SM. 1896-1 latest version.
110-112 kHz FIXED MARITIME MOBILE RADIONAVIGATION 5.64	**110-112 kHz** FIXED MARITIME MOBILE RADIONAVIGATION 5.64	Maritime mobile communications Navigational Aids Inductive Loop Systems (9 – 135 kHz) RFID (70 – 135 kHz) SRDs – inductive short-range radiocommunications (9 – 135 kHz)	Radio Frequency Spectrum Regulations (Annex B) (GG. No. 38641, 30 March 2015). SRDs - see ITU-R Rec.SM. 1896-1 latest version.
112-115 kHz RADIONAVIGATION 5.60	**112-115 kHz** RADIONAVIGATION 5.60	Navigational Aids	Radio Frequency Spectrum Regulations (Annex B) (GG. No.38641, 30 March 2015).

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ITU Region 1 allocations and footnotes	South African allocations and footnotes	Typical Applications	Notes and Comments
		Inductive Loop Systems (9 – 135 kHz) RFID (70 – 135 kHz) SRDs – inductive short-range radiocommunications (9 – 135 kHz)	SRDs - see ITU-R Rec.SM. 1896-1 latest version.
115-117.6 kHz RADIONAVIGATION 5.60 Fixed Maritime mobile 5.64 5.66	**115-117.6 kHz** RADIONAVIGATION 5.60 Fixed Maritime mobile 5.64	Navigational Aids Maritime mobile communications Inductive Loop Systems (9 – 135 kHz) RFID (70 – 135 kHz) SRDs – inductive short-range radiocommunications (9 – 135 kHz)	Radio Frequency Spectrum Regulations (Annex B) (GG. No.38641, 30 March 2015).) SRDs - see ITU-R Rec.SM. 1896-1 latest version.
117.6-126 kHz FIXED MARITIME MOBILE RADIONAVIGATION 5.60	**117.6-126 kHz** FIXED MARITIME MOBILE RADIONAVIGATION 5.60	Maritime mobile communications Navigational Aids Inductive Loop Systems (9 – 135 kHz) RFID (70 – 135 kHz) SRDs – inductive short-range radiocommunications (9 – 135 kHz)	Radio Frequency Spectrum Regulations (Annex B) (GG. No.38641, 30 March 2015). SRDs - see ITU-R Rec.SM. 1896-1 latest version.

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ITU Region 1 allocations and footnotes	South African allocations and footnotes	Typical Applications	Notes and Comments
5.64	5.64		
126-129 kHz RADIONAVIGATION 5.60	**126-129 kHz** RADIONAVIGATION 5.60	Navigational Aids Inductive Loop Systems (9 – 135 kHz) RFID (70 – 135 kHz) SRDs – inductive short-range radiocommunications (9 – 135 kHz)	Radio Frequency Spectrum Regulations (Annex B) (GG. No.38641, 30 March 2015). SRDs - see ITU-R Rec.SM. 1896-1 latest version.
129-130 kHz FIXED MARITIME MOBILE RADIONAVIGATION 5.60 5.64	**129-130 kHz** FIXED MARITIME MOBILE RADIONAVIGATION 5.60 5.64	Maritime mobile communications Navigational Aids Inductive Loop Systems (9 – 135 kHz) RFID (70 – 135 kHz) SRDs – inductive short-range radiocommunications (9 – 135 kHz)	Radio Frequency Spectrum Regulations (Annex B) (GG. No.38641, 30 March 2015). SRDs - see ITU-R Rec.SM. 1896-1 latest version.
130-135.7 kHz FIXED MARITIME MOBILE	**130-135.7 kHz** FIXED MARITIME MOBILE	Maritime mobile communications Inductive Loop Systems (9 – 135 kHz) RFID (70 – 135 kHz)	Radio Frequency Spectrum Regulations (Annex B) (GG. No.38641, 30 March 2015).

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ITU Region 1 allocations and footnotes	South African allocations and footnotes	Typical Applications	Notes and Comments
5.64 5.67	5.64	SRDs – inductive short-range radiocommunications (9 – 135 kHz)	SRDs - see ITU-R Rec.SM. 1896-1 latest version.
135.7-137.8 kHz FIXED MARITIME MOBILE Amateur 5.67A 5.64 5.67 5.67B	**135.7-137.8 kHz** FIXED MARITIME MOBILE Amateur 5.67A 5.64	Maritime mobile communications Amateur	Amateur (135.7-137.8 kHz) services are limited to maximum radiated power of 1 W (e.i.r.p). Radio Frequency Spectrum Regulations (Annex B) (GG. No.38641, 30 March 2015).
137.8-148.5 kHz FIXED MARITIME MOBILE 5.64 5.67	**137.8-148.5 kHz** FIXED MARITIME MOBILE 5.64	Maritime mobile communications	
148.5-255 kHz BROADCASTING	**148.5-160 kHz** BROADCASTING	Broadcasting	Frequency Assignment Plan (GE75) applies.
	160-200 kHz FIXED		

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ITU Region 1 allocations and footnotes	South African allocations and footnotes	Typical Applications	Notes and Comments
	5.68		
	200-255 kHz AERONAUTICAL RADIONAVIGATION 5.70	Navigational Aids	
5.68 5.69 5.70			
255-283.5 kHz BROADCASTING AERONAUTICAL RADIONAVIGATION 5.70	**255-283.5 kHz** AERONAUTICAL RADIONAVIGATION 5.70	Navigational Aids	
283.5-315 kHz AERONAUTICAL RADIONAVIGATION MARITIME RADIONAVIGATION (radiobeacons) 5.73	**283.5- 285.3 kHz** AERONAUTICAL RADIONAVIGATION MARITIME RADIONAVIGATION (radiobeacons) 5.73 MARITIME) RADIONAVIGATION 5.74	Navigational Aids Supplementary navigational information using narrow-band	
	285.3-285.7 kHz AERONAUTICAL RADIONAVIGATION	Navigational Aids	

ITU Region 1 allocations and footnotes	South African allocations and footnotes	Typical Applications	Notes and Comments
	MARITIME RADIONAVIGATION (radiobeacons) 5.73 5.74	Supplementary navigational information using narrow-band	
5.74	**285.7-315 kHz** AERONAUTICAL RADIONAVIGATION MARITIME RADIONAVIGATION (radiobeacons) 5.73 5.74	Navigational Aids Supplementary navigational information using narrow-band	
315-325 kHz AERONAUTICAL RADIONAVIGATION Maritime radionavigation (radiobeacons) 5.73 5.75	**315-325 kHz** AERONAUTICAL RADIONAVIGATION Maritime radionavigation (radiobeacons) 5.73	Navigational Aids Coast Radio Telegraph Stations Radionavigation	
2325-405 kHz AERONAUTICAL RADIONAVIGATION	**325-405 kHz** AERONAUTICAL RADIONAVIGATION	Navigational Aids	
405-415 kHz RADIONAVIGATION 5.76	**405-415 kHz** RADIONAVIGATION 5.76	Navigational Aids	

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ITU Region 1 allocations and footnotes	South African allocations and footnotes	Typical Applications	Notes and Comments
415-435 kHz MARITIME MOBILE 5.79 AERONAUTICAL RADIONAVIGATION	**415-435 kHz** MARITIME MOBILE 5.79 AERONAUTICAL RADIONAVIGATION	Maritime mobile communications Under the MMS, the use of the band 415-495 kHz is limited to radiotelegraphy	NAVDAT System (TX for coast stations only)
435-472 kHz MARITIME MOBILE 5.79 Aeronautical radionavigation 5.77 5.82	**435-472 kHz** MARITIME MOBILE 5.79 Aeronautical radionavigation 5.82	Maritime mobile communications Coast Stations in the NAVTEX service on 490 kHz; Res.339 applies. Transmission of navigational and meteorological warnings and urgent info for ships (NBDP telegraphy).	NAVDAT System (TX for coast stations only) Article 31 and Article 52 apply.
472-479 kHz MARITIME MOBILE 5.79 Amateur 5.80A Aeronautical radionavigation 5.77 5.80 5.80B 5.82	**472-479 kHz** MARITIME MOBILE 5.79 Amateur 5.80A Aeronautical radionavigation 5.82	Navigational Aids	NAVDAT System (TX for coast stations only)

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ITU Region 1 allocations and footnotes	South African allocations and footnotes	Typical Applications	Notes and Comments
479-495 kHz MARITIME MOBILE 5.79 5.79A Aeronautical radionavigation 5.77 5.82	**479-495 kHz** MARITIME MOBILE 5.79 5.79A Aeronautical radionavigation 5.82	NAVTEX service on 490 kHz	NAVDAT System (TX for coast stations only) Article 31 and Article 52 apply
495-505 kHz MARITIME MOBILE 5.82C 5.82D	**495-505 kHz** MARITIME MOBILE 5.82C 5.82D	Limited to radiotelegraphy;	NAVDAT System (TX for coast stations only) Article 31 and Article 52 apply. Resolution **364 (WRC-23)** apply.
505-526.5 kHz MARITIME MOBILE 5.79 5.79A 5.84 AERONAUTICAL RADIONAVIGATION	**505-526.5 kHz** MARITIME MOBILE 5.79 5.79A 5.84 AERONAUTICAL RADIONAVIGATION	Maritime mobile communications Maritime Radio Telegraphy NAVTEX service on 518 kHz Coast Stations in the NAVTEX service on 518 kHz; Navigational Aids	NAVDAT System (TX for coast stations only) Articles 31 and 52 apply. Resolution 339 Rev.WRC-07) applies. The use of the band 505-526.5 kHz in the MMS is limited to radiotelegraphy.
526.5-1 606.5 kHz BROADCASTING	**526.5-1 606.5 kHz** BROADCASTING	Medium Wave Sound Broadcasting (535.5 -1606.5 kHz) Inductive Loop Systems (740 – 8800 kHz)	The Terrestrial Broadcasting Frequency Plan as amended (GG No. 36321) 02 April 2013 Radio Frequency Spectrum Regulations (Annex B) (GG. No.38641, 30 March 2015).

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ITU Region 1 allocations and footnotes	South African allocations and footnotes	Typical Applications	Notes and Comments
5.87 5.87A		Digital Sound Broadcasting (DSB) services	Digital Sound Broadcasting (DSB) Regulations was published in GG44469 Notice 215 of 2021.
1 606.5-1 625 kHz FIXED MARITIME MOBILE 5.90 LAND MOBILE 5.92	**1 606.5-1 625 kHz** FIXED MARITIME MOBILE 5.90 LAND MOBILE RADIODETERMINATION 5.92	Maritime mobile communications Land mobile communications	
1 625-1 635 kHz RADIOLOCATION 5.93	**1 625-1 635 kHz** RADIOLOCATION	Navigational Aids	
1 635-1 800 kHz FIXED MARITIME MOBILE 5.90 LAND MOBILE 5.92 5.96	**1 635-1 800 kHz** FIXED MARITIME MOBILE 5.90 LAND MOBILE RADIODETERMINATION 5.92	Maritime mobile communications Land mobile communications	
1 800-1 810 kHz RADIOLOCATION	**1 800-1 810 kHz** RADIOLOCATION	Navigational Aids	

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ITU Region 1 allocations and footnotes	South African allocations and footnotes	Typical Applications	Notes and Comments
5.93			
1 810-1 850 kHz AMATEUR 5.98 5.99 5.100	**1 810-1 850 kHz** AMATEUR	Amateur communications	Radio Frequency Spectrum Regulations (Annex B) (GG. No.38641, 30 March 2015).
1 850-2 000 kHz FIXED MOBILE except aeronautical mobile 5.92 5.96 5.103	**1 850-2 000 kHz** FIXED MOBILE except aeronautical mobile RADIODETERMINATION 5.92 5.103	Maritime mobile applications. Maritime mobile communications Land mobile communications Amateur communications	1850-1950 kHz is used for Maritime Coast Stations; 1950-2045 kHz is used by ship stations SSB Radio Telephony. Radio Frequency Spectrum Regulations (Annex B) (GG. No.38641, 30 March 2015).
2 000-2 025 kHz FIXED MOBILE except aeronautical mobile (R) 5.92 5.103	**2 000-2 025 kHz** FIXED MOBILE except aeronautical mobile (R) RADIODETERMINATION 5.92 5.103	Maritime mobile communications Land mobile communications	1950-2045 kHz is used by ship stations SSB Radio Telephony
2 025-2 045 kHz FIXED	**2 025-2 045 kHz** FIXED		

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ITU Region 1 allocations and footnotes	South African allocations and footnotes	Typical Applications	Notes and Comments
MOBILE except aeronautical mobile (R) Meteorological aids 5.104 5.92 5.103	MOBILE except aeronautical mobile (R) Meteorological aids 5.104 RADIODETERMINATION 5.92 5.103	Maritime mobile communications Limited to Oceanographic buoy stations	1950-2045 kHz is used by ship stations SSB Radio Telephony
2 045-2 160 kHz FIXED MARITIME MOBILE LAND MOBILE 5.92	**2 045-2 160 kHz** FIXED MARITIME MOBILE LAND MOBILE RADIODETERMINATION 5.92	Maritime mobile communications Land mobile communications	
2 160-2 170 kHz RADIOLOCATION 5.93 5.107	**2 160-2 170 kHz** RADIOLOCATION	Navigational Aids	
2 170-2 173.5 kHz MARITIME MOBILE	**2 170-2 173.5 kHz** MARITIME MOBILE	Maritime mobile communications	
2 173.5-2 190.5 kHz MOBILE (distress and calling)	**2 173.5-2 190.5 kHz** MOBILE (distress and calling)	Distress & Watch keeping (2182 kHz) 2 182 kHz is an international distress and calling frequency for radiotelephony.	Article 31 and Article 52 applies 2 174.5 kHz – Recommendation ITU-R M.541

ITU Region 1 allocations and footnotes	South African allocations and footnotes	Typical Applications	Notes and Comments
5.108 5.109 5.110 5.111	5.108 5.109 5.110 5.111	2 187.5 kHz – DSC for distress and calling; 2 174.5 kHz – international distress frequency for NBDP telegraphy Automatic connection system.	
2 190.5-2 194 kHz MARITIME MOBILE	**2 190.5-2 194 kHz** MARITIME MOBILE	Maritime mobile communications	
2 194-2 300 kHz FIXED MOBILE except aeronautical mobile (R) 5.92 5.103	**2 194-2 300 kHz** FIXED MOBILE except aeronautical mobile (R) RADIODETERMINATION 5.92 5.103	Maritime mobile communications Land mobile communications	
2 300-2 498 kHz FIXED MOBILE except aeronautical mobile (R) BROADCASTING 5.113 5.103	**2 300-2 498 kHz** FIXED MOBILE except aeronautical mobile (R) BROADCASTING 5.113 5.103	Land Mobile and Maritime applications Sound Broadcasting	Terrestrial Broadcasting Frequency Plan 2013
2 498-2 501 kHz	**2 498-2 501 kHz**		

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ITU Region 1 allocations and footnotes	South African allocations and footnotes	Typical Applications	Notes and Comments
STANDARD FREQUENCY AND TIME SIGNAL (2 500 kHz)	STANDARD FREQUENCY AND TIME SIGNAL (2 500 kHz)		
2 501-2 502 kHz STANDARD FREQUENCY AND TIME SIGNAL Space Research	**2 501-2 502 kHz** STANDARD FREQUENCY AND TIME SIGNAL Space Research		
2 502-2 625 kHz FIXED MOBILE except aeronautical mobile (R) 5.92 5.103	**2 502-2 625 kHz** FIXED MOBILE except aeronautical mobile (R) RADIODETERMINATION 5.92 5.103	Land Mobile and Maritime applications	
2 625-2 650 kHz MARITIME MOBILE MARITIME RADIONAVIGATION 5.92	**2 625-2 650 kHz** MARITIME MOBILE MARITIME RADIONAVIGATION RADIODETERMINATION 5.92	Sonobuoys Maritime mobile communications	
2 650-2 850 kHz FIXED	**2 650-2 850 kHz** FIXED	Fixed Services links	

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ITU Region 1 allocations and footnotes	South African allocations and footnotes	Typical Applications	Notes and Comments
MOBILE except aeronautical mobile (R) 5.92 5.103	MOBILE except aeronautical mobile (R) RADIODETERMINATION 5.92 5.103	Maritime mobile communications Land mobile communications	
2 850-3 025 kHz AERONAUTICAL MOBILE (R) 5.111 5.115	**2 850-3 025 kHz** AERONAUTICAL MOBILE (R) 5.111 5.115	Aeronautical mobile (R) 3 023 kHz may be used under the MMS for search and rescue operations	Appendix 27 Allotment Plan applies Article 31 applies
3 025-3 155 kHz AERONAUTICAL MOBILE (OR)	**3 025-3 155 kHz** AERONAUTICAL MOBILE (OR)	Aeronautical mobile (OR)	Appendix 26 Allotment Plan applies
3 155-3 200 kHz FIXED MOBILE except aeronautical mobile (R) 5.116 5.117	**3 155-3 200 kHz** FIXED MOBILE except aeronautical mobile (R) 5.116	Maritime mobile communications Land mobile communications SRD[10] Low power wireless hearing aids	Radio Frequency Spectrum Regulations (Annex B) (GG. No.38641, 30 March 2015). Worldwide channel for low power hearing aids (3155 to 3195 kHz). Additional channels may be assigned in the band 3155 – 3400 kHz.

[10] http://www.crasa.org/common_up/crasa-setup/06-07-2015_SADC%20FREQUENCIES%20FOR%20SHORT%20RANGE%20DEVICE%20(SRDs)%20CRASA%20%202011%20-ANNEXURE%20B%20AND%20C.pdf

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ITU Region 1 allocations and footnotes	South African allocations and footnotes	Typical Applications	Notes and Comments
3 200-3 230 kHz FIXED MOBILE except aeronautical mobile (R) BROADCASTING 5.113 5.116	**3 200-3 230 kHz** FIXED MOBILE except aeronautical mobile (R) BROADCASTING 5.113 5.116	Maritime mobile communications Land mobile communications HF Sound Broadcasting Low power wireless hearing aids	Radio Frequency Spectrum Regulations (Annex B) (GG. No.38641, 30 March 2015). The Terrestrial Broadcasting Frequency Plan (GG no.36321) 02 April 2013 Worldwide channel for low power hearing aids (3155 to 3195 kHz). Additional channels may be assigned in the band 3155 – 3400 kHz.
3 230-3 400 kHz FIXED MOBILE except aeronautical mobile BROADCASTING 5.113 5.116	**3 230-3 400 kHz** FIXED MOBILE except aeronautical mobile BROADCASTING 5.113 5.116	HF Sound Broadcasting Low power wireless hearing aids	The Terrestrial Broadcasting Frequency Plan (GG no.36321) 02 April 2013 Worldwide channel for low power hearing aids (3155 to 3195 kHz). Additional channels may be assigned in the band 3155 – 3400 kHz.

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ITU Region 1 allocations and footnotes	South African allocations and footnotes	Typical Applications	Notes and Comments
3 400-3 500 kHz AERONAUTICAL MOBILE (R)	**3 400-3 500 kHz** AERONAUTICAL MOBILE (R)	Aeronautical mobile (R)	Appendix 27 Allotment Plan applies
3 500-3 800 kHz AMATEUR FIXED MOBILE except aeronautical mobile 5.92	**3 500-3 800 kHz** AMATEUR FIXED MOBILE except aeronautical mobile RADIODETERMINATION 5.92	Amateur communications Maritime communications Land mobile communications	Radio Frequency Spectrum Regulations (Annex B) (GG. No.38641, 30 March 2015).
3 800-3 900 kHz FIXED AERONAUTICAL MOBILE (OR) LAND MOBILE	**3 800-3 900 kHz** FIXED AERONAUTICAL MOBILE (OR) LAND MOBILE	Aeronautical mobile (OR)	Appendix 26 Allotment Plan applies
3 900-3 950 kHz AERONAUTICAL MOBILE (OR) 5.123	**3 900-3 950 kHz** AERONAUTICAL MOBILE (OR) BROADCASTING 5.123	Aeronautical mobile (OR)	Appendix 26 Allotment Plan applies
3 950-4 000 kHz FIXED	**3 950-4 000 kHz** FIXED		

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ITU Region 1 allocations and footnotes	South African allocations and footnotes	Typical Applications	Notes and Comments
BROADCASTING	BROADCASTING	HF Sound Broadcasting	The Terrestrial Broadcasting Frequency Plan (GG no.36321) 02 April 2013
4 000-4 063 kHz FIXED MARITIME MOBILE 5.127 5.126	**4 000-4 063 kHz** FIXED MARITIME MOBILE 5.127	Maritime mobile communications	Use of the band 4000-4063 kHz by the MMS is limited to ship stations using radiotelephony
4 063-4 438 kHz MARITIME MOBILE 5.79A 5.82D 5.109 5.110 5.130 5.131 5.132 5.128	**4 063-4 4 438 kHz** MARITIME MOBILE 5.79A 5.82D 5.109 5.110 5.130 5.131 5.132 FIXED 5.128	Maritime mobile communications 4125 kHz – use of this frequency prescribed in Article 31. 4209.5 kHz - Coast Stations in the NAVTEX service; Res.339 applies. 4207.5 kHz – DSC for distress and calling; 4177.5 kHz – ACS~~international distress frequency for NBDP telegraphy~~;. 4209.5 kHz – exclusive for transmission by coast stations of meteorological and navigational warnings and urgent information to ships (NBDP). 4210 kHz – maritime safety information (MSI)	See Section 7 for details ITU RR Appendix 17 Channelling Plan applies ITU RR Appendix 25 Allotment Plan applies Resolution 339 (Rev. WRC-07) applies Articles 31 and Article 52 applies Resolution **364 (WRC-23)** Recommendation ITU-R M.541 applies

ITU Region 1 allocations and footnotes	South African allocations and footnotes	Typical Applications	Notes and Comments
		4226 kHz – Coast stations in the NAVDAT system – Resolution 364 (WRC-23) applies	
4 438-4 488 kHz FIXED MOBILE except aeronautical mobile (R) Radiolocation 5.132A	**4 438-4 488 kHz** FIXED MOBILE except aeronautical mobile (R) Radiolocation 5.132A	 Maritime communications Land mobile communications Oceanographic Radars	
4 488-4 650 kHz FIXED MOBILE except aeronautical mobile (R)	**4 488-4 650 kHz** FIXED MOBILE except aeronautical mobile (R)		
4 650-4 700 kHz AERONAUTICAL MOBILE (R)	**4 650-4 700 kHz** AERONAUTICAL MOBILE (R)	Aeronautical mobile (R)	Appendix 27 Allotment Plan applies
4 700-4 750 kHz AERONAUTICAL MOBILE (OR)	**4 700-4 750 kHz** AERONAUTICAL MOBILE (OR)	Aeronautical mobile (OR)	Appendix 26 Allotment Plan applies
4 750-4 850 kHz	**4 750-4 850 kHz**		

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ITU Region 1 allocations and footnotes	South African allocations and footnotes	Typical Applications	Notes and Comments
FIXED AERONAUTICAL MOBILE (OR) LAND MOBILE BROADCASTING 5.113	FIXED AERONAUTICAL MOBILE (OR) LAND MOBILE BROADCASTING 5.113	Aeronautical mobile (OR) Land mobile HF Sound Broadcasting	Appendix 26 Allotment Plan applies The Terrestrial Broadcasting Frequency Plan (GG no.36321) 02 April 2013
4 850-4 995 kHz FIXED LAND MOBILE BROADCASTING 5.113	**4 850-4 995 kHz** FIXED LAND MOBILE BROADCASTING 5.113	Land mobile HF Sound Broadcasting	The Terrestrial Broadcasting Frequency Plan (GG no.36321) 02 April 2013
4 995-5 003 kHz STANDARD FREQUENCY AND TIME SIGNAL (5 000 kHz)	**4 995-5 003 kHz** STANDARD FREQUENCY AND TIME SIGNAL (5 000 kHz)		
5 003-5 005 kHz STANDARD FREQUENCY AND TIME SIGNAL Space research	**5 003-5 005 kHz** STANDARD FREQUENCY AND TIME SIGNAL Space research		
5 005-5 060 kHz FIXED BROADCASTING 5.113	**5 005-5 060 kHz** FIXED BROADCASTING 5.113	HF Sound Broadcasting	The Terrestrial Broadcasting Frequency Plan (GG no.36321) 02 April 2013

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ITU Region 1 allocations and footnotes	South African allocations and footnotes	Typical Applications	Notes and Comments
5 060-5 250 kHz FIXED Mobile except aeronautical mobile 5.133	**5 060-5 250 kHz** FIXED Mobile except aeronautical mobile	SADC harmonised HF frequencies for cross-border mobile communications;	
5 250-5 275 kHz FIXED MOBILE except aeronautical mobile Radiolocation 5.132A	**5 250-5 275 kHz** FIXED MOBILE except aeronautical mobile Radiolocation 5.132A	SADC[11] harmonised HF frequencies for cross-border mobile communications; Oceanographic Radar	Oceanographic Radars are used in accordance with ITU Resolution 612 (Rev WRC-12).
5 275-5 351.5 kHz FIXED MOBILE except aeronautical mobile	**5 275- 5 351.5 kHz** FIXED MOBILE except aeronautical mobile Amateur NF0	Amateur communications	
5 351.5-5 366.5 kHz FIXED MOBILE except aeronautical mobile	**5 351.5-5 366.5 kHz** FIXED MOBILE except aeronautical mobile		

[11] http://www.crasa.org/common_up/crasa-setup/10-03-2015_SADC%20FREQUENCY%20BAND%20%202013.pdf

ITU Region 1 allocations and footnotes	South African allocations and footnotes	Typical Applications	Notes and Comments
Amateur 5.133B	Amateur NF0	Amateur communications	
5 366.5-5 450 kHz FIXED MOBILE except aeronautical mobile	**5 366.5-5 450 kHz** FIXED MOBILE except aeronautical mobile		
5 450-5 480 kHz FIXED AERONAUTICAL MOBILE (OR) LAND MOBILE	**5 450-5 480 kHz** FIXED AERONAUTICAL MOBILE (OR) LAND MOBILE	Aeronautical mobile (OR)	Appendix 27 Allotment plan applies
5 480-5 680 kHz AERONAUTICAL MOBILE (R) 5.111 5.115	**5 480-5 680 kHz** AERONAUTICAL MOBILE (R) 5.111 5.115	Aeronautical mobile (R)	Appendix 27 Allotment plan applies
5 680-5 730 kHz AERONAUTICAL MOBILE (OR)	**5 680-5 730 kHz** AERONAUTICAL MOBILE (OR)	Aeronautical mobile (OR) 5 680 kHz may be used under the MMS for search and rescue operations .	Appendix 26Allotment plan applies Article 31 applies on the use of 6215 kHz Common international SRD band; see ITU-R Rec.SM 1896-1 latest version.

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ITU Region 1 allocations and footnotes	South African allocations and footnotes	Typical Applications	Notes and Comments
5.111 5.115	5.111 5.115	SRD[12] applications (5 725 – 5 875 kHz)	Radio Frequency Spectrum Regulations (Annex B) (GG. No.38641, 30 March 2015).
5 730-5 900 kHz FIXED LAND MOBILE	**5 730-5 900 kHz** FIXED LAND MOBILE	Land mobile communications	
5 900-5 950 kHz BROADCASTING 5.134 5.136	**5 900-5 950 kHz** BROADCASTING 5.134 Fixed 5.136 Land Mobile 5.136 5.136	HF Sound Broadcasting	The Terrestrial Broadcasting Frequency Plan (GG no.36321) 02 April 2013 Article 12 Planning Procedures and Res.517 apply.
5 950-6 200 kHz BROADCASTING	**5 950-6 200 kHz** BROADCASTING	HF Sound Broadcasting	The Terrestrial Broadcasting Frequency Plan (GG no.36321) 02 April 2013 Article 12 Planning Procedures and Res.517 apply.
6 200-6 525 kHz	**6 200-6 213.5 kHz** ~~FIXED~~		

[12] http://www.crasa.org/common_up/crasa-setup/06-07-2015_FRAME%20WORK%20FOR%20HARMONISATION%20FREQUENICES%20FOR%20SHORT%20RANGE%20DEVICES%20%20OF%20%20SHORT%20RANGE%20DEVICES%20%20(SRDs)%20-%20ANNEXURE%20A.pdf

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ITU Region 1 allocations and footnotes	South African allocations and footnotes	Typical Applications	Notes and Comments
MARITIME MOBILE 5.109 5.110 5.130 5.132 5.137A	MARITIME MOBILE 5.109 5.110 5.130 5.132 Fixed 5.137 6 200-6 213.5 kHz and 6 220.5-6 525 kHz 5.137	Maritime mobile communications 6314 kHz – ~~maritime safety information (MSI)~~	ITU RR ~~Appendix~~ Appendices 15 and 17 Channelling Plan applies ITU RR Appendix 25 Allotment Plan applies FS may be used on a secondary basis in the band 6 200 – 6 213.5 kHz and 6 220.5 – 6 525 kHz.
	6 213.5-6 220.5 kHz MARITIME MOBILE 5.109 5.110 5.130 5.132 5.137	Maritime mobile communications 6215 kHz DSC for distress and calling;	ITU RR Appendix 17 Channelling Plan applies ITU RR Appendix 25 Allotment Plan applies Article 31 applies FS may be used on a secondary basis in the band 6 200 – 6 213.5 kHz and 6 220.5 – 6 525 kHz.
5.137	**6 220.5-6 525 kHz** ~~FIXED~~ MARITIME MOBILE 5.109 5.110 5.130 5.132 5.137A Fixed 5.137	Maritime mobile communications 6312 kHz and 6215 kHz – DSC for distress and calling;	ITU RR Appendix 17 Channelling Plan applies ITU RR Appendix 25 Allotment Plan applies Article 31 applies

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ITU Region 1 allocations and footnotes	South African allocations and footnotes	Typical Applications	Notes and Comments
	~~5.137~~	6268 kHz – international distress frequency for NBDP telegraphy;. ~~6314~~ 6337.5 kHz – ~~maritime safety information (~~MSI~~)~~; App.17 applies	FS may be used on a secondary basis in the band 6 200 – 6 213.5 kHz and 6 220.5 – 6 525 kHz.
6 525-6 685 kHz AERONAUTICAL MOBILE (R)	**6 525-6 685 kHz** AERONAUTICAL MOBILE (R)	Aeronautical mobile communications (R)	Appendix 27 Allotment Plan applies
6 685-6 765 kHz AERONAUTICAL MOBILE (OR)	**6 685-6 765 kHz** AERONAUTICAL MOBILE (OR)	Aeronautical mobile communications (OR)	Appendix 26 Allotment Plan applies
6 765-7 000 kHz FIXED MOBILE except aeronautical mobile (R) 5.138	**6 765-7 000 kHz** FIXED MOBILE except aeronautical mobile (R) 5.138	Inductive Loop Systems (6765 – 6795 kHz)	
7 000-7 100 kHz AMATEUR AMATEUR-SATELLITE 5.140 5.141 5.141A	**7 000-7 100 kHz** AMATEUR AMATEUR-SATELLITE	Amateur communications Amateur-satellite communications	Radio Frequency Spectrum Regulations (Annex B) (GG. No.38641, 30 March 2015).

ITU Region 1 allocations and footnotes	South African allocations and footnotes	Typical Applications	Notes and Comments
7 100-7 200 kHz AMATEUR 5.141A 5.141B	**7 100-7 200 kHz** AMATEUR	Amateur communications	Radio Frequency Spectrum Regulations (Annex B) (GG. No.38641, 30 March 2015).
7 200-7 300 kHz BROADCASTING	**7 200-7 300 kHz** BROADCASTING	HF Sound Broadcasting	ITU RR Article 12 Planning Procedures applies
7 300-7 400 kHz BROADCASTING 5.134	**7 300-7 350 kHz** BROADCASTING 5.134 5.143B 5.143	HF Sound Broadcasting	The Terrestrial Broadcasting Frequency Plan (GG no.36321) 02 April 2013 Article 12 Planning Procedures and Res.517 apply. NINP basis to broadcasting FS and LMS may operate in the band 7 300 – 7 450 kHz on a secondary basis
	7 350-7 400 kHz BROADCASTING 5.134 FIXED 5.143 LAND MOBILE 5.143 5.143A	HF Sound Broadcasting	The Terrestrial Broadcasting Frequency Plan (GG no.36321) 02 April 2013 Article 12 Planning Procedures and Res.517 apply. NINP basis to broadcasting

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ITU Region 1 allocations and footnotes	South African allocations and footnotes	Typical Applications	Notes and Comments
5.143 5.143A 5.143B 5.143C 5.143D	5.143B 5.143D		
7 400-7 450 kHz BROADCASTING 5.143B 5.143C	**7 400-7 450 kHz** BROADCASTING 5.143B	HF Sound Broadcasting Inductive Loop Systems (7400 – 8800 kHz)	The Terrestrial Broadcasting Frequency Plan (GG no.36321) 02 April 2013 Article 12 Planning Procedures and Res.517 apply. Radio Frequency Spectrum Regulations (Annex B) (GG. No.38641, 30 March 2015). FS and LMS may operate in the band 7 350 – 7 450 kHz on a secondary basis
7 450-8 100 kHz FIXED MOBILE except aeronautical mobile (R) 5.144	**7 450-8 100 kHz** FIXED MOBILE except aeronautical mobile (R)	Inductive Loop Systems (7400 – 8800 kHz)	Radio Frequency Spectrum Regulations (Annex B) (GG. No.38641, 30 March 2015). SADC harmonised HF frequencies for cross-border mobile communications;
8 100-8 195 kHz FIXED MARITIME MOBILE	**8 100-8 195 kHz** FIXED MARITIME MOBILE	Maritime mobile communications Inductive Loop Systems (7400 – 8800 kHz)	Radio Frequency Spectrum Regulations (Annex B) (GG. No.38641, 30 March 2015).

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ITU Region 1 allocations and footnotes	South African allocations and footnotes	Typical Applications	Notes and Comments
8 195-8 815 kHz MARITIME MOBILE 5.109 5.110 5.132 ~~5.145~~5.137A 5.145 5.111	**8 195-8 815 kHz** MARITIME MOBILE 5.109 5.110 5.132 5.137A 5.145 5.111	Digital Selective Calling (GMDSS) Distress Watch keeping on 8414.5 kHz Transmission of meteorological bulletins and notices to navigators Inductive Loop Systems (7400 – 8800 kHz) Maritime mobile communications 8414.5 kHz – DSC for distress and calling; 8 376.5 kHz – ~~international distress frequency for NBDP telegraphy~~ACS; 8443 kHz – ~~maritime safety information (~~MSI~~)~~; App.17 applies.	Appendix 15 of ITU RR See Section 7 for details Radio Frequency Spectrum Regulations (Annex B) (GG. No.38641, 30 March 2015). ITU RR Appendix 17 Channelling Plan applies ITU RR Appendix 25 Allotment Plan applies Article 31 applies Article 31 applies. Recommendation ITU-R M.541 applies
8 815-8 965 kHz AERONAUTICAL MOBILE (R)	**8 815-8 965 kHz** AERONAUTICAL MOBILE (R)	Aeronautical mobile communications	Appendix 27 Allotment Plan applies
8 965-9 040 kHz AERONAUTICAL MOBILE (OR)	**8 965-9 040 kHz** AERONAUTICAL MOBILE (OR)	Aeronautical mobile communications	Appendix 26 Allotment Plan applies
9 040-9 305 kHz FIXED	**9 040-9 305 kHz** FIXED	Fixed Applications	

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ITU Region 1 allocations and footnotes	South African allocations and footnotes	Typical Applications	Notes and Comments
9 305-9 355 kHz FIXED Radiolocation 5.145A 5.145B	**9 305-9 355 kHz** FIXED Radiolocation 5.145A	Fixed Applications Oceanographic radars	
9 355-9 400 kHz FIXED	**9 355-9 400 kHz** FIXED		
9 400-9 500 kHz BROADCASTING 5.134 5.146	**9 400-9 500 kHz** BROADCASTING 5.134 5.146	HF Sound Broadcasting	The Terrestrial Broadcasting Frequency Plan (GG no.36321) 02 April 2013 Fixed services may be used on a secondary basis
9 500-9 900 kHz BROADCASTING	**9 500-9 775 kHz** BROADCASTING 5.147	HF Sound Broadcasting	The Terrestrial Broadcasting Frequency Plan (GG no.36321) 02 April 2013 ITU RR Article 12 Planning Procedures applies
	9 775-9 900 kHz BROADCASTING	HF Sound Broadcasting	

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ITU Region 1 allocations and footnotes	South African allocations and footnotes	Typical Applications	Notes and Comments
5.147	FIXED 5.147		The Terrestrial Broadcasting Frequency Plan (GG no.36321) 02 April 2013 ITU RR Article 12 Planning Procedures applies
9 900-9 995 kHz FIXED	**9 900-9 995 kHz** FIXED	Fixed Applications	
9 995-10 003 kHz STANDARD FREQUENCY AND TIME SIGNAL (10 000 kHz) 5.111	**9 995-10 003 kHz** STANDARD FREQUENCY AND TIME SIGNAL (10 000 kHz) 5.111		
10 003-10 005 kHz STANDARD FREQUENCY AND TIME SIGNAL Space research 5.111	**10 003-10 005 kHz** STANDARD FREQUENCY AND TIME SIGNAL Space research 5.111	Passive sensing	
10 005-10 100 kHz AERONAUTICAL MOBILE (R) 5.111	**10 005-10 100 kHz** AERONAUTICAL MOBILE (R) 5.111	Aeronautical mobile communications	Appendix 27 Allotment Plan applies
10 100-10 150 kHz	**10 100-10 150 kHz**		

ITU Region 1 allocations and footnotes	South African allocations and footnotes	Typical Applications	Notes and Comments
FIXED Amateur	FIXED Amateur	Fixed Applications Amateur communications	Radio Frequency Spectrum Regulations (Annex B) (GG. No.38641, 30 March 2015).
10 150-11 175 kHz FIXED Mobile except aeronautical mobile (R)	**10 150-11 175 kHz** FIXED Mobile except aeronautical mobile (R)	SADC harmonised HF frequencies for cross-border mobile communications;	
11 175-11 275 kHz AERONAUTICAL MOBILE (OR)	**11 175-11 275 kHz** AERONAUTICAL MOBILE (OR)	Aeronautical mobile communications	Appendix 26 Allotment Plan applies
11 275-11 400 kHz AERONAUTICAL MOBILE (R)	**11 275-11 400 kHz** AERONAUTICAL MOBILE (R)	Aeronautical mobile communications	Appendix 27 Allotment Plan applies
11 400-11 600 kHz FIXED	**11 400-11 600 kHz** FIXED	Fixed Applications	
11 600-11 650 kHz BROADCASTING 5.134	**11 600-11 650 kHz** BROADCASTING 5.134 FIXED	HF Sound Broadcasting	Article 12 Planning Procedures and Res.517 apply.

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ITU Region 1 allocations and footnotes	South African allocations and footnotes	Typical Applications	Notes and Comments
5.146			
11 650-12 050 kHz BROADCASTING 5.147	**11 650-11 700 kHz** BROADCASTING FIXED `	HF Sound Broadcasting	ITU RR Article 12 Planning Procedures applies
	11 700-11 975 kHz BROADCASTING 5.147	HF Sound Broadcasting	ITU RR Article 12 Planning Procedures applies
	11 975-12 050 kHz BROADCASTING FIXED 5.147	HF Sound Broadcasting	ITU RR Article 12 Planning Procedures applies
12 050-12 100 kHz BROADCASTING 5.134 5.146	**12 050-12 100 kHz** BROADCASTING 5.134 FIXED 5.146	HF Sound Broadcasting	Article 12 Planning Procedures and Res.517 apply.
12 100-12 230 kHz FIXED	**12 100-12 230 kHz** FIXED	Fixed Applications	
12 230-13 200 kHz	**12 230-13 200 kHz**		

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ITU Region 1 allocations and footnotes	South African allocations and footnotes	Typical Applications	Notes and Comments
MARITIME MOBILE 5.109 5.110 5.132 5.137A 5.145	MARITIME MOBILE 5.109 5.110 5.132 5.137A 5.145	Maritime mobile communications Digital Selective Calling(GMDSS) Distress Watch keeping (12 577 kHz) 12 577 kHz – DSC for distress and calling; 12 520 kHz – ~~international distress frequency for NBDP telegraphy~~ACS; 12 663 kHz – ~~maritime safety information (~~MSI~~)~~	ITU RR Appendix 17 Channeling Plan applies Appendix 15 of ITU RR Transmission of meteorological bulletins and notices to navigators See Section 7 for details ITU RR Appendix 17 Channelling Plan applies ITU RR Appendix 25 Allotment Plan applies Article 31 applies. Recommendation ITU-R M.541 applies
13 200-13 260 kHz AERONAUTICAL MOBILE (OR)	**13 200-13 260 kHz** AERONAUTICAL MOBILE (OR)	Aeronautical mobile communications	Appendix 26 Allotment Plan applies
13 260-13 360 kHz AERONAUTICAL MOBILE (R)	**13 260-13 360 kHz** AERONAUTICAL MOBILE (R)	Aeronautical mobile communications	Appendix 27 Allotment Plan applies
13 360-13 410 kHz FIXED RADIO ASTRONOMY 5.149	**13 360-13 410 kHz** FIXED RADIO ASTRONOMY 5.149	Radio astronomy (Observations of decametric radiation)	See section 5 for coordination with radio astronomy

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ITU Region 1 allocations and footnotes	South African allocations and footnotes	Typical Applications	Notes and Comments
13 410-13 450 kHz FIXED Mobile except aeronautical mobile (R)	**13 410-13 450 kHz** FIXED Mobile except aeronautical mobile (R)	Maritime and/or land mobile communications	Radio Frequency Spectrum Regulations (Annex B) (GG. No.38641, 30 March 2015).
13 450-13 550 kHz FIXED Mobile except aeronautical mobile (R) Radiolocation 5.132A 5.149A	**13 450-13 550 kHz** FIXED Mobile except aeronautical mobile (R) Radiolocation 5.132A	Oceanographic radars	
13 550-13 570 kHz FIXED Mobile except aeronautical mobile (R) 5.150	**13 550-13 570 kHz** FIXED Mobile except aeronautical mobile (R) 5.150	Inductive Loop Systems (13 553 – 13 567 kHz) RFID and EAS systems (13 553 – 13 567 kHz) SRD[13] applications (13 553-13 567kHz)	Common international SRD band; see ITU-R Rec. SM. 1896-1 latest version Radio Frequency Spectrum Regulations (Annex B) (GG. No.38641, 30 March 2015).
13 570-13 600 kHz BROADCASTING 5.134	**13 570-13 600 kHz** BROADCASTING 5.134	HF Sound Broadcasting	

[13] http://www.crasa.org/common_up/crasa-setup/06-07-2015_SADC%20FREQUENCIES%20%20FOR%20SHORT%20RANGE%20%20DEVICES%20CRASA%202011.pdf

ITU Region 1 allocations and footnotes	South African allocations and footnotes	Typical Applications	Notes and Comments
5.151	Fixed Mobile except aeronautical mobile (R)		Article 12 Planning Procedures and Res.517 apply.
13 600-13 800 kHz BROADCASTING	**13 600-13 800 kHz** BROADCASTING	HF Sound Broadcasting	ITU RR Article 12 Planning Procedures applies
13 800-13 870 kHz BROADCASTING 5.134 5.151	**13 800-13 870 kHz** BROADCASTING 5.134	HF Sound Broadcasting	Article 12 Planning Procedures and Res.517 apply.
13 870-14 000 kHz FIXED Mobile except aeronautical mobile (R)	**13 870-14 000 kHz** FIXED Mobile except aeronautical mobile (R)	Fixed Applications Land mobile communications Maritime communications	
14 000-14 250 kHz AMATEUR AMATEUR-SATELLITE	**14 000-14 250 kHz** AMATEUR AMATEUR-SATELLITE	Amateur communications Amateur-satellite communications	Radio Frequency Spectrum Regulations (Annex B) (GG. No.38641, 30 March 2015).
14 250-14 350 kHz AMATEUR	**14 250-14 350 kHz** AMATEUR	Amateur communications	

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ITU Region 1 allocations and footnotes	South African allocations and footnotes	Typical Applications	Notes and Comments
5.152			Radio Frequency Spectrum Regulations (Annex B) (GG. No.38641, 30 March 2015).
14 350-14 990 kHz FIXED Mobile except aeronautical mobile (R)	**14 350-14 990 kHz** FIXED Mobile except aeronautical mobile (R)	SADC harmonised HF frequencies for cross-border mobile communications;	
14 990-15 005 kHz STANDARD FREQUENCY AND TIME SIGNAL (15 000 kHz) 5.111	**14 990-15 005 kHz** STANDARD FREQUENCY AND TIME SIGNAL (15 000 kHz) 5.111		
15 005-15 010 kHz STANDARD FREQUENCY AND TIME SIGNAL Space research	**15 005-15 010 kHz** STANDARD FREQUENCY AND TIME SIGNAL Space research		
15 010-15 100 kHz AERONAUTICAL MOBILE (OR)	**15 010-15 100 kHz** AERONAUTICAL MOBILE (OR)	Aeronautical mobile communications	Appendix 26 Allotment Plan applies
15 100-15 600 kHz	**15 100-15 600 kHz**		

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ITU Region 1 allocations and footnotes	South African allocations and footnotes	Typical Applications	Notes and Comments
BROADCASTING	BROADCASTING	HF Sound Broadcasting	The Terrestrial Broadcasting Frequency Plan (GG no.36321) 02 April 2013. ITU RR Article 12 Planning Procedures applies
15 600-15 800 kHz BROADCASTING 5.134 5.146	**15 600-15 800 kHz** BROADCASTING 5.134 FIXED 5.146	HF Sound Broadcasting	The Terrestrial Broadcasting Frequency Plan (GG no.36321) 02 April 2013. Article 12 Planning Procedures and Res.517 apply.
15 800-16 100 kHz FIXED 5.153	**15 800-16 100 kHz** FIXED	Fixed Applications	
16 100-16 200 kHz FIXED Radiolocation 5.145A 5.145B	**16 100-16 200 kHz** FIXED Radiolocation 5.145A	Oceanographic radars	
16 200-16 360 kHz FIXED	**16 200-16 360 kHz** FIXED	Fixed Applications	
16 360-17 410 kHz	**16 360-17 410 kHz**		

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ITU Region 1 allocations and footnotes	South African allocations and footnotes	Typical Applications	Notes and Comments
MARITIME MOBILE 5.109 5.110 5.132 5.137A 5.145	MARITIME MOBILE 5.109 5.110 5.132 5.137A 5.145	Maritime mobile communications Digital Selective Calling (GMDSS) Transmission of meteorological bulletins and notices to navigators. 16 804.5 kHz – DSC for distress and calling; 16 695 kHz – ACS; 16 806.5 kHz Maritime Safety Information (MSI)	Appendix 15 of ITU RR See Section 7 for details ITU RR Appendix 17 Channelling Plan applies ITU RR Appendix 25 Allotment Plan applies Article 31 applies. Recommendation ITU-R M.541 applies
17 410-17 480 kHz FIXED	**17 410-17 480 kHz** FIXED	Fixed	
17 480-17 550 kHz BROADCASTING 5.134 5.146	**17 480-17 550 kHz** BROADCASTING 5.134 FIXED 5.146	HF Sound Broadcasting	The Terrestrial Broadcasting Frequency Plan (GG no.36321) 02 April 2013. Article 12 Planning Procedures and Res.517 apply.
17 550-17 900 kHz BROADCASTING	**17 550-17 900 kHz** BROADCASTING	HF Sound Broadcasting	The Terrestrial Broadcasting Frequency Plan (GG no.36321) 02 April 2013. ITU RR Article 12 Planning Procedures applies
17 900-17 970 kHz	**17 900-17 970 kHz**		

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ITU Region 1 allocations and footnotes	South African allocations and footnotes	Typical Applications	Notes and Comments
AERONAUTICAL MOBILE (R)	AERONAUTICAL MOBILE (R)	Aeronautical mobile communications	Appendix 27 Allotment Plan applies
17 970-18 030 kHz AERONAUTICAL MOBILE (OR)	**17 970-18 030 kHz** AERONAUTICAL MOBILE (OR)	Aeronautical mobile communications	Appendix 26 Allotment Plan applies
18 030-18 052 kHz FIXED	**18 030-18 052 kHz** FIXED	Fixed Applications	
18 052-18 068 kHz FIXED Space research	**18 052-18 068 kHz** FIXED Space research	Fixed Applications	
18 068-18 168 kHz AMATEUR AMATEUR-SATELLITE 5.154	**18 068-18 168 kHz** AMATEUR AMATEUR-SATELLITE	Amateur communications Amateur-satellite communications	Radio Frequency Spectrum Regulations (Annex B) (GG. No.38641, 30 March 2015).
18 168-18 780 kHz FIXED Mobile except aeronautical mobile	**18 168-18 780 kHz** FIXED Mobile except aeronautical mobile	Land mobile communications	
18 780-18 900 kHz	**18 780-18 900 kHz**		

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ITU Region 1 allocations and footnotes	South African allocations and footnotes	Typical Applications	Notes and Comments
MARITIME MOBILE	MARITIME MOBILE	Maritime communications	ITU RR Appendix 17 Channelling Plan applies
18 900-19 020 kHz BROADCASTING 5.134 5.146	**18 900-19 020 kHz** BROADCASTING 5.134 FIXED 5.146	HF Sound Broadcasting	The Terrestrial Broadcasting Frequency Plan (GG no.36321) 02 April 2013. Article 12 Planning Procedures and Res.517 apply.
19 020-19 680 kHz FIXED	**19 020-19 680 kHz** FIXED	Fixed Applications	
19 680-19 800 kHz MARITIME MOBILE 5.132	**19 680-19 800 kHz** MARITIME MOBILE 5.132	19 680.5 kHz – ~~maritime safety information (~~MSI~~)~~; App.17 applies	The frequency 19 680.5 kHz is the international frequency for transmission of MSI.
19 800-19 990 kHz FIXED	**19 800-19 990 kHz** FIXED	Fixed Applications	
19 990-19 995 kHz	**19 990-19 995 kHz**		

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ITU Region 1 allocations and footnotes	South African allocations and footnotes	Typical Applications	Notes and Comments
STANDARD FREQUENCY AND TIME SIGNAL Space research 5.111	STANDARD FREQUENCY AND TIME SIGNAL Space research 5.111		
19 995-20 010 kHz STANDARD FREQUENCY AND TIME SIGNAL (20 000 kHz) 5.111	**19 995-20 010 kHz** STANDARD FREQUENCY AND TIME SIGNAL (20 000 kHz) 5.111		
20 010-21 000 kHz FIXED Mobile	**20 010-21 000 kHz** FIXED Mobile		
21 000-21 450 kHz AMATEUR AMATEUR-SATELLITE	**21 000-21 450 kHz** AMATEUR AMATEUR-SATELLITE	Amateur communications Amateur-satellite communications	Radio Frequency Spectrum Regulations (Annex B) (GG. No.38641, 30 March 2015).
21 450-21 850 kHz BROADCASTING	**21 450-21 850 kHz** BROADCASTING	HF Sound Broadcasting	The Terrestrial Broadcasting Frequency Plan (GG no.36321) 02 April 2013. ITU RR Article 12 Planning Procedures applies
21 850-21 870 kHz	**21 850-21 870 kHz**		

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ITU Region 1 allocations and footnotes	South African allocations and footnotes	Typical Applications	Notes and Comments
FIXED 5.155A 5.155	FIXED	Fixed Applications[14]	
21 870-21 924 kHz FIXED 5.155B	**21 870-21 924 kHz** FIXED 5.155B	Fixed Applications	This band is used by the FS for services related to aircraft flight safety (5.155B)
21 924-22 000 kHz AERONAUTICAL MOBILE (R)	**21 924-22 000 kHz** AERONAUTICAL MOBILE (R)	Aeronautical mobile communications	Appendix 27 Allotment Plan applies
22 000-22 855 kHz MARITIME MOBILE 5.132 5.137A 5.156	**22 000-22 855 kHz** MARITIME MOBILE 5.132 5.137A	22450.5 kHz – ~~maritime safety information (~~MSI~~)~~; App.17 applies	ITU RR Appendix 17 Channelling Plan applies. ITU RR Appendix 25 Allotment Plan applies. The frequency 22 376 kHz is the international frequency for transmission of MSI. See Section 7 for details

[14] http://www.crasa.org/common_up/crasa-setup/10-03-2015_FREQUENCY%20CHANNELING%20ARRANGEMENTS%20FOR%20TERRESTRIAL%20FIXED%20AND%20MOBILE%202011.pdf

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ITU Region 1 allocations and footnotes	South African allocations and footnotes	Typical Applications	Notes and Comments
22 855-23 000 kHz FIXED 5.156	**22 855-23 000 kHz** FIXED	Fixed Applications	
23 000-23 200 kHz FIXED Mobile except aeronautical mobile (R) 5.156	**23 000-23 200 kHz** FIXED Mobile except aeronautical mobile (R)		
23 200-23 350 kHz FIXED 5.156A AERONAUTICAL MOBILE (OR)	**23 200-23 350 kHz** FIXED 5.156A AERONAUTICAL MOBILE (OR)	Aeronautical mobile communications	The use of this band by the FS is limited to the provision of services related to aircraft flight safety (5.156A)
23 350-24 000 kHz FIXED MOBILE except aeronautical mobile 5.157	**23 350-24 000 kHz** FIXED MARITIME MOBILE 5.157	Inter-ship radiotelegraphy	The use of this band by the MMS is limited to inter-ship radiotelegraphy (5.157).
24 000-24 450 kHz FIXED LAND MOBILE	**24 000-24 450 kHz** FIXED LAND MOBILE		
24 450-24 600 kHz	**24 450-24 600 kHz**		

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ITU Region 1 allocations and footnotes	South African allocations and footnotes	Typical Applications	Notes and Comments
FIXED LAND MOBILE Radiolocation 5.132A 5.158	FIXED LAND MOBILE Radiolocation 5.132A	Oceanographic radars	
24 600-24 890 kHz FIXED LAND MOBILE	**24 600-24 890 kHz** FIXED LAND MOBILE		
24 890-24 990 kHz AMATEUR AMATEUR-SATELLITE	**24 890-24 990 kHz** AMATEUR AMATEUR-SATELLITE		Radio Frequency Spectrum Regulations (Annex B) (GG. No.38641, 30 March 2015).
24 990-25 005 kHz STANDARD FREQUENCY AND TIME SIGNAL (25 000 kHz)	**24 990-25 005 kHz** STANDARD FREQUENCY AND TIME SIGNAL (25 000 kHz)		
25 005-25 010 kHz STANDARD FREQUENCY AND TIME SIGNAL Space research	**25 005-25 010 kHz** STANDARD FREQUENCY AND TIME SIGNAL Space research		
25 010-25 070 kHz	**25 010-25 070 kHz**		

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ITU Region 1 allocations and footnotes	South African allocations and footnotes	Typical Applications	Notes and Comments
FIXED MOBILE except aeronautical mobile	FIXED MOBILE except aeronautical mobile		
25 070-25 210 kHz MARITIME MOBILE	**25 070-25 210 kHz** MARITIME MOBILE	Maritime mobile communications	ITU RR Appendix 17 Channelling Plan applies
25 210-25 550 kHz FIXED MOBILE except aeronautical mobile	**25 210-25 550 kHz** FIXED MOBILE except aeronautical mobile		
25 550-25 670 kHz RADIO ASTRONOMY 5.149	**25 550-25 670 kHz** RADIO ASTRONOMY 5.149	Radio astronomy (Observations of decametric radiation)	See section 5 for coordination with radio astronomy
25 670-26 100 kHz BROADCASTING	**25 670-26 100 kHz** BROADCASTING	HF Sound Broadcasting	The Terrestrial Broadcasting Frequency Plan (GG no.36321) 02 April 2013 ITU RR Article 12 Planning Procedures applies.
26 100-26 175 kHz	**26 100-26 175 kHz**		

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ITU Region 1 allocations and footnotes	South African allocations and footnotes	Typical Applications	Notes and Comments
MARITIME MOBILE 5.132	MARITIME MOBILE 5.132	26 100.5 kHz ~~– maritime safety information (~~MSI; App.17 applies	ITU RR Appendix 17 Channelling Plan applies. ITU RR Appendix 25 Allotment Plan applies. The frequency 26 100.5 kHz is the international frequency for transmission of MSI.
26 175-26 200 kHz FIXED MOBILE except aeronautical mobile	**26 175-26 200 kHz** FIXED MOBILE except aeronautical mobile	Single Frequency Mobile Mobile systems (single frequency) CB Radio (26.96-27.410 MHz) ISM applications (26.975-27.283 MHz) SRD applications (26 957-27 283 kHz)	Radio Frequency Spectrum Regulations (Annex B) (GG. No.38641, 30 March 2015). Common international SRD band; see ITU-R Rec. SM. 1896-1 latest version.
26 200-26 350 kHz FIXED MOBILE except aeronautical mobile Radiolocation 5.132A 5.133A	**26 200-26 350 kHz** FIXED MOBILE except aeronautical mobile Radiolocation 5.132A	Single Frequency Mobile Oceanography radars	

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ITU Region 1 allocations and footnotes	South African allocations and footnotes	Typical Applications	Notes and Comments
26 350-27 500 kHz FIXED MOBILE except aeronautical mobile 5.150	**26 350-27 500 kHz** FIXED MOBILE except aeronautical mobile 5.150	Single Frequency Mobile Inductive Loop Systems, Non-specific SRD's (26.957 – 27.283 MHz) Surface Model Control (26.995 MHz, 27.045 MHz, 27.095 MHz, 27.145 MHz and 27.195 MHz)	Radio Frequency Spectrum Regulations (Annex B) (GG. No.38641, 30 March 2015).
27.5-28 MHz METEOROLOGICAL AIDS FIXED MOBILE	**27.5-28 MHz** METEOROLOGICAL AIDS FIXED MOBILE	Radiosondes	
28-29.7 MHz AMATEUR AMATEUR-SATELLITE	**28-29.7 MHz** AMATEUR AMATEUR-SATELLITE	Amateur communications Amateur-satellite communications	Radio Frequency Spectrum Regulations (Annex B) (GG. No.38641, 30 March 2015).
29.7-30.005 MHz FIXED MOBILE Amateur NF1	**29.7-30.005 MHz** FIXED MOBILE Amateur NF1	Single frequency mobile (29.7-29.99 MHz) Government Services	Amateur – disaster and emergencies

ITU Region 1 allocations and footnotes	South African allocations and footnotes	Typical Applications	Notes and Comments
			Radio Frequency Spectrum Regulations (Annex B) (GG. No.38641, 30 March 2015).
30.005-30.01 MHz SPACE OPERATION (satellite identification) FIXED MOBILE SPACE RESEARCH	**30.005-30.01 MHz** SPACE OPERATION (satellite identification) FIXED MOBILE SPACE RESEARCH	Government Services	
30.01-37.5 MHz FIXED MOBILE	**30.01-37.5 MHz** FIXED MOBILE	Single Frequency Mobile (32 – 32.325 MHz) Government Services Mobile 1 MTX (32.325 – 33.675 MHz) Single Frequency Mobile (33.675 – 34.175 MHz) Mobile 2 MTX (34.175 – 35 MHz) Model Aircraft Control (35 – 35.5 MHz) Wireless microphone (36.65 – 36.75 MHz) Single Frequency Mobile (33.25 – 33.5 MHz) Mobile 3 BTX 35.5 – 36.825 MHz Single Frequency Mobile 36.825 – 38.5 MHz	Paired with 41.65 – 43 MHz Paired with 40.625 – 41.25 MHz Exclusive use by Model Aircraft Control Radio Frequency Spectrum Regulations (Annex B) (GG. No.38641, 30 March 2015). Paired with 38.5 – 39.825 MHz

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ITU Region 1 allocations and footnotes	South African allocations and footnotes	Typical Applications	Notes and Comments
		PMR[15]	
37.5-38.25 MHz FIXED MOBILE Radio astronomy 5.149	**37.5-38.25 MHz** FIXED MOBILE Radio astronomy 5.149	Single Frequency Mobile (36.825 – 38.5 MHz) Government Services Radio Astronomy (Observations of decametric radiation)	See Section 5 for coordination with radio astronomy
38.25-39 MHz FIXED MOBILE	**38.25-39 MHz** FIXED MOBILE	Single Frequency Mobile (36.825 – 38.5 MHz) Government Services Mobile 3 MTX (38.5 – 39.825 MHz)	Paired with 35.5 – 36.825 MHz
39-39.5 MHz FIXED MOBILE Space research ~~Radiolocation 5.132A~~ ~~5.159~~	**39-39.5 MHz** FIXED MOBILE Space research ~~Radiolocation 5.132A~~	Mobile 3 MTX (38.5 – 39.825 MHz) Single Frequency Mobile (39.825 – 40.625 MHz) Oceanographic radars	Paired with 35.5 – 36.825 MHz

[15] http://www.crasa.org/common_up/crasa-setup/10-03-2015_GUIDELINES%20%20ON%20PMR%202014.pdf

ITU Region 1 allocations and footnotes	South African allocations and footnotes	Typical Applications	Notes and Comments
39.5-39.986 MHz FIXED MOBILE Space research	**39.5-39.986 MHz** FIXED MOBILE Space research	Mobile 3 MTX (38.5 – 39.825 MHz) Single Frequency Mobile (39.825 – 40.625 MHz) PMR	Paired with 35.5 – 36.825 MHz
39.986-40.02 MHz FIXED MOBILE Earth exploration-satellite (active) 5.159A Space research	**39.986-40.02 MHz** FIXED MOBILE Earth exploration-satellite (active) 5.159A Space research	Single Frequency Mobile (39.825 – 40.625 MHz) PMR	
40.02-40.98 MHz FIXED MOBILE Earth exploration-satellite (active) 5.159A	**40.02-40.98 MHz** FIXED MOBILE Earth exploration-satellite (active) 5.159A	Single Frequency Mobile (39.825 – 40.625 MHz) Mobile 2 BTX (40.625 – 41.45 MHz) Wireless microphones (40.65 – 40.7 MHz) Non-specific SRD's (40.66 – 40.7 MHz) Surface Model Control (40.665 MHz, 40.675 MHz, 40.685 MHz, 40.695 MHz) ISM applications (40.66 – 40.7 MHz)	Paired with 34.175 – 35 MHz Radio Frequency Spectrum Regulations (Annex B) (GG. No.38641, 30 March 2015). Common international SRD band; see ITU-R Rec. SM.1896 latest version.

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ITU Region 1 allocations and footnotes	South African allocations and footnotes	Typical Applications	Notes and Comments
5.150	5.150	PMR	
40.98-41.015 MHz FIXED MOBILE Earth exploration-satellite (active) 5.159A Space research 5.160 5.161	**40.98-41.015 MHz** FIXED MOBILE Earth exploration-satellite (active) 5.159A Space research	Mobile 2 BTX (40.625 – 41.45 MHz) PMR	Paired with 34.175 – 35 MHz
41.015-42 MHz FIXED MOBILE Earth exploration-satellite (active) 5.159A 5.160 5.161 5.161A	**41.015-42 MHz** FIXED MOBILE Earth exploration-satellite (active) 5.159A	Mobile 2 BTX (40.625 – 41.45 MHz) Single Frequency Mobile (41.45 – 41.65 MHz) Mobile 1 BTX (41.65 – 43 MHz) Government Services PMR	Paired with 34.175 – 35 MHz Paired with 32.325 – 33.675 MHz
42-42.5 MHz FIXED MOBILE Earth exploration-satellite (active) 5.159A Radiolocation 5.132A	**42-42.5 MHz** FIXED MOBILE Earth exploration-satellite (active) 5.159A Radiolocation 5.132A	Mobile 1 BTX (41.65 – 43 MHz) Government Services Oceanographic radars	Paired with 32.325 – 33.675 MHz

ITU Region 1 allocations and footnotes	South African allocations and footnotes	Typical Applications	Notes and Comments
5.160 5.161B			
42.5-44 MHz FIXED MOBILE Earth exploration-satellite (active) 5.159A 5.160 5.161 5.161A	**42.5-44 MHz** FIXED MOBILE Earth exploration-satellite (active) 5.159A	Mobile 1 BTX (41.65 – 43 MHz) Government Services	Paired with 32.325 – 33.675 MHz
44-47 MHz FIXED MOBILE Earth exploration-satellite (active) 5.159A 5.162 5.162A	**44-47 MHz** FIXED MOBILE Earth exploration-satellite (active) 5.159A	Meteor Burst (45.3 – 46.9 MHz) CT0 Cordless Telephones BTX (46.61 – 46.97 MHz) Government Services PMR	Paired with 47.5 – 49.1 MHz 10 frequency pairs assigned to CT0; paired with 49.67 – 49.97 MHz; Radio Frequency Spectrum Regulations (Annex B) (GG. No.38641, 30 March 2015).
47-**50 MHz** BROADCASTING Earth exploration-satellite (active) 5.159A	**47-50 MHz** BROADCASTING Earth exploration-satellite (active) 5.159A LAND MOBILE 5.164	 CT0 Cordless Telephones MTX (49.67 – 49.97 MHz) PMR Meteor Burst (47.5-49.1 MHz)	The Terrestrial Broadcasting Frequency Plan (GG no.36321) 02 April 2013 Paired with 45.3-46.9 MHz Paired with 46.61 – 46.97 MHz Paired with 45.3-46.9 MHz

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ITU Region 1 allocations and footnotes	South African allocations and footnotes	Typical Applications	Notes and Comments
5.162A 5.163 5.164 5.165		CT0 Cordless Telephony MTX (49.67-49.97 MHz) Government	Radio Frequency Spectrum Regulations (Annex B) (GG. No.38641, 30 March 2015).
50-52 MHz BROADCASTING Amateur 5.166A 5.166B 5.166C 5.166D 5.166E 5.169 5.169A 5.169B 5.162A 5.164 5.165	**50-54 MHz** AMATEUR 5.169	Government Wireless microphones (53 – 54 MHz)	Radio Frequency Spectrum Regulations as amended (Annex B) (GG. No. 38641, 30 March 2015).
52-68 MHz BROADCASTING	**54-68 MHz** BROADCASTING FIXED 5.171 MOBILE except aeronautical mobile 5.171	Government Services Model control (54.45 – 54.55 MHz) PMR Single Frequency Mobile (54 – 54.325 MHz) Mobile 1 BTX (54.325 – 54.45 MHz) Mobile 2 BTX (55.45 – 56.85 MHz) Single Frequency Mobile (56.85 – 58.5 MHz) Mobile 2 MTX (58.5 – 59.9 MHz) Mobile 1 MTX (59.9 – 60.025 MHz)	The Terrestrial Broadcasting Frequency Plan (GG no.36321) 02 April 2013 Radio Frequency Spectrum Regulations (Annex B) (GG. No.38641, 30 March 2015). Paired with 59.9 – 60.025 MHz Paired with 58.5 – 59.9 MHz Paired with 55.45 – 56.85 MHz Paired with 54.325 – 54.45 MHz

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ITU Region 1 allocations and footnotes	South African allocations and footnotes	Typical Applications	Notes and Comments
5.162A 5.163 5.164 5.165 5.169 5.169A 5.169B 5.171		Spare60.025-60.215 MHz Sport Stadium Communications (62.8 – 62.85 MHz) National Emergency Alarm Radio (NEAR) (66 – 68 MHz)	
68-74.8 MHz FIXED MOBILE except aeronautical mobile 5.149 5.175 5.177 5.179	**68-74.8 MHz** FIXED MOBILE except aeronautical mobile Amateur (70 – 70.3 MHz) NF2 Radio Astronomy (73 – 74.6 MHz) 5.149	 Single Frequency Mobile (68 – 69.25 MHz) Mobile 1 BTX (69.25 – 70 MHz) Mobile 2 BTX (70 – 70.975 MHz) Single Frequency Mobile (70.975 – 71.475 MHz) Mobile 3 BTX (71.475 – 72.525 MHz) Single Frequency Mobile (72.525 – 73.425 MHz) Mobile 4 BTX (73.425 – 74.8 MHz) PMR and/or PAMR	 Paired with 76.175 – 76.925 MHz Paired with 75.2 – 76.175 MHz Current assignments for fire fighting Paired with 76.925 – 77.975 MHz Paired with 78.625 – 80 MHz Radio Frequency Spectrum Regulations (Annex B) (GG. No.38641, 30 March 2015).
74.8-75.2 MHz AERONAUTICAL RADIONAVIGATION	**74.8-75.2 MHz** AERONAUTICAL RADIONAVIGATION	 Instrument Landing System Markers 74.80 – 75.20 Marker beacons (75 MHz)	

ITU Region 1 allocations and footnotes	South African allocations and footnotes	Typical Applications	Notes and Comments
5.180 5.181	5.180		
75.2-87.5 MHz FIXED MOBILE except aeronautical mobile	**75.2-87.5 MHz** FIXED MOBILE except aeronautical mobile	Mobile 2 MTX (75.2 – 76.175 MHz) Mobile 1 MTX (76.175 – 76.925 MHz) Mobile 3 MTX (76.925 – 77.975 MHz) Mobile 4 MTX (78.625 – 80 MHz) Mobile 5 BTX (77.975 – 78.625 MHz) Mobile 6 BTX (80 – 80.5 MHz) Single Frequency Mobile (80.5 – 81 MHz) Mobile 7 BTX (81 – 81.625 MHz) Mobile 8 BTX (81.625 – 82.975 MHz) Mobile 5 MTX (82.975 – 83.625 MHz) Single Frequency Mobile (83.625 – 85.025 MHz) Mobile 8 MTX (85.025 – 86.375 MHz) Mobile 7 MTX (86.375 – 87 MHz) Mobile 6 MTX (87 – 87.5 MHz) PMR and/or PAMR	Paired with 70 – 70.975 MHz Paired with 69.25 – 70 MHz Paired with 71.475 – 72.525 MHz Paired with 73.425 – 74.8 MHz Paired with 82.975 – 83.625 MHz Paired with 87 – 87.5 MHz Paired with 86.375 - 87 MHz Paired with 85.025 - 86.375 MHz Paired with 77.975 - 78.625 MHz Paired with 81.625 - 82.975 MHz Paired with 81 - 81.625 MHz Paired with 80 - 80.5 MHz

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ITU Region 1 allocations and footnotes	South African allocations and footnotes	Typical Applications	Notes and Comments
5.175 5.179 5.187			Radio Frequency Spectrum Assignment Plan GG 42286 Notice 124 of 2019
87.5-100 MHz BROADCASTING 5.190	**87.5-100 MHz** BROADCASTING	FM Sound Broadcasting (87.5-108 MHz) Digital sound broadcasting (DSB)	The Terrestrial Broadcasting Frequency Plan (GG no.36321) 02 April 2013 Geneva agreement GE84 Digital Sound Broadcasting (DSB) Regulations was published in GG44469 Notice 215 of 2021
100-108 MHz BROADCASTING 5.192 5.194	**100-108 MHz** BROADCASTING	FM Sound Broadcasting (87.5-108 MHz) Digital sound broadcasting (DSB)	The Terrestrial Broadcasting Frequency Plan (GG no.36321) 02 April 2013 Geneva agreement GE84 Digital Sound Broadcasting (DSB) Regulations was published in GG44469 Notice 215 of 2021
108-117.975 MHz AERONAUTICAL RADIONAVIGATION	**108-112 MHz** AERONAUTICAL RADIONAVIGATION AERONAUTICAL MOBILE (R) (ground to air)(ground based TX and associated RX for navigational	ILS localiser (108 – 112 MHz) Aeronautical mobile communications (108-117.975 MHz	AM(R)S shall operate in accordance with Res.413(Rev.WRC-07). Safety and regularity of flights; in the band 108-112 MHz AM(R)S limited to ground based transmitters.

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ITU Region 1 allocations and footnotes	South African allocations and footnotes	Typical Applications	Notes and Comments
	information for navigational functions) 5.197A		
5.197 5.197A	**112-117.975 MHz** AERONAUTICAL MOBILE (R) AERONAUTICAL RADIONAVIGATION 5.197A	Aeronautical mobile communications (108-117.975 MHz VOR (VHF Omni-directional Range) (112 – 117.975 MHz)	
117.975-137 MHz AERONAUTICAL MOBILE (R) AERONAUTICAL MOBILE-SATELLITE (R) 5.198A 5.198B 5.111 5.200 5.201 5.202	**117.975-137 MHz** AERONAUTICAL MOBILE (R) AERONAUTICAL MOBILE-SATELLITE (R) 5.198A 5.198B 5.111 5.200 5 201	Aeronautical mobile communications (117.975-121.450 MHz) ~~International Distress Frequency (121.5 MHz) – (121.450-121.550 MHz)~~ Aeronautical emergency Frequency (121.5 MHz) Aeronautical frequency auxiliary to 121.5 MHz (123.1 MHz) Aeronautical mobile communications (121.550-137.000 MHz)	Safety and regularity of flights ~~EPIRBs at 121.5 MHz~~ ITU RR Article 31 applies 123.1 MHz - auxiliary emergency frequency Resolution 406 (WRC-23) applies

ITU Region 1 allocations and footnotes	South African allocations and footnotes	Typical Applications	Notes and Comments
		Aeronautical mobile communications (R) (117.975 -137 MHz)	
137-137.025 MHz SPACE OPERATION (space-to-Earth) 5.203C METEOROLOGICAL-SATELLITE (space-to-Earth) MOBILE-SATELLITE (space-to-Earth) 5.208A 5.208B 5.209 SPACE RESEARCH (space-to-Earth) Fixed Mobile except aeronautical mobile (R) 5.204 5.205 5.206 5.207 5.208	**137-137.025 MHz** SPACE OPERATION (space-to-Earth) 5.203C METEOROLOGICAL-SATELLITE (space-to-Earth) MOBILE-SATELLITE (space-to-Earth) (non-GSO) 5.208A 5.208B 5.209 SPACE RESEARCH (space-to-Earth) Fixed Mobile except aeronautical mobile (R) 5.208	MET SAT	
137.025-137.175 MHz SPACE OPERATION (space-to-Earth) 5.203C METEOROLOGICAL-SATELLITE (space-to-Earth) SPACE RESEARCH (space-to-Earth) Fixed	**137.025-137.175 MHz** SPACE OPERATION (space-to-Earth) 5.203C METEOROLOGICAL-SATELLITE (space-to-Earth) SPACE RESEARCH (space-to-Earth) Fixed		

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ITU Region 1 allocations and footnotes	South African allocations and footnotes	Typical Applications	Notes and Comments
Mobile-satellite (space-to-Earth) 5.208A 5.208B 5.209 Mobile except aeronautical mobile (R) 5.204 5.205 5.206 5.207 5.208	Mobile-satellite (space-to-Earth) (non-GSO) 5.208A 5.208B 5.209 Mobile except aeronautical mobile (R) 5.208		
137.175-137.825 MHz SPACE OPERATION (space-to-Earth) 5.203C 5.209A METEOROLOGICAL-SATELLITE (space-to-Earth) MOBILE-SATELLITE (space-to-Earth) 5.208A 5.208B 5.209 SPACE RESEARCH (space-to-Earth) Fixed Mobile except aeronautical mobile (R) 5.204 5.205 5.206 5.207 5.208	**137.175-137.825 MHz** SPACE OPERATION (space-to-Earth) 5.203C 5.209A METEOROLOGICAL-SATELLITE (space-to-Earth) MOBILE-SATELLITE (space-to-Earth) (non-GSO) 5.208A 5.208B 5.209 SPACE RESEARCH (space-to-Earth) Fixed Mobile except aeronautical mobile (R) 5.208	NOAA meteorological satellite (137.5 – 137.62 MHz)	
137.825-138 MHz SPACE OPERATION (space-to-Earth) 5.203C METEOROLOGICAL-SATELLITE (space-to-Earth) SPACE RESEARCH (space-to-Earth) Fixed	**137.825-138 MHz** SPACE OPERATION (space-to-Earth) 5.203C METEOROLOGICAL-SATELLITE (space-to-Earth) SPACE RESEARCH (space-to-Earth) Fixed		

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ITU Region 1 allocations and footnotes	South African allocations and footnotes	Typical Applications	Notes and Comments
Mobile-satellite (space-to-Earth) 5.208A 5.208B 5.209 Mobile except aeronautical mobile (R) 5.204 5.205 5.206 5.207 5.208	Mobile-satellite (space-to-Earth) (non-GSO) 5.208A 5.208B 5.209 Mobile except aeronautical mobile (R) 5.208		
138-143.6 MHz AERONAUTICAL MOBILE (OR) 5.210 5.211 5.212 5.214	**138-144 MHz** FIXED MOBILE	Single Frequency Alarms (140.5 – 141 MHz) Mobile 1 MTX (138 – 140.5 MHz) Single Frequency Mobile (141 – 141.5 MHz) Mobile 1 BTX (141.5 – 144 MHz) Remote control industrial apparatus (141 – 142 MHz) PMR and / or PAMR Mobile 1 BTX (141.5 – 144 MHz) PMR and / or PAMR	Paired with 141.5 - 144 MHz Paired with 138 – 140.5 MHz Radio Frequency Spectrum Regulations (Annex B) (GG. No.38641, 30 March 2015). Paired with 138 – 140.5 MHz Allocation includes BTX assignments at 142.8 – 143.275 MHz and 143.325 - 143.975 MHz Radio Frequency Spectrum Assignment Plan GG 41512 Notice 146 of 2018 Final Frequency Migration Plan 2019 (GG No.42337 Notice 36 of 2019)
143.6-143.65 MHz AERONAUTICAL MOBILE (OR) SPACE RESEARCH (space-to-Earth) 5.211 5.212 5.214			
143.65-144 MHz			

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ITU Region 1 allocations and footnotes	South African allocations and footnotes	Typical Applications	Notes and Comments
AERONAUTICAL MOBILE (OR) 5.210 5.211 5.212 5.214			
144-146 MHz AMATEUR AMATEUR-SATELLITE 5.216	**144-146 MHz** AMATEUR AMATEUR-SATELLITE		
146-148 MHz FIXED MOBILE except aeronautical mobile (R)	**146-148 MHz** FIXED MOBILE except aeronautical mobile (R)	Mobile 2 MTX (146 – 148.95 MHz) PMR and / or PAMR	Paired with 153.05 – 156 MHz
148-149.9 MHz FIXED MOBILE except aeronautical mobile (R) MOBILE-SATELLITE (Earth-to-space) 5.209	**148-149.9 MHz** FIXED MOBILE except aeronautical mobile (R) MOBILE-SATELLITE (Earth-to-space) (non-GSO) 5.209 NF3 SPACE OPERATION (Earth-to-space)	Mobile 2 MTX (146 – 148.95 MHz) Single Frequency Mobile (148.950 – 151 MHz) Wildlife telemetry Tracking (148 – 152 MHz) Low Earth Orbit systems	Paired with 153.05 – 156 MHz Systems are paired with either 137 – 138 MHz or 400.15 – 401 MHz For some small LEO systems this band is supplemented by the band 149.9-150.05 MHz

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ITU Region 1 allocations and footnotes	South African allocations and footnotes	Typical Applications	Notes and Comments
5.218 5.218A 5.219 5.221	5.218 5.219 5.221		Radio Frequency Spectrum Regulations (Annex B) (GG. No.38641, 30 March 2015).
149.9-150.05 MHz MOBILE-SATELLITE (Earth-to-space) 5.209 5.220	**149.9-150.05 MHz** MOBILE-SATELLITE (Earth-to-space) (non-GSO) 5.209 5.220 NF3	Low Earth Orbit systems Mobile-satellite communications Wildlife telemetry Tracking (148 – 152 MHz) Single Frequency Mobile (148.950 – 151 MHz)	Radio Frequency Spectrum Regulations (Annex B) (GG. No.38641, 30 March 2015). Radio Frequency Spectrum Assignment Plan GG 41512 Notice 149 of 2018
150.05-153 MHz FIXED MOBILE except aeronautical mobile	**150.05-153 MHz** FIXED MOBILE except aeronautical mobile	Single frequency alarms (152.05 – 152.55 MHz) Alarms, Single Frequency Mobile and Load Shedding (148.950 – 151 MHz) PMR and PAMR Paging Government Services Wildlife Telemetry Tracking (148 – 152 MHz) Single Frequency Mobile (152.55 – 153.05 MHz)	Channels 150.550 MHz and 150.5625 MHz are used for load shedding. Channels 150.625 MHz and 150.675 MHz are reserved for in-house paging Radio Frequency Spectrum Regulations (Annex B) (GG. No.38641, 30 March 2015).

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ITU Region 1 allocations and footnotes	South African allocations and footnotes	Typical Applications	Notes and Comments
RADIO ASTRONOMY 5.149	RADIO ASTRONOMY 5.149	Radio Astronomy (continuum band and also used for pulsar and solar observations).	RFSAP was published in GG 41512 Notice 149 0f 2018. See section 5 for coordination with radio astronomy
153-154 MHz FIXED MOBILE except aeronautical mobile (R) Meteorological aids	**153-154 MHz** FIXED MOBILE except aeronautical mobile (R) Meteorological aids	Single Frequency Mobile (152.55 – 153.05 MHz) Mobile 2 BTX (153.05 – 156 MHz) PMR and/or PAMR	Paired with 146 – 148.95 MHz
154-156.4875 MHz FIXED MOBILE except aeronautical mobile (R)	**154-156.4875 MHz** FIXED MOBILE except aeronautical mobile (R)	PMR and/or PAMR(154-156 MHz) Maritime Mobile 2 BTX (153.05 – 156 MHz) Mobile 3 MTX (156 – 156.7625 MHz) Single Frequency Mobile (156.375 – 156.7625 MHz)	See Section 7 for details Paired with 146 – 148.95 MHz Paired with 160.6 – 160.975 MHz (156 – 156.375 MHz allocated to Land Mobile MTX in inland areas) Limited to inland areas
		Maritime mobile communications (Ship stations) (156.00-156.4875 MHz) Land mobile in areas remote from coast (156.00-156.4875 MHz)	Paired with 160.625-160.950 MHz, single frequency 156.3 MHz and in the band 156.375-156.475 MHz ITU RR Articles 31 and 52 and Appendix 18 apply.

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ITU Region 1 allocations and footnotes	South African allocations and footnotes	Typical Applications	Notes and Comments
5.225A 5.226	5.226		
156.4875-156.5625 MHz MARITIME MOBILE (distress and calling via DSC)	**156.4875-156.5125 MHz** MARITIME MOBILE (distress and calling via DSC). FIXED 5.227 LAND MOBILE 5.227 5.111 5.226 5.227	Single Frequency Mobile (156.375 – 156.7625 MHz) The band 156.4875-156.5125 MHz may also be used for land mobile services while protecting the maritime mobile service.	The use of this band by the maritime services shall be in accordance with ITU Appendix 18. ITU RR Articles 31 and 52 and Appendix 18 apply. NINP basis to Maritime Mobile Service; Limited to inland areas
	156.5125-156.5375 MHz MARITIME MOBILE (distress and calling via DSC) 5.111 5.111 5.226 5.227	Maritime mobile distress, safety and calling frequency 156.525 MHz for maritime mobile VHF radiotelephone service using DSC. Single Frequency Mobile (156.375 – 156.7625 MHz)	The use of this band by the maritime services shall be in accordance with ITU Appendix 18. ITU RR Articles 31 and 52 and Appendix 18 apply.
	156.5375-156.5625 MHz FIXED LAND MOBILE		

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ITU Region 1 allocations and footnotes	South African allocations and footnotes	Typical Applications	Notes and Comments
5.111 5.226 5.227	MARITIME MOBILE (distress and calling via DSC) 5.111 5.226 5.227	The bands 156.5375-156.5625 MHz may also be used for land mobile services while protecting the maritime mobile service. Single Frequency Mobile (156.375 – 156.7625 MHz)	The use of this band by the maritime services shall be in accordance with ITU Appendix 18. ITU RR Articles 31 and 52 and Appendix 18 apply.
156.5625-156.7625 MHz FIXED MOBILE except aeronautical mobile (R) 5.226	**156.5625-156.7625 MHz** FIXED MOBILE except aeronautical mobile (R) 5.226	Fixed and Mobile applications. Maritime mobile communications (156.5625-156.7625 MHz). Land mobile in areas remote from coast.	Single frequency applications ITU RR Articles 31 and 52 and Appendix 18 apply.
156.7625-156.7875 MHz MARITIME MOBILE Mobile-satellite (Earth-to-space) 5.111 5.226 5.228	**156.7625-156.7875 MHz** MARITIME MOBILE Mobile-satellite (Earth-to-space) 5.111 5.226 5.228	International distress, safety and calling frequency at 156.8 MHz for the maritime mobile VHF radiotelephone service. Distress safety and calling (156.76250 – 156.8375) Reception of AIS emissions of long-range AIS broadcast messages	ITU RR Article 31 and Appendix 18 apply to the use of the frequency 156.8 MHz and this band.
156.7875-156.8125 MHz	**156.7875-156.8125 MHz**		

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ITU Region 1 allocations and footnotes	South African allocations and footnotes	Typical Applications	Notes and Comments
MARITIME MOBILE (distress and calling) 5.111 5.226	MARITIME MOBILE (distress and calling) 5.111 5.226	Distress safety and calling (156.76250 – 156.8375, channel 16)	See Section 7 for details
156.8125-156.8357 MHz MARITIME MOBILE Mobile-satellite (Earth-to-space) 5.111 5.226 5.228	**156.8125-156.8375 MHz** MARITIME MOBILE Mobile-satellite (Earth-to-space)	Distress safety and calling (156.76250 – 156.8375) Reception of AIS emissions of long-range AIS broadcast messages	See section 7 for details.
156.8357-156.8375 MHz MARITIME MOBILE Mobile-satellite (Earth-to-space) 5.111 5.226 5.228	5.111 5.226 5.228		
156.8375-157.1875 MHz FIXED MOBILE -except aeronautical mobile	**156.8375-157.1875 MHz** FIXED MOBILE -except aeronautical mobile	Government Services 156.8375-157.45 MHz Maritime mobile communications (ship stations). Land mobile in areas remote from coast.	Paired with 161.5-162.0 MHz and single frequency applications; ITU RR Articles 31 and 52 and Appendix 18 apply

ITU Region 1 allocations and footnotes	South African allocations and footnotes	Typical Applications	Notes and Comments
5.226	5.226		
157.1875-157.3375 MHz FIXED MOBILE -except aeronautical mobile Maritime mobile-satellite 5.208A 5.208B 5.228AB 5.228AC 5.226	**157.1875-157.3375 MHz** FIXED MOBILE -except aeronautical mobile Maritime mobile-satellite (Earth-to-space) (non-GSO) Maritime mobile-satellite (space-to-Earth) (non-GSO) 5.228AB 5.228AC 5.208A 5.208B 5.226	Government Services	Resolution 739 (Rev.WRC-19) apply MSS and Maritime mobile-satellite shall protect RAS in line with 5.208A
157.3375-161.7875 MHz FIXED MOBILE -except aeronautical mobile 5.226	**157.3375-161.7875 MHz** FIXED MOBILE -except aeronautical mobile 5.226	Government Services (157.450-160.6 MHz) PMR and/or PAMR (160.600-160.975 MHz) Maritime mobile communications (Coast stations). Land mobile in areas remote from coast (160.975-161.475 MHz) PMR and/or PAMR (161.475-162.050 MHz)	Single frequency applications Paired with 156.025-156.350 MHz; Paired with 156.9-157.4 MHz; ITU RR Article 31 and Article 52 apply Appendix 18 apply.

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ITU Region 1 allocations and footnotes	South African allocations and footnotes	Typical Applications	Notes and Comments
161.7875-161.9375 MHz FIXED MOBILE -except aeronautical mobile Maritime mobile-satellite 5.208A 5.208B 5.228AB 5.228AC 5.226	**161.7875-161.9375 MHz** FIXED MOBILE -except aeronautical mobile Maritime mobile-satellite (Earth-to-space) (non-GSO) 5.228A 5.228B 5.228AB 5.228AC Maritime mobile-satellite (space-to-Earth) (non-GSO)5.228A 5.228B 5.228AB 5.228AC 5.226	Government Services (161.475-162.050 MHz) Maritime mobile communications (Coast stations) Land mobile in areas remote from coast Automatic Identification System (AIS) at 161.975 MHz, 162.025 MHz and 162.050-174 MHz PMR and/or PAMR	 ITU RR Article 31 and Article 52 Appendix 18 apply.
161.9375 -161.9625 MHz FIXED MOBILE except aeronautical mobile Maritime mobile-satellite (Earth-to-space) 5.228AA	**161.9375 -161.9625 MHz** FIXED MOBILE except aeronautical mobile NF4 Maritime mobile-satellite (Earth-to-space) 5.228AA	 Sonobuoy (161.875 – 173.875) Transmission of meteorological bulletins and notice to navigators Mobile 1 MTX-DF (161.475 – 165.0375 MHz)	See Section 7 for details Paired with Mobile 1 BTX-DF (156.875 – 160.4375 MHz)

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ITU Region 1 allocations and footnotes	South African allocations and footnotes	Typical Applications	Notes and Comments
5.226	5.226	Single Frequency Mobile (160.45 – 161.475 MHz) Single Frequency Mobile (156.8375 – 156.875 MHz) Private Maritime MTX (157.45 – 157.95 MHz)	Inland areas only Paired with 162.05 – 162.55 MHz
161.9625-161.9875 MHz FIXED MOBILE except aeronautical mobile Mobile-satellite (Earth-to-space) 5.228F 5.226 5.228A 5.228B	**161.9625-161.9875 MHz** FIXED MOBILE except aeronautical mobile NF4 Mobile-satellite (Earth-to-space) 5.228F 5.226 5.228A 5.228B	Search and rescue (air to ground) Mobile 1 MTX-DF (161.475 – 165.0375 MHz) Reception of AIS emissions from stations in the mms	Search and rescue operations and other safety-related communications (air to ground) Paired with Mobile 1 BTX-DF (156.875 – 160.4375 MHz)
161.9875-162.0125 MHz FIXED MOBILE except aeronautical mobile Maritime mobile-satellite (Earth-to-space) 5.228AA 5.226 ~~5.229~~	**161.9875-162.0125 MHz** FIXED MOBILE except aeronautical mobile NF4 Maritime mobile-satellite (Earth-to-space) 5.228AA 5.226	Transmission of meteorological bulletins and notice to navigators Mobile 1 MTX-DF (161.475 – 165.0375 MHz)	See Section 7 for details Paired with Mobile 1 BTX-DF (156.875 – 160.4375 MHz)

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ITU Region 1 allocations and footnotes	South African allocations and footnotes	Typical Applications	Notes and Comments
162.0125-162.0375 MHz FIXED MOBILE except aeronautical mobile Mobile-satellite (Earth-to-space) 5.228F 5.226 5.228A 5.228B ~~5.229~~	**162.0125-162.0375 MHz** FIXED MOBILE except aeronautical mobile NF4 Mobile-satellite (Earth-to-space) 5.228F 5.226 5.228A 5.228B	Mobile 1 MTX-DF (161.475 – 165.0375 MHz) Reception of AIS emissions from stations in the mms. Search and rescue (air to ground)	Paired with Mobile 1 BTX-DF (156.875 – 160.4375 MHz) Search and rescue operations and other safety-related communications (air to ground)
162.0375-174 MHz FIXED MOBILE except aeronautical mobile	**162.0375-174 MHz** FIXED MOBILE except aeronautical mobile NF4	Sonobuoy in maritime service Mobile 1 MTX-DF (161.475 – 165.0375 MHz) Mobile 2 MTX-DF (165.05 – 165.5375 MHz) Single Frequency Mobile (168.95 – 170.05 MHz) Mobile 3 MTX-DF (165.55 – 167.4875 MHz) Single Frequency Mobile (172 – 172.0375 MHz) Mobile 4 MTX-DF (167.5 – 168.9375 MHz) Meter Reading (169.4 – 169.475 MHz)	Paired with Mobile 1 BTX-DF (156.875 – 160.4375 MHz) Paired with Mobile 2 BTX-DF (170.05 – 170.5375 MHz) Paired with Mobile 3 BTX-DF (172.05 – 173.9875 MHz) Paired with Mobile 4 BTX (170.55 – 171.9875 MHz)

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ITU Region 1 allocations and footnotes	South African allocations and footnotes	Typical Applications	Notes and Comments
5.226 ~~5.229~~	5.226 NF5	Non-specific SRD's – Telecommand only (173.2125 – 173.2375 MHz) Non-specific SRDs (173.2375 – 173.2875 MHz) Wireless microphones and assistive listening devices (173.7 – 175.1 MHz)	Radio Frequency Spectrum Regulations (Annex B) (GG. No.38641, 30 March 2015). .
174-223 MHz BROADCASTING 5.235 5.237 5.243	**174-223 MHz** BROADCASTING NF5	Analogue Television Broadcasting (174 – 214 MHz) T-DAB (214 – 230 MHz) Digital Sound-Broadcasting Digital Television Broadcasting (174 – 214 MHz) Wireless microphones (173.7 – 175.1 MHz)	TV Band III Migration from analogue to digital is harmonised in SADC. Digital Sound Broadcasting (DSB) planned in this band. TV Band III Regulations was published in GG44469 Notice 215 of 2021 The Terrestrial Broadcasting Frequency Plan as amended (GG no.36321) 02 April 2013 Radio Frequency Spectrum Regulations (Annex B) (GG. No.38641, 30 March 2015)

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ITU Region 1 allocations and footnotes	South African allocations and footnotes	Typical Applications	Notes and Comments
223-230 MHz BROADCASTING Fixed Mobile 5.243 5.246 5.247	**223-230 MHz** BROADCASTING Fixed Mobile	T-DAB (214 – 230 MHz) Digital Sound Broadcasting	Migration from analogue to digital is harmonised in SADC. Digital sound broadcasting is being planned in this band. Digital Sound Broadcasting (DSB) Regulations was published in GG44469 Notice 215 of 2021 The Terrestrial Broadcasting Frequency Plan as amended (GG no.36321) 02 April 2013
230-235 MHz FIXED MOBILE 5.247 5.251 5.252	**230-238 MHz** BROADCASTING 5.252	Digital Television Broadcasting (230 – 238 MHz)	The Terrestrial Broadcasting Frequency Plan as amended (GG no.36321) 02 April 2013
235-267 MHz FIXED MOBILE	**238-246 MHz** FIXED MOBILE	PMR and/or PAMR(238- 242.95 MHz) International Distress Frequency at 243 MHz (242.95 – 243.05 MHz) Low-power devices (243.05-246.00 MHz)	Band available for distress and safety purposes. Low-power devices ancillary to the broadcasting service.

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ITU Region 1 allocations and footnotes	South African allocations and footnotes	Typical Applications	Notes and Comments
	Mobile-satellite 5.111 5.252 5.254 5.256	DAB+ (238-242.95 MHz)	Mobile-satellite may be used in (235 -322 MHz) and (335.4 -399.9 MHz) Future consideration for Digital Sound Broadcasting in the band 238 – 240 MHz Channel 13F (239.2 MHz) can be used nationally for DAB+ as currently used.during DAB+ trials Radio Frequency Spectrum Regulations (Annex B) (GG. No.38641, 30 March 2015)
	246-254 MHz BROADCASTING 5.254	Digital Television broadcasting (246-254 MHz)	The Terrestrial Broadcasting Frequency Plan as amended (GG no.36321) 02 April 2013
5.111 5.252 5.254 5.256 5.256A	**254-267 MHz** MOBILE FIXED Mobile-satellite 5.111 5.254 5.256	Trunking BTX (254 – 259.4 MHz) Trunking MTX (262 – 267.4 MHz) Government Services (267.4-272 MHz)	Paired with 262 – 267.4 MHz Paired with 254 – 259.4 MHz Mobile-satellite may be used in (235 -322 MHz) and (335.4 -399.9 MHz)
267-272 MHz FIXED	**267-272 MHz** FIXED	Government Services	

ITU Region 1 allocations and footnotes	South African allocations and footnotes	Typical Applications	Notes and Comments
MOBILE Space operation (space-to-Earth) 5.254 5.257	MOBILE SPACE OPERATION (telemetry) Mobile-satellite Space operation (space-to-Earth) 5.254 5.257	Trunking MTX (262 – 267.4 MHz) Space Telemetry (267 – 272 MHz)	Paired with 254 – 259.4 MHz Mobile-satellite may be used in (235 -322 MHz) and (335.4 -399.9 MHz)
272-273 MHz SPACE OPERATION (space-to-Earth) FIXED MOBILE 5.254	**272-273 MHz** SPACE OPERATION (space-to-Earth) FIXED MOBILE Mobile-satellite 5.254	Government Services	Mobile-satellite may be used in (235 -322 MHz) and (335.4 -399.9 MHz)
273-312 MHz FIXED MOBILE 5.254	**273-312 MHz** FIXED MOBILE Mobile-satellite 5.254	Government Services Single Frequency Mobile (278 – 286 MHz)	Mobile-satellite may be used in (235 -322 MHz) and (335.4 -399.9 MHz)
312-315 MHz FIXED MOBILE Mobile-satellite (Earth-to-space)	**312-315 MHz** FIXED MOBILE Mobile-satellite (Earth-to-space)	Government Services	

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ITU Region 1 allocations and footnotes	South African allocations and footnotes	Typical Applications	Notes and Comments
5.254 5.255	5.254 5.255		Mobile-satellite may be used in (235 -322 MHz) and (335.4 -399.9 MHz)
315-322 MHz FIXED MOBILE 5.254	**315-322 MHz** FIXED MOBILE Mobile-satellite 5.254	Government Services	 Mobile-satellite may be used in (235 -322 MHz) and (335.4 -399.9 MHz)
322-328.6 MHz FIXED MOBILE RADIO ASTRONOMY 5.149	**322-328.6 MHz** FIXED MOBILE RADIO ASTRONOMY 5.149	 Government Services Radio Astronomy (Observation of deuterium)	 See Section 5 coordination with radio astronomy
328.6-335.4 MHz AERONAUTICAL RADIONAVIGATION 5.258 5.259	**328.6-335.4 MHz** AERONAUTICAL RADIONAVIGATION 5.258	 ILS Glide Path	

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ITU Region 1 allocations and footnotes	South African allocations and footnotes	Typical Applications	Notes and Comments
335.4-387 MHz FIXED MOBILE 5.254	**335.4-387 MHz** FIXED NF6 MOBILE NF7 Mobile-satellite 5.254	 PTP/PTMP FWA (336 – 346 MHz) FWA (356 – 366 MHz) Government Services (366-380 MHz) Digital Trunking (Emergency) (380 – 387 MHz) (PPDR[16]) PMR and/or PAMR (335.4-336 MHz) Unmanned Aerial Vehicle (UAV) (366.0-380.0 MHz)	 Paired with 356 – 366 MHz Paired with 336 – 346 MHz Paired with 390 – 397 MHz (Coordination is required with PTP/PTMP in the implement of UAV) Radio Frequency Spectrum Assignment Plan GG 41512 Notice 148 of 2018
387-390 MHz FIXED MOBILE Mobile-satellite (space-to-Earth)	**387-390 MHz** FIXED MOBILE NF7 Mobile-satellite (space-to-Earth)	 Digital Trunking (387 – 390 MHz) (Govt.) PMR and/or PAMR	 Paired with 397 – 399.9 MHz (To be used mainly for digital systems.) Radio Frequency Spectrum Assignment Plan GG 41512 Notice 148 of 2018

[16] http://www.crasa.org/common_up/crasa-setup/12-03-2015_GUIDELINES%20ON%20FREQUENCIES%20FOR%20PPDR%202014.pdf

ITU Region 1 allocations and footnotes	South African allocations and footnotes	Typical Applications	Notes and Comments
5.208A 5.208B 5.254 5.255	5.208A 5.208B 5.254 5.255		Final Frequency Migration Plan 2019 (GG No.42337 Notice 36 of 2019)
390-399.9 MHz FIXED MOBILE 5.254	**390-399.9 MHz** FIXED MOBILE NF7 Mobile-satellite 5.254	Digital Trunking Emergency) (390 – 397 MHz) (PPDR) Government Services Digital Trunking (397 – 399.9 MHz) (Govt.) PMR and/or PAMR	Paired with 380 – 387 MHz Paired with 387 – 390 MHz In accordance with Resolution 646 and Recommendation ITU-R M.2015-2 latest version. Radio Frequency Spectrum Assignment Plan GG 41512 Notice 148 of 2018 Final Frequency Migration Plan 2019 (GG No.42337 Notice 36 of 2019)
399.9-400.05 MHz MOBILE-SATELLITE (Earth-to-space) 5.209 5.220 5.260A 5.260B	**399.9-400.05 MHz** MOBILE-SATELLITE (Earth-to-space) (non-GSO) 5.209 5.220 5.260A 5.260B		Radio Frequency Spectrum Assignment Plan GG 41512 Notice 148 of 2018
400.05-400.15 MHz	**400.05-400.15 MHz**		

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ITU Region 1 allocations and footnotes	South African allocations and footnotes	Typical Applications	Notes and Comments
STANDARD FREQUENCY AND TIME SIGNAL-SATELLITE (400.1 MHz) 5.261 5.262	STANDARD FREQUENCY AND TIME SIGNAL-SATELLITE (400.1 MHz) 5.261 5.262		
400.15-401 MHz METEOROLOGICAL AIDS METEOROLOGICAL-SATELLITE (space-to-Earth) MOBILE-SATELLITE (space-to-Earth) 5.208A 5.208B 5.209 SPACE RESEARCH (space-to-space) 5.263 Space operation (space-to-Earth) 5.262 5.264	**400.15-401 MHz** METEOROLOGICAL AIDS METEOROLOGICAL-SATELLITE (space-to-Earth) MOBILE-SATELLITE (space-to-Earth)(non-GSO) 5.208A 5.208B 5.209 SPACE RESEARCH (space-to-space) 5.263 Space operation (space-to-Earth) 5.264	Radiosonde Communication with manned space vehicles	
401-402 MHz METEOROLOGICAL AIDS SPACE OPERATION (space-to-Earth) EARTH EXPLORATION-SATELLITE (Earth-to-space)	**401-402 MHz** METEOROLOGICAL AIDS SPACE OPERATION (space-to-Earth) EARTH EXPLORATION-SATELLITE (Earth-to-space)	Radiosonde	Note limitations in e.i.r.p 5.264A

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ITU Region 1 allocations and footnotes	South African allocations and footnotes	Typical Applications	Notes and Comments
METEOROLOGICAL-SATELLITE (Earth-to-space) Fixed Mobile except aeronautical mobile 5.264A 5.264B	METEOROLOGICAL-SATELLITE (Earth-to-space) Fixed Mobile except aeronautical mobile 5.264A 5.264B	Data uplink to Geostationary Satellite orbit	
402-403 MHz METEOROLOGICAL AIDS EARTH EXPLORATION-SATELLITE (Earth-to-space) METEOROLOGICAL-SATELLITE (Earth-to-space) Fixed Mobile except aeronautical mobile 5.264A 5.264B	**402-403 MHz** METEOROLOGICAL AIDS EARTH EXPLORATION-SATELLITE (Earth-to-space) METEOROLOGICAL-SATELLITE (Earth-to-space) Fixed Mobile except aeronautical mobile 5.264A 5.264B	Radiosonde Medical implants (402 – 405 MHz) Various SRD's (402 – 406 MHz) SRDs – ultra low power active medical implants	Radio Frequency Spectrum Regulations (Annex B) (GG. No.38641, 30 March 2015). Note limitations in e.i.r.p 5.264A SRDs (402 – 405 MHz) ITU-R Recommendation. SM.1896-1 latest version ITU-R Recommendation. RS.1346 latest version.
403-406 MHz METEOROLOGICAL AIDS Fixed Mobile except aeronautical mobile	**403-406 MHz** METEOROLOGICAL AIDS Fixed Mobile except aeronautical mobile	Radiosonde Medical implants (402 – 405 MHz) Various SRD's (402 – 406 MHz)	Radio Frequency Spectrum Regulations (Annex B) (GG. No.38641, 30 March 2015). Note limitations in e.i.r.p 5.264A SRDs (402 – 405 MHz)

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ITU Region 1 allocations and footnotes	South African allocations and footnotes	Typical Applications	Notes and Comments
5.265	5.265		ITU-R Recommendation. SM.1896-1 latest version ITU-R Recommendation. RS.1346 latest version
406-406.1 MHz MOBILE-SATELLITE (Earth-to-space) 5.265 5.266 5.267	**406-406.1 MHz** MOBILE-SATELLITE (Earth-to-space) 5.265 5.266 5.267	COSPAS – SARSAT: Emergency Position Indicating Radio Beacon (EPIRB) Low power satellite EPIRBs (distress and safety purposes)	Public Locator Beacon ITU RR Articles 32 apply ITU RR Articles 34 apply Appendix 15 apply
406.1-410 MHz FIXED MOBILE except aeronautical mobile RADIO ASTRONOMY 5.149 5.265	**406.1-410 MHz** FIXED MOBILE except aeronautical mobile RADIO ASTRONOMY 5.149 5.265	Fixed Links (406.1 – 407.625 MHz) Mobile MTX (407.625 – 410 MHz) Government use for public safety PMR and/or PAMR PPDR Radio Astronomy (continuum observations)	Paired with 416.1 – 417.625 MHz Paired with BTX(417.625 – 420 MHz) The use of this band for PPDR to be studied. See section 5 for coordination with radio astronomy.

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ITU Region 1 allocations and footnotes	South African allocations and footnotes	Typical Applications	Notes and Comments
410-420 MHz FIXED MOBILE except aeronautical mobile SPACE RESEARCH (space-to-space) 5.268	**410-420 MHz** FIXED MOBILE except aeronautical mobile SPACE RESEARCH (space-to-space) 5.268	 Government Services Mobile MTX (410 – 413 MHz) Mobile Data MTX (413-413.7625 MHz) Digital Trunking MTX (413.7625 – 416.1 MHz) Mobile BTX (416.1 – 417.625 MHz) PMR and/or PAMR PPDR Communication links with an orbiting, manned space vehicle	 Paired with BTX (420 – 423 MHz) (Government Services) Paired with BTX (423-423.7625 MHz) Paired with 423.7625 – 426.1 MHz Paired with MTX (406.1 – 407.625 MHz) The use of this band for PPDR to be studied. Final Frequency Migration Plan 2019 (GG No.42337 Notice 36 of 2019)
420-430 MHz FIXED MOBILE except aeronautical mobile	**420-430 MHz** FIXED MOBILE except aeronautical mobile	 Single Frequency Links (426.1 – 430 MHz) Digital Trunked Mobile BTX (420 – 423 MHz) Mobile Data BTX (423 – 423.7625 MHz) Digital Trunking BTX (423.7625 – 426.1 MHz) PMR and/or PAMR PPDR	 Frequencies will only be assigned for SF links where migration above 1 GHz would be impractical Paired with 410 - 413 MHz (Government use) Paired with MTX (413 – 413.7625 MHz) Paired with MTX (413.7626 – 416.1 MHz) The use of this band for PPDR to be studied.

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ITU Region 1 allocations and footnotes	South African allocations and footnotes	Typical Applications	Notes and Comments
Radiolocation 5.269 5.270 5.271	Radiolocation		Final Frequency Migration Plan 2019 (GG No.42337 Notice 36 of 2019)
430-432 MHz AMATEUR RADIOLOCATION 5.271 5.274 5.275 5.276 5.277	**430-432 MHz** AMATEUR NF8 RADIOLOCATION	Amateur Applications	Radio Frequency Spectrum Regulations (Annex B) (GG. No.38641, 30 March 2015).
432-438 MHz AMATEUR RADIOLOCATION Earth exploration-satellite (active) 5.279A 5.138 5.271 5.276 5.277 5.280 5.281 5.282	**432-438 MHz** AMATEUR NF8 RADIOLOCATION Earth exploration-satellite (active) 5.279A Amateur -satellite 5.138 5.282	Amateur (432-438 MHz) ISM (433.0-434.79 MHz) Non Specific SRD including RFID (433.05 – 434.79 MHz) ISM applications Amateur-satellite (435-438 MHz)	Conditions for amateur satellite service is given in 5.282 Radio Frequency Spectrum Regulations (Annex B) (GG. No.38641, 30 March 2015). For earth exploration-satellite see Rec. ITU-R RS.1260-2 latest version Conditions for amateur satellite service is given in 5.282 For earth exploration-satellite see Rec. ITU-R RS.1260-2

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ITU Region 1 allocations and footnotes	South African allocations and footnotes	Typical Applications	Notes and Comments
438-440 MHz AMATEUR RADIOLOCATION 5.271 5.274 5.275 5.276 5.277 5.283	**438-440 MHz** AMATEUR NF8 RADIOLOCATION	Amateur	Radio Frequency Spectrum Regulations (Annex B) (GG. No.38641, 30 March 2015).
440-450 MHz FIXED	**440-450 MHz** FIXED	Telemetry / Data BTX (440 – 441 MHz) FIXED (telemetry, dual frequency alarm systems) Agricultural Telemetry Application Roving simplex Application Simplex Applications	Paired with MTX (445 – 446 MHz) Channels 440.0125, 440.3625, 445.0125 and 445.3625 MHz are used for Agricultural Telemetry. Channels 440.275 MHz, 440.2875 MHz, 445.2750 MHz, 445.2875 MHz, 440.375 MHz and 445.375 MHz are roving simplex channels. Channels 440 - 440.100 MHz and 445 – 445.1 MHz are used as simplex.
MOBILE except aeronautical mobile	MOBILE except aeronautical mobile	Mobile MTX (441.1 – 445 MHz) Single Frequency Mobile (441 – 441.1 MHz) PPDR PMR and/or PAMR446 (446 – 446.1 MHz)	Paired with BTX (446.1 – 450 MHz) 8 channels - PMR446-ERC/DEC/ (98)25

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ITU Region 1 allocations and footnotes	South African allocations and footnotes	Typical Applications	Notes and Comments
Radiolocation 5.269 5.285 5.270 5.271 5.284 5.286	~~SPACE OPERATION (Earth-to-space)~~ ~~SPACE RESEARCH (Earth-to-space)~~ Radiolocation 5.269 5.285 5.270 5.271 5.284 5.286		Radio Frequency Spectrum Assignment Plan GG 42230 Notice 74 of 2019 Radio Frequency Spectrum Regulations (Annex B) (GG. No.38641, 30 March 2015). Further studies Final Frequency Migration Plan 2019 (GG No.42337 Notice 36 of 2019)
450-455 MHz FIXED MOBILE 5.286AA	**450-455 MHz** FIXED MOBILE 5.286AA NF9 SPACE OPERATION (Earth-to-space)	Fixed links (450 – 453 MHz) Government Services Single Frequency Mobile (453 – 454 MHz) Paging (454 – 454.425 MHz) Trunked Mobile BTX (454.425 – 460 MHz) IMT450 PMR and/or PAMR	Paired with 460 – 463 MHz Paired with MTX (464.425 – 470 MHz) This band is currently used for a variety of fixed and mobile systems in the various SADC countries. ITU-R Recommendation M.1036-6 latest version. Resolution 224 (Rev WRC-19) Radio Frequency Spectrum Regulations as amen ded (Annex B) (GG. No. 38641, 30 March 2015). Radio Frequency Spectrum Assignment Plan

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ITU Region 1 allocations and footnotes	South African allocations and footnotes	Typical Applications	Notes and Comments
5.209 5.271 5.286 5.286A 5.286B 5.286C 5.286D 5.286E	SPACE RESEARCH (Earth-to-space) 5.209 5.286 5.286A 5.286B 5.286C		2015, Government Gazette 38640 (Notice 270 of 2015) International Mobile Telecommunication Roadmap (GG No.42829 Notice 600 of 2019). ~~New RFSAP to be developed.~~ RFSAP- Government Gazette No. 48353, 31 March 2023 (Notice 3246 of 2023)
455-456 MHz FIXED MOBILE 5.286AA 5.209 5.271 5.286A 5.286B 5.286C 5.286E	**455-456 MHz** FIXED MOBILE 5.286AA NF9 5.209 5.286A 5.286B 5.286C	Government Services Trunked mobile BTX (454.425 – 460 MHz) IMT450	Paired with 464.425 – 470 MHz ITU-R Recommendation M.1036-6 latest version Resolution 224 (Rev WRC-19) Radio Frequency Spectrum Regulations as amended (Annex B) (GG. No. 38641, 30 March 2015). Radio Frequency Spectrum Assignment Plan 2015, Government Gazette 38640 (Notice 270 of 2015) International Mobile Telecommunication Roadmap (GG No.42829 Notice 600 of 2019). ~~New RFSAP to be developed~~ RFSAP - Government Gazette No. 48353, 31 March 2023 (Notice 3246 of 2023)
456-459 MHz	**456-459 MHz**		

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ITU Region 1 allocations and footnotes	South African allocations and footnotes	Typical Applications	Notes and Comments
FIXED MOBILE 5.286AA 5.271 5.287 5.288	FIXED MOBILE 5.286AA NF9 5.287	Trunked mobile BTX (454.425 – 460 MHz) IMT450 Government Services	Paired with 464.425 – 470 MHz ITU-R Recommendation M.1036-6 latest version Resolution 224 (Rev WRC-19) Radio Frequency Spectrum Regulations as amended (Annex B) (GG. No. 38641, 30 March 2015). Radio Frequency Spectrum Assignment Plan 2015, Government Gazette 38640 (Notice 270 of 2015) International Mobile Telecommunication Roadmap (GG No.42829 Notice 600 of 2019). ~~New RFSAP to be developed~~ RFSAP - Government Gazette No.48353 of 31 March 2023 (Notice 3246 of 2023)
459-460 MHz FIXED MOBILE 5.286AA	**459-460 MHz** FIXED MOBILE 5.286AA NF9	Trunked Mobile BTX 454.425 – 460 MHz IMT450 Government Services	Paired with 464.425 – 470 MHz ITU-R Recommendation M.1036-6 latest version Resolution 224 (Rev WRC-19) Radio Frequency Spectrum Regulations as amended (Annex B) (GG. No. 38641, 30 March 2015). Radio Frequency Spectrum Assignment Plan 2015, Government Gazette 38640 (Notice 270 of 2015)

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ITU Region 1 allocations and footnotes	South African allocations and footnotes	Typical Applications	Notes and Comments
5.209 5.271 5.286A 5.286B 5.286C 5.286E	5.209 5.286A 5.286B 5.286C		International Mobile Telecommunication Roadmap (GG No.42829 Notice 600 of 2019). ~~New RFSAP to be developed~~ RFSAP- Government Gazette No. 48353of 31 March of 2023 (Notice 3246 of 2023)
460-470 MHz FIXED MOBILE 5.286AA Meteorological-satellite (space-to-Earth)	**460-470 MHz** FIXED MOBILE 5.286AA NF9 Meteorological-satellite (space-to-Earth) Earth exploration-satellite (space-to-Earth)	 Fixed Links (460 – 463 MHz) Single Frequency Mobile (463.025 – 463.975 MHz) Low Power Mobile Radio (463.975 MHz, 464.125 MHz, 464.175 MHz, 464.325 MHz, 464.375 MHz) Single Frequency Mobile (464.375 – 464.425 MHz) Trunked Mobile MTX (464.425 – 470 MHz) IMT450 Security Systems (464.5375 MHz) Non-specific SRDs (464.5 – 464.5875 MHz) Government Services	 Paired with 450 – 453 MHz Paired with BTX (454.425 – 460 MHz) ITU-R Recommendation M.1036-6 latest versionResolution 224 (Rev WRC-19) Radio Frequency Spectrum Regulations as amended (Annex B) (GG. No. 38641, 30 March 2015). Radio Frequency Spectrum Assignment Plan 2015, GG 38640 (Notice 270 of 2015)

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ITU Region 1 allocations and footnotes	South African allocations and footnotes	Typical Applications	Notes and Comments
5.287 5.288 5.289 5.290	5.287 5.289		International Mobile Telecommunication Roadmap (GG No.42829 Notice 600 of 2019). ~~New RFSAP to be developed~~ RFSAP- Government Gazette No. 48353 of 31 March 2023. (Notice 3246 of 2023)
470-694 MHz BROADCASTING	**470-606 MHz** BROADCASTING Land mobile	DTT Broadcasting (470-694 MHz) SAP/SAB Applications Applications ancillary to broadcasting and programme-making	Broadcasting Allotments in accordance with GE89 and GE06. Broadcast assignments in accordance with the latest version of the Terrestrial Broadcasting Frequency Plan as amended (GG No.36321) 02 April 2013. Band IV/V Analogue television is to be migrated to digital television and ensure harmonisation with SADC. The use of Television Whitespaces in the band 470 – 694 MHz excluding sub band 606 to 614 MHz, subject to non-Interference non-Protection basis to users under a primary allocation, max. 50 mW ERP. Regulations Television Whitespaces – GG 44373 (Notice 164 of 2021) and Government Gazette No. 41512 (Notice 147 of 2018) Radio Frequency Spectrum Assignment Plan, GG 43341 (Notice 284 of 2020

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ITU Region 1 allocations and footnotes	South African allocations and footnotes	Typical Applications	Notes and Comments
	5.149 5.296 5.304 5.306		The use of land mobiles in accordance with footnote No. 5.296
	606-614 MHz BROADCASTING RADIO ASTRONOMY Land mobile 5.149 5.296 5.304 5.306	DTT Broadcasting (470-694 MHz) Radio Astronomy (606 – 614 MHz) SAP/SAB Applications Applications ancillary to broadcasting and programme-making	Broadcasting Allotments in accordance with GE89 and GE06. Broadcast assignments in accordance with the latest version of the Terrestrial Broadcasting Frequency Plan as amended (GG No.36321) 02 April 2013. Band IV/V Analogue television is to be migrated to digital television and ensure harmonisation with SADC. Radio Frequency Spectrum Assignment Plan, GG 43341 Notice 284 of 2020 RAS VLBI Observations (608 – 614 MHz). See Section 5 for coordination with radio astronomy.
	614-694 MHz BROADCASTING Land mobile	DTT Broadcasting (470-694 MHz) SAP/SAB Applications	Broadcasting Allotments in accordance with GE89 and GE06. Broadcast assignments in accordance with the latest version of

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ITU Region 1 allocations and footnotes	South African allocations and footnotes	Typical Applications	Notes and Comments
5.149 5.291A 5.294 5.295A 5.296 5.300 5.304 5.306 5.307A 5.307B 5.312	5.149 5.296 5.304 5.306	Applications ancillary to broadcasting and programme-making	the Terrestrial Broadcasting Frequency Plan as amended (GG No.36321) 02 April 2013. Band IV/V Analogue television is to be migrated to digital television and ensure harmonisation with SADC. The use of Television Whitespaces in the band 470 – 694 MHz excluding sub band 606 to 614 MHz, subject to non-Interference non-Protection basis (to users under a primary allocation, max. 50 mW ERP). Regulations Television Whitespaces – GG 44373 Notice 164 of 2021 and Government Gazette No. 41512 1913 (Notice 147 of 2018) Radio Frequency Spectrum Assignment Plan, GG 43341 Notice 284 of 2020
694-790 MHz MOBILE except aeronautical mobile 5.312A 5.312B 5.317A BROADCASTING	**694-790 MHz** MOBILE except aeronautical mobile 5.312A 5.312B 5.317A NF9 NF9	IMT700 MTX (703 – 733 MHz) IMT750 (733 to 758 MHz) LTE LTE Advance HIBS – Resolution 213 (WRC-23) applies	Paired with BTX (758 – 788 MHz) International Mobile Telecommunication Roadmap (GG No.42829 Notice 600 of 2019) . Radio Frequency Spectrum

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ITU Region 1 allocations and footnotes	South African allocations and footnotes	Typical Applications	Notes and Comments
5.300 5.312	~~5.312A~~ ~~5.317A~~		Assignment Plan (GG 38640 Notice 271 and 272 of 2015) as amended IMT in accordance with ITU-R Recommendation ITU-R M.2090 latest version and Resolution **760 (WRC-15)** applies Recommendation ITU-R M.1036-6 Consideration of the future spectrum needs of Broadband Public Protection and Disaster Relief (PPDR) in the range 694-790 MHz as described in the most recent ITU-R M.2015, while taking into account studies called for by Resolution 646 (WRC15) for technical and operational measures. Band IV/V analogue television is to be migrated to digital television and ensure harmonisation with SADC. WRC-07, WRC-12 and WRC-15 allocated this band to Mobile service except aeronautical mobile and identified it for IMT. Fixed links operating in this band will have to be migrated in order to accommodate IMT.
790-862 MHz FIXED	**790-862 MHz** FIXED	Fixed Links (856 – 864.1 MHz) Wireless Access (827.775 – 832.695 MHz)	Paired with 868.1 – 876 MHz Paired with 827.775- 832.695 MHz

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ITU Region 1 allocations and footnotes	South African allocations and footnotes	Typical Applications	Notes and Comments
MOBILE except aeronautical mobile 5.316B 5.312B 5.317A BROADCASTING	MOBILE except aeronautical mobile 5.316B 5.317A NF9 5.312A 5.312B 5317A	IMT800 MTX (832 - 862 MHz) IMT850 MTX (825 – 830 MHz) HIBS – Resolution 213 (WRC-23) applies	Paired with BTX (791 – 821 MHz) Paired with BTX (870 – 875 MHz) International Mobile Telecommunication Roadmap (GG No.42829 Notice 600 of 2019) . Radio Frequency Spectrum Assignment Plan (GG 38640 Notice 271 and 272 of 2015) as amended IMT in accordance with ITU-R Recommendation ITU-R M.2090 latest version and Resolution **760 (WRC-15)** applies Recommendation ITU-R M.1036-6 Consideration of the future spectrum needs of Broadband Public Protection and Disaster Relief (PPDR) in the range 694-790 MHz as described in the most recent ITU-R M.2015, while taking into account studies called for by Resolution 646 (WRC15) for technical and operational measures. Band IV/V analogue television is to be migrated to digital television and ensure harmonisation with SADC. WRC-07, WRC-12 and WRC-15 allocated this band to Mobile service except aeronautical mobile and identified it for IMT. Fixed links operating in this band will have to be migrated in order to accommodate IMT.

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ITU Region 1 allocations and footnotes	South African allocations and footnotes	Typical Applications	Notes and Comments
5.312 5.319			Radio Frequency Spectrum Assignment Plan GG 42337 Notice 165 of 2019 Radio Frequency Spectrum Assignment Plan (GG 38640 Notice 273 of 2015) as amended Radio Frequency Spectrum Assignment Plan GG 41082 Notice 648 of 2017
862-890 MHz FIXED MOBILE except aeronautical mobile 5.312B 5.317A BROADCASTING 5.322	**862-890 MHz** FIXED MOBILE except aeronautical mobile 5.312B 5.317A NF10	Fixed Links (856 – 864.1 MHz) Wireless Access (872.775 877.695 MHz) GSM-R MTX (877.695 – 880 MHz) NF10 IMT900 MTX (880-915 MHz) IMT850 BTX (870-875 MHz) Wireless Audio systems and Wireless microphones (863 – 865 MHz) CT2 cordless phones (864.1 – 868.1 MHz) FWA (864.1 – 868.1 MHz) RFID (865 – 868 MHz) Non-specific SRD and RFID (869.4 – 869.65 MHz)	Paired with 868.1 – 876 MHz Paired with 827.775 – 832.695 MHz Paired with 921 – 925 MHz Paired with BTX (925 – 960 MHz) Paired with MTX (825-830 MHz) Radio Frequency Spectrum Regulations as amended (Annex B) (GG. No. 38641, 30 March 2015). Recommendation ITU-R M.1036-6 Radio Frequency Spectrum Assignment Plan GG 42337 Notice 165 of 2019 Radio Frequency Spectrum Assignment Plan (GG 38640 Notice 275 of 2015) as amended

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ITU Region 1 allocations and footnotes	South African allocations and footnotes	Typical Applications	Notes and Comments
5.319 5.323		Non Specific SRDs (868 – 868.6 MHz, 868.7 – 869.2 MHz, 869.4 – 869.65 MHz, 869.7 – 870.0 MHz) Alarms (868.6 – 868.7 MHz, 869.25 – 869.3 MHz, 869.65 – 869.7 MHz) HIBS – Resolution 213 (WRC-23) applies	International Mobile Telecommunication Roadmap GG No.42829 Notice 600 of 2019).
890-942 MHz FIXED MOBILE except aeronautical mobile 5.312B 5.317A BROADCASTING 5.322 Radiolocation 5.323	**890-942 MHz** FIXED MOBILE except aeronautical mobile 5.312B 5.317A NF9 NF10 NF11 Radiolocation	IMT900 MTX (880 – 915 MHz) GSM-R (BTX) (921 - 925 MHz) RFID (including, passive tags and vehicle location (915.1 – 921 MHz)	Paired with BTX (925 – 960 MHz Paired with MTX (877.695 – 880 MHz) Radio Frequency Spectrum Assignment Plan (GG 38640 Notice 275 of 2015) as amended International Mobile Telecommunication Roadmap GG No.42829 Notice 600 of 2019). Final Frequency Migration Plan 2019 (GG No.42337 Notice 36 of 2019)

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ITU Region 1 allocations and footnotes	South African allocations and footnotes	Typical Applications	Notes and Comments
942-960 MHz FIXED MOBILE except aeronautical mobile 5.312B 5.317A BROADCASTING 5.322 5.323	**942-960 MHz** FIXED MOBILE except aeronautical mobile 5.312B 5.317A NF9	IMT900 BTX (925 – 960 MHz)	Paired with MTX(880 – 915 MHz) Recommendation ITU-R M.1036-6
960-1 164 MHz AERONAUTICAL MOBILE (R) 5.327A AERONAUTICAL RADIONAVIGATION 5.328	**960-1 087.7 MHz** AERONAUTICAL MOBILE (R) 5.327A AERONAUTICAL RADIONAVIGATION 5.328	Distance measuring equipment / Secondary surveillance radar (Airborne electronic aids to air navigation and any directly associated ground-based facilities	Resolution 425 (rev WRC-19) apply.
	1087.7 -1 093.3 MHz AERONAUTICAL MOBILE (R) 5.327A AERONAUTICAL MOBILE-SATELLITE (R) (Earth-to-space) AERONAUTICAL RADIONAVIGATION 5.328	Space station reception of ADS-B emissions from aircraft transmitters) Airborne electronic aids to air navigation and any directly associated ground-based facilities	Resolution 425 (rev WRC-19) apply.
	1093.3 -1 164 MHz		

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ITU Region 1 allocations and footnotes	South African allocations and footnotes	Typical Applications	Notes and Comments
5.328AA	AERONAUTICAL MOBILE (R) 5.327A AERONAUTICAL RADIONAVIGATION 5.328	Airborne electronic aids to air navigation and any directly associated ground-based facilities	Resolution 425 (rev WRC-19) apply.
1 164-1 215 MHz AERONAUTICAL RADIONAVIGATION 5.328 RADIONAVIGATION-SATELLITE (space-to-Earth) (space-to-space) 5.328B 5.328A	**1 164-1 215 MHz** AERONAUTICAL RADIONAVIGATION 5.328 RADIONAVIGATION-SATELLITE (space-to-Earth) (space-to-space) 5.328A	Galileo (1164 – 1214 MHz) GLONASS (1190.3 – 1213.8 MHz) Airborne electronic aids to air navigation and any directly associated ground-based facilities	
1 215-1 240 MHz EARTH EXPLORATION-SATELLITE (active) RADIOLOCATION RADIONAVIGATION-SATELLITE (space-to-Earth) (space-to-space) 5.328B 5.329 5.329A SPACE RESEARCH (active) 5.330 5.331 5.332	**1 215-1 240 MHz** EARTH EXPLORATION-SATELLITE (active) RADIOLOCATION RADIONAVIGATION-SATELLITE (space-to-Earth) (space-to-space) 5.328B 5.329 5.329A SPACE RESEARCH (active) 5.331 5.332	Radar/navigation systems (1215 – 1300 MHz) GPS (1215 – 1260 MHz) GLONASS (1237.8-1253.8 MHz)	

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ITU Region 1 allocations and footnotes	South African allocations and footnotes	Typical Applications	Notes and Comments
1 240-1 300 MHz EARTH EXPLORATION-SATELLITE (active) RADIOLOCATION RADIONAVIGATION-SATELLITE (space-to-Earth) (space-to-space) 5.328B 5.329 5.329A SPACE RESEARCH (active) Amateur	**1 240-1 260 MHz** EARTH EXPLORATION-SATELLITE (active) RADIOLOCATION RADIONAVIGATION RADIONAVIGATION-SATELLITE (space-to-Earth) (space-to-space) 5.328B 5.329 5.329A SPACE RESEARCH (active) Amateur 5.282 5.331 5.332 5.332A 5.335A	Air Traffic Control Radar (1240 – 1350 MHz) Radar/navigation systems (1215 – 1300 MHz) GPS (1215 – 1260 MHz) GLONASS (1237.8 – 1253.8 MHz) Amateur (1 240 – 1 300 MHz)	
	1 260-1 270 MHz EARTH EXPLORATION-SATELLITE (active) RADIOLOCATION RADIONAVIGATION RADIONAVIGATION-SATELLITE (space-to-Earth) (space-to-space) 5.329A SPACE RESEARCH (active) Amateur Amateur-Satellite (Earth-to-space) 5.282 5.331 5.332 5.332A 5.335A	Air Traffic Control Radar (1 240 – 1 350 MHz) Radar/navigation systems (1215 – 1300 MHz) Galileo (1260 – 1300 MHz) Amateur (1 240 – 1 300 MHz)	
5.282 5.330 5.331 5.332 5.332A 5.335 5.335A			

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ITU Region 1 allocations and footnotes	South African allocations and footnotes	Typical Applications	Notes and Comments
	1 270-1 300 MHz EARTH EXPLORATION-SATELLITE (active) RADIOLOCATION RADIONAVIGATION RADIONAVIGATION-SATELLITE (space-to-Earth) (space-to-space) 5.328B 5.329 5.329A SPACE RESEARCH (active) Amateur 5.282 5.331 5.332 5.332A 5.335A	 Air Traffic Control Radar (1 240 – 1 350 MHz) Radar/navigation systems (1215 – 1300 MHz) Galileo (1260 – 1300 MHz) Amateur (1 240 – 1 300 MHz)	
1 300-1 350 MHz AERONAUTICAL RADIONAVIGATION 5.337 RADIOLOCATION RADIONAVIGATION-SATELLITE (Earth-to-space) 5.149 5.337A	**1 300-1 350 MHz** AERONAUTICAL RADIONAVIGATION 5.337 RADIOLOCATION RADIONAVIGATION-SATELLITE (Earth-to-space) Radio Astronomy 5.149 5.337A	 Air Traffic Control Radar (1 240 – 1 350 MHz) Ground-based radars and associated airborne transponders Radio Astronomy (Doppler shifted radiation from hydrogen	 See section 5 for coordination with radio astronomy

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ITU Region 1 allocations and footnotes	South African allocations and footnotes	Typical Applications	Notes and Comments
1 350-1 400 MHz FIXED MOBILE RADIOLOCATION 5.149 5.338 5.338A 5.339	**1 350-1 400 MHz** FIXED NF 14 MOBILE RADIOLOCATION Radio Astronomy 5.149 5.338A 5.339	1 350-1 375 MHz Fixed links (duplex) 1 375-1 400 MHz Fixed links (duplex) Radio Astronomy applicable to band 1350 to 1370 MHz. Radio Astronomy (Doppler shifted radiation from hydrogen	Paired with 1492-1517 MHz; ITU-R F.1242 refers. Paired with 1427-1452 MHz; ITU-R F.1242 refers. Resolution 528 (Rev. WRC-19) Resolution 739 (Rev. WRC-19). See section 5 for coordination with radio astronomy
1 400-1 427 MHz EARTH EXPLORATION-SATELLITE (passive) RADIO ASTRONOMY SPACE RESEARCH (passive) 5.340 5.341	**1 400-1 427 MHz** EARTH EXPLORATION-SATELLITE (passive) RADIO ASTRONOMY SPACE RESEARCH (passive) 5.340 5.341	Radio Astronomy (Doppler shifted radiation from hydrogen Passive sensing	All emissions are prohibited in this band
1 427-1 429 MHz SPACE OPERATION (Earth-to-space) FIXED	**1 427-1 429 MHz** SPACE OPERATION (Earth-to-space) FIXED NF14	Fixed links (duplex)(1 427-1 452 MHz) IMT	Paired with 1 375 – 1 400 MHz In accordance with Recommendation ITU-R F.1242

ITU Region 1 allocations and footnotes	South African allocations and footnotes	Typical Applications	Notes and Comments
MOBILE except aeronautical mobile 5.341A 5.341B 5.341C 5.338A 5.341	MOBILE except aeronautical mobile 5.341A 5.338A 5.341		ITU Res. 223 (Rev.WRC-15) Recommendation ITU-R M.1036-6 (International Mobile Telecommunications (IMT)) RFSAP's to be developed Resolution 528 (Rev. WRC-19) Resolution 739 (Rev. WRC-19).
1 429-1 452 MHz FIXED MOBILE except aeronautical mobile 5.341A 5.338A 5.341 5.342	**1 429-1 452 MHz** FIXED MOBILE except aeronautical mobile 5.341A 5.338A 5.341	 Fixed links (duplex)(1 427-1 452 MHz) IMT	 Paired with 1 375 – 1 400 MHz) In accordance with Recommendation ITU-R F.1242 Recommendation ITU-R M.1036-6 (International Mobile Telecommunications (IMT)) RFSAP's to be developed Resolution 528 (Rev. WRC-19) Resolution 739 (Rev. WRC-19).

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ITU Region 1 allocations and footnotes	South African allocations and footnotes	Typical Applications	Notes and Comments
1 452-1 492 MHz FIXED MOBILE except aeronautical mobile 5.346 BROADCASTING BROADCASTING-SATELLITE 5.208B 5.341 5.342 5.345	**1 452-1 492 MHz** FIXED NF14 MOBILE except aeronautical mobile 5.346 BROADCASTING BROADCASTING-SATELLITE 5.208B 5.341 5.345	IMT Terrestrial Digital Audio Broadcasting (T-DAB)	Resolution 528 (Rev. WRC-19) Resolution 739 (Rev. WRC-19).. Recommendation ITU-R M.1036-6 International Mobile Telecommunications (IMT)) Final Frequency Migration Plan 2019 (GG No.42337 Notice 36 of 2019) RFSAP to be Developed.
1 492-1 518 MHz FIXED MOBILE except aeronautical mobile 5.341A 5.341 5.342	**1 492-1 518 MHz** FIXED MOBILE except aeronautical mobile 5.341A 5.341	Fixed Links (1 492 – 1 517 MHz) Single Frequency Links (1 517 – 1 525 MHz) IMT	Paired with 1 350 – 1 375 MHz. In accordance with Recommendation ITU-R F.1242 ITU-R Res. 223 (Rev.WRC-15) Resolution 528 (Rev. WRC-19) and Resolution 739 (Rev. WRC-19) Recommendation ITU-R M.1036-6 International Mobile Telecommunications (IMT)) RFSAP's to be considered

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ITU Region 1 allocations and footnotes	South African allocations and footnotes	Typical Applications	Notes and Comments
1 518-1 525 MHz FIXED MOBILE except aeronautical mobile MOBILE-SATELLITE (space-to-Earth) 5.348 5.348A 5.348B 5.351A 5.341 5.342	**1 518-1 525 MHz** FIXED MOBILE except aeronautical mobile MOBILE-SATELLITE (space-to-Earth) 5.348 5.348A 5.351A 5.341	IMT Satellite component	The band 1518-1559 MHz is identified for satellite component of IMT; Res.225 applies. Radio Frequency Spectrum Assignment Plan GG42286 Notice 125 of 2019 Final Frequency Migration Plan 2019 (GG No.42337 Notice 36 of 2019)
1 525-1 530 MHz SPACE OPERATION (space-to-Earth) FIXED MOBILE-SATELLITE (space-to-Earth) 5.208B 5.351A Earth exploration-satellite Mobile except aeronautical mobile 5.349 5.341 5.342 5.350 5.351 5.352A 5.354	**1 525-1 530 MHz** SPACE OPERATION (space-to-Earth) FIXED MOBILE-SATELLITE (space-to-Earth) 5.208B 5.351A Earth exploration-satellite Mobile except aeronautical mobile 5.341 5.351 5.354	GMDSS Maritime satellite (1 525 – 1 544 MHz) Mobile satellite (1544 – 1545 MHz) Aeronautical Mobile satellite (1545 – 1555 MHz) Land Mobile satellite (1555 – 1559 MHz)	ITU Resolution 212(Rev.WRC-19) and 225 (Rev WRC-07) Paired with 1 626.5 – 1 660.5 MHz The band 1518-1559 MHz is identified for satellite component of IMT; Res.225 applies.

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ITU Region 1 allocations and footnotes	South African allocations and footnotes	Typical Applications	Notes and Comments
1 530-1 535 MHz SPACE OPERATION (space-to-Earth) MOBILE-SATELLITE (space-to-Earth) 5.208B 5.351A 5.353A Earth exploration-satellite Fixed Mobile except aeronautical mobile 5.341 5.342 5.351 5.354	**1 530-1 535 MHz** SPACE OPERATION (space-to-Earth) MOBILE-SATELLITE (space-to-Earth) 5.208B 5.351A 5.353A Earth exploration-satellite Fixed Mobile except aeronautical mobile 5.341 5.351 5.354	GMDSS Maritime satellite (1 525 – 1 544 MHz) Mobile satellite (1544 – 1545 MHz) Aeronautical Mobile satellite (1545 – 1555 MHz) Land Mobile satellite (1555 – 1559 MHz)	Paired with 1 626.5 – 1 660.5 MHz The band 1518-1559 MHz is identified for satellite component of IMT; Res.225 applies. In the band 1530-1544 MHz priority for maritime mobile distress, urgency and safety communications (GMDSS); Res.222 applies.
1 535-1 559 MHz MOBILE-SATELLITE (space-to-Earth) 5.208B 5.351A	**1 535-1 544 MHz** MOBILE-SATELLITE (space-to-Earth) 5.208B 5.351A 5.341 5.351 5.353A 5.354 5.356 5.357 5.357A	GMDSS Maritime satellite (1 525 – 1 544 MHz)	Paired with 1 626.5 – 1 660.5 MHz The band 1518-1559 MHz is identified for satellite component of IMT; Res.225 applies. In the band 1530-1544 MHz priority for maritime mobile distress, urgency and safety communications (GMDSS); Res.222 applies.
	1 544-1 545 MHz MOBILE-SATELLITE (space-to-Earth) 5.208B 5.351A	Mobile satellite (1544 – 1545 MHz)	

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ITU Region 1 allocations and footnotes	South African allocations and footnotes	Typical Applications	Notes and Comments
	5.341 5.351 5.353A 5.354 5.356 5.357 5.357A	(Distress and safety)	The band 1518-1559 MHz is identified for satellite component of IMT; Res.225 applies.
	1 545-1 555 MHz AERONAUTICAL MOBILE (R) MOBILE-SATELLITE (space-to-Earth) 5.208B 5.351A 5.341 5.351 5.353A 5.354 5.356 5.357 5.357A	Aeronautical Mobile satellite (1545 – 1555 MHz) (Air to air) (Ground to air)	The band 1518-1559 MHz is identified for satellite component of IMT; Res.225 applies.
5.341 5.351 5.353 A 5.354 5.355 5.356 5.357 5.357A 5.359 5.362A	**1 555-1 559 MHz** MOBILE-SATELLITE (space-to-Earth) 5.208B 5.351A 5.341 5.351 5.353A 5.354 5.356 5.357 5.357A	Land Mobile satellite (1555 – 1559 MHz)	The band 1518-1559 MHz is identified for satellite component of IMT; Res.225 applies.

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ITU Region 1 allocations and footnotes	South African allocations and footnotes	Typical Applications	Notes and Comments
1 559-1 610 MHz AERONAUTICAL RADIONAVIGATION RADIONAVIGATION-SATELLITE (space-to-Earth) (space-to-space) 5.208B 5.328B 5.329A 5.341	**1 559-1 610 MHz** AERONAUTICAL RADIONAVIGATION RADIONAVIGATION-SATELLITE (space-to-Earth) (space-to-space) 5.208B 5.328B 5.329A 5.341	Global Positioning System (1 563.42 – 1 587.42 MHz) GALILEO (1559.42 – 1591.42 MHz) GLONAS (1592.9 – 1610.5 MHz)	
1 610-1 610.6 MHz MOBILE-SATELLITE (Earth-to-space) 5.351A AERONAUTICAL RADIONAVIGATION 5.341 5.355 5.359 5.364 5.366 5.367 5.368 5.369 5.371 5.372	**1 610-1 610.6 MHz** MOBILE-SATELLITE (Earth-to-space) 5.351A AERONAUTICAL RADIONAVIGATION Radiodetermination-satellite 5.341 5.364 5.366 5.367 5.368 5.371 5.372	MSS (1 610 – 1 626.5 MHz) GLONASS (1 592.9 – 1610.5 MHz) Airborne electronic aids to air navigation and any directly associated ground-based or satellite-borne facilities	Paired with 2 483.5 – 2 500 MHz for some systems The band 1610-1645.5 MHz is identified for satellite component of IMT; Res.225 applies. This band is designated world-wide for the MSS. Paired with 2483.5-2484.1 MHz for some systems.

ITU Region 1 allocations and footnotes	South African allocations and footnotes	Typical Applications	Notes and Comments
1 610.6-1 613.8 MHz MOBILE-SATELLITE (Earth-to-space) 5.351A RADIO ASTRONOMY AERONAUTICAL RADIONAVIGATION 5.149 5.341 5.355 5.359 5.364 5.366 5.367 5.368 5.369 5.371 5.372	**1 610.6-1 613.8 MHz** MOBILE-SATELLITE (Earth-to-space) 5.351A RADIO ASTRONOMY AERONAUTICAL RADIONAVIGATION Radiodetermination-satellite 5.149 5.341 5.364 5.366 5.367 5.368 5.371 5.372	MSS (1 610 – 1 626.5 MHz) Radio Astronomy (Observation of OH radical and molecules) Airborne electronic aids to air navigation and any directly associated ground-based or satellite-borne facilities	Paired with 2 483.5 – 2 500 MHz for some systems The band 1610-1645.5 MHz is identified for satellite component of IMT; Res.225 applies. This band is designated world-wide for the MSS. Paired with 2484.1-2487.3 MHz for some systems. See Section 5 for coordination with radio astronomy
1 613.8-1 621.35 MHz MOBILE-SATELLITE (Earth-to-space) 5.351A AERONAUTICAL RADIONAVIGATION	**1 613.8-1 621.35 MHz** MOBILE-SATELLITE (Earth-to-space) 5.351A AERONAUTICAL RADIONAVIGATION	MSS (1 610 – 1 626.5 MHz) Airborne electronic aids to air navigation and any directly associated ground-based or satellite-borne facilities	Paired with 2 483.5 – 2 500 MHz for some systems The band 1610-1645.5 MHz is identified for satellite component of IMT; Res.225 applies.

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ITU Region 1 allocations and footnotes	South African allocations and footnotes	Typical Applications	Notes and Comments
Mobile-satellite (space-to-Earth) 5.208B 5.341 5.355 5.359 5.364 5.365 5.366 5.367 5.368 5.369 5.371 5.372 5.372A	Mobile-satellite (space-to-Earth) 5.208B Radiodetermination-satellite 5.341 5.364 5.365 5.366 5.367 5.368 5.371 5.372 5.372A		Paired with 1593-1594 MHz for aeronautical public correspondence
1 621.35-1 626.5 MHz MOBILE-SATELLITE (Earth-to-space) 5.351A AERONAUTICAL RADIONAVIGATION MARITIME MOBILE-SATELLITE (space-to-Earth) 5.373 5.373A Mobile-satellite (space-to-Earth) except maritime mobile-satellite (space-to-Earth) 5.208B 5.341 5.355 5.359 5.364 5.365 5.366 5.367 5.368 5.369 5.371 5.372	**1 621.35-1 626.5 MHz** MOBILE-SATELLITE (Earth-to-space) 5.351A AERONAUTICAL RADIONAVIGATION MARITIME MOBILE-SATELLITE (space-to-Earth) 5.373 5.373A Mobile-satellite (space-to-Earth) except maritime mobile-satellite (space-to-Earth) 5.365 Radiodetermination-satellite 5.371 5.208B 5.341 5.364 5.366 5.368 5.372	MSS (1 610 – 1 626.5 MHz) Airborne electronic aids to air navigation and any directly associated ground-based or satellite-borne facilities	Paired with 2 483.5 – 2 500 MHz for some systems The band 1610-1645.5 MHz is identified for satellite component of IMT; Res.225 applies. Recommendation ITU-R RA769-2 and ITU RRA.1513-2 and Recommendation ITU-R M.1583-1 and Recommendation ITU-R RA.1631-0 all apply to this band.

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ITU Region 1 allocations and footnotes	South African allocations and footnotes	Typical Applications	Notes and Comments
1 626.5-1 660 MHz MOBILE-SATELLITE (Earth-to-space) 5.351A	**1 626.5-1 645.5 MHz** MOBILE-SATELLITE (Earth-to-space) 5.351A 5.341 5.351 5.353A 5.354 5.357A 5.374 5.375 5.376	GMDSS Maritime satellite (1 525 – 1 544 MHz) Mobile satellite (1544 – 1545 MHz) Aeronautical Mobile satellite (1545 – 1555 MHz) Land Mobile satellite (1555 – 1559 MHz)	Paired with 1 626.5 – 1 660.5 MHz The bands 1610-1645.5 MHz and 1646.5-1660.5 MHz are identified for satellite component of IMT; Res.225 applies. In the band 1626.5-1645.5 MHz priority is given to maritime mobile distress, urgency and safety communications (GMDSS) ; Res.222 applies.
	1 645.5-1 646.5 MHz MOBILE-SATELLITE (Earth-to-space) 5.351A 5.341 5.351 5.353A 5.354 5.357A 5.374 5.375 5.376	GMDSS Maritime satellite (1 525 – 1 544 MHz) Mobile satellite (1544 – 1545 MHz) Aeronautical Mobile satellite (1545 – 1555 MHz) Land Mobile satellite (1555 – 1559 MHz) Distress and safety	Paired with 1 626.5 – 1 660.5 MHz The bands 1610-1645.5 MHz and 1646.5-1660.5 MHz are identified for satellite component of IMT; Res.225 applies. In the band 1626.5-1645.5 MHz priority is given to maritime mobile distress, urgency and safety communications (GMDSS) ; Res.222 applies.
	1 646.5-1 656.5 MHz AERONAUTICAL MOBILE (R) MOBILE-SATELLITE (Earth-to-space) 5.351A	GMDSS Maritime satellite (1 525 – 1 544 MHz)	Paired with 1 626.5 – 1 660.5 MHz

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ITU Region 1 allocations and footnotes	South African allocations and footnotes	Typical Applications	Notes and Comments
	5.341 5.351 5.353A 5.354 5.357A 5.374 5.375 5.376	Mobile satellite (1544 – 1545 MHz) Aeronautical Mobile satellite (1545 – 1555 MHz) Land Mobile satellite (1555 – 1559 MHz) Air to air Air to ground	The bands 1610-1645.5 MHz and 1646.5-1660.5 MHz are identified for satellite component of IMT; Res.225 applies. In the band 1626.5-1645.5 MHz priority is given to maritime mobile distress, urgency and safety communications (GMDSS) ; Res.222 applies.
5.341 5.351 5.353A 5.354 5.355 5.357A 5.359 5.362A 5.374 5.375 5.376	**1 656.5-1 660 MHz** MOBILE-SATELLITE (Earth-to-space) 5.351A 5.341 5.351 5.353A 5.354 5.357A 5.374 5.375 5.376	GMDSS Maritime satellite (1 525 – 1 544 MHz) Mobile satellite (1544 – 1545 MHz) Aeronautical Mobile satellite (1545 – 1555 MHz) Land Mobile satellite (1555 – 1559 MHz)	Paired with 1 626.5 – 1 660.5 MHz The bands 1610-1645.5 MHz and 1646.5-1660.5 MHz are identified for satellite component of IMT; Res.225 applies. In the band 1626.5-1645.5 MHz priority is given to maritime mobile distress, urgency and safety communications (GMDSS) ; Res.222 applies.
1 660-1 660.5 MHz MOBILE-SATELLITE (Earth-to-space) 5.351A	**1 660-1 660.5 MHz** MOBILE-SATELLITE (Earth-to-space) 5.351A	GMDSS Maritime satellite (1 525 – 1 544 MHz)	Paired with 1 626.5 – 1 660.5 MHz The band 1610-1645.5 MHz and 1646.5-1660.5 MHz are identified

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ITU Region 1 allocations and footnotes	South African allocations and footnotes	Typical Applications	Notes and Comments
		Mobile satellite (1544 – 1545 MHz) Aeronautical Mobile satellite (1545 – 1555 MHz) Land Mobile satellite (1555 – 1559 MHz)	for satellite component of IMT; Res.225 applies.
RADIO ASTRONOMY 5.149 5.341 5.351 5.354 5.362A 5.376A	RADIO ASTRONOMY 5.149 5.341 5.351 5.354 5.376A	Radio Astronomy (Observation of OH radical and molecules)	See Section 5 for coordination with radio astronomy
1 660.5-1 668 MHz RADIO ASTRONOMY SPACE RESEARCH (passive) Fixed Mobile except aeronautical mobile 5.149 5.341 5.379 5.379A	**1 660.5-1 668 MHz** RADIO ASTRONOMY SPACE RESEARCH (passive) Fixed Mobile except aeronautical mobile 5.149 5.341 5.379A	Radio Astronomy (Observation of OH radical and molecules) Fixed Applications	See Section 5 for coordination with radio astronomy
1 668-1 668.4 MHz MOBILE-SATELLITE (Earth-to-space) 5.351A 5.379B 5.379C RADIO ASTRONOMY SPACE RESEARCH (passive) Fixed Mobile except aeronautical mobile	**1 668-1 668.4 MHz** MOBILE-SATELLITE (Earth-to-space) 5.351A 5.379B 5.379C RADIO ASTRONOMY SPACE RESEARCH (passive) Fixed Mobile except aeronautical mobile	IMT satellite component (1 668 – 1 675 MHz) Radio Astronomy (Observation of OH radical and molecules)	The band 1668-1675 MHz is identified for satellite component of IMT; Res.225 applies. See Section 5 for coordination with radio astronomy

ITU Region 1 allocations and footnotes	South African allocations and footnotes	Typical Applications	Notes and Comments
5.149 5.341 5.379 5.379A	5.149 5.341 5.379A		
1 668.4-1 670 MHz METEOROLOGICAL AIDS FIXED MOBILE except aeronautical mobile MOBILE-SATELLITE (Earth-to-space) 5.351A 5.379B 5.379C RADIO ASTRONOMY 5.149 5.341 5.379D 5.379E	**1 668.4-1 670 MHz** METEOROLOGICAL AIDS FIXED MOBILE except aeronautical mobile MOBILE-SATELLITE (Earth-to-space) 5.351A 5.379B 5.379C RADIO ASTRONOMY 5.149 5.341 5.379D 5.379E	Radiosonde (1 668 – 1 700 MHz) IMT satellite component (1 668 – 1 675 MHz) Radio Astronomy (Observation of OH radical and molecules)	The band 1668-1675 MHz is identified for satellite component of IMT; Res.225 applies. See Section 5 for coordination with radio astronomy Final Frequency Migration Plan 2019 (GG No.42337 Notice 36 of 2019)
1 670-1 675 MHz METEOROLOGICAL AIDS FIXED METEOROLOGICAL-SATELLITE (space-to-Earth) MOBILE MOBILE-SATELLITE (Earth-to-space) 5.351A 5.379B 5.341 5.379D 5.379E 5.380A	**1 670-1 675 MHz** METEOROLOGICAL AIDS FIXED METEOROLOGICAL-SATELLITE (space-to-Earth) MOBILE MOBILE-SATELLITE (Earth-to-space) 5.351A 5.379B 5.341 5.379D 5.379E 5.380A	Radiosonde (1 668 – 1 700 MHz) IMT satellite component (1 668 – 1 675 MHz)	Final Frequency Migration Plan 2019 (GG No.42337 Notice 36 of 2019) The band 1668-1675 MHz is identified for satellite component of IMT; Res.225 applies.
1 675-1 690 MHz	**1 675-1 690 MHz**		

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ITU Region 1 allocations and footnotes	South African allocations and footnotes	Typical Applications	Notes and Comments
METEOROLOGICAL AIDS FIXED METEOROLOGICAL-SATELLITE (space-to-Earth) MOBILE except aeronautical mobile 5.341	METEOROLOGICAL AIDS FIXED METEOROLOGICAL-SATELLITE (space-to-Earth) MOBILE except aeronautical mobile 5.341	Radiosonde (1 668 – 1 700 MHz) Fixed Applications	
1 690-1 700 MHz METEOROLOGICAL AIDS METEOROLOGICAL-SATELLITE (space-to-Earth) Fixed Mobile except aeronautical mobile 5.289 5.341 5.382	**1 690-1 700 MHz** METEOROLOGICAL AIDS METEOROLOGICAL-SATELLITE (space-to-Earth) Fixed Mobile except aeronautical mobile Earth exploration-satellite (space-to-Earth) 5.289 5.341	Radiosonde (1 668 – 1 700 MHz)	Channels 1695.6938 MHz; 1695.7250 MHz; 1695.7562 MHz; 1695.7874 MHz; 1691 MHz and 1694.5 MHz
1 700-1 710 MHz FIXED METEOROLOGICAL-SATELLITE (space-to-Earth) MOBILE except aeronautical mobile	**1 700-1 710 MHz** FIXED METEOROLOGICAL-SATELLITE (space-to-Earth) MOBILE except aeronautical mobile	Fixed links (single frequency)	

ITU Region 1 allocations and footnotes	South African allocations and footnotes	Typical Applications	Notes and Comments
5.289 5.341	Earth exploration-satellite (space-to-Earth) 5.289 5.341		

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1 710-1 930 MHz FIXED MOBILE 5.384A 5.388A ~~5.388B~~ 5.149 5.341 5.385 5.386 5.387 5.388	**1 710-1 930 MHz** FIXED MOBILE 5.384A 5.388A NF9 Radio astronomy 5.149 5.341 5.385 5.388	FWA (1880 – 1900 MHz) FWA TDD (1900 – 1920 MHz) Fixed Broadband data applications (1 785 – 1 805 MHz) IMT1800 MTX (1710 – 1785 MHz) DECT Cordless telephones (1880 – 1900 MHz) IMT1900 TDD (1900 – 1920 MHz) IMT2100 MTX (1920 – 1980 MHz) IMT 1800 BTX (1 805-1 880 MHz) IMT (terrestrial) Radio astronomy (1718.8-1722.2 MHz) Radio astronomy (OH radical and molecules)	Paired with IMT 1800 BTX (1805 – 1880 MHz) IMT TDD applications Paired withIMT2100 BTX 2110 – 2170 MHz See NF8 for IMT frequency band – terrestrial (International Mobile Telecommunications (IMT)) Radio Frequency Spectrum Regulations as amended (Annex B) (GG. No. 38641, 30 March 2015). RFSAP's to be developed to address compatibility between TDD IMT in the band 1900-1920 MHz with FDD IMT systems deployed in the IMT2100 b See Section 5 for coordination with radio astronomy

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ITU Region 1 allocations and footnotes	South African allocations and footnotes	Typical Applications	Notes and Comments
1 930-1 970 MHz FIXED MOBILE 5.388A ~~5.388B~~ 5.388	**1 930-1 970 MHz** FIXED MOBILE 5.388A NF9 5.388	IMT2100 MTX (1920 – 1980 MHz)	Paired with BTX(2110 – 2170 MHz) [FIXED (HAPS) (base stations for IMT)] Resolution 221 (Rev. WRC-07) (International Mobile Telecommunications (IMT))
1 970-1 980 MHz FIXED MOBILE 5.388A ~~5.388B~~ 5.388	**1 970-1 980 MHz** FIXED MOBILE 5.388A NF9 5.388 5.388B	IMT2100 MTX (1920 – 1980 MHz)	Paired with BTX(2110 – 2170 MHz) [FIXED (HAPS) (base stations for IMT)] Resolution 221 (Rev. WRC-07) (International Mobile Telecommunications (IMT))
1 980-2 010 MHz FIXED MOBILE MOBILE-SATELLITE (Earth-to-space) 5.351A 5.388 5.389A 5.389B 5.389F	**1 980-2 010 MHz** FIXED MOBILE MOBILE-SATELLITE (Earth-to-space) 5.351A 5.388 5.389A NF13	Fixed links (1980 – 2010 MHz) CGC/ATC fixed systems (1980 – 2010 MHz) IMT (satellite) (1980-2010 MHz)	Paired with 2170 – 2200 MHz (International Mobile Telecommunications (IMT)) The development of satellites for IMT services to be monitored. Final Frequency Migration Plan 2019 (GG No.42337 Notice 36 of 2019)

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ITU Region 1 allocations and footnotes	South African allocations and footnotes	Typical Applications	Notes and Comments
2 010-2 025 MHz FIXED MOBILE 5.388A ~~5.388B~~ 5.388	**2 010-2 025 MHz** FIXED MOBILE 5.388A NF9 5.388	IMT (2010 – 2025 MHz)	[FIXED (HAPS) (base stations for IMT)] IMT TDD applications Recommendation ITU-R M.1036 Resolution 221 (Rev. WRC-07) (International Mobile Telecommunications (IMT))
2 025-2 110 MHz SPACE OPERATION (Earth-to-space) (space-to-space) EARTH EXPLORATION-SATELLITE (Earth-to-space) (space-to-space) FIXED MOBILE 5.391 SPACE RESEARCH (Earth-to-space) (space-to-space) 5.392	**2 025-2 110 MHz** SPACE OPERATION (Earth-to-space) (space-to-space) EARTH EXPLORATION-SATELLITE (Earth-to-space) (space-to-space) FIXED NF14 MOBILE 5.391 SPACE RESEARCH (Earth-to-space) (space-to-space) 5.392	Earth exploration satellite applications Fixed Links (2025 – 2110 MHz)	Final Frequency Migration Plan 2019 (GG No.42337 Notice 36 of 2019) Paired with 2200 – 2285 MHz RFSAP GG 42230 Notice 75 of 2019.
2 110-2 120 MHz FIXED	**2 110-2 120 MHz** FIXED		FIXED (HAPS) (base stations for IMT)]

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ITU Region 1 allocations and footnotes	South African allocations and footnotes	Typical Applications	Notes and Comments
MOBILE 5.388A ~~5.388B~~ SPACE RESEARCH (deep space) (Earth-to-space) 5.388	MOBILE 5.388A NF9 SPACE RESEARCH (deep space) (Earth-to-space) 5.388 ~~5.388B~~	IMT2100 BTX (2110 – 2170 MHz)	Paired with MTX(1920 – 1980 MHz) Recommendation ITU-R M.1036 [Resolution 221 (Rev. WRC-07) (International Mobile Telecommunications (IMT))
2 120-2 160 MHz FIXED MOBILE 5.388A ~~5.388B~~ 5.388	**2 120-2 160 MHz** FIXED MOBILE 5.388A NF9 5.388 ~~5.388B~~	IMT-2100 BTX (2110 – 2170 MHz)	[FIXED (HAPS) (base stations for IMT)] Paired with MTX(1920 – 1980 MHz) Recommendation ITU-R M.1036 Resolution 221 (Rev. WRC-07) (International Mobile Telecommunications (IMT))
2 160-2 170 MHz FIXED MOBILE 5.388A ~~5.388B~~ 5.388	**2 160-2 170 MHz** FIXED MOBILE 5.388A NF9 5.388 ~~5.388B~~	IMT2100 BTX (2110 – 2170 MHz)	[FIXED (HAPS) (base stations for IMT)] Paired with MTX(1920 – 1980 MHz) Recommendation ITU-R M.1036 Resolution 221 (Rev. WRC-07) (International Mobile Telecommunications (IMT))

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ITU Region 1 allocations and footnotes	South African allocations and footnotes	Typical Applications	Notes and Comments
2 170-2 200 MHz FIXED MOBILE MOBILE-SATELLITE (space-to-Earth) 5.351A 5.388 5.389A 5.389F	**2 170-2 200 MHz** FIXED MOBILE MOBILE-SATELLITE (space-to-Earth) 5.351A 5.388 5.389A 5.389F NF13	 Fixed Links (2170 – 2200 MHz) CGC/ATC fixed systems (1980 – 2010 MHz) IMT (satellite) (2170-2200 MHz)	 Final Frequency Migration Plan 2019 (GG No.42337 Notice 36 of 2019) Paired with 1980 – 2010 MHz IMT (satellite)
2 200-2 290 MHz SPACE OPERATION (space-to-Earth) (space-to-space) EARTH EXPLORATION-SATELLITE (space-to-Earth) (space-to-space) FIXED MOBILE 5.391 SPACE RESEARCH (space-to-Earth) (space-to-space) 5.392	**2 200-2 290 MHz** SPACE OPERATION (space-to-Earth) (space-to-space) EARTH EXPLORATION-SATELLITE (space-to-Earth) (space-to-space) FIXED NF14 MOBILE 5.391 SPACE RESEARCH (space-to-Earth) (space-to-space) 5.392	 TT&C received from space Earth exploration satellite applications Fixed Links (2200 – 2285 MHz) BFWA (2 285-2 300 MHz)	 Final Frequency Migration Plan 2019 (GG No.42337 Notice 36 of 2019) Paired with 2025 – 2110 Radio Frequency Spectrum Assignment Plan GG 42230 Notice 75 of 2019.
2 290-2 300 MHz FIXED MOBILE except aeronautical mobile	**2 290-2 300 MHz** FIXED MOBILE except aeronautical mobile	 Fixed Links, BFWA (2 285-2 300 MHz)	 Radio Frequency Spectrum Assignment Plan GG 41512 Notice 145 of 2018

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ITU Region 1 allocations and footnotes	South African allocations and footnotes	Typical Applications	Notes and Comments
SPACE RESEARCH (deep space) (space-to-Earth)	SPACE RESEARCH (deep space) (space-to-Earth)	(Coordination is expected prior to the implementation of these services)	
2 300-2 450 MHz FIXED MOBILE 5.384A Amateur Radiolocation 5.150 5.282 5.395	**2 300-2 450 MHz** FIXED MOBILE 5.384A NF9 Amateur Radiolocation Amateur-satellite 5.150 5.282 5.395	 IMT2300 TDD (2300 – 2400 MHz) WLAN, FDDA and model ctrl. (2400 – 2483.5 MHz) Non-Specific SRDs and low power video surveillance (2400 – 2483.5 MHz) RFID (2 400 – 2 483.5 MHz) ISM applications (2400 – 2483.5 MHz) Amateur-satellite (2400 – 2450 MHz)	 International Mobile Telecommunication Roadmap (GG No.42829 Notice 600 of 2019) as amended. Common international SRD band; see ITU-R Rec. SM.1896 latest version (above 2400 MHz) Radio Frequency Spectrum Assignment Plan (GG N. 38640) as amended 30 March 2015. Radio Frequency Spectrum Regulations as amended (Annex B) (GG. No. 38641, 30 March 2015). Recommendation ITU-R M.1036 (International Mobile Telecommunications (IMT)) Radio Frequency Spectrum Assignment Plan to be amended to incorporate capabilities and requirements for IMT2020. Final Frequency Migration Plan 2019 (GG No.42337 Notice 36 of 2019)

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ITU Region 1 allocations and footnotes	South African allocations and footnotes	Typical Applications	Notes and Comments
2 450-2 483.5 MHz FIXED MOBILE Radiolocation 5.150	**2 450-2 483.5 MHz** FIXED MOBILE Radiolocation 5.150	 WLAN, FDDA and model ctrl. (2400 – 2483.5 MHz) RFID (2400 – 2483.5 MHz) Non-Specific SRDs and low power video surveillance (2400 – 2483.5 MHz) ISM applications (2400 – 2483.5 MHz)	 Radio Frequency Spectrum Regulations as amended (Annex B) (GG. No. 38641, 30 March 2015). Common international SRD band; see ITU-R Rec. SM.1896 latest version
2 483.5-2 500 MHz FIXED MOBILE MOBILE-SATELLITE (space-to-Earth) 5.351A RADIODETERMINATION-SATELLITE (space-to-Earth) 5.398 Radiolocation 5.398A	**2 483.5-2 500 MHz** FIXED MOBILE MOBILE-SATELLITE (space-to-Earth) 5.351A RADIODETERMINATION-SATELLITE (space-to-Earth) 5.398 Radiolocation	 Fixed links PTP/PTMP(2400-2500 MHz Aeronautical Mobile Video surveillance MSS (2483.5 – 2500 MHz) The band 2 400-2 500 MHz is designated for ISM applications (5.150). SRD's	 FS paired with 2300-2400 MHz Unmanned aerial vehicles only Some systems are paired with 1610 – 1626.5 MHz The band 2483.5-2500 MHz is identified for satellite component of IMT; Res.225 applies. Common international SRD band; see ITU-R Rec. SM.1896 latest version

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ITU Region 1 allocations and footnotes	South African allocations and footnotes	Typical Applications	Notes and Comments
5.150 5.368 5.372A 5.399 5.401 5.402	5.150 5.368 5.372A 5.399 5.401 5.402		
2 500-2 520 MHz FIXED 5.410 MOBILE except aeronautical mobile 5.384A 5.409A 5.412	**2 500-2 520 MHz** MOBILE except aeronautical mobile 5.384A 5.409A NF9	IMT2600 MTX (2500 – 2570 MHz)	Paired with 2620 – 2690 MHz International Mobile Telecommunication Roadmap (GG No.42829 Notice 600 of 2019). Radio Frequency Spectrum Assignment Plan on 22 May 2020 (Government Gazette 43341, Notice 285 of 2020). Radio Frequency Spectrum Assignment Plan GG 43341 Notice 285 of 2020 Recommendation ITU-R M.1036 (International Mobile Telecommunications (IMT)) Radio Frequency Spectrum Assignment Plan to be amended to incorporate capabilities and requirements for IMT2020.
2 520-2 655 MHz FIXED 5.410 MOBILE except aeronautical mobile 5.384A 5.409A	**2 520-2 655 MHz** MOBILE except aeronautical mobile 5.384A NF9 5.409A	IMT2600 MTX (2500 – 2570 MHz) IMT2600 TDD (2570 – 2620 MHz)	Paired with BTX (2620 – 2690 MHz) Paired with 2500 – 2570 MHz

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ITU Region 1 allocations and footnotes	South African allocations and footnotes	Typical Applications	Notes and Comments
BROADCASTING-SATELLITE 5.413 5.416 5.339 5.412 5.418B 5.418C	Earth exploration-satellite (passive) Space research (passive) 5.339 5.418B 5.418C	IMT2600 BTX (2620 – 2690 MHz) IMT (2500-2690 MHz) Earth exploration-satellite (passive)(2 640-2 655 MHz) Space research (passive) (2 640-2 655 MHz)	International Mobile Telecommunication Roadmap (GG No.42829 Notice 600 of 2019). Radio Frequency Spectrum Assignment Plan on 22 May 2020 (Government Gazette 43341, Notice 285 of 2020). Recommendation ITU-R M.1036 The band 2 500-2 690 MHz is also used for BFWA in some SADC countries. Radio Frequency Spectrum Assignment Plan GG 43341 Notice 285 of 202 (International Mobile Telecommunications (IMT)) Radio Frequency Spectrum Assignment Plan to be amended to incorporate capabilities and requirements for IMT2020.
2 655-2 670 MHz FIXED 5.410 MOBILE except aeronautical mobile 5.384A 5.409A BROADCASTING-SATELLITE 5.208B 5.413 5.416 Earth exploration-satellite (passive)	**2 655-2 670 MHz** MOBILE except aeronautical mobile 5.384A NF9 5.409A Earth exploration-satellite (passive)	IMT2600 BTX (2620 – 2690 MHz); IMT2600 MTX (2500-2570 MHz)	Paired with MTX (2500 – 2570 MHz)

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ITU Region 1 allocations and footnotes	South African allocations and footnotes	Typical Applications	Notes and Comments
Radio astronomy Space research (passive) 5.149 5.412	Radio astronomy Space research (passive) 5.149	Radio Astronomy (Continuum measurement and galactic studies)	Radio Astronomy (2655 – 2690 MHz). See section 5 for coordination with radio astronomy International Mobile Telecommunication Roadmap (GG No.42829 Notice 600 of 2019). Radio Frequency Spectrum Assignment Plan on 22 May 2020 (Government Gazette 43341, Notice 285 of 2020).. Recommendation ITU-R M.1036 Radio Frequency Spectrum Assignment Plan GG 43341 Notice 285 of 2020 (International Mobile Telecommunications (IMT))
2 670-2 690 MHz FIXED 5.410 MOBILE except aeronautical mobile 5.384A 5.409A Earth exploration-satellite (passive) Radio astronomy Space research (passive)	**2 670-2 690 MHz** MOBILE except aeronautical mobile 5.384A 5.409A Earth exploration-satellite (passive) Radio astronomy Space research (passive)	IMT2600 BTX (2620 – 2690 MHz) IMT2600 MTX (2500-2570 MHz) Radio Astronomy (Continuum measurement and galactic studies)	Paired with 2500 – 2570 MHz International Mobile See section 5 for coordination with radio astronomy Telecommunication Roadmap (GG No.42829 Notice 600 of 2019).

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ITU Region 1 allocations and footnotes	South African allocations and footnotes	Typical Applications	Notes and Comments
5.149 5.412	5.149		Radio Frequency Spectrum Assignment Plan on 22 May 2020 (Government Gazette 43341, Notice 285 of 2020). Recommendation ITU-R M.1036 (International Mobile Telecommunications (IMT)) Radio Frequency Spectrum Assignment Plan to be amended to incorporate capabilities and requirements for IMT2020.
2 690-2 700 MHz EARTH EXPLORATION-SATELLITE (passive) RADIO ASTRONOMY SPACE RESEARCH (passive) 5.340 5.422	**2 690-2 700 MHz** EARTH EXPLORATION-SATELLITE (passive) RADIO ASTRONOMY SPACE RESEARCH (passive) 5.340	Passive sensing Radio Astronomy (Continuum measurement and galactic studies)	
2 700-2 900 MHz AERONAUTICAL RADIONAVIGATION 5.337	**2 700-2 900 MHz** AERONAUTICAL RADIONAVIGATION 5.337 METEOROLOGICAL AIDS	Aeronautical radionavigation radars : • Primary surveillance radar • Meteorological radar Government Services	

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ITU Region 1 allocations and footnotes	South African allocations and footnotes	Typical Applications	Notes and Comments
Radiolocation 5.423 5.424	Radiolocation 5.423	Ground-based radars and associated airborne transponders	
2 900-3 100 MHz RADIOLOCATION 5.424A RADIONAVIGATION 5.426 5.425 5.427	**2 900-3 100 MHz** RADIOLOCATION 5.424A AERONAUTICAL RADIONAVIGATION 5.337 5.425 5.427	Aeronautical radionavigation radars : • Primary surveillance radar • Meteorological radar	
3 100-3 300 MHz RADIOLOCATION Earth exploration-satellite (active) Space research (active) 5.149 5.428	**3 100-3 300 MHz** RADIOLOCATION Earth exploration-satellite (active) Space research (active) 5.149		
3 300-3 400 MHz RADIOLOCATION	**3 300-3 400 MHz** RADIOLOCATION MOBILE except aeronautical mobile	Radio astronomy (CH Molecules) IMT Res. 223 (Rev.WRC-15)	See section 5 for coordination with radio astronomy Recommendation ITU-R M.1036-6 (International Mobile Telecommunications (IMT)) Develop a RFSAP for the band

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ITU Region 1 allocations and footnotes	South African allocations and footnotes	Typical Applications	Notes and Comments
5.149 5.429 5.429A 5.429B 5.430	5.149 5.429A 5.429B		
3 400-3 600 MHz FIXED FIXED-SATELLITE (space-to-Earth) MOBILE except aeronautical mobile 5.430A Radiolocation 5.431	**3 400-3 600 MHz** FIXED MOBILE except aeronautical mobile 5.430A NF9 Radiolocation	BFWA IMT3500 TDD (3400 – 3600 MHz)	The band 3400 -3600 MHz is also used for BFWA in some SADC countries International Mobile Telecommunication (GG No.42829 Notice 600 of 2019). Radio Frequency Spectrum Assignment Plan (GG N. 38640) as amended 30 March 2015. Recommendation ITU-R M.1036-6 (International Mobile Telecommunications (IMT))
3 600-~~4 200~~3 800 MHz FIXED FIXED-SATELLITE (space-to-Earth) ~~Mobile~~MOBILE except aeronautical mobile 5.433B 5.434A 5.434B 5.435A	**3 600-3 800~~4 200~~ MHz** FIXED FIXED-SATELLITE (space-to-Earth) NF~~1~~409 MOBILE except aeronautical mobile 5.434A 5.434B	Fixed links (4 GHz) (3600 – 4200 MHz) C-band downlink (VSAT/SNG/PTP links)(3600 – 4200 MHz) BFWA (3600 – 3800 MHz) IMT (3600 – 3800 MHz)	~~The sub-band 3 600-3 800 MHz could be used for BFWA where frequency sharing with FS PTP and/or FSS is feasible.~~ The band 3 600-3 800 MHz shall be used for IMT noting ITU-R Recommendation 1036-8. The channelling arrangement for PTP links in this band is based on

ITU Region 1 allocations and footnotes	South African allocations and footnotes	Typical Applications	Notes and Comments
			ITU-R Recommendation F.635 latest versionAnnex 1. The sub-band 3 600-4 200 MHz is used for medium and high capacity PTP links and FSS. In the band 3 600-3 800 MHz, FS PTP and FSS applications will have to operate on coordinated basis. Operators are encouraged to apply for spectrum licenses including registering all C-Band Earth stations on the ICASA online database
3 800-4 200 MHz FIXED FIXED-SATELLITE (space-to-Earth) Mobile	**3 800-4 200 MHz** FIXED FIXED-SATELLITE (space-to-Earth) Mobile	Fixed links (4 GHz) (3600 – 4200 MHz) C-band downlink (VSAT/SNG/PTP links)(3600 – 4200 MHz) BFWA (3600 – 3800 MHz)	The channelling arrangement for PTP links in this band is based on ITU-R Recommendation F.635 latest versionAnnex 1. The sub-band 3 600-4 200 MHz is used for medium and high capacity PTP links and FSS. In the band 3 600-3 800 MHz, FS PTP and FSS applications will have to operate on coordinated basis. Operators are encouraged to apply for spectrum licenses including registering all C-Band Earth stations on the ICASA online database

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ITU Region 1 allocations and footnotes	South African allocations and footnotes	Typical Applications	Notes and Comments
4 200-4 400 MHz AERONAUTICAL MOBILE (R) 5.436 AERONAUTICAL RADIONAVIGATION 5.438 5.437 5.439 5.440	**4 200-4 204 MHz** AERONAUTICAL MOBILE (R) 5.436 AERONAUTICAL RADIONAVIGATION 5.438 STANDARD FREQUENCY AND TIME SIGNAL-SATELLITE (4 202 MHz) (space-to-Earth) Earth exploration-satellite (passive) Space research (passive) 5.437 5.440	Wireless avionics intra-communication systems Radio altimeters on board aircraft and associated ground transponders) Radars	
	4 204-4 400 MHz AERONAUTICAL MOBILE (R) 5.436 AERONAUTICAL RADIONAVIGATION 5.438 Earth exploration-satellite (passive) Space research (passive) 5.437 5.440	Wireless avionics intra-communication systems Radio altimeters on board aircraft and associated ground transponders)	
4 400-4 500 MHz FIXED MOBILE 5.440A	**4 400-4 500 MHz** FIXED NF14 NF15 MOBILE	Fixed links (4.8 GHz) (4400 – 5000 MHz) Government services Outside Broadcast links Electronic News Gathering	

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ITU Region 1 allocations and footnotes	South African allocations and footnotes	Typical Applications	Notes and Comments
4 500-4 800 MHz FIXED FIXED-SATELLITE (space-to-Earth) 5.441 MOBILE 5.440A	**4 500-4 800 MHz** FIXED NF14 FIXED-SATELLITE (space-to-Earth) 5.441 MOBILE NF15	Fixed links (4.8 GHz) (4400 – 5000 MHz) Government services Outside Broadcast links Electronic News Gathering SRD(reservoir level probing radar)	The band 4 500-4 800 MHz is part of the APP30B Plan (FSS space-to-Earth). Refer to Annex B.Ultra wideband applications (UWB) see ITU-R Recommendation SN.1896-1. Rec SM.1755 and Rep SM.2153-7 (latest versions)
4 800-4 990 MHz FIXED MOBILE 5.440A 5.441A 5.441B 5.442 Radio astronomy	**4 800-4 825 MHz** FIXED NF14 MOBILE 5.441B Radio astronomy NF15	Fixed links (4.8 GHz) (4400 – 5000 MHz) Government services Outside Broadcast Links Electronic News Gathering Radio astronomy (Observations of formaldehyde (H2CO) interstellar clouds)	Recommendation ITU-R M.1036-6 (International Mobile Telecommunications (IMT)) RFSAP to be developed See section 5 for coordination with radio astronomy
	4 825-4 835 MHz FIXED NF14 NF15 MOBILE except aeronautical mobile 5.441B	Outside Broadcast Links Electronic News Gathering Government services	Recommendation ITU-R M.1036-6 (International Mobile Telecommunications (IMT)) RFSAP to be developed

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ITU Region 1 allocations and footnotes	South African allocations and footnotes	Typical Applications	Notes and Comments
	Radio astronomy 5.149	Radio astronomy (Observations of formaldehyde (H2CO) interstellar clouds)	See section 5 for coordination with radio astronomy
	4 835-4 950 MHz FIXED NF14 NF15 MOBILE 5.441B Radio astronomy	Fixed links (4.8 GHz) (4400 – 5000 MHz) Government services Outside Broadcast Links Electronic News Gathering Radio astronomy (Observations of formaldehyde (H2CO) interstellar clouds)	Recommendation ITU-R M.1036-6 (International Mobile Telecommunications (IMT)) RFSAP to be developed See section 5 for coordination with radio astronomy
5.149 5.339 5.443	**4 950-4 990 MHz** FIXED NF14 NF15 MOBILE except aeronautical mobile5.441B Earth exploration-satellite (passive) Radio astronomy Space research (passive) 5.149 5.339	Fixed links (4.8 GHz) (4400 – 5000 MHz) Government services Outside Broadcast Links Electronic News Gathering Radio astronomy (Observations of formaldehyde (H2CO) interstellar clouds)	Recommendation ITU-R M.1036-6 (International Mobile Telecommunications (IMT)) RFSAP to be developed See section 5 for coordination with radio astronomy
4 990-5 000 MHz	**4 990-5 000 MHz**		

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ITU Region 1 allocations and footnotes	South African allocations and footnotes	Typical Applications	Notes and Comments
FIXED MOBILE except aeronautical mobile RADIO ASTRONOMY Space research (passive) 5.149	FIXED NF14 MOBILE except aeronautical mobile RADIO ASTRONOMY Space research (passive) 5.149 NF15	Fixed links (4.8 GHz) (4400 – 5000 MHz) Outside Broadcast links Electronic News Gathering Government services Radio astronomy (Observations of formaldehyde (H2CO) interstellar clouds)	 See section 5 for coordination with radio astronomy
5 000-5 010 MHz AERONAUTICAL MOBILE-SATELLITE (R) 5.443AA AERONAUTICAL RADIONAVIGATION RADIONAVIGATION-SATELLITE (Earth-to-space)	**5 000-5 010 MHz** AERONAUTICAL MOBILE-SATELLITE (R) 5.443AA AERONAUTICAL RADIONAVIGATION RADIONAVIGATION-SATELLITE (Earth-to-space)		
5 010-5 030 MHz AERONAUTICAL MOBILE-SATELLITE (R) 5.443AA AERONAUTICAL RADIONAVIGATION RADIONAVIGATION-SATELLITE (space-to-Earth) (space-to-space)	**5 010-5 030 MHz** AERONAUTICAL MOBILE-SATELLITE (R) 5.443AA AERONAUTICAL RADIONAVIGATION RADIONAVIGATION-SATELLITE (space-to-Earth) (space-to-space) 5.443B		

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ITU Region 1 allocations and footnotes	South African allocations and footnotes	Typical Applications	Notes and Comments
5.328B 5.443B	5.328B		
5 030-5 091 MHz AERONAUTICAL MOBILE (R) 5.443C AERONAUTICAL MOBILE-SATELLITE (R) 5.443D AERONAUTICAL RADIONAVIGATION 5.444	**5 030-5 091 MHz** AERONAUTICAL MOBILE (R) 5.443C AERONAUTICAL MOBILE-SATELLITE (R) 5.443D AERONAUTICAL RADIONAVIGATION 5.444	Microwave Landing System AERONAUTICAL RADIONAVIGATION (MLS) (precision approach and landing)]	
5 091-5 150 MHz FIXED-SATELLITE (Earth-to-space) 5.444A AERONAUTICAL MOBILE 5.444B AERONAUTICAL MOBILE-SATELLITE (R) 5.443AA AERONAUTICAL RADIONAVIGATION 5.444	**5 091-5 150 MHz** FIXED-SATELLITE (Earth-to-space) 5.444A AERONAUTICAL MOBILE 5.444B AERONAUTICAL MOBILE (telemetry) AERONAUTICAL MOBILE-SATELLITE (R) 5.443AA AERONAUTICAL RADIONAVIGATION	Feeder links of non-GSO-satellite systems in the MSS NGSO MSS feeder links (5091 – 5150 MHz) Surface applications at airports Air to ground AERONAUTICAL RADIONAVIGATION (MLS) (precision approach and landing)	Resolution 114 (Rev.WRC-15)

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ITU Region 1 allocations and footnotes	South African allocations and footnotes	Typical Applications	Notes and Comments
5 150-5 250 MHz AERONAUTICAL RADIONAVIGATION FIXED-SATELLITE (Earth-to-space) 5.447A MOBILE except aeronautical mobile 5.446A 5.446B	**5 150-5 216 MHz** AERONAUTICAL RADIONAVIGATION FIXED-SATELLITE (Earth-to-space) 5.447A FIXED-SATELLITE (space-to-Earth) MOBILE except aeronautical mobile 5.446A 5.446B AERONAUTICAL MOBILE (telemetry) Radiodetermination-satellite (space-to-Earth) 5.446 5.446C 5.447B 5.447C	Feeder links of non-GSO-satellite systems in the MSS NGSO MSS feeder links (5091 – 5150 MHz) WAS / RLAN (5150 – 5350 MHz) Air-to-ground	Radio Frequency Spectrum Regulations as amended (Annex B) (GG. No. 38641, 30 March 2015). ITU Resolution 229 revised WRC-19
	5 216-5 250 MHz AERONAUTICAL MOBILE (telemetry) (air to ground) AERONAUTICAL RADIONAVIGATION FIXED-SATELLITE (Earth-to-space) 5.447A MOBILE except aeronautical mobile 5.446A 5.446B 5.446 5.446C 5.447B 5.447C	WAS / RLAN (5150 – 5350 MHz) (indoor use only – ITU Res229 WRC-19) Air-to-ground Feeder links of non-GSO-satellite systems in the MSS	Radio Frequency Spectrum Regulations as amended (Annex B) (GG. No. 38641, 30 March 2015). ITU Resolution 229 revised WRC-19

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ITU Region 1 allocations and footnotes	South African allocations and footnotes	Typical Applications	Notes and Comments
5.446 5.446C 5.446D 5.447 5.447B 5.447C			
5 250-5 255 MHz EARTH EXPLORATION-SATELLITE (active) RADIOLOCATION SPACE RESEARCH 5.447D MOBILE except aeronautical mobile 5.446A 5.447F 5.447E 5.448 5.448A	**5 250-5 255 MHz** EARTH EXPLORATION-SATELLITE (active) RADIOLOCATION SPACE RESEARCH 5.447D MOBILE except aeronautical mobile 5.446A 5.447F Space research 5.448A	 WAS / RLAN (5150 – 5350 MHz) (indoor use only) Active spaceborne sensors Other than active spaceborne sensors	 Radio Frequency Spectrum Regulations as amended (Annex B) (GG. No. 38641, 30 March 2015). ITU Resolution 229 revised WRC-19
5 255-5 350 MHz EARTH EXPLORATION-SATELLITE (active) RADIOLOCATION SPACE RESEARCH (active) MOBILE except aeronautical mobile 5.446A 5.447F 5.447E 5.448 5.448A	**5 255-5 350 MHz** EARTH EXPLORATION-SATELLITE (active) RADIOLOCATION SPACE RESEARCH (active) MOBILE except aeronautical mobile 5.446A 5.447F 5.448A	 WAS / RLAN (5150 – 5350 MHz) (Power limitation ITU Resolution 229 WRC-19))	 Radio Frequency Spectrum Regulations as amended (Annex B) (GG. No. 38641, 30 March 2015). ITU Resolution 229 revised WRC-19
5 350-5 460 MHz EARTH EXPLORATION-SATELLITE (active) 5.448B	**5 350-5 460 MHz** EARTH EXPLORATION-SATELLITE (active) 5.448B		

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ITU Region 1 allocations and footnotes	South African allocations and footnotes	Typical Applications	Notes and Comments
SPACE RESEARCH (active) 5.448C AERONAUTICAL RADIONAVIGATION 5.449 RADIOLOCATION 5.448D	SPACE RESEARCH (active) 5.448C AERONAUTICAL RADIONAVIGATION 5.449 RADIOLOCATION 5.448D	Ground based airborne weather radars and associated airborne beacons	
5 460-5 470 MHz RADIONAVIGATION 5.449 EARTH EXPLORATION-SATELLITE (active) SPACE RESEARCH (active) RADIOLOCATION 5.448D 5.448B	**5 460-5 470 MHz** AERONAUTICAL RADIONAVIGATION 5.449 EARTH EXPLORATION-SATELLITE (active) SPACE RESEARCH (active) RADIOLOCATION 5.448D RADIONAVIGATION except aeronautical radionavigation 5.448B	Ground based airborne weather radars and associated airborne beacons	ITU Resolution 229 revised WRC-19
5 470-5 570 MHz MARITIME RADIONAVIGATION MOBILE except aeronautical mobile 5.446A 5.450A EARTH EXPLORATION-SATELLITE (active) SPACE RESEARCH (active) RADIOLOCATION 5.450B	**5 470-5 570 MHz** MARITIME RADIONAVIGATION MOBILE except aeronautical mobile 5.446A 5.450A EARTH EXPLORATION-SATELLITE (active) SPACE RESEARCH (active) RADIOLOCATION 5.450B	WAS / RLAN (5470 – 5725 MHz)	Radio Frequency Spectrum Regulations as amended (Annex B) (GG. No. 38641, 30 March 2015). ITU Resolution 229 revised WRC-19

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ITU Region 1 allocations and footnotes	South African allocations and footnotes	Typical Applications	Notes and Comments
5.448B 5.450 5.451	5.448B		
5 570-5 650 MHz MARITIME RADIONAVIGATION MOBILE except aeronautical mobile 5.446A 5.450A RADIOLOCATION 5.450B	**5 570-5 600MHz** MARITIME RADIONAVIGATION MOBILE except aeronautical mobile 5.446A 5.450A RADIOLOCATION 5.450B 5.452	Location Radar WAS / RLAN (5470 – 5725 MHz) Weather Radars (5600 – 5650 MHz)	ITU Resolution 229 revised WRC-19 Radio Frequency Spectrum Regulations as amended (Annex B) (GG. No. 38641, 30 March 2015).
5.450 5.451 5.452	**5 600-5 650MHz** MARITIME RADIONAVIGATION METEOROLOGICAL AIDS MOBILE except aeronautical mobile 5.446A 5.450A RADIOLOCATION 5.450B 5.452	Ground based meteorological radars (5600 – 5650 MHz) WAS / RLAN (5470 – 5725 MHz) Weather Radars (5600 – 5650 MHz)	Radio Frequency Spectrum Regulations as amended (Annex B) (GG. No. 38641, 30 March 2015). ITU Resolution 229 revised WRC-19
5 650-5 725 MHz RADIOLOCATION	**5 650-5 670 MHz** RADIOLOCATION		

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ITU Region 1 allocations and footnotes	South African allocations and footnotes	Typical Applications	Notes and Comments
MOBILE except aeronautical mobile 5.446A 5.450A Amateur Space research (deep space)	MOBILE except aeronautical mobile 5.446A 5.450A Amateur Amateur-satellite (Earth-to-space) Space research (deep space) 5.282 5.453	WAS / RLAN (5470 – 5725 MHz) (Power limitation ITU Resolution 229 WRC-19))	Radio Frequency Spectrum Regulations as amended (Annex B) (GG. No. 38641, 30 March 2015). ITU Resolution 229 revised WRC-19
5.282 5.451 5.453 5.454 5.455	**5 670-5 725 MHz** RADIOLOCATION MOBILE except aeronautical mobile 5.446A 5.450A Amateur Space research (deep space) 5.282 5.453	WAS / RLAN (5470 – 5725 MHz) (indoor use only)	Radio Frequency Spectrum Regulations as amended (Annex B) (GG. No. 38641, 30 March 2015).
5 725-5 830 MHz FIXED-SATELLITE (Earth-to-space) RADIOLOCATION Amateur	**5 725-5 830 MHz** FIXED-SATELLITE (Earth-to-space) RADIOLOCATION Amateur Fixed NF16	Fixed links (5725 – 5850 MHz) RTT data (5795 – 5815 MHz) ISM applications (5725 – 5875 MHz) BFWA (5725-5850 MHz) ISM (5725-5875 MHz) RTTT (Road Transport and Traffic Telematics) (5795-5815 MHz) SRD applications (5 725-5 875 MHz)	Radio Frequency Spectrum Regulations as amended (Annex B) (GG. No. 38641, 30 March 2015). . BFWA in some SADC countries is limited to below 5850 MHz in order to protect FSS in the band 5850-6425 MHz Common international SRD band; see ITU-R Rec. SM.1896 latest version

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ITU Region 1 allocations and footnotes	South African allocations and footnotes	Typical Applications	Notes and Comments
5.150 5.451 5.453 5.455	5.150 5.453	SRD - Transport and information control systems (5 805-5 815 MHz)	Transport information and control systems Recommendation ITU-R M.1453
5 830-5 850 MHz FIXED-SATELLITE (Earth-to-space) RADIOLOCATION Amateur Amateur-satellite (space-to-Earth) 5.150 5.451 5.453 5.455	**5 830-5 850 MHz** FIXED-SATELLITE (Earth-to-space) RADIOLOCATION Amateur Amateur-satellite (space-to-Earth) Fixed NF16 5.150 5.453	Fixed links BFWA (5725 – 5850 MHz) ISM applications (5725 – 5875 MHz) SRD's – Reservoir Level Probing Radars	BFWA in some SADC countries is limited to below 5850 MHz in order to protect FSS in the band 5850-6425 MHz Radio Frequency Spectrum Regulations as amended (Annex B) (GG. No. 3417238641, 3130 March 2015).
5 850-5 925 MHz FIXED FIXED-SATELLITE (Earth-to-space) MOBILE 5.150	**5 850-5 925 MHz** FIXED FIXED-SATELLITE (Earth-to-space) MOBILE 5.150	PTP C-band uplink (VSAT/SNG links) ISM applications (5725 – 5875 MHz) Fixed-satellite uplinks (PTP/VSAT/SNG) (5850-6425 MHz) FIXED links (5850-5925 MHz) ISM (5725-5875 MHz)	FS could be used for temporary OB links.
5 925-6 700 MHz	**5 925-6 425 MHz**		

ITU Region 1 allocations and footnotes	South African allocations and footnotes	Typical Applications	Notes and Comments
FIXED 5.457 FIXED-SATELLITE (Earth-to-space) 5.457A 5.457B MOBILE 5.457C 5.457D 5.457E 5.457F	FIXED 5.457 NF14 FIXED-SATELLITE (Earth-to-space) 5.457A 5.457B MOBILE 5.149 5.440 5.458	Fixed links - Lower 6 GHz (5925-6425 MHz) BFWA Fixed-satellite uplinks (PTP/VSAT/SNG) (5850-6425 MHz) ESVs (5925 – 6425 MHz) Radio astronomy (observation of Methanol)	Channelling plan for L6 GHz band in accordance with ITU-R Rec. F.383 latest version. Earth Station onboard vessels (ESV) also allowed under FSS. Resolution 902 (WRC-03) Consideration may be made for future License exempt provided it is feasible for the protection of incumbent service. Radio Frequency Spectrum Regulations, 2015 – Annexure B (as amended)
	6 425-6 429 MHz FIXED 5.457 NF14 FIXED-SATELLITE (Earth-to-space) MOBILE 5.457E STANDARD FREQUENCY AND TIME SIGNAL-SATELLITE (6 427 MHz) (space-to-Earth) 5.149 5.440 5.458	Upper 6 GHz (6425-7110 MHz), BFWA Fixed-satellite uplinks (PTP/VSAT/SNG) (5850-6425 MHz) Radio astronomy (observation of Methanol) IMT Identification (6425 -6429 MHz)	Channelling plan for U6 GHz band in accordance with ITU-R Rec. F.384 latest version. Resolution 150 (WRC-12) ITU-R Recommendation M1036.8
	6 429-6700 MHz		

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ITU Region 1 allocations and footnotes	South African allocations and footnotes	Typical Applications	Notes and Comments
5.149 5.440 5.458	FIXED 5.457 MOBILE 5.457E 5.458	Upper 6 GHz (6425-7110 MHz), BFWA Radio astronomy (observation of Methanol) IMT Identification (6429 -6700 MHz)	Channelling plan for U6 GHz band in accordance with ITU-R Rec. F.384 latest version. Resolution 150 (WRC-12) ITU-R Recommendation M1036.8
6 700-7 075 MHz FIXED FIXED-SATELLITE (Earth-to-space) (space-to-Earth) 5.441 MOBILE 5.457E 5.458 5.458A 5.458B	**6 700-7 075 MHz** FIXED NF14 FIXED-SATELLITE (Earth-to-space) (space-to-Earth) 5.441 MOBILE 5.457E 5.458 5.458A 5.458B	Fixed Links (U6) (6425 – 7110 MHz) IMT Identification (6700 -7125 MHz)	Channelling plan for U6 GHz band in accordance with ITU-R Rec. F.384 latest version. The band 6 725-7 025 MHz is part of the APP30B Plan (FSS Earth-to-space); refer to Annex B. ITU-R Recommendation M1036.8
7 075-7 145 MHz FIXED MOBILE 5.457E 5.458 5.459	**7 075-7 145 MHz** FIXED NF14 MOBILE 5.457E 5.458	Fixed Links (U6) (6425 – 7110 MHz) Fixed Links (L7) (7110 – 7425 MHz) IMT Identification (6700 -7125 MHz)	Channelling plan for U6 band in accordance with ITU-R Rec. F.384 latest version. Channelling plan for L7 band is in accordance with ITU-R Rec. F.385 latest version Annex 3. ITU-R Recommendation M1036.8
7 145-7 190 MHz	**7 145-7 190 MHz**		

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ITU Region 1 allocations and footnotes	South African allocations and footnotes	Typical Applications	Notes and Comments
FIXED MOBILE SPACE RESEARCH (deep space) (Earth-to-space) 5.458 5.459	FIXED MOBILE SPACE RESEARCH (deep space) (Earth-to-space) 5.458	Fixed links - Lower 7 GHz (7110-7425 MHz)	Channelling plan for L7 band in accordance with ITU-R Rec. F.385 latest version Annex 3.
7 190-7 235 MHz EARTH EXPLORATION-SATELLITE (Earth-to-space) 5.460A 5.460B FIXED MOBILE SPACE RESEARCH (Earth-to-space) 5.460 5.458 5.459	**7 190-7 235 MHz** EARTH EXPLORATION-SATELLITE (Earth-to-space) 5.460A 5.460B FIXED NF14 MOBILE SPACE RESEARCH (except deep space) (Earth-to-space) 5.460 5.458	Tracking, telemetry and command for spacecraft operation Fixed Links (L7) (7110 – 7425 MHz)	SANAS to erected a facility near Matjiesfontein
7 235-7 250 MHz EARTH EXPLORATION-SATELLITE (Earth-to-space) 5.460A FIXED MOBILE 5.458	**7 235-7 250 MHz** EARTH EXPLORATION-SATELLITE (Earth-to-space) 5.460A FIXED NF14 MOBILE 5.458	Tracking, telemetry and command for spacecraft operation Fixed links - Lower 7 GHz (7110-7425 MHz)	Channelling plan for L7 band in accordance with ITU-R Rec. F.385 latest version Annex 3.
7 250-7 300 MHz	**7 250-7 300 MHz**		

ITU Region 1 allocations and footnotes	South African allocations and footnotes	Typical Applications	Notes and Comments
FIXED FIXED-SATELLITE (space-to-Earth) MOBILE 5.461	FIXED NF14 FIXED-SATELLITE (space-to-Earth) MOBILE MOBILE-SATELLITE (space-to-Earth) 5.461	Fixed links - Lower 7 GHz (7110-7425 MHz)	Channelling plan for L7 band in accordance with ITU-R Rec. F.385 latest version Annex 3. RFSAP to be developed.
7 300-7 375 MHz FIXED FIXED-SATELLITE (space-to-Earth) MOBILE except aeronautical mobile 5.461	**7 300-7 375 MHz** FIXED FIXED-SATELLITE (space-to-Earth) MOBILE except aeronautical mobile MOBILE-SATELLITE (space-to-Earth) 5.461	Fixed links - Lower 7 GHz (7110-7425 MHz) and Upper 7 GHz (7425-7750 MHz)	Channelling plan for L7 band in accordance with ITU-R Rec. F.385 latest version Annex 3. Channelling plan for U7 band in accordance with ITU-R Rec. F.385 latest version Annex 3. RFSAP to be developed.
7 375-7 450 MHz FIXED FIXED-SATELLITE (space-to-Earth)	**7 375-7 450 MHz** FIXED NF14 FIXED-SATELLITE (space-to-Earth)	Fixed links - Lower 7 GHz (7110-7425 MHz) and Upper 7 GHz (7425-7750 MHz)	Channelling plan for L7 band in accordance with ITU-R Rec. F.385 Annex 3.

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ITU Region 1 allocations and footnotes	South African allocations and footnotes	Typical Applications	Notes and Comments
MOBILE except aeronautical mobile MARITIME MOBILE SATELLITE (space-to-Earth) 5.461AA 5.461AB 5.461AC	MOBILE except aeronautical mobile MARITIME MOBILE SATELLITE (space-to-Earth) ~~(GSO)~~ 5.461AA 5.461AB 5.461AC		Channelling plan for U7 band in accordance with ITU-R Rec. F.385 latest verssion Annex 3.
7 450-7 550 MHz FIXED FIXED-SATELLITE (space-to-Earth) METEOROLOGICAL-SATELLITE (space-to-Earth) MOBILE except aeronautical mobile MARITIME MOBILE-SATELLITE (space-to-Earth) 5.461AA 5.461AB 5.461A 5.461AC	**7 450-7 550 MHz** FIXED NF14 F IXED-SATELLITE (space-to-Earth) METEOROLOGICAL-SATELLITE (GSO) (space-to-Earth) MOBILE except aeronautical mobile MARITIME MOBILE-SATELLITE (space-to-Earth) (GSO) 5.461AA 5.461AB 5.461A 5.461AC	Fixed links - Upper 7 GHz (7425-7750 MHz)	Channelling plan for U7 band in accordance with ITU-R Rec. F.385 latest version Annex 3.
7 550-7 750 MHz FIXED FIXED-SATELLITE (space-to-Earth) MOBILE except aeronautical mobile	**7 550-7 750 MHz** FIXED NF14 FIXED-SATELLITE (space-to-Earth) MOBILE except aeronautical mobile	Fixed links - Upper 7 GHz (7425-7750 MHz)	Channelling plan for U7 band in accordance with ITU-R Rec. F.385 latest version Annex 3.

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ITU Region 1 allocations and footnotes	South African allocations and footnotes	Typical Applications	Notes and Comments
MARITIME MOBILE-SATELLITE (space-to-Earth) 5.461AA 5.461AB 5.461AC	MARITIME MOBILE-SATELLITE (space-to-Earth) 5.461AC		
7 750-7 900 MHz FIXED METEOROLOGICAL-SATELLITE (space-to-Earth) 5.461B MOBILE except aeronautical mobile	**7 750-7 900 MHz** FIXED NF14 METEOROLOGICAL-SATELLITE(non-GSO) (space-to-Earth) 5.461B MOBILE except aeronautical mobile	Fixed links - Lower 8 GHz (7725-8275 MHz)	Channelling plan for L8 band in accordance with ITU-R Rec. F.386 latest version Annex 1.
7 900-8 025 MHz FIXED FIXED-SATELLITE (Earth-to-space) MOBILE 5.461	**7 900-8 025 MHz** FIXED NF14 FIXED-SATELLITE (Earth-to-space) MOBILE MOBILE-SATELLITE (Earth-to-space) 5.461	Fixed links - Lower 8 GHz (7725-8275 MHz)	Channelling plan for L8 band in accordance with ITU-R Rec. F.386 latest version Annex 1.
8 025-8 175 MHz EARTH EXPLORATION-SATELLITE (space-to-Earth) FIXED	**8 025-8 175 MHz** EARTH EXPLORATION-SATELLITE (space-to-Earth) FIXED NF14	Earth exploration satellite systems Fixed links - Lower 8 GHz (7725-8275 MHz)	 Channelling plan for L8 band in accordance with ITU-R Rec. F.386 latest version Annex 1.

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ITU Region 1 allocations and footnotes	South African allocations and footnotes	Typical Applications	Notes and Comments
FIXED-SATELLITE (Earth-to-space) MOBILE 5.463 5.462A	FIXED-SATELLITE (Earth-to-space) MOBILE 5.463 5.462A 5.463		
8 175-8 215 MHz EARTH EXPLORATION-SATELLITE (space-to-Earth) FIXED FIXED-SATELLITE (Earth-to-space) METEOROLOGICAL-SATELLITE (Earth-to-space) MOBILE 5.463 5.462A	**8 175-8 215 MHz** EARTH EXPLORATION-SATELLITE (space-to-Earth) FIXED NF14 FIXED-SATELLITE (Earth-to-space) METEOROLOGICAL-SATELLITE (Earth-to-space) MOBILE 5.463 5.462A 5.463	Earth exploration satellite systems Fixed links - Lower 8 GHz (7725-8275 MHz) Ground to air	Channelling plan for L8 band in accordance with ITU-R Rec. F.386 latest version Annex 1.
8 215-8 400 MHz EARTH EXPLORATION-SATELLITE (space-to-Earth) FIXED FIXED-SATELLITE (Earth-to-space) MOBILE 5.463 5.462A	**8 215-8 400 MHz** EARTH EXPLORATION-SATELLITE (space-to-Earth) FIXED NF14 FIXED-SATELLITE (Earth-to-space) MOBILE 5.463 5.462A 5.463	Ground to air Fixed links - Lower 8 GHz (7725-8275 MHz) and Upper 8 GHz (8275-8500 MHz)	Channelling plan for L8 band in accordance with ITU-R Rec. F.386 Annex 1. Channelling plan for U8 band in accordance with ITU-R Rec. F.386 latesst version Annex 1.
8 400-8 500 MHz	**8 400-8 450 MHz**		

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ITU Region 1 allocations and footnotes	South African allocations and footnotes	Typical Applications	Notes and Comments
FIXED MOBILE except aeronautical mobile SPACE RESEARCH (space-to-Earth) 5.465 5.466	FIXED NF14 MOBILE except aeronautical mobile SPACE RESEARCH(deep space) (space-to-Earth) 5.465	Fixed links - Upper 8 GHz (8275-8500 MHz)	Channelling plan for U8 band in accordance with ITU-R Rec. F.386 latest version Annex 1.
	8 450-8 500 MHz FIXED NF14 MOBILE except aeronautical mobile SPACE RESEARCH (space-to-Earth)	Fixed links - Upper 8 GHz (8275-8500 MHz)	Channelling plan for U8 band in accordance with ITU-R Rec. F.386 latest version Annex 1.
8 500-8 550 MHz RADIOLOCATION 5.468 5.469	**8 500-8 550 MHz** RADIOLOCATION	RADARS. aeronautical radio navigation e.g. precision airfield approach radars.	
8 550-8 650 MHz EARTH EXPLORATION-SATELLITE (active) RADIOLOCATION SPACE RESEARCH (active) 5.468 5.469 5.469A	**8 550-8 650 MHz** EARTH EXPLORATION-SATELLITE (active) RADIOLOCATION SPACE RESEARCH (active) 5.469A	RADARS. aeronautical radionavigation e.g. precision airfield approach radars	
8 650-8 750 MHz	**8 650-8 750 MHz**		

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ITU Region 1 allocations and footnotes	South African allocations and footnotes	Typical Applications	Notes and Comments
RADIOLOCATION 5.468 5.469	RADIOLOCATION	RADARS. aeronautical radio navigation e.g. precision airfield approach radars	
8 750-8 850 MHz RADIOLOCATION AERONAUTICAL RADIONAVIGATION 5.470 5.471	**8 750-8 850 MHz** RADIOLOCATION AERONAUTICAL RADIONAVIGATION 5.470	RADARS. aeronautical radionavigation e.g. precision airfield approach radars Airborne Doppler navigation aids (8 800 MHz)	
8 850-9 000 MHz RADIOLOCATION MARITIME RADIONAVIGATION 5.472 5.473	**8 850-9 000 MHz** RADIOLOCATION MARITIME RADIONAVIGATION 5.472	RADARS. aeronautical radionavigation e.g. precision airfield approach radars Shore-based radars	
9 000-9 200 MHz AERONAUTICAL RADIONAVIGATION 5.337 RADIOLOCATION 5.471 5.473A	**9 000-9 200 MHz** AERONAUTICAL RADIONAVIGATION 5.337 RADIOLOCATION 5.473A	Approach radars RADARS. aeronautical radionavigation e.g. precision airfield approach radars Ground-based radars and associated airborne transponders	

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ITU Region 1 allocations and footnotes	South African allocations and footnotes	Typical Applications	Notes and Comments
9 200-9 300 MHz EARTH EXPLORATION-SATELLITE (active) 5.474A 5.474B 5.474C RADIOLOCATION MARITIME RADIONAVIGATION 5.472 5.473 5.474 5.474D	**9 200-9 225 MHz** EARTH EXPLORATION-SATELLITE (active) 5.474A 5.474B 5.474C RADIOLOCATION MARITIME RADIONAVIGATION 5.472 5.474 5.474D	Field Disturbance and Doppler Apparatus (9200 – 9975 MHz) Harbour radars RADARS. aeronautical radionavigation e.g. precision airfield approach radars Shore-based radars	Radio Frequency Spectrum Regulations as amended (Annex B) (GG. No. 38641, 30 March 2015).
	9 225-9 300 MHz EARTH EXPLORATION-SATELLITE (active) 5.474A 5.474B 5.474C RADIOLOCATION MARITIME RADIONAVIGATION 5.474 5.474D	Field Disturbance and Doppler Apparatus (9200 – 9975 MHz) Harbour radars RADARS. aeronautical radionavigation e.g. precision airfield approach radars Shore-based radars	Radio Frequency Spectrum Regulations as amended (Annex B) (GG. No. 38641, 30 March 2015).
9 300-9 500 MHz	**9 300-9 320 MHz**		

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ITU Region 1 allocations and footnotes	South African allocations and footnotes	Typical Applications	Notes and Comments
RADIONAVIGATION 5.475 EARTH EXPLORATION-SATELLITE (active) SPACE RESEARCH (active) RADIOLOCATION	RADIONAVIGATION except aeronautical radionavigation EARTH EXPLORATION-SATELLITE (active) SPACE RESEARCH (active) RADIOLOCATION AERONAUTICAL RADIONAVIGATION 5.427 5.474 5.475 5.475A 5.475B 5.476A	Shore based radars (9380 – 9440 MHz) Field Disturbance and Doppler Apparatus (9200 – 9975 MHz) RADARS. aeronautical radionavigation e.g. precision airfield approach radars Airborne weather radars Ground-based radar beacons Ground-based radars	Radio Frequency Spectrum Regulations as amended (Annex B) (GG. No. 38641, 30 March 2015).
5.427 5.474 5.475A 5.475B 5.476A	**9 320-9 500 MHz** RADIONAVIGATION except aeronautical radionavigation EARTH EXPLORATION-SATELLITE (active) SPACE RESEARCH (active) RADIOLOCATION	Shore based radars (9380 – 9440 MHz) Field Disturbance and Doppler Apparatus (9200 – 9975 MHz) RADARS. aeronautical radionavigation e.g. precision airfield approach radars Airborne weather radars	Radio Frequency Spectrum Regulations as amended (Annex B) (GG. No. 38641, 30 March 2015).

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ITU Region 1 allocations and footnotes	South African allocations and footnotes	Typical Applications	Notes and Comments
		Ground-based radar beacons Ground-based radars Airborne weather radars	
	AERONAUTICAL RADIONAVIGATION 5.427 5.474 5.475 5.475A 5.475B 5.476A		
9 500-9 800 MHz EARTH EXPLORATION-SATELLITE (active) RADIOLOCATION RADIONAVIGATION SPACE RESEARCH (active) 5.476A	**9 500-9 800 MHz** EARTH EXPLORATION-SATELLITE (active) RADIOLOCATION RADIONAVIGATION SPACE RESEARCH (active) 5.476A	Field Disturbance and Doppler Apparatus (9200 – 9975 MHz) RADARS. aeronautical radionavigation e.g. precision airfield approach radars	Radio Frequency Spectrum Regulations as amended (Annex B) (GG. No. 38641, 30 March 2015).
9 800-9 900 MHz RADIOLOCATION Earth exploration-satellite (active) Space research (active) Fixed	**9 800-9 900 MHz** RADIOLOCATION Earth exploration-satellite (active) Space research (active) Fixed	Field Disturbance and Doppler Apparatus (9200 – 9975 MHz)	Radio Frequency Spectrum Regulations as amended (Annex B) (GG. No. 38641, 30 March 2015).

ITU Region 1 allocations and footnotes	South African allocations and footnotes	Typical Applications	Notes and Comments
5.477 5.478 5.478A 5.478B	5.478A 5.478B		
9 900-10 000 MHz EARTH EXPLORATION-SATELLITE (active) 5.474A 5.474B 5.474C RADIOLOCATION Fixed	**9 900-9 975 MHz** EARTH EXPLORATION-SATELLITE (active) 5.474A 5.474B 5.474C RADIOLOCATION Fixed 5.474D 5.479	Field Disturbance and Doppler Apparatus (9200 – 9975 MHz) RADARS. aeronautical radionavigation e.g. precision airfield approach radars	Radio Frequency Spectrum Regulations as amended (Annex B) (GG. No. 38641, 30 March 2015).
5.474D 5.477 5.478 5.479	**9 975-10 000 MHz** EARTH EXPLORATION-SATELLITE (active) 5.474A 5.474B 5.474C RADIOLOCATION Fixed Meteorological-satellite 5.474D 5.479	Field Disturbance and Doppler Apparatus (9200 – 9975 MHz) RADARS. aeronautical radionavigation e.g. precision airfield approach radars Weather radars	Radio Frequency Spectrum Regulations as amended (Annex B) (GG. No. 38641, 30 March 2015).

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ITU Region 1 allocations and footnotes	South African allocations and footnotes	Typical Applications	Notes and Comments
10-10.4 GHz EARTH EXPLORATION-SATELLITE (active) 5.474A 5.474B 5.474C FIXED MOBILE RADIOLOCATION Amateur 5.474D 5.479	**10-10.025 GHz** EARTH EXPLORATION-SATELLITE (active) 5.474A 5.474B 5.474C FIXED NF14 MOBILE RADIOLOCATION Amateur Meteorological-satellite 5.474D 5.479	Fixed PtP Links	
	10.025-10.4 GHz EARTH EXPLORATION-SATELLITE (active) 5.474A 5.474B 5.474C FIXED NF14 MOBILE RADIOLOCATION Amateur 5.474D 5.479	Fixed PtP Links	
10.4-10.45 GHz FIXED MOBILE RADIOLOCATION	**10.4-10.45 GHz** FIXED NF14 MOBILE RADIOLOCATION	Low power video links (10.0 – 10.15 GHz) BFWA (10.15 – 10.3 GHz) Motion sensors	Paired with 10.50-10.65 GHz Channelling plan for 10.5 GHz band in accordance with ITU-R Rec. F.1568 latest version Annex 1.

ITU Region 1 allocations and footnotes	South African allocations and footnotes	Typical Applications	Notes and Comments
Amateur	Amateur		
10.45-10.5 GHz RADIOLOCATION Amateur Amateur-satellite 5.481	**10.45-10.5 GHz** RADIOLOCATION Amateur Amateur-satellite	Radiolocation Radars Motion Sensors	
10.5-10.55 GHz FIXED MOBILE Radiolocation	**10.5-10.55 GHz** FIXED NF14 MOBILE Radiolocation	BFWA (10.5 – 10.65 GHz) SAP/SAB Applications (Video connections) (10.5 – 10.68 GHz) FDDA (10.5 – 10.6 GHz)	Radio Frequency Spectrum Regulations as amended (Annex B) (GG. No. 38641, 30 March 2015). Paired with 10.15-10.30 GHz Channelling plan for 10.5 GHz band in accordance with ITU-R Rec. F.1568 latest version Annex 1.
10.55-10.6 GHz FIXED	**10.55-10.6 GHz** FIXED NF14	BFWA (10.5 – 10.65 GHz) SAP/SAB Applications (video connections) (10.5 – 10.68 GHz)	Paired with 10.15 – 10.3 GHz

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ITU Region 1 allocations and footnotes	South African allocations and footnotes	Typical Applications	Notes and Comments
MOBILE except aeronautical mobile Radiolocation	MOBILE except aeronautical mobile Radiolocation	FDDA (10.5 – 10.6 GHz)	Radio Frequency Spectrum Regulations as amended (Annex B) (GG. No. 38641, 30 March 2015). Paired with 10.15-10.30 GHz Channelling plan for 10.5 GHz band in accordance with ITU-R Rec. F.1568 latest version Annex 1
10.6-10.68 GHz EARTH EXPLORATION-SATELLITE (passive) FIXED MOBILE except aeronautical mobile RADIO ASTRONOMY RESEARCH (passive) Radiolocation 5.149 5.482 5.482A	**10.6-10.68 GHz** EARTH EXPLORATION-SATELLITE (passive) FIXED NF14 MOBILE except aeronautical mobile RADIO ASTRONOMY RESEARCH (passive) Radiolocation 5.149 5.482 5.482A	BFWA (10.5 – 10.65 GHz) SAP/SAB Applications (video connections) (10.5 – 10.68 GHz) Radio astronomy (Non thermal synchrotron and enigmatic quasars) Motion sensors	Paired with 10.15 – 10.3 GHz Channelling plan for 10.5 GHz band in accordance with ITU-R Rec. F.1568 latest version Annex 1. For sharing between EESS (passive) and the fixed and mobile service Res.751 applies. See section 5 for coordination with radio astronomy
10.68-10.7 GHz EARTH EXPLORATION-SATELLITE (passive) RADIO ASTRONOMY SPACE RESEARCH (passive)	**10.68-10.7 GHz** EARTH EXPLORATION-SATELLITE (passive) RADIO ASTRONOMY SPACE RESEARCH (passive)	Radio astronomy (Non thermal synchrotron and enigmatic quasars)	See section 5 for coordination with radio astronomy

ITU Region 1 allocations and footnotes	South African allocations and footnotes	Typical Applications	Notes and Comments
5.340 5.483	5.340		
10.7-10.95 GHz FIXED FIXED-SATELLITE (space-to-Earth) 5.441 (Earth-to-space) 5.484 MOBILE except aeronautical mobile	**10.7-10.95 GHz** FIXED FIXED-SATELLITE (space-to-Earth) 5.441 (Earth-to-space) 5.484 MOBILE except aeronautical mobile	 Feeder links in the BSS Fixed Links (11 GHz) (10.7 – 11.7 GHz) DTH Applications under the FSS	 This band is used for Fixed links (11 GHz) (10.7-11.7 GHz). The channeling plan for FS Links are in accordance with ITU-R Rec.F387.latest version The band is also available for FSS Planned services (see Appendix 30B). The use of the band 10.7-11.7 GHz by the fixed-satellite service (Earth-to-space) is limited, can also be used for BSS feeder links (see 5.484).
10.95-11.2 GHz FIXED FIXED-SATELLITE (space-to-Earth) 5.484A 5.484B (Earth-to-space) 5.484	**10.95-11.2 GHz** FIXED FIXED-SATELLITE (space-to-Earth) 5.484A 5.484B (Earth-to-space) 5.484	 Feeder links in the BSS Fixed Links (11 GHz) (10.7 – 11.7 GHz) DTH Applications under the FSS Ku-band downlink (VSAT/SNG)	 This band is used for Fixed links (11 GHz) (10.7-11.7 GHz). The channeling plan for FS Links are in accordance with ITU-R Rec.F387 latest version.. This band is also used for FSS (downlink) (VSAT/SNG/BSS feeder links). The use of the band 10.7-11.7 GHz by the fixed-satellite service (Earth-to-space) is limited to can also be used for BSS feeder links (see 5.484).

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ITU Region 1 allocations and footnotes	South African allocations and footnotes	Typical Applications	Notes and Comments
MOBILE except aeronautical mobile	MOBILE except aeronautical mobile		
11.2-11.45 GHz FIXED FIXED-SATELLITE (space-to-Earth) 5.441 (Earth-to-space) 5.484 MOBILE except aeronautical mobile	**11.2-11.45 GHz** FIXED FIXED-SATELLITE (space-to-Earth) 5.441 (Earth-to-space) 5.484 MOBILE except aeronautical mobile	Feeder links in the BSS Fixed Links (11 GHz) (10.7 – 11.7 GHz) DTH Applications under the FSS	This band is used for Fixed links (11 GHz) (10.7-11.7 GHz). The channeling plan for FS Links are in accordance with ITU-R Rec.F387 latest version. The band is also available for FSS Planned services (see Appendix 30B). The use of the band 10.7-11.7 GHz by the fixed-satellite service (Earth-to-space) is limited to can also be used for BSS feeder links (see 5.484).
11.45-11.7 GHz FIXED FIXED-SATELLITE (space-to-Earth) 5.484A 5.484B (Earth-to-space) 5.484	**11.45-11.7 GHz** FIXED NF14 FIXED-SATELLITE (space-to-Earth) 5.484A 5.484B (Earth-to-space) 5.484	Fixed Links (11 GHz) (10.7 – 11.7 GHz) Fixed-satellite downlinks (PTP/VSAT/SNG), Feeder links in the BSS DTH Applications under the FSS	This band is used for Fixed links (11 GHz) (10.7-11.7 GHz). The channeling plan for FS Links are in accordance with ITU-R Rec.F387 latest version. This band is also used for FSS (downlink) (VSAT/SNG/BSS feeder links). The use of the band 10.7-11.7 GHz by the fixed-satellite service (Earth-

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ITU Region 1 allocations and footnotes	South African allocations and footnotes	Typical Applications	Notes and Comments
MOBILE except aeronautical mobile	MOBILE except aeronautical mobile		to-space) is limited to can also be used for BSS feeder links (see 5.484).
11.7-12.5 GHz FIXED MOBILE except aeronautical mobile BROADCASTING BROADCASTING-SATELLITE 5.492 5.487 5.487A	**11.7-12.5 GHz** FIXED MOBILE except aeronautical mobile BROADCASTING BROADCASTING-SATELLITE 5.492 FIXED-SATELLITE (non-GSO) (space-to-Earth) 5.487 5.487A	 Fixed links OB links ENG Broadcast satellite systems BSS feeder links	 This band is available for BSS in accordance with Appendix 30 of ITU RR. Refer to Annex B.
12.5-12.75 GHz FIXED-SATELLITE (space-to-Earth) 5.484A 5.484B (Earth-to-space) 5.494 5.495 5.496	**12.5-12.75 GHz** FIXED-SATELLITE (space-to-Earth) 5.484A 5.484B (Earth-to-space)	 FSS uplinks (VSAT/SNG) 12.5 – 12.75 GHz Aeronautical Earth Stations/ESV/ESIM Applications NGSO FSS Fixed Links	 Article 9.12 applies Res. 155 (WRC-195) applies
12.75-13.25 GHz FIXED	**12.75-13.25 GHz** FIXED NF14		

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ITU Region 1 allocations and footnotes	South African allocations and footnotes	Typical Applications	Notes and Comments
FIXED-SATELLITE (Earth-to-space) 5.441 5.496A MOBILE Space research (deep space) (space-to-Earth)	FIXED-SATELLITE (Earth-to-space) 5.441 5.496A MOBILE Space research (deep space) (space-to-Earth)	Fixed Links (13 GHz) (12.75 – 13.25 GHz)	Channelling plan for 13 GHz band in accordance with ITU-R Rec. F.497 latest version. The band 12.75-13.25 GHz is part of the APP30B Plan (FSS Earth-to-space); refer to Annex B. Article 9.12 applies Res. 172 (WRC-19) applies
13.25-13.4 GHz EARTH EXPLORATION-SATELLITE (active) AERONAUTICAL RADIONAVIGATION 5.497 SPACE RESEARCH (active) 5.498A 5.499	**13.25-13.4 GHz** EARTH EXPLORATION-SATELLITE (active) AERONAUTICAL RADIONAVIGATION 5.497 SPACE RESEARCH (active) 5.498A	Airborne Doppler Radar Doppler navigation aids	
13.4-13.65 GHz EARTH EXPLORATION-SATELLITE (active) FIXED SATELLITE (space-to-Earth) 5.499A 5.499B	**13.4-13.65 GHz** EARTH EXPLORATION-SATELLITE (active) FIXED SATELLITE (GSO) (space-to-Earth) 5.499A 5.499B RADIOLOCATION SPACE RESEARCH 5.499C 5.499D	SRD: Radio Determination Allications Active spaceborne sensors Relay data from GSO space stations to associated Earth stations	ITU-R Rec SM 1896-1 and Report ITU-R SM.2153-7 latest versions

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ITU Region 1 allocations and footnotes	South African allocations and footnotes	Typical Applications	Notes and Comments
RADIOLOCATION SPACE RESEARCH 5.499C 5.499D Standard frequency and time signal-satellite (Earth-to-space) 5.499E 5.500 5.501 5.501B	SPACE RESEARCH (space-to-Earth) SPACE RESEARCH (space-to-space) Standard frequency and time signal-satellite (Earth-to-space) 5.499E 5.501B 5.499 5.499E 5.500 5.501 5.501B	Relay data from GSO space stations to associated non-GSO space stations Space research	
13.65-13.75 GHz EARTH EXPLORATION-SATELLITE (active) RADIOLOCATION SPACE RESEARCH 5.501A Standard frequency and time signal-satellite (Earth-to-space) 5.499 5.500 5.501 5.501B	**13.65-13.75 GHz** EARTH EXPLORATION-SATELLITE (active) RADIOLOCATION SPACE RESEARCH 5.501A Standard frequency and time signal-satellite (Earth-to-space) 5.501B	FDDA (13.4 – 14 GHz) RADIOLOCATION Active spaceborne sensors Other than active spaceborne sensors	Radio Frequency Spectrum Regulations as amended (Annex B) (GG. No. 38641, 30 March 2015).
13.75-14 GHz FIXED-SATELLITE (Earth-to-space) 5.484A RADIOLOCATION Earth exploration-satellite Standard frequency and time signal-satellite (Earth-to-space)	**13.75-14 GHz** FIXED-SATELLITE (Earth-to-space) 5.484A RADIOLOCATION Earth exploration-satellite Standard frequency and time signal-satellite (Earth-to-space)	FSS uplinks (PTP/VSAT/SNG) (13.75-14.5 GHz) FDDA (13.4 – 14 GHz)	Radio Frequency Spectrum Regulations as amended (Annex B) (GG. No. 38641, 30 March 2015).

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ITU Region 1 allocations and footnotes	South African allocations and footnotes	Typical Applications	Notes and Comments
Space research 5.499 5.500 5.501 5.502 5.503	Space research 5.502 5.503		
14-14.25 GHz FIXED-SATELLITE (Earth-to-space) 5.457A 5.457B 5.484A 5.484B 5.506 5.506B RADIONAVIGATION 5.504 Mobile-satellite (Earth-to-space) 5.504B 5.504C 5.506A Space research 5.504A 5.505	**14-14.25 GHz** FIXED-SATELLITE (Earth-to-space) 5.457A 5.457B 5.484A 5.484B 5.506 5.506B NF17 RADIONAVIGATION 5.504 Mobile-satellite (Earth-to-space) 5.504B 5.504C 5.506A Space research 5.504A	FSS uplinks (PTP/VSAT/SNG) (13.75-14.5 GHz) ESVs (14 -14.5 GHz) Feeder links in the BSS	Earth Station onboard vessels (ESV) also allowed under FSS; Res. 902 applies. The band 14.0-14.5 GHz may also be used for AES (aircraft-to-space station).
14.25-14.3 GHz FIXED-SATELLITE (Earth-to-space) 5.457A 5.457B 5.484A 5.484B 5.506 5.506B RADIONAVIGATION 5.504 Mobile-satellite (Earth-to-space) 5.504B 5.506A 5.508A	**14.25-14.3 GHz** FIXED-SATELLITE (Earth-to-space) 5.457A 5.457B 5.484A 5.484B 5.506 5.506B NF17 RADIONAVIGATION 5.504 Mobile-satellite (Earth-to-space) 5.504B 5.506A	FSS uplinks (PTP/VSAT/SNG) (13.75-14.5 GHz) ESVs (14 -14.5 GHz) Feeder links in the BSS Aeronautical earth stations/ESV/ESIM Applications Fixed links	Earth Station onboard vessels (ESV) also allowed under FSS; Res. 902 applies. The band 14.0-14.5 GHz may also be used for AES (aircraft-to-space station). Recommendation ITU-R M.1643-0 (WRC-15)

ITU Region 1 allocations and footnotes	South African allocations and footnotes	Typical Applications	Notes and Comments
Space research 5.504A 5.505 5.508	Space research 5.504A ~~5.508A~~		
14.3-14.4 GHz FIXED FIXED-SATELLITE (Earth-to-space) 5.457A 5.457B 5.484A 5.484B 5.506 5.506B MOBILE except aeronautical mobile Mobile-satellite (Earth-to-space) 5.504B 5.506A 5.509A Radionavigation-satellite 5.504A	**14.3-14.4 GHz** FIXED FIXED-SATELLITE (Earth-to-space) 5.457A 5.457B 5.484A 5.484B 5.506 5.506B NF17 MOBILE except aeronautical mobile Mobile-satellite (Earth-to-space) 5.504B 5.506A ~~5.509A~~ Radionavigation-satellite 5.504A	FSS uplinks (PTP/VSAT/SNG) (13.75-14.5 GHz) ESVs (14 -14.5 GHz) Feeder links in the BSS Aeronautical earth stations/ESV/ESIM Applications Fixed links	Earth Station on board vessels (ESV) also allowed under FSS; Res. 902 applies. The band 14.0-14.5 GHz may also be used for AES (aircraft-to-space station). Recommendation ITU-R M.1643-0 (WRC-15)

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14.4-14.47 GHz FIXED FIXED-SATELLITE (Earth-to-space) 5.457A 5.457B 5.484A 5.484B 5.506 5.506B MOBILE except aeronautical mobile Mobile-satellite (Earth-to-space) 5.504B 5.506A 5.509A Space research (space-to-Earth) 5.504A	**14.4-14.47 GHz** FIXED FIXED-SATELLITE (Earth-to-space) 5.457A 5.457B 5.484A 5.484B 5.506 5.506B NF17 MOBILE except aeronautical mobile Mobile-satellite (Earth-to-space) 5.504B 5.506A 5.509A Space research (space-to-Earth) 5.504A	FSS uplinks (PTP/VSAT/SNG) (13.75-14.5 GHz) ESVs (14 -14.5 GHz) Feeder links in the BSS Aeronautical earth stations/ESV/ESIM Applications Fixed links	Earth Station onboard vessels (ESV) also allowed under FSS; Res. 902 applies. The band 14.0-14.5 GHz may also be used for AES (aircraft-to-space station). Recommendation ITU-R M.1643-0 (WRC-15)
14.47-14.5 GHz FIXED FIXED-SATELLITE (Earth-to-space) 5.457A 5.457B 5.484A 5.506 5.506B MOBILE except aeronautical mobile Mobile-satellite (Earth-to-space) 5.504B 5.506A 5.509A Radio astronomy 5.149 5.504A	**14.47-14.5 GHz** FIXED FIXED-SATELLITE (Earth-to-space) 5.457A 5.457B 5.484A 5.506 5.506B NF17 MOBILE except aeronautical mobile Mobile-satellite (Earth-to-space) 5.504B 5.506A Radio astronomy 5.149 5.504A	FSS uplinks (PTP/VSAT/SNG) (13.75-14.5 GHz) ESVs (14 -14.5 GHz) Feeder links in the BSS Aeronautical earth stations/ESV/ESIM Applications Fixed links Radio Astronomy (non-thermal synchrotron and enigmatic quasars	Earth Station onboard vessels (ESV) also allowed under FSS; Res. 902 applies. The band 14.0-14.5 GHz may also be used for AES (aircraft-to-space station). See section 5 for coordination with radio astronomy
14.5-14.75 GHz FIXED	**14.5-14.75 GHz** FIXED		

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ITU Region 1 allocations and footnotes	South African allocations and footnotes	Typical Applications	Notes and Comments
FIXED-SATELLITE (Earth-to-space) 5.509B 5.509C 5.509D 5.509E 5.509F 5.510 MOBILE Space research 5.509G	FIXED-SATELLITE (Earth-to-space) 5.509B 5.509C 5.509D 5.509E 5.509F 5.510 MOBILE SPACE RESEARCH (Earth-to-space) 5.509G	Fixed links - 15 GHz (14.5-15.35 GHz) Feeder links in the BSS Relay data to GSO space stations from associated Earth stations Other than relay data to GSO space stations from associated Earth stations	Channelling plan for 15 GHz band in accordance with ITU-R Rec. F.636.latest version The band 14.5-14.8 GHz is part of the APP30A Plan (Feeder Links for BSS) for some SADC countries. Refer to Annex B.
14.75-14.8 GHz FIXED FIXED-SATELLITE (Earth-to-space) 5.510 MOBILE Space research 5.509G	**14.75-14.8 GHz** FIXED NF14 FIXED-SATELLITE (Earth-to-space) 5.510 MOBILE SPACE RESEARCH (Earth-to-space) 5.509G	Fixed Links (15 GHz) (14.5 – 15.35 GHz) BSS feeder links Relay data to GSO space stations from associated Earth stations Other than relay data to GSO space stations from associated Earth stations	Channelling plan for 15 GHz band in accordance with ITU-R Rec. F.636 latest version. The band 14.5-14.8 GHz is part of the APP30A Plan (Feeder Links for BSS) for some SADC countries. Refer to Annex B.
14.8-15.35 GHz	**14.8-15.2 GHz**		

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ITU Region 1 allocations and footnotes	South African allocations and footnotes	Typical Applications	Notes and Comments
FIXED MOBILE ~~Space research~~ SPACE RESEARCH 5.510A 5.339	FIXED NF14 MOBILE SPACE RESEARCH 5.510A ~~Space research~~ 5.339	Fixed Links (15 GHz) (14.5 – 15.35 GHz)	Channelling plan for 15 GHz band in accordance with ITU-R Rec. F.636 latest version. .
	15.2-15.35 GHz FIXED MOBILE Earth exploration-satellite (passive) Space research Space research (passive) 5.339	Fixed Links (15 GHz) (14.5 – 15.35 GHz)	Channelling plan for 15 GHz band in accordance with ITU-R Rec. F.636 latest version.
15.35-15.4 GHz EARTH EXPLORATION- SATELLITE (passive) RADIO ASTRONOMY SPACE RESEARCH (passive) 5.340 5.511	**15.35-15.4 GHz** EARTH EXPLORATION- SATELLITE (passive) RADIO ASTRONOMY SPACE RESEARCH (passive) 5.340	Very long base inferometry Observations Radio Astronomy (non-thermal synchrotron and enigmatic quasars Passive sensing	
15.4-15.41 GHz RADIOLOCATION 5.511E 5.511F	**15.4-15.41 GHz** RADIOLOCATION 5.511E 5.511F AERONAUTICAL RADIONAVIGATION	Radio Altimeters/Dopler Radars	

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ITU Region 1 allocations and footnotes	South African allocations and footnotes	Typical Applications	Notes and Comments
AERONAUTICAL RADIONAVIGATION			
~~15.4-15.43 GHz~~ **15.41-15.43 GHz** RADIOLOCATION 5.511E 5.511F AERONAUTICAL RADIONAVIGATION Aeronautical mobile (OR) 5.511G	~~15.4-15.43 GHz~~ **15.41-15.43 GHz** RADIOLOCATION 5.511E 5.511F AERONAUTICAL RADIONAVIGATION Aeronautical mobile (OR) 5.511G	Radio Altimeters/Dopler Radars	ICAO: Guidelines on Radiocommunication (Annex 10)
15.43-15.63 GHz FIXED-SATELLITE (Earth-to-space) 5.511A RADIOLOCATION 5.511E 5.511F AERONAUTICAL RADIONAVIGATION Aeronautical mobile (OR) 5.511G 5.511C	**15.43-15.63 GHz** FIXED-SATELLITE (Earth-to-space) 5.511A RADIOLOCATION 5.511E 5.511F AERONAUTICAL RADIONAVIGATION Aeronautical mobile (OR) 5.511G 5.511C	Feeder links of non-GSO-satellite systems in the MSS Radio Altimeters Dopler Radars	ICAO: Guidelines on Radiocommunication (Annex 10)
15.63-15.7 GHz RADIOLOCATION 5.511E 5.511F AERONAUTICAL RADIONAVIGATION Aeronautical mobile (OR) 5.511G	**15.63-15.7 GHz** RADIOLOCATION 5.511E 5.511F AERONAUTICAL RADIONAVIGATION Aeronautical mobile (OR) 5.511G	Radio Altimeters Dopler Radars	ICAO: Guidelines on Radiocommunication (Annex 10)

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ITU Region 1 allocations and footnotes	South African allocations and footnotes	Typical Applications	Notes and Comments
15.7-16.6 GHz RADIOLOCATION 5.512 5.513	**15.7-16.6 GHz** RADIOLOCATION	Dopler Radars Government Services	Altimeters / Distance measuring equipment
16.6-17.1 GHz RADIOLOCATION Space research (deep space) (Earth-to-space) 5.512 5.513	**16.6-17.1 GHz** RADIOLOCATION Space research (deep space) (Earth-to-space)		
17.1-17.2 GHz RADIOLOCATION 5.512 5.513	**17.1-17.2 GHz** RADIOLOCATION	WAS / RLAN (17.1 – 17.3 GHz)	Radio Frequency Spectrum Regulations as amended (Annex B) (GG. No. 38641, 30 March 2015).
17.2-17.3 GHz EARTH EXPLORATION-SATELLITE (active) RADIOLOCATION SPACE RESEARCH (active) 5.512 5.513 5.513A	**17.2-17.3 GHz** EARTH EXPLORATION-SATELLITE (active) RADIOLOCATION SPACE RESEARCH (active) 5.513A	WAS / RLAN (17.1 – 17.3 GHz)	Radio Frequency Spectrum Regulations as amended (Annex B) (GG. No. 38641, 30 March 2015).

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ITU Region 1 allocations and footnotes	South African allocations and footnotes	Typical Applications	Notes and Comments
17.3-17.7 GHz FIXED-SATELLITE (Earth-to-space) 5.516 (space-to-Earth) 5.516A 5.516B Radiolocation 5.514	**17.3-17.7 GHz** FIXED-SATELLITE (Earth-to-space) 5.516 (space-to-Earth) 5.516A 5.516B (non-GSO) (Earth-to-space) Radiolocation	Feeder links of GSO-satellite systems in the BSS [HIGH-DENSITYAPPLICATIONS IN THE FSS (space-to-Earth)]	The band 17.3-17.7 GHz is part of the APP30A Plan (Feeder Links for BSS) for many SADC countries; refer to Annex B. The band 17.3-17.7 GHz is identified for HDFSS; Res.143 applies.
17.7-18.1 GHz FIXED FIXED-SATELLITE (space-to-Earth) 5.484A 5.517A 5.517B (Earth-to-space) 5.516 MOBILE	**17.7-18.1 GHz** FIXED NF14 FIXED-SATELLITE (space-to-Earth) 5.484A 5.517A 5.517B (Earth-to-space) 5.516 (non-GSO) ~~(Earth-to-space)~~ MOBILE	Fixed Links (18 GHz) (17.7 – 19.7 GHz) BSS Feeder Links Feeder links of GSO-satellite systems in the BSS	Channelling plan for 18 GHz band in accordance with ITU-R Rec. F.595 latest version Annex 1. Resolution 169 (WRC-19)
18.1-18.4 GHz FIXED FIXED-SATELLITE (space-to-Earth) 5.484A 5.516B	**18.1-18.4 GHz** FIXED NF14 FIXED-SATELLITE (space-to-Earth) 5.484A 5.516B	Fixed Links (18 GHz) (17.7 – 19.7 GHz) BSS Feeder Links ESIMS (under the FSS)	Channelling plan for 18 GHz band in accordance with ITU-R Rec. F.595 latest version Annex 1. Resolution 169 (WRC-19)

ITU Region 1 allocations and footnotes	South African allocations and footnotes	Typical Applications	Notes and Comments
5.517A 5.517B (Earth-to-space) 5.520 INTER-SATELLITE 5.521A MOBILE 5.519 5.521	5.517A 5.517B (Earth-to-space) 5.520 INTER-SATELLITE 5.521A MOBILE METEOROLOGICAL-SATELLITE (GSO) (space-to-Earth) 5.519	Feeder links of GSO-satellite systems in the BSS Inter-satellite (18.1 -18.6 GHz)	
18.4-18.6 GHz FIXED FIXED-SATELLITE (space-to-Earth) 5.484A 5.516B 5.517A 5.517B INTER-SATELLITE 5.521A MOBILE	**18.4-18.6 GHz** FIXED NF14 FIXED-SATELLITE (space-to-Earth) 5.484A 5.516B 5.517A 5.517B INTER-SATELLITE 5.521A MOBILE	Fixed Links (18 GHz) (17.7 – 19.7 GHz) ESIMS (under the FSS) Inter-satellite (18.1 -18.6 GHz)	Channelling plan for 18 GHz band in accordance with ITU-R Rec. F.595 latest version Annex 1. Resolution 169 (WRC-19)
18.6-18.8 GHz EARTH EXPLORATION-SATELLITE (passive) FIXED FIXED-SATELLITE (space-to-Earth) 5.517A 5.522B	**18.6-18.8 GHz** EARTH EXPLORATION-SATELLITE (passive) FIXED NF14 FIXED-SATELLITE (space-to-Earth) 5.517A 5.522B	Fixed Links (18 GHz) (17.7 – 19.7 GHz) System with orbit apogee greater than 20 000 km ESIMS (under the FSS)	Channelling plan for 18 GHz band in accordance with ITU-R Rec. F.595 latest version Annex 1 Resolution 169 (WRC-19)

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ITU Region 1 allocations and footnotes	South African allocations and footnotes	Typical Applications	Notes and Comments
MOBILE except aeronautical mobile Space research (passive) 5.522A 5.522C	MOBILE except aeronautical mobile Space research (passive) 5.522A 5.522C	Passive Sensing	
18.8-19.3 GHz FIXED FIXED-SATELLITE (space-to-Earth) 5.516B 5.517A 5.517B 5.523A INTER-SATELLITE 5.521A MOBILE	**18.8-19.3 GHz** FIXED NF14 FIXED-SATELLITE (space-to-Earth) 5.516B 5.517A 5.523A 5.517B INTER-SATELLITE 5.521A MOBILE	Fixed Links (18 GHz) (17.7 – 19.7 GHz) ESIMS (under the FSS)	Channelling plan for 18 GHz band in accordance with ITU-R Rec. F.595 latest version Annex 1 Resolution 169 (WRC-19)
19.3-19.67 GHz FIXED FIXED-SATELLITE (space-to-Earth) (Earth-to-space) 5.517A 5.523B 5.523C 5.523D 5.523E ~~(Earth-to-space) 5.523B 5.523C 5.523D 5.523E~~ INTER-SATELLITE 5.521A 5.523DA MOBILE	**19.3-19.67 GHz** FIXED NF14 FIXED-SATELLITE (space-to-Earth) (Earth-to-space) 5.517A 5.523B 5.523C 5.523D 5.523E ~~(Earth-to-space) 5.523B 5.523C 5.523D 5.523E~~ INTER-SATELLITE 5.521A 5.523DA MOBILE	Fixed Links (18 GHz) (17.7 – 19.7 GHz) Feeder links of non-GSO-satellite systems in the MSS ESIMS (under the FSS)	Channelling plan for 18 GHz band in accordance with ITU-R Rec. F.595 latest version Annex 1. Resolution 169 (WRC-19)

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ITU Region 1 allocations and footnotes	South African allocations and footnotes	Typical Applications	Notes and Comments
	~~**19.6-19.7 GHz**~~ ~~FIXED NF14~~ ~~FIXED-SATELLITE (space-to-Earth) 5.523C 5.523D 5.523E (Earth-to-space) 5.523C 5.523D 5.523E~~ ~~MOBILE~~	~~Fixed Links (18 GHz) (17.7 – 19.7 GHz)~~ ~~Feeder links of non-GSO satellite systems in the MSS~~ ~~ESIMS (under the FSS)~~	~~Channelling plan for 18 GHz band in accordance with ITU-R Rec. F.595 latest version Annex 1.~~ ~~Resolution 169 (WRC-19)~~
19.7-20.1 GHz FIXED-SATELLITE (space-to-Earth) 5.484A 5.484B 5.516B 5.517B 5.527A INTER-SATELLITE 5.521A Mobile-satellite (space-to-Earth) 5.524	**19.7-20.1 GHz** FIXED-SATELLITE (space-to-Earth) 5.484A 5.484B 5.516B 5.517B 5.527A INTER-SATELLITE 5.521A Mobile-satellite (space-to-Earth)	ESIMS (under the FSS) GSO/FSS [HIGH-DENSITYAPPLICATIONS IN THE FSS (space-to-Earth)]	The band 19.7-20.2 GHz is identified for HDFSS; Res.143 applies. Resolution 156 (WRC-15) applies to ESIMS
20.1-20.2 GHz FIXED-SATELLITE (space-to-Earth) 5.484A 5.484B 5.516B 5.517B 5.527A INTER-SATELLITE 5.521A	**20.1-20.2 GHz** FIXED-SATELLITE (space-to-Earth) 5.484A 5.484B 5.516B 5.517B 5.527A INTER-SATELLITE 5.521A	ESIMS (under the FSS) [HIGH-DENSITYAPPLICATIONS IN THE FSS (space-to-Earth)]	The band 19.7-20.2 GHz is identified for HDFSS; Res.143 applies.

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ITU Region 1 allocations and footnotes	South African allocations and footnotes	Typical Applications	Notes and Comments
MOBILE-SATELLITE (space-to-Earth) 5.524 5.525 5.526 5.527 5.528	MOBILE-SATELLITE (space-to-Earth) 5.525 5.526 5.527 5.528		Resolution 156 (WRC-15) applies to ESIMS
20.2-21.2 GHz FIXED-SATELLITE (space-to-Earth) MOBILE-SATELLITE (space-to-Earth) Standard frequency and time signal-satellite (space-to-Earth) 5.524 5.529A	**20.2-21.2 GHz** FIXED-SATELLITE (space-to-Earth) MOBILE-SATELLITE (space-to-Earth) Standard frequency and time signal-satellite (space-to-Earth) 5.529A	Fixed Satellite Systems(TVRO)	
21.2-21.4 GHz EARTH EXPLORATION-SATELLITE (passive) FIXED MOBILE SPACE RESEARCH (passive)	**21.2-21.4 GHz** EARTH EXPLORATION-SATELLITE (passive) FIXED NF14 MOBILE SPACE RESEARCH (passive)	Passive Sensing Fixed Links (23 GHz) (21.2 – 23.6 GHz)	Channelling plan for 23 GHz band in accordance with ITU-R Rec. F.637 latest version Annex 1.
21.4-22 GHz FIXED MOBILE	**21.4-22 GHz** FIXED NF14 MOBILE	Fixed Links (23 GHz) (21.2 – 23.6 GHz) Broadcast satellite systems	Channelling plan for 23 GHz band in accordance with ITU-R Rec. F.637 latest version Annex 1.

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ITU Region 1 allocations and footnotes	South African allocations and footnotes	Typical Applications	Notes and Comments
BROADCASTING-SATELLITE 5.208B 5.530A 5.530B	BROADCASTING-SATELLITE 5.208B 5.530A 5.530B		The use of BSS in this band is subject to the provisions of WRC - 15 Resolutions 552 (Rev.WRC-19), and 553 (Rev. WRC-15) and 555." Resolution 555 (Rev. WRC-15) was abrogated on 23 November 2019 (Resolution 99 (Rev. WRC-19))
22-22.21 GHz FIXED MOBILE except aeronautical mobile (R) 5.531A 5.531B 5.531C 5.531D 5.531F 5.149	**22-22.21 GHz** FIXED NF14 MOBILE except aeronautical mobile (R) 5.531A 5.531B 5.531C 5.531D 5.531F 5.149	Fixed Links (23 GHz) (21.2 – 23.6 GHz) Radio astronomy (red-shifted H_2O Passive Sensing	Channelling plan for 23 GHz band in accordance with ITU-R Rec. F.637 latest version Annex 1. See section 5 for coordination with radio astronomy
22.2 -22.21 FIXED MOBILE except aeronautical mobile 5.149	**22.2 -22.21** FIXED MOBILE except aeronautical mobile 5.149	Fixed Links (23 GHz) (21.2 – 23.6 GHz) Radio astronomy (red-shifted H_2O Passive Sensing	Channelling plan for 23 GHz band in accordance with ITU-R Rec. F.637 latest version Annex 1. See section 5 for coordination with radio astronomy
22.21-22.5 GHz EARTH EXPLORATION-SATELLITE (passive) FIXED	**22.21-22.5 GHz** EARTH EXPLORATION-SATELLITE (passive) FIXED NF14	Fixed Links (23 GHz) (21.2 – 23.6 GHz)	Channelling plan for 23 GHz band in accordance with ITU-R Rec. F.637 latest version Annex 1.

ITU Region 1 allocations and footnotes	South African allocations and footnotes	Typical Applications	Notes and Comments
MOBILE except aeronautical mobile RADIO ASTRONOMY SPACE RESEARCH (passive) 5.149 5.532	MOBILE except aeronautical mobile RADIO ASTRONOMY SPACE RESEARCH (passive) 5.149 5.532	Radio astronomy (red-shifted H_2O Passive Sensing	See section 5 for coordination with radio astronomy
22.5-22.55 GHz FIXED MOBILE	**22.5-22.55 GHz** FIXED NF14 MOBILE	Fixed Links (23 GHz) (21.2 – 23.6 GHz)	Channelling plan for 23 GHz band in accordance with ITU-R Rec. F.637 latest version Annex 1
22.55-23.15 GHz FIXED INTER-SATELLITE 5.338A MOBILE SPACE RESEARCH (Earth-to-space) 5.532A 5.149	**22.55-23.15 GHz** FIXED NF14 INTER-SATELLITE 5.338A MOBILE SPACE RESEARCH (Earth-to-space) 5.532A 5.149	Fixed Links (23 GHz) (21.2 – 23.6 GHz)	Channelling plan for 23 GHz band in accordance with ITU-R Rec. F.637 latest version Annex 1. See section 5 for coordination with radio astronomy
23.15-23.55 GHz FIXED INTER-SATELLITE 5.338A	**23.15-23.55 GHz** FIXED NF14 INTER-SATELLITE 5.338A	Fixed Links (23 GHz) (21.2 – 23.6 GHz)	

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ITU Region 1 allocations and footnotes	South African allocations and footnotes	Typical Applications	Notes and Comments
MOBILE	MOBILE		
23.55-23.6 GHz FIXED MOBILE	**23.55-23.6 GHz** FIXED NF14 MOBILE	Fixed Links (23 GHz) (21.2 – 23.6 GHz)	Channelling plan for 23 GHz band in accordance with ITU-R Rec. F.637 latest version Annex 1
23.6-24 GHz EARTH EXPLORATION-SATELLITE (passive) RADIO ASTRONOMY SPACE RESEARCH (passive) 5.340	**23.6-24 GHz** EARTH EXPLORATION-SATELLITE (passive) RADIO ASTRONOMY SPACE RESEARCH (passive) 5.340	Radio astronomy (observation of ammonia and continuum observations) Passive Sensing	See section 5 for coordination with radio astronomy
24-24.05 GHz AMATEUR AMATEUR-SATELLITE 5.150	**24-24.05 GHz** AMATEUR AMATEUR-SATELLITE 5.150	Non-specific SRDs (24-24.25 GHz) ISM (24.0-24.25 GHz) SRD applications (24-24.25 GHz)	Radio Frequency Spectrum Regulations as amended (Annex B) (GG. No. 38641, 30 March 2015). Common international SRD band; see ITU-R Rec. SM.1896 latest version. The band 24.0-24.25 GHz is designated for ISM applications (5.150).
24.05-24.25 GHz RADIOLOCATION	**24.05-24.25 GHz** RADIOLOCATION	FDDA (24.05 – 24.25 GHz)	

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ITU Region 1 allocations and footnotes	South African allocations and footnotes	Typical Applications	Notes and Comments
Amateur Earth exploration-satellite (active) 5.150	Amateur Earth exploration-satellite (active) 5.150	SRDs (24-24.25 GHz) (Reservoir Level Probing Radar)	Radio Frequency Spectrum Regulations as amended (Annex B) (GG. No. 38641, 30 March 2015). The band 24.0-24.25 GHz is designated for ISM applications (5.150). Common international SRD band; see ITU-R Rec. SM.1896 ITU-R Report SM.2153-7 latest version applies
24.25-24.45 GHz FIXED MOBILE except aeronautical mobile 5.338A 5.532AB	**24.25-24.45 GHz** FIXED MOBILE except aeronautical mobile 5.338A 5.532AB NF9	Fixed links – 26 GHz (24.25-26.5 GHz) IMT (24.25 – 27.5 GHz)	Channelling plan for 26 GHz band in accordance with ITU-R Rec. F.748 latest version Annex 1 Temporary fixed links for ENG/OB Resolution 242 **(WRC-19)** Recommendation ITU-R M.1036-6 currently being updated and revised within the ITU-R (International Mobile Telecommunications (IMT)) RFSAP to be developed
24.45-24.65 GHz FIXED INTER-SATELLITE	**24.45-24.65 GHz** FIXED NF14 INTER-SATELLITE	Fixed links – 26 GHz (24.5-26.5 GHz) BFWA (24.5-26.5 GHz)	Channelling plan for 26 GHz band in accordance with ITU-R Rec. F.748 latest version Annex 1. Resolution 242 **(WRC-19)**

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ITU Region 1 allocations and footnotes	South African allocations and footnotes	Typical Applications	Notes and Comments
MOBILE except aeronautical mobile 5.338A 5.532AB	MOBILE except aeronautical mobile 5.338A 5.532AB NF9	IMT (24.25 – 27.5 GHz)	Recommendation ITU-R M.1036-6 currently being updated and revised within the ITU-R (International Mobile Telecommunications (IMT)) RFSAP to be developed
24.65-24.75 GHz FIXED FIXED-SATELLITE (Earth-to-space) 5.532B INTER-SATELLITE MOBILE except aeronautical mobile 5.338A 5.532AB	**24.65-24.75 GHz** FIXED NF14 FIXED-SATELLITE (Earth-to-space) 5.532B INTER-SATELLITE MOBILE except aeronautical mobile 5.338A 5.532AB NF9	Fixed links – 26 GHz (24.5-26.5 GHz) BFWA (24.5-26.5 GHz) IMT (24.25 – 27.5 GHz)	Channelling plan for 26 GHz band in accordance with ITU-R Rec. F.748 latest version Annex 1. Resolution 242 (WRC-19) Recommendation ITU-R M.1036-6 currently being updated and revised within the ITU-R (International Mobile Telecommunications (IMT)) RFSAP to be developed
24.75-25.25 GHz FIXED FIXED-SATELLITE (Earth-to-space) 5.532B MOBILE except aeronautical mobile 5.338A 5.532AB	**24.75-25.25 GHz** FIXED NF14 FIXED-SATELLITE (Earth-to-space) 5.532B MOBILE except aeronautical mobile 5.338A 5.532AB NF9	Fixed links - 26 GHz (24.5-26.5 GHz) BFWA (24.5-26.5 GHz) IMT (24.25 – 27.5 GHz)	Channelling plan for 26 GHz band in accordance with ITU-R Rec. F.748 latest version Annex 1. Resolution 242 **(WRC-19)** Recommendation ITU-R M.1036-6 currently being updated and revised within the ITU-R (International Mobile Telecommunications (IMT)) RFSAP to be developed

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ITU Region 1 allocations and footnotes	South African allocations and footnotes	Typical Applications	Notes and Comments
25.25-25.5 GHz	**25.25-25.5 GHz**		
FIXED 5.534A	FIXED NF14	Fixed Links (26 GHz) (24.5 – 26.5 GHz) BFWA (24.5-26.5 GHz	Channelling plan for 26 GHz band in accordance with ITU-R Rec. F.748 latest version Annex 1. Resolution 242 **(WRC-19)** Recommendation ITU-R M.1036-6 currently being updated and revised within the ITU-R
INTER-SATELLITE 5.536	INTER-SATELLITE (Earth exploration-satellite applications) 5.536 INTER-SATELLITE (space research applications) 5.536 INTER-SATELLITE (transmissions of data originating from industrial and medical activities in space)		
MOBILE 5.338A 5.532AB Standard frequency and time signal-satellite (Earth-to-space)	MOBILE 5.338A 5.532AB NF9 Standard frequency and time signal-satellite (Earth-to-space)	IMT (24.25 – 27.5 GHz)	(International Mobile Telecommunications (IMT)) RFSAP to be developed
25.5-27 GHz	**25.5-27 GHz**		
EARTH EXPLORATION-SATELLITE (space-to Earth) 5.536B	EARTH EXPLORATION-SATELLITE (space-to Earth) 5.536B	National Polar-Orbiting Operational Environment Satellite System (NPOESS) Fixed Links (26 GHz) (24.5 – 26.5 GHz) BFWA (24.5-26.5 GHz	Channelling plan for 26 GHz band in accordance with ITU-R Rec. F.748 latest version Annex 1. Resolution 242 **(WRC-19)** Recommendation ITU-R M.1036-6 currently being updated and revised within the ITU-R
FIXED 5.534A	FIXED NF14		
INTER-SATELLITE 5.536	INTER-SATELLITE (Earth exploration-satellite applications) 5.536 INTER-SATELLITE (space research applications) 5.536		

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ITU Region 1 allocations and footnotes	South African allocations and footnotes	Typical Applications	Notes and Comments
	INTER-SATELLITE (transmissions of data originating from industrial and medical activities in space)		
MOBILE 5.338A 5.532AB	MOBILE 5.338A 5.532AB NF9	IMT (24.25 – 27.5 GHz)	(International Mobile Telecommunications (IMT)) RFSAP to be developed
SPACE RESEARCH (space-to-Earth) 5.536C Standard frequency and time signal-satellite (Earth-to-space)	SPACE RESEARCH (space-to-Earth) 5.536C Standard frequency and time signal-satellite (Earth-to-space)		
5.536A	5.536A		
27-27.5 GHz	**27-27.5 GHz**		
FIXED INTER-SATELLITE 5.536	FIXED INTER-SATELLITE (Earth exploration-satellite applications) 5.536 INTER-SATELLITE (space research applications) 5.536 INTER-SATELLITE (transmissions of data originating from industrial and medical activities in space)	I	Recommendation ITU-R M.1036-6 currently being updated and revised within the ITU-R Resolution 242 (WRC-19)
MOBILE 5.338A 5.532AB	MOBILE 5.338A 5.532AB NF9	IMT (24.25 – 27.5 GHz)	(International Mobile Telecommunications (IMT)) RFSAP to be developed
27.5-28.5 GHz	**27.5-27.501 GHz**		
FIXED 5.537A	FIXED 5.537A NF14		

ITU Region 1 allocations and footnotes	South African allocations and footnotes	Typical Applications	Notes and Comments
FIXED-SATELLITE (Earth-to-space) 5.484A 5.516B 5.517A 5.517B 5.539 INTER-SATELLITE 5.521A MOBILE	FIXED-SATELLITE (Earth-to-space) 5.484A 5.516B 5.517A 5.517B 5.539 INTER-SATELLITE 5.521A FIXED-SATELLITE (space-to-Earth) MOBILE 5.538 5.540	Fixed Links (28 GHz) (27.5 – 29.5 GHz), Beacon transmission for up-link power control [HIGH-DENSITYAPPLICATIONS IN THE FSS (space-to-Earth)] ESIMS (under the FSS)	Channelling plan for 28 GHz band in accordance with ITU-R Rec. F.748 latest version Annex 2. The band 27.5-27.82 GHz is identified for HDFSS; Res.143 applies. The band 27.5-30 GHz may be used by the FSS for BSS feeder links. Resolution 169 (WRC-19) RFSAP to be developed.
	27.501-27.82 GHz FIXED 5.537A NF14 NF18 FIXED-SATELLITE (Earth-to-space) 5.484A 5.516B 5.517A 5.517B 5.539 INTER-SATELLITE 5.521A Fixed-satellite (space-to-Earth) MOBILE 5.538 5.540	Fixed Links (28 GHz) (27.5 – 29.5 GHz), Beacon transmission for up-link power control) HIGH-DENSITYAPPLICATIONS IN THE FSS (space-to-Earth)] ESIMS (under the FSS)	Channelling plan for 28 GHz band in accordance with ITU-R Rec. F.748 latest version Annex 2. The band 27.5-27.82 GHz is identified for HDFSS; Res.143 applies. The band 27.5-30 GHz may be used by the FSS for BSS feeder links. Resolution 169 (WRC-19) RFSAP to be developed.
	27.82-28.45 GHz		

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ITU Region 1 allocations and footnotes	South African allocations and footnotes	Typical Applications	Notes and Comments
	FIXED 5.537A NF14 FIXED-SATELLITE (Earth-to-space) 5.484A 5.516B 5.517A 5.517B 5.539 INTER-SATELLITE 5.521A Fixed-satellite (space-to-Earth) MOBILE 5.538 5.540	Fixed Links (28 GHz) (27.5 – 29.5 GHz), Beacon transmission for up-link power control) ESIMS (under the FSS)	Channelling plan for 28 GHz band in accordance with ITU-R Rec. F.748 latest version Annex 2. The band 27.5-27.82 GHz is identified for HDFSS; Res.143 applies. The band 27.5-30 GHz may be used by the FSS for BSS feeder links. RFSAP to be developed.
5.538 5.540	**28.45-28.5 GHz** FIXED 5.537A NF14 FIXED-SATELLITE (Earth-to-space) 5.484A 5.516B 5.517 5.517B 5.539 INTER-SATELLITE 5.521A Fixed-satellite (space-to-Earth) MOBILE 5.538 5.540	Fixed Links (28 GHz) (27.5 – 29.5 GHz) Beacon transmission for up-link power control) HIGH-DENSITYAPPLICATIONS IN THE FSS (space-to-Earth)] ESIMS (under the FSS)	Channelling plan for 28 GHz band in accordance with ITU-R Rec. F.748 latest version Annex 2. The band 27.5-27.82 GHz is identified for HDFSS; Res.143 applies. The band 27.5-30 GHz may be used by the FSS for BSS feeder links. RFSAP to be developed.
28.5-29.1 GHz FIXED	**28.5-28.94 GHz** FIXED NF14	Fixed Links (28 GHz) (27.5 – 29.5 GHz)	

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ITU Region 1 allocations and footnotes	South African allocations and footnotes	Typical Applications	Notes and Comments
FIXED-SATELLITE (Earth-to-space) 5.484A 5.516B 5.517A 5.517B 5.523A 5.539 INTER-SATELLITE 5.521A MOBILE Earth exploration-satellite (Earth-to-space) 5.541	FIXED-SATELLITE (Earth-to-space) 5.484A 5.516B 5.517A 5.517B 5.523A 5.539 INTER-SATELLITE 5.521A MOBILE Earth exploration-satellite (Earth-to-space) 5.541 Fixed-satellite (space-to-Earth) 5.540	Transfer of data between stations Beacon transmission for up-link power control) HIGH-DENSITYAPPLICATIONS IN THE FSS (space-to-Earth)] ESIMS (under the FSS)	Channelling plan for 28 GHz band in accordance with ITU-R Rec. F.748 latest version Annex 2. Resolution 169 (WRC-19) The band 28.45-28.94 GHz is identified for HDFSS; Res.143 applies. The band 27.5-30 GHz may be used by the FSS for BSS feeder links. RFSAP to be developed.
5.540	**28.94-29.1 GHz** FIXED NF14 FIXED-SATELLITE (Earth-to-space) 5.484A 5.516B 5.517A 5.523A 5.517B 5.539 INTER-SATELLITE 5.521A MOBILE Earth exploration-satellite (Earth-to-space) 5.541 Fixed-satellite (space-to-Earth) 5.540	Transfer of data between stations Beacon transmission for up-link power control ESIMS (under the FSS)	Channelling plan for 28 GHz band in accordance with ITU-R Rec. F.748 latest version Annex 2. Resolution 169 (WRC-19) RFSAP to be developed.
29.1-29.5 GHz	**29.1-29.46 GHz**		

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ITU Region 1 allocations and footnotes	South African allocations and footnotes	Typical Applications	Notes and Comments
FIXED FIXED-SATELLITE (Earth-to-space) 5.516B 5.517A 5.523C 5.523E 5.535A 5.539 5.541A INTER-SATELLITE 5.521A MOBILE Earth exploration-satellite (Earth-to-space) 5.541	FIXED NF14 FIXED-SATELLITE (Earth-to-space) 5.516B 5.517A 5.523C 5.523E 5.535A 5.539 5.541A INTER-SATELLITE 5.521A FIXED-SATELLITE (GSO) (Earth-to-space) MOBILE Earth exploration-satellite (Earth-to-space) 5.541 Fixed-satellite (space-to-Earth) 5.540	Fixed Links (28 GHz) (27.5 – 29.5 GHz) ESIMS (under the FSS) Feeder links of non-GSO-satellite systems in the MSS Transfer of data between stations Beacon transmission for up-link power control	Channelling plan for 28 GHz band in accordance with ITU-R Rec. F.748 latest version Annex 2. Resolution 169 (WRC-19) `RFSAP to be developed.
	29.46-29.5 FIXED NF14 FIXED-SATELLITE (Earth-to-space) 5.516B 5.517A 5.523C 5.523E 5.535A 5.539 5.541A INTER-SATELLITE 5.521A FIXED-SATELLITE (GSO) (Earth-to-space) MOBILE	ESIMS (under the FSS) Feeder links of non-GSO-satellite systems in the MSS Transfer of data between stations Beacon transmission for up-link power control HIGH-DENSITYAPPLICATIONS IN THE FSS (space-to-Earth)]	Channelling plan for 28 GHz band in accordance with ITU-R Rec. F.748 latest version Annex 2. Resolution 169 (WRC-19) RFSAP to be developed.

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ITU Region 1 allocations and footnotes	South African allocations and footnotes	Typical Applications	Notes and Comments
5.540	Earth exploration-satellite (Earth-to-space) 5.541 Fixed-satellite (space-to-Earth) 5.540		
29.5-29.9 GHz FIXED-SATELLITE (Earth-to-space) 5.484A 5.484B 5.516B 5.517B 5.527A 5.539 INTER-SATELLITE 5.521A Earth exploration-satellite (Earth-to-space) 5.541 Mobile-satellite (Earth-to-space) 5.540 5.542	**29.5-29.9 GHz** FIXED-SATELLITE (Earth-to-space) 5.484A 5.484B 5.516B 5.517B 5.527A 5.539 INTER-SATELLITE 5.521A Earth exploration-satellite (Earth-to-space) 5.541 Fixed-satellite (space-to-Earth) Mobile-satellite (Earth-to-space) 5.540	ESIMS (under the FSS) Transfer of data between stations Beacon transmission for up-link power control HIGH-DENSITYAPPLICATIONS IN THE FSS (space-to-Earth)]	The band 29.46-30.0 GHz is identified for HDFSS; Res.143 applies for HDFSS Res 156 (WRC-15) applies for ESIM
29.9-30 GHz FIXED-SATELLITE (Earth-to-space) 5.484A 5.484B 5.516B 5.517B 5.527A 5.539 INTER-SATELLITE 5.521AMOBILE-SATELLITE (Earth-to-space) Earth exploration-satellite (Earth-to-space) 5.541 5.543	**29.9-29.95 GHz** FIXED-SATELLITE (Earth-to-space) 5.484A 5.484B 5.516B 5.517B 5.527A 5.539 INTER-SATELLITE 5.521A MOBILE-SATELLITE (Earth-to-space) Earth exploration-satellite (Earth-to-space) 5.541 5.543 Fixed-satellite (space-to-Earth)	ESIMS (under the FSS) Transfer of data between stations Beacon transmission for up-link power control HIGH-DENSITYAPPLICATIONS IN THE FSS (space-to-Earth)]	The band 29.46-30.0 GHz is identified for HDFSS; Res.143 applies for HDFSS Res 156 (WRC-15) applies for ESIM

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ITU Region 1 allocations and footnotes	South African allocations and footnotes	Typical Applications	Notes and Comments
	5.525 5.526 5.527 5.538 5.540		
	29.95-29.999 GHz FIXED-SATELLITE (Earth-to-space) 5.484A 5.484B 5.516B 5.527A 5.517B 5.539 INTER-SATELLITE 5.521A MOBILE-SATELLITE (Earth-to-space) Earth exploration-satellite (Earth-to-space) 5.541 5.543 Earth exploration-satellite (space-to-space) Fixed-satellite (space-to-Earth) 5.525 5.526 5.527 5.538 5.540	ESIMS (under the FSS) Transfer of data between stations Telemetry, tracking and control Beacon transmission for up-link power control HIGH-DENSITYAPPLICATIONS IN THE FSS (space-to-Earth)]	The band 29.46-30.0 GHz is identified for HDFSS; Res.143 applies for HDFSS Res 156 (WRC-15) applies for ESIM
	29.999-30 GHz FIXED-SATELLITE (Earth-to-space) 5.484A 5.484B 5.516B 5.527A 5.517B 5.539 INTER-SATELLITE 5.521A FIXED-SATELLITE (space-to-Earth) MOBILE-SATELLITE (Earth-to-space) Earth exploration-satellite (Earth-to-space) 5.541 5.543	ESIMS (under the FSS) Beacon transmission for up-link power control Transfer of data between stations Telemetry, tracking and control HIGH-DENSITYAPPLICATIONS IN THE FSS (space-to-Earth)]	The band 29.46-30.0 GHz is identified for HDFSS; Res.143 applies for HDFSS Res 156 (WRC-15) applies for ESIM

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ITU Region 1 allocations and footnotes	South African allocations and footnotes	Typical Applications	Notes and Comments
5.525 5.526 5.527 5.538 5.540 5.542	Earth exploration-satellite (space-to-space) 5.525 5.526 5.527 5.538 5.540		
30-31 GHz FIXED-SATELLITE (Earth-to-space) 5.338A MOBILE-SATELLITE (Earth-to-space) Standard frequency and time signal-satellite (space-to-Earth) 5.529A 5.542	**30-31 GHz** FIXED-SATELLITE (Earth-to-space) 5.338A MOBILE-SATELLITE (Earth-to-space) Standard frequency and time signal-satellite (space-to-Earth) 5.529A		
31-31.3 GHz FIXED 5.338A 5.543B MOBILE Standard frequency and time signal-satellite (space-to-Earth) Space research 5.544 5.545 5.149	**31-31.3 GHz** FIXED 5.338A 5.543B MOBILE Standard frequency and time signal-satellite (space-to-Earth) Space research 5.544 5.149	[FIXED (HAPS)] Fixed Links Fixed satellite links Radio astronomy (Continuum Observations)	Paired with 27.5 – 28.35 GHz (base station to subscriber) Resolution 167 (WRC-19) See section 5 for coordination with radio astronomy
31.3-31.5 GHz	**31.3-31.5 GHz**		

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ITU Region 1 allocations and footnotes	South African allocations and footnotes	Typical Applications	Notes and Comments
EARTH EXPLORATION-SATELLITE (passive) RADIO ASTRONOMY SPACE RESEARCH (passive) 5.340	EARTH EXPLORATION-SATELLITE (passive) RADIO ASTRONOMY SPACE RESEARCH (passive) 5.340	Radio astronomy (Continuum Observations)	Radio astronomy (Continuum Observations)
31.5-31.8 GHz EARTH EXPLORATION-SATELLITE (passive) RADIO ASTRONOMY SPACE RESEARCH (passive) Fixed Mobile except aeronautical mobile 5.149 5.546	**31.5-31.8 GHz** EARTH EXPLORATION-SATELLITE (passive) RADIO ASTRONOMY SPACE RESEARCH (passive) Fixed 5.546 Mobile except aeronautical mobile 5.546 5.149	Radio astronomy (Continuum Observations) Passive Sensing	Radio astronomy (Continuum Observations)
31.8-32 GHz FIXED 5.547A RADIONAVIGATION SPACE RESEARCH (deep space) (space-to-Earth) 5.547 5.547B 5.548	**31.8-32 GHz** FIXED 5.547A NF14 RADIONAVIGATION SPACE RESEARCH (deep space) (space-to-Earth) 5.547 5.548	HDFS (31.8 – 33.4 GHz)	Channelling plan for 32 GHz band in accordance with ITU-R Rec. F.1520 latest version Annex 1. The band 31.8-33.4 GHz is identified for HDFS; Res.75 applies.
32-32.3 GHz	**32-32.3 GHz**		

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ITU Region 1 allocations and footnotes	South African allocations and footnotes	Typical Applications	Notes and Comments
FIXED 5.547A RADIONAVIGATION SPACE RESEARCH (deep space) (space-to-Earth) 5.547 5.547C 5.548	FIXED 5.547A NF14 RADIONAVIGATION SPACE RESEARCH (deep space) (space-to-Earth) 5.547 5.548	HDFS (31.8 – 33.4 GHz)	Channelling plan for 32 GHz band in accordance with ITU-R Rec. F.1520 latest version Annex 1. The band 31.8-33.4 GHz is identified for HDFS; Res.75 applies.
32.3-33 GHz FIXED 5.547A INTER-SATELLITE RADIONAVIGATION 5.547 5.547D 5.548	**32.3-33 GHz** FIXED 5.547A NF14 INTER-SATELLITE RADIONAVIGATION 5.547 5.548	HDFS (31.8 – 33.4 GHz)	Channelling plan for 32 GHz band in accordance with ITU-R Rec. F.1520 latest version Annex 1. The band 31.8-33.4 GHz is identified for HDFS; Res.75 applies.
33-33.4 GHz FIXED 5.547A RADIONAVIGATION 5.547 5.547E	**33-33.4 GHz** FIXED 5.547A NF14 RADIONAVIGATION 5.547	HDFS (31.8 – 33.4 GHz)	Channelling plan for 32 GHz band in accordance with ITU-R Rec. F.1520 latest version Annex 1. The band 31.8-33.4 GHz is identified for HDFS; Res.75 applies.
33.4-34.2 GHz RADIOLOCATION 5.549	**33.4-34.2 GHz** RADIOLOCATION	Government Services	
34.2-34.7 GHz	**34.2-34.7 GHz**		

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ITU Region 1 allocations and footnotes	South African allocations and footnotes	Typical Applications	Notes and Comments
RADIOLOCATION SPACE RESEARCH (deep space) (Earth-to-space) 5.549	RADIOLOCATION SPACE RESEARCH (deep space) (Earth-to-space)	Government Services	
34.7-35.2 GHz RADIOLOCATION Space research 5.550 5.549	**34.7-35.2 GHz** RADIOLOCATION Space research	Government Services	
35.2-35.5 GHz METEOROLOGICAL AIDS RADIOLOCATION 5.549	**35.2-35.5 GHz** METEOROLOGICAL AIDS RADIOLOCATION	Government Services	
35.5-36 GHz METEOROLOGICAL AIDS EARTH EXPLORATION-SATELLITE (active) RADIOLOCATION SPACE RESEARCH (active) 5.549 5.549A	**35.5-36 GHz** METEOROLOGICAL AIDS EARTH EXPLORATION-SATELLITE (active) RADIOLOCATION SPACE RESEARCH (active) 5.549A	Government Services	
36-37 GHz EARTH EXPLORATION-SATELLITE (passive) FIXED	**36-37 GHz** EARTH EXPLORATION-SATELLITE (passive) FIXED	Government Services Passive Sensing	

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ITU Region 1 allocations and footnotes	South African allocations and footnotes	Typical Applications	Notes and Comments
MOBILE SPACE RESEARCH (passive) 5.149 5.550A	MOBILE SPACE RESEARCH (passive) 5.149 5.550A	Radio astronomy (HC3N and OH lines)	See section 5 for coordination with radio astronomy
37-37.5 GHz FIXED MOBILE except aeronautical mobile 5.550B SPACE RESEARCH (space-to-Earth) 5.547	**37-37.5 GHz** FIXED NF14 MOBILE except aeronautical mobile 5.550B SPACE RESEARCH (space-to-Earth) 5.547	Fixed Links (38 GHz) (37.0 – 39.5 GHz) IMT	Resolution **243 (WRC-19)** Recommendation ITU-R M.1036-6 currently being updated and revised within the ITU-R (International Mobile Telecommunications (IMT)) RFSAP to be developed
37.5-38 GHz FIXED FIXED-SATELLITE (space-to-Earth) 5.550C 5.550CA MOBILE except aeronautical mobile 5.550B SPACE RESEARCH (space-to-Earth) Earth exploration-satellite (space-to-Earth)	**37.5-38 GHz** FIXED NF14 FIXED-SATELLITE (space-to-Earth) 5.550C 5.550CA MOBILE except aeronautical mobile 5.550B SPACE RESEARCH (space-to-Earth) Earth exploration-satellite (space-to-Earth)	Fixed Links (38 GHz) (37.0 – 39.5 GHz) IMT	The band 37-40 GHz is identified for HDFS; Res.75 applies. Resolution **770 (WRC-19)** Resolution **243 (WRC-19)** Channelling plan for 38 GHz band in accordance with ITU Rec. F.749 Annex 1. Recommendation ITU-R M.1036-6 currently being updated and revised within the ITU-R (International Mobile Telecommunications (IMT)) RFSAP to be developed

ITU Region 1 allocations and footnotes	South African allocations and footnotes	Typical Applications	Notes and Comments
5.547	5.547		
38-39.5 GHz FIXED 5.550D FIXED-SATELLITE (space-to-Earth) 5.550C MOBILE 5.550B Earth exploration-satellite (space-to-Earth) 5.547	**38-39.5 GHz** FIXED 5.550D NF14 FIXED-SATELLITE (space-to-Earth) 5.550C MOBILE 5.550B Earth exploration-satellite (space-to-Earth) 5.547	Fixed Links (38 GHz) (37.0 – 39.5 GHz) [FIXED (HAPS)] IMT (37-43.5 GHz)	Channelling plan for 38 GHz band in accordance with ITU Rec. F.749 Annex 1. The band 37-40 GHz is identified for HDFS; Res.75 applies. Resolution **770 (WRC-19)** Resolution **243 (WRC-19)** Recommendation ITU-R M.1036-6 currently being updated and revised within the ITU-R (International Mobile Telecommunications (IMT)) RFSAP to be developed
39.5-40 GHz FIXED FIXED-SATELLITE (space-to-Earth) 5.516B 5.550C MOBILE 5.550B MOBILE-SATELLITE (space-to-Earth) Earth exploration-satellite (space-to-Earth)	**39.5-40 GHz** FIXED FIXED-SATELLITE (space-to-Earth) 5.516B 5.550C MOBILE 5.550B MOBILE-SATELLITE (space-to-Earth) Earth exploration-satellite (space-to-Earth)	HIGH-DENSITY APPLICATIONS IN THE FSS (space-to-Earth)] IMT (37-43.5 GHz) Fixed links	Resolution **770 (WRC-19)** Resolution **243 (WRC-19)** The band 37-40 GHz is identified for HDFS; Res.75 applies. The band 39.5-40 GHz is identified for HDFSS; Res.143 applies. Recommendation ITU-R M.1036-6 currently being updated and revised within the ITU-R International Mobile Telecommunications (IMT))

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ITU Region 1 allocations and footnotes	South African allocations and footnotes	Typical Applications	Notes and Comments
5.547 5.550E	5.547 5.550E		RFSAP to be developed
40-40.5 GHz EARTH EXPLORATION-SATELLITE (Earth-to-space) FIXED FIXED-SATELLITE (space-to-Earth) 5.516B 5.550C MOBILE 5.550B MOBILE-SATELLITE (space-to-Earth) SPACE RESEARCH (Earth-to-space) Earth exploration-satellite (space-to-Earth) 5.550E	**40-40.5 GHz** EARTH EXPLORATION-SATELLITE (Earth-to-space) FIXED FIXED-SATELLITE (space-to-Earth) 5.516B 5.550C MOBILE 5.550B MOBILE-SATELLITE (space-to-Earth) SPACE RESEARCH (Earth-to-space) Earth exploration-satellite (space-to-Earth) 5.550E	Government Services HIGH-DENSITYAPPLICATIONS IN THE FSS (space-to-Earth)] IMT (37-43.5 GHz)	The band 40-40.5 GHz is identified for HDFSS; Res.143 applies. Resolution **770 (WRC-19)** Resolution **243 (WRC-19)** Recommendation ITU-R M.1036-6 currently being updated and revised within the ITU-R (International Mobile Telecommunications (IMT)) RFSAP to be developed
40.5-41 GHz FIXED FIXED-SATELLITE (space-to-Earth) 5.550C BROADCASTING BROADCASTING-SATELLITE LAND MOBILE 5.550B Aeronautical mobile Maritime mobile	**40.5-41 GHz** FIXED NF14 FIXED-SATELLITE (space-to-Earth) 5.550C BROADCASTING BROADCASTING-SATELLITE LAND MOBILE 5.550B Aeronautical mobile Maritime mobile	Fixed links (40.5 – 43.5 GHz) IMT (37-43.5 GHz)	Resolution **770 (WRC-19** BFWA or MWS (40.5-43.5 GHz). The band 40.5-43.5 GHz is identified for HDFS; Res.75 applies. Resolution **243 (WRC-19)** Recommendation ITU-R M.1036-6 currently being updated and revised within the ITU-R (International Mobile Telecommunications (IMT))

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ITU Region 1 allocations and footnotes	South African allocations and footnotes	Typical Applications	Notes and Comments
5.547	5.547		RFSAP to be developed
41-42.5 GHz FIXED FIXED-SATELLITE (space-to-Earth) 5.516B 5.550C BROADCASTING BROADCASTING-SATELLITE LAND MOBILE 5.550B Aeronautical mobile Maritime mobile 5.547 5.551F 5.551H 5.551I	**41-42.5 GHz** FIXED NF14 FIXED-SATELLITE (space-to-Earth) 5.516B 5.550C BROADCASTING BROADCASTING-SATELLITE LAND MOBILE 5.550B Aeronautical mobile Maritime mobile 5.547 5.551H 5.551I	Fixed links (40.5 – 43.5 GHz) IMT (37-43.5 GHz)	Resolution **143 (WRC-19** Resolution **770 (WRC-19** BFWA or MWS (40.5-43.5 GHz). The band 40.5-43.5 GHz is identified for HDFS; Res.75 applies. Recommendation ITU-R M.1036-6 currently being updated and revised within the ITU-R (International Mobile Telecommunications (IMT)) RFSAP to be developed
42.5-43.5 GHz FIXED FIXED-SATELLITE (Earth-to-space) 5.552 MOBILE except aeronautical mobile 5.550B	**42.5-43.5 GHz** FIXED NF14 FIXED-SATELLITE (Earth-to-space) 5.552 MOBILE except aeronautical mobile 5.550B	Fixed links (40.5 – 43.5 GHz) IMT (37-43.5 GHz) Government Services (43.5-45.5 GHz)	BFWA or MWS (40.5-43.5 GHz). The band 40.5-43.5 GHz is identified for HDFS; Res.75 applies. Resolution **243 (WRC-19** Recommendation ITU-R M.1036-6 currently being updated and revised within the ITU-R

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ITU Region 1 allocations and footnotes	South African allocations and footnotes	Typical Applications	Notes and Comments
RADIO ASTRONOMY 5.149 5.547	RADIO ASTRONOMY 5.149 5.547	Radio astronomy (Observation of silicon monoxide)	(International Mobile Telecommunications (IMT)) RFSAP to be developed See section 5 for coordination with radio astronomy
43.5-47 GHz MOBILE 5.553 5.553A MOBILE-SATELLITE RADIONAVIGATION RADIONAVIGATION-SATELLITE 5.554	**43.5-45.5 GHz** **MOBILE 5.553 5.553A** MOBILE-SATELLITE RADIONAVIGATION RADIONAVIGATION-SATELLITE 5.554		
	45.5-47 GHz **MOBILE 5.553** 5.553A MOBILE-SATELLITE RADIONAVIGATION RADIONAVIGATION-SATELLITE 5.554	IMT	Resolution **244 (WRC-19** Recommendation ITU-R M.1036-6 currently being updated and revised within the ITU-R (International Mobile Telecommunications (IMT)) RFSAP to be developed
47-47.2 GHz AMATEUR AMATEUR-SATELLITE	**47-47.2 GHz** AMATEUR AMATEUR-SATELLITE	Amateur Amateur satellite	

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ITU Region 1 allocations and footnotes	South African allocations and footnotes	Typical Applications	Notes and Comments
47.2-47.5 GHz FIXED FIXED-SATELLITE (Earth-to-space) 5.550C 5.552 MOBILE 5.553B 5.552A	**47.2-47.5 GHz** FIXED FIXED-SATELLITE (Earth-to-space) 5.550C 5.552 MOBILE 5.553B 5.552A	[FIXED (HAPS)] IMT	Resolution **770 (WRC-19)** Resolution **243 (WRC-19)** Recommendation ITU-R M.1036-6 currently being updated and revised within the ITU-R (International Mobile Telecommunications (IMT)) RFSAP to be developed
47.5-47.9 GHz FIXED FIXED-SATELLITE (Earth-to-space) 5.550C 5.552 (space-to-Earth) 5.516B 5.554A MOBILE 5.553B	**47.5-47.9 GHz** FIXED FIXED-SATELLITE (Earth-to-space) 5.550C 5.552 (GSO) (space-to-Earth) 5.516B 5.554A MOBILE 5.553B	The band 47.5-47.9 GHz is identified for HDFSS; Res.143 applies. HIGH-DENSITYAPPLICATIONS IN THE FSS (space-to-Earth)] IMT	Resolution **770 (WRC-19)** Resolution **243 (WRC-19)** Recommendation ITU-R M.1036-6 currently being updated and revised within the ITU-R (International Mobile Telecommunications (IMT)) RFSAP to be developed
47.9-48.2 GHz FIXED FIXED-SATELLITE (Earth-to-space) 5.550C 5.552 MOBILE 5.553B	**47.9-48.2 GHz** FIXED FIXED-SATELLITE (Earth-to-space) 5.550C 5.552 MOBILE 5.553B	[FIXED (HAPS)] IMT	Resolution **770 (WRC-19)** Resolution **243 (WRC-19)** Recommendation ITU-R M.1036-6 currently being updated and revised within the ITU-R (International Mobile Telecommunications (IMT))

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ITU Region 1 allocations and footnotes	South African allocations and footnotes	Typical Applications	Notes and Comments
5.552A	5.552A		RFSAP to be developed
48.2-48.54 GHz FIXED FIXED-SATELLITE (Earth-to-space) 5.550C 5.552 (space-to-Earth) 5.516B 5.554A 5.555B MOBILE	**48.2-48.54 GHz** FIXED FIXED-SATELLITE (Earth-to-space) 5.550C 5.552 (GSO) (space-to-Earth) 5.516B 5.554A 5.555B MOBILE	HIGH-DENSITYAPPLICATIONS IN THE FSS (space-to-Earth)]	The band 48.2-48.54 GHz is identified for HDFSS; Res.143 applies. Resolution **770 (WRC-19** Recommendation ITU-R M.1036-6 currently being up dated and revised within the ITU-R
48.54-49.44 GHz FIXED FIXED-SATELLITE (Earth-to-space) 5.550C 5.552 MOBILE	**48.54-48.94 GHz** FIXED FIXED-SATELLITE (Earth-to-space) 5.550C 5.552 MOBILE 5.149 5.340 5.555		Resolution 770 (WRC-19
	48.94-49.04 GHz FIXED FIXED-SATELLITE (Earth-to-space) 5.550C 5.552 MOBILE RADIO ASTRONOMY 5.149 5.340 5.555	Radio astronomy (diatomic molecules and other molecules)	See section 5 for coordination with radio astronomy

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ITU Region 1 allocations and footnotes	South African allocations and footnotes	Typical Applications	Notes and Comments
5.149 5.340 5.555	**49.04-49.44 GHz** FIXED FIXED-SATELLITE (Earth-to-space) 5.550C 5.552 MOBILE 5.149 5.340 5.555		Resolution **770 (WRC-19**
49.44-50.2 GHz FIXED FIXED-SATELLITE (Earth-to-space) 5.338A 5.550C 5.552 (space-to-Earth) 5.516B 5.554A 5.555B MOBILE	**49.44-50.2 GHz** FIXED FIXED-SATELLITE (Earth-to-space) 5.338A 5.550C 5.552 (GSO) (space-to-Earth) 5.516B 5.554A 5.555B MOBILE	HIGH-DENSITYAPPLICATIONS IN THE FSS (space-to-Earth)]	Resolution **770 (WRC-19** The band 49.44-50.2 GHz is identified for HDFSS; Res.143 applies.
50.2-50.4 GHz EARTH EXPLORATION-SATELLITE (passive) SPACE RESEARCH (passive) 5.340	**50.2-50.4 GHz** EARTH EXPLORATION-SATELLITE (passive) SPACE RESEARCH (passive) 5.340		
50.4-51.4 GHz FIXED	**50.4-51.4 GHz** FIXED	Fixed links	Resolution **770 (WRC-19**

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ITU Region 1 allocations and footnotes	South African allocations and footnotes	Typical Applications	Notes and Comments
FIXED-SATELLITE (Earth-to-space) 5.338A 5.550C MOBILE Mobile-satellite (Earth-to-space)	FIXED-SATELLITE (Earth-to-space) 5.338A 5.550C MOBILE Mobile-satellite (Earth-to-space)		
51.4-52.4 GHz FIXED FIXED-SATELLITE (Earth-to-space) 5.555C MOBILE 5.338A 5.547 5.556	**51.4-52.4 GHz** FIXED 5.338A FIXED-SATELLITE (GSO) (Earth-to-space) 5.555CMOBILE 5.547 5.556		The band 51.4-52.6 GHz is identified for HDFS; Res.75 applies.
52.4-52.6 GHz FIXED 5.338A MOBILE 5.547 5.556	**52.4-52.6 GHz** FIXED 5.338A MOBILE 5.547 5.556		
52.6-54.25 GHz EARTH EXPLORATION-SATELLITE (passive) SPACE RESEARCH (passive) 5.340 5.556	**52.6-54.25 GHz** EARTH EXPLORATION-SATELLITE (passive) SPACE RESEARCH (passive) 5.340 5.556	Passive Sensing (53.6 – 59.3 GHz)	
54.25-55.78 GHz	**54.25-55.78 GHz**		

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ITU Region 1 allocations and footnotes	South African allocations and footnotes	Typical Applications	Notes and Comments
EARTH EXPLORATION-SATELLITE (passive) INTER-SATELLITE 5.556A SPACE RESEARCH (passive) 5.556B	EARTH EXPLORATION-SATELLITE (passive) INTER-SATELLITE (GSO) 5.556A SPACE RESEARCH (passive)	Passive Sensing (53.6 – 59.3 GHz)	
55.78-56.9 GHz EARTH EXPLORATION-SATELLITE (passive) FIXED 5.557A INTER-SATELLITE 5.556A MOBILE 5.558 SPACE RESEARCH (passive) 5.547 5.557	**55.78-56.9 GHz** EARTH EXPLORATION-SATELLITE (passive) FIXED 5.557A NF14 INTER-SATELLITE (GSO) 5.556A MOBILE 5.558 SPACE RESEARCH (passive) 5.547	Passive Sensing (53.6 – 59.3 GHz)	The band 55.78-59 GHz is identified for HDFS; Res.75 applies.
56.9-57 GHz EARTH EXPLORATION-SATELLITE (passive) FIXED INTER-SATELLITE 5.558A MOBILE 5.558 SPACE RESEARCH (passive) 5.547 5.557	**56.9-57 GHz** EARTH EXPLORATION-SATELLITE (passive) FIXED NF14 INTER-SATELLITE (GSO) 5.558A INTER-SATELLITE (non-GSO) MOBILE 5.558 SPACE RESEARCH (passive) 5.547	Passive Sensing (53.6 – 59.3 GHz) Transmission from HEO to LEO	The band 55.78-59 GHz is identified for HDFS; Res.75 applies.
57-58.2 GHz	**57-58.2 GHz**		

ITU Region 1 allocations and footnotes	South African allocations and footnotes	Typical Applications	Notes and Comments
EARTH EXPLORATION-SATELLITE (passive) FIXED INTER-SATELLITE 5.556A MOBILE 5.558 SPACE RESEARCH (passive) 5.547 5.557	EARTH EXPLORATION-SATELLITE (passive) FIXED NF14 INTER-SATELLITE (GSO) 5.556A MOBILE 5.558 SPACE RESEARCH (passive) 5.547	Passive Sensing (53.6 – 59.3 GHz) Fixed links Multiple GIGABIT wireless systems WAS/RLAN SRD applications (57 – 64 GHz)	The band 55.78-59 GHz is identified for HDFS; Res.75 applies. Radio Frequency Spectrum Regulations Amendments, (Government Gazette Number 40436, 22 November 2016). ITU-R Recommendation M.2003 latest version ("Multiple Gigabit Wireless Systems in frequencies around 60 GHz") Amendment to the Radio Frequency Spectrum Regulations, 2015 Government Gazette 40436 (Notice 781 of 2016)
58.2-59 GHz EARTH EXPLORATION-SATELLITE (passive) FIXED MOBILE SPACE RESEARCH (passive)	**58.2-59 GHz** EARTH EXPLORATION-SATELLITE (passive) FIXED NF14 MOBILE SPACE RESEARCH (passive)	Multiple GIGABIT wireless systems WAS/RLAN Passive Sensing (53.6 – 59.3 GHz)	The band 55.78-59 GHz is identified for HDFS; Res.75 applies. Radio Frequency Spectrum Regulations Amendments, (Government Gazette Number 40436, 22 November 2016. ITU-R Recommendation M.2003 latest version ("Multiple Gigabit Wireless Systems in frequencies around 60 GHz") Amendment to the Radio Frequency Spectrum Regulations, 2015

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ITU Region 1 allocations and footnotes	South African allocations and footnotes	Typical Applications	Notes and Comments
5.547 5.556	5.547 5.556		Government Gazette 40436 (Notice 781 of 2016)
59-59.3 GHz EARTH EXPLORATION-SATELLITE (passive) FIXED INTER-SATELLITE 5.556A MOBILE 5.558 RADIOLOCATION 5.559 SPACE RESEARCH (passive)	**59-59.3 GHz** EARTH EXPLORATION-SATELLITE (passive) FIXED INTER-SATELLITE (GSO) 5.556A MOBILE 5.558 RADIOLOCATION 5.559 SPACE RESEARCH (passive)	Multiple GIGABIT wireless systems WAS/RLAN Passive Sensing (53.6 – 59.3 GHz)	Radio Frequency Spectrum Regulations Amendments, (Government Gazette Number 40436, 22 November 2016 ITU-R Recommendation M.2003 latest version ("Multiple Gigabit Wireless Systems in frequencies around 60 GHz") Amendment to the Radio Frequency Spectrum Regulations, 2015 Government Gazette 40436 (Notice 781 of 2016)
59.3-64 GHz FIXED INTER-SATELLITE MOBILE 5.558 RADIOLOCATION 5.559	**59.3-64 GHz** FIXED INTER-SATELLITE MOBILE 5.558 RADIOLOCATION 5.559	Multiple GIGABIT wireless systems WAS/RLAN SRD applications (57 – 64 GHz) Government Services	Radio Frequency Spectrum Regulations Amendments (Government Gazette Number 40436, 22 November 2016 The band 61-61.5 GHz is designated for ISM applications (5.138). The band 59 - 61 GHz reserved for government use. Common international SRD band; see ITU-R RecSM. 1896

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ITU Region 1 allocations and footnotes	South African allocations and footnotes	Typical Applications	Notes and Comments
5.138	5.138		ITU-R Recommendation M.2003 latest version ("Multiple Gigabit Wireless Systems in frequencies around 60 GHz") Amendment to the Radio Frequency Spectrum Regulations, 2015 Government Gazette 40436 (Notice 781 of 2016)
64-65 GHz FIXED INTER-SATELLITE MOBILE except aeronautical mobile 5.547 5.556	**64-65 GHz** FIXED INTER-SATELLITE MOBILE except aeronautical mobile 5.547 5.556		The band 64-66 GHz is identified for HDFS; Res.75 applies. Radio Frequency Spectrum Regulations Amendments (Government Gazette Number 40436, 22 November 2016. ITU-R Recommendation M.2003 latest version ("Multiple Gigabit Wireless Systems in frequencies around 60 GHz") Amendment to the Radio Frequency Spectrum Regulations, 2015 Government Gazette 40436 (Notice 781 of 2016)
65-66 GHz EARTH EXPLORATION-SATELLITE	**65-66 GHz** EARTH EXPLORATION-SATELLITE	Multiple GIGABIT wireless systems WAS/RLAN	The band 64-66 GHz is identified for HDFS; Res.75 applies.

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ITU Region 1 allocations and footnotes	South African allocations and footnotes	Typical Applications	Notes and Comments
FIXED INTER-SATELLITE MOBILE except aeronautical mobile SPACE RESEARCH 5.547	FIXED INTER-SATELLITE MOBILE except aeronautical mobile SPACE RESEARCH 5.547		Radio Frequency Spectrum Regulations Amendments (Government Gazette Number 40436, 22 November 2016 ITU-R Recommendation M.2003 latest version ("Multiple Gigabit Wireless Systems in frequencies around 60 GHz") Amendment to the Radio Frequency Spectrum Regulations, 2015 Government Gazette 40436 (Notice 781 of 2016)
66-71 GHz **INTER-SATELLITE** MOBILE 5.553 5.558 5.559AA MOBILE-SATELLITE RADIONAVIGATION RADIONAVIGATION-SATELLITE 5.554	**66-71 GHz** INTER-SATELLITE MOBILE 5.553 5.558 5.559AA MOBILE-SATELLITE RADIONAVIGATION RADIONAVIGATION-SATELLITE 5.554	IMT	Resolution **241 (WRC-19** Recommendation ITU-R M.1036-6 latest version currently being updated revied within the ITU-R (International Mobile Telecommunications (IMT)) RFSAP to be developed. Amendment to the Radio Frequency Spectrum Regulations, 2015 Government Gazette 40436 (Notice 781 of 2016)
71-74 GHz FIXED	**71-74 GHz** FIXED NF14	Fixed Links (80 GHz) (71 – 76 GHz)	Paired with 81 – 86 GHz.

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ITU Region 1 allocations and footnotes	South African allocations and footnotes	Typical Applications	Notes and Comments
FIXED-SATELLITE (space-to-Earth) MOBILE MOBILE-SATELLITE (space-to-Earth)	FIXED-SATELLITE (space-to-Earth) MOBILE MOBILE-SATELLITE (space-to-Earth)	Government use Fixed links (71-76 GHz)	Radio Frequency Spectrum Regulations Amendments (Government Gazette Number 40436, 22 November 2016)
74-76 GHz FIXED FIXED-SATELLITE (space-to-Earth) MOBILE BROADCASTING BROADCASTING-SATELLITE Space research (space-to-Earth) 5.561	**74-76 GHz** FIXED NF14 FIXED-SATELLITE (space-to-Earth) MOBILE BROADCASTING BROADCASTING-SATELLITE Space research (space-to-Earth) 5.561	Fixed Links (80 GHz) (71 – 76 GHz)	Paired with 81 – 86 GHz. Radio Frequency Spectrum Regulations Amendments (Government Gazette Number 40436, 22 November 2016)
76-77.5 GHz RADIO ASTRONOMY RADIOLOCATION Amateur Amateur-satellite Space research (space-to-Earth) 5.149	**76-77.5 GHz** RADIO ASTRONOMY RADIOLOCATION Amateur Amateur-satellite Space research (space-to-Earth) 5.149	RTTT (76 – 77 GHz) SRD - Road Transport and Traffic Telematics Radar (76 – 77 GHz)	Radio Frequency Spectrum Regulations as amended (Annex B) (GG. No. 38641, 30 March 2015). Common international SRD band; see ITU-R Rec. SM.1896 and Rec. M.1452 latest version applies.
77.5-78 GHz AMATEUR AMATEUR-SATELLITE RADIOLOCATION 5.559B	**77.5-78 GHz** AMATEUR AMATEUR-SATELLITE RADIOLOCATION 5.559B		

ITU Region 1 allocations and footnotes	South African allocations and footnotes	Typical Applications	Notes and Comments
Radio astronomy Space research (space-to-Earth) 5.149	Radio astronomy Space research (space-to-Earth) 5.149	Short-range radars from ground-based applications, including automotive radars	
78-79 GHz RADIOLOCATION Amateur Amateur-satellite Radio astronomy Space research (space-to-Earth) 5.149 5.560	**78-79 GHz** RADIOLOCATION Amateur Amateur-satellite Radio astronomy Space research (space-to-Earth) 5.149 5.560		
79-81 GHz RADIO ASTRONOMY RADIOLOCATION Amateur Amateur-satellite Space research (space-to-Earth) 5.149	**79-81 GHz** RADIO ASTRONOMY RADIOLOCATION Amateur Amateur-satellite Space research (space-to-Earth) 5.149		
81-84 GHz FIXED 5.338A FIXED-SATELLITE (Earth-to-space)	**81-81.5 GHz** FIXED 5.338A NF14 FIXED-SATELLITE (Earth-to-space)	Fixed Links (80 GHz) (81 –86 GHz)	Paired with 71 – 76 GHz.

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ITU Region 1 allocations and footnotes	South African allocations and footnotes	Typical Applications	Notes and Comments
MOBILE MOBILE-SATELLITE (Earth-to-space) RADIO ASTRONOMY Space research (space-to-Earth)	MOBILE MOBILE-SATELLITE (Earth-to-space) RADIO ASTRONOMY Amateur Amateur-satellite Space research (space-to-Earth) 5.149 5.561A		Radio Frequency Spectrum Regulations Amendments (Government Gazette Number 40436, 22 November 2016)
	81.5-84 GHz FIXED 5.338A NF14 FIXED-SATELLITE (Earth-to-space) MOBILE MOBILE-SATELLITE (Earth-to-space) RADIO ASTRONOMY Space research (space-to-Earth) 5.149 5.561A	Fixed Links (80 GHz) (81 –86 GHz)	Paired with 71 – 76 GHz. Radio Frequency Spectrum Regulations Amendments (Government Gazette Number 40436, 22 November 2016)
84-86 GHz FIXED 5.338A FIXED-SATELLITE (Earth-to-space) 5.561B MOBILE	**84-86 GHz** FIXED 5.338A NF14 FIXED-SATELLITE (Earth-to-space) 5.561B MOBILE	Fixed Links (80 GHz) (81 –86 GHz)	Radio Frequency Spectrum Regulations Amendments (Government Gazette Number 40436, 22 November 2016)

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ITU Region 1 allocations and footnotes	South African allocations and footnotes	Typical Applications	Notes and Comments
RADIO ASTRONOMY 5.149	RADIO ASTRONOMY 5.149		
86-92 GHz EARTH EXPLORATION-SATELLITE (passive) RADIO ASTRONOMY SPACE RESEARCH (passive) 5.340	**86-92 GHz** EARTH EXPLORATION-SATELLITE (passive) RADIO ASTRONOMY SPACE RESEARCH (passive) 5.340		
92-94 GHz FIXED 5.338A MOBILE RADIO ASTRONOMY RADIOLOCATION 5.149	**92-94 GHz** FIXED 5.338A NF14 MOBILE RADIO ASTRONOMY RADIOLOCATION 5.149		
94-94.1 GHz EARTH EXPLORATION-SATELLITE (active) RADIOLOCATION SPACE RESEARCH (active) Radio astronomy 5.562 5.562A	**94-94.1 GHz** EARTH EXPLORATION-SATELLITE (active) RADIOLOCATION SPACE RESEARCH (active) Radio astronomy 5.562 5.562A	Spaceborne cloud radars Short Range Radar. Cloud profile radar. Spaceborne cloud radars	
94.1-95 GHz FIXED	**94.1-95 GHz** FIXED NF14		

ITU Region 1 allocations and footnotes	South African allocations and footnotes	Typical Applications	Notes and Comments
MOBILE RADIO ASTRONOMY RADIOLOCATION 5.149	MOBILE RADIO ASTRONOMY RADIOLOCATION 5.149	Short Range Radar	
95-100 GHz FIXED MOBILE RADIO ASTRONOMY RADIOLOCATION RADIONAVIGATION RADIONAVIGATION-SATELLITE 5.149 5.554	**95-100 GHz** FIXED MOBILE RADIO ASTRONOMY RADIOLOCATION RADIONAVIGATION RADIONAVIGATION-SATELLITE 5.149 5.554		
100-102 GHz EARTH EXPLORATION-SATELLITE (passive) RADIO ASTRONOMY SPACE RESEARCH (passive) 5.340 5.341	**100-102 GHz** EARTH EXPLORATION-SATELLITE (passive) RADIO ASTRONOMY SPACE RESEARCH (passive) 5.340 5.341	Passive sensing	
102-105 GHz FIXED MOBILE RADIO ASTRONOMY	**102-105 GHz** FIXED MOBILE RADIO ASTRONOMY		

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ITU Region 1 allocations and footnotes	South African allocations and footnotes	Typical Applications	Notes and Comments
5.149 5.341	5.149 5.341		
105-109.5 GHz FIXED MOBILE RADIO ASTRONOMY SPACE RESEARCH (passive) 5.562B 5.149 5.341	**105-109.5 GHz** FIXED MOBILE RADIO ASTRONOMY SPACE RESEARCH (passive) 5.562B 5.149 5.341	Space-based radio astronomy	
109.5-111.8 GHz EARTH EXPLORATION-SATELLITE (passive) RADIO ASTRONOMY SPACE RESEARCH (passive) 5.340 5.341	**109.5-111.8 GHz** EARTH EXPLORATION-SATELLITE (passive) RADIO ASTRONOMY SPACE RESEARCH (passive) 5.340 5.341	Passive Sensing	
111.8-114.25 GHz FIXED MOBILE RADIO ASTRONOMY SPACE RESEARCH (passive) 5.562B 5.149 5.341	**111.8-114.25 GHz** FIXED MOBILE RADIO ASTRONOMY SPACE RESEARCH (passive) 5.562B 5.149 5.341	Space-based radio astronomy	
114.25-116 GHz EARTH EXPLORATION-SATELLITE (passive) RADIO ASTRONOMY	**114.25-116 GHz** EARTH EXPLORATION-SATELLITE (passive) RADIO ASTRONOMY		

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ITU Region 1 allocations and footnotes	South African allocations and footnotes	Typical Applications	Notes and Comments
SPACE RESEARCH (passive) 5.340 5.341	SPACE RESEARCH (passive) 5.340 5.341		
116-119.98 GHz EARTH EXPLORATION-SATELLITE (passive) INTER-SATELLITE 5.562C SPACE RESEARCH (passive) 5.341	**116-119.98 GHz** EARTH EXPLORATION-SATELLITE (passive) INTER-SATELLITE (GSO) 5.562C SPACE RESEARCH (passive) 5.341	Passive Sensing	
119.98-122.25 GHz EARTH EXPLORATION-SATELLITE (passive) INTER-SATELLITE 5.562C SPACE RESEARCH (passive) 5.138 5.341	**119.98-122.25 GHz** EARTH EXPLORATION-SATELLITE (passive) INTER-SATELLITE 5.562C SPACE RESEARCH (passive) 5.138 5.341	Passive Sensing (114.25 – 122.25 GHz)	
122.25-123 GHz FIXED INTER-SATELLITE MOBILE 5.558 Amateur 5.138	**122.25-123 GHz** FIXED INTER-SATELLITE MOBILE 5.558 Amateur 5.138	Collision Avoidance Automation SRD's	
123-130 GHz	**123-130 GHz**		

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ITU Region 1 allocations and footnotes	South African allocations and footnotes	Typical Applications	Notes and Comments
FIXED-SATELLITE (space-to-Earth) MOBILE-SATELLITE (space-to-Earth) RADIONAVIGATION RADIONAVIGATION-SATELLITE Radio astronomy 5.562D 5.149 5.554	FIXED-SATELLITE (space-to-Earth) MOBILE-SATELLITE (space-to-Earth) RADIONAVIGATION RADIONAVIGATION-SATELLITE Radio astronomy 5.149 5.554		
130-134 GHz EARTH EXPLORATION-SATELLITE (active) 5.562E FIXED INTER-SATELLITE MOBILE 5.558 RADIO ASTRONOMY 5.149 5.562A	**130-133.5 GHz** FIXED INTER-SATELLITE MOBILE 5.558 RADIO ASTRONOMY 5.149 5.562A		
	133.5-134 GHz EARTH EXPLORATION-SATELLITE (active) 5.562E FIXED INTER-SATELLITE MOBILE 5.558 RADIO ASTRONOMY 5.149 5.562A		
134-136 GHz	**134-136 GHz**		

ITU Region 1 allocations and footnotes	South African allocations and footnotes	Typical Applications	Notes and Comments
AMATEUR AMATEUR-SATELLITE Radio astronomy	AMATEUR AMATEUR-SATELLITE Radio astronomy		
136-141 GHz RADIO ASTRONOMY RADIOLOCATION Amateur Amateur-satellite 5.149	**136-141 GHz** RADIO ASTRONOMY RADIOLOCATION Amateur Amateur-satellite 5.149		
141-148.5 GHz FIXED MOBILE RADIO ASTRONOMY RADIOLOCATION 5.149	**141-148.5 GHz** FIXED MOBILE RADIO ASTRONOMY RADIOLOCATION 5.149		
148.5-151.5 GHz EARTH EXPLORATION-SATELLITE (passive) RADIO ASTRONOMY SPACE RESEARCH (passive) 5.340	**148.5-151.5 GHz** EARTH EXPLORATION-SATELLITE (passive) RADIO ASTRONOMY SPACE RESEARCH (passive) 5.340	Passive Sensing	
151.5-155.5 GHz	**151.5-155.5 GHz**		

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ITU Region 1 allocations and footnotes	South African allocations and footnotes	Typical Applications	Notes and Comments
FIXED MOBILE RADIO ASTRONOMY RADIOLOCATION 5.149	FIXED MOBILE RADIO ASTRONOMY RADIOLOCATION 5.149		
155.5-158.5 GHz FIXED MOBILE RADIO ASTRONOMY SPACE RESEARCH (passive) 5.562B 5.149 5.562F 5.562G	**155.5-158.5 GHz** EARTH EXPLORATION-SATELLITE (passive) FIXED MOBILE RADIO ASTRONOMY SPACE RESEARCH (passive) 5.562B 5.149 5.562F 5.562G	Passive Sensing	
158.5-164 GHz FIXED FIXED-SATELLITE (space-to-Earth) MOBILE MOBILE-SATELLITE (space-to-Earth)	**158.5-164 GHz** FIXED FIXED-SATELLITE (space-to-Earth) MOBILE MOBILE-SATELLITE (space-to-Earth)		
164-167 GHz	**164-167 GHz**		

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ITU Region 1 allocations and footnotes	South African allocations and footnotes	Typical Applications	Notes and Comments
EARTH EXPLORATION-SATELLITE (passive) RADIO ASTRONOMY SPACE RESEARCH (passive) 5.340	EARTH EXPLORATION-SATELLITE (passive) RADIO ASTRONOMY SPACE RESEARCH (passive) 5.340	Passive Sensing	
167-174.5 GHz FIXED FIXED-SATELLITE (space-to-Earth) INTER-SATELLITE MOBILE 5.558 5.149 5.562D	**167-174.5 GHz** FIXED FIXED-SATELLITE (space-to-Earth) INTER-SATELLITE MOBILE 5.558 5.149		
174.5-174.8 GHz FIXED INTER-SATELLITE MOBILE 5.558	**174.5-174.8 GHz** FIXED INTER-SATELLITE MOBILE 5.558		
174.8-182 GHz EARTH EXPLORATION-SATELLITE (passive) INTER-SATELLITE 5.562H SPACE RESEARCH (passive)	**174.8-182 GHz** EARTH EXPLORATION-SATELLITE (passive) INTER-SATELLITE (GSO) 5.562H SPACE RESEARCH (passive)	Passive sensing (174.8 – 191.8 GHz)	
182-185 GHz	**182-185 GHz**		

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EARTH EXPLORATION-SATELLITE (passive) RADIO ASTRONOMY SPACE RESEARCH (passive) 5.340	EARTH EXPLORATION-SATELLITE (passive) RADIO ASTRONOMY SPACE RESEARCH (passive) 5.340	Passive sensing (174.8 – 191.8 GHz)	
185-190 GHz EARTH EXPLORATION-SATELLITE (passive) INTER-SATELLITE 5.562H SPACE RESEARCH (passive)	**185-190 GHz** EARTH EXPLORATION-SATELLITE (passive) INTER-SATELLITE (GSO) 5.562H SPACE RESEARCH (passive)	Passive sensing (174.8 – 191.8 GHz)	
190-191.8 GHz EARTH EXPLORATION-SATELLITE (passive) SPACE RESEARCH (passive) 5.340	**190-191.8 GHz** EARTH EXPLORATION-SATELLITE (passive) SPACE RESEARCH (passive) 5.340	Passive sensing (174.8 – 191.8 GHz)	
191.8-200 GHz FIXED INTER-SATELLITE MOBILE 5.558 MOBILE-SATELLITE RADIONAVIGATION RADIONAVIGATION-SATELLITE 5.149 5.341 5.554	**191.8-200 GHz** FIXED INTER-SATELLITE MOBILE 5.558 MOBILE-SATELLITE RADIONAVIGATION RADIONAVIGATION-SATELLITE 5.149 5.341 5.554		

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200-209 GHz EARTH EXPLORATION-SATELLITE (passive) RADIO ASTRONOMY SPACE RESEARCH (passive) 5.340 5.341 5.563A	**200-209 GHz** EARTH EXPLORATION-SATELLITE (passive) RADIO ASTRONOMY SPACE RESEARCH (passive) 5.340 5.341 5.563A	Passive sensing.	
209-217 GHz FIXED FIXED-SATELLITE (Earth-to-space) MOBILE RADIO ASTRONOMY 5.149 5.341	**209-217 GHz** FIXED FIXED-SATELLITE (Earth-to-space) MOBILE RADIO ASTRONOMY 5.149 5.341		
217-226 GHz FIXED FIXED-SATELLITE (Earth-to-space) MOBILE RADIO ASTRONOMY SPACE RESEARCH (passive) 5.562B 5.149 5.341	**217-226 GHz** FIXED FIXED-SATELLITE (Earth-to-space) MOBILE RADIO ASTRONOMY SPACE RESEARCH (passive) 5.562B 5.149 5.341	Space-based radio astronomy	
226-231.5 GHz EARTH EXPLORATION-SATELLITE (passive)	**226-231.5 GHz** EARTH EXPLORATION-SATELLITE (passive)	Passive Sensing (226 – 232 GHz)	

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ITU Region 1 allocations and footnotes	South African allocations and footnotes	Typical Applications	Notes and Comments
RADIO ASTRONOMY SPACE RESEARCH (passive) 5.340	RADIO ASTRONOMY SPACE RESEARCH (passive) 5.340		
231.5-232 GHz FIXED MOBILE Radiolocation	**231.5-232 GHz** FIXED MOBILE Radiolocation		
232-235 GHz FIXED FIXED-SATELLITE (space-to-Earth) MOBILE Radiolocation	**232-235 GHz** FIXED FIXED-SATELLITE (space-to-Earth) MOBILE Radiolocation		
235-238 GHz EARTH EXPLORATION-SATELLITE (passive) 5.563AA FIXED FIXED-SATELLITE (space-to-Earth) SPACE RESEARCH (passive)	**235-237.9 GHz** EARTH EXPLORATION-SATELLITE (passive) 5.563AA FIXED FIXED-SATELLITE (space-to-Earth) SPACE RESEARCH (passive) 5.563A 5.563B	Passive Sensing	
	237.9-238 GHz EARTH EXPLORATION-SATELLITE (active)		

ITU Region 1 allocations and footnotes	South African allocations and footnotes	Typical Applications	Notes and Comments
5.563A 5.563B	EARTH EXPLORATION-SATELLITE (passive) 5.563AA FIXED FIXED-SATELLITE (space-to-Earth) SPACE RESEARCH (active) SPACE RESEARCH (passive) 5.563A 5.563B		
238-239.2 GHz FIXED FIXED-SATELLITE (space-to-Earth) MOBILE RADIOLOCATION RADIONAVIGATION RADIONAVIGATION-SATELLITE	**238-239.2 GHz** FIXED FIXED-SATELLITE (space-to-Earth) MOBILE RADIOLOCATION RADIONAVIGATION RADIONAVIGATION-SATELLITE		
239.2-240 GHz EARTH EXPLORATION-SATELLITE(passive) FIXED-SATELLITE (space-to-Earth) RADIOLOCATION RADIONAVIGATION RADIONAVIGATION-SATELLITE	**239.2-240 GHz** EARTH EXPLORATION-SATELLITE(passive) FIXED-SATELLITE (space-to-Earth) RADIOLOCATION RADIONAVIGATION RADIONAVIGATION-SATELLITE		
~~**238-240 GHz**~~ ~~FIXED~~	~~**238-240 GHz**~~ ~~FIXED~~		

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ITU Region 1 allocations and footnotes	South African allocations and footnotes	Typical Applications	Notes and Comments
~~FIXED-SATELLITE (space-to-Earth)~~ ~~MOBILE~~ ~~RADIOLOCATION~~ ~~RADIONAVIGATION~~ ~~RADIONAVIGATION-SATELLITE~~	~~FIXED-SATELLITE (space-to-Earth)~~ ~~MOBILE~~ ~~RADIOLOCATION~~ ~~RADIONAVIGATION~~ ~~RADIONAVIGATION-SATELLITE~~		
240-241 GHz EARTH EXPLORATION-SATELLITE (passive) ~~FIXED~~ ~~MOBILE~~ RADIOLOCATION	**240-241 GHz** EARTH EXPLORATION-SATELLITE (passive) ~~FIXED~~ ~~MOBILE~~ RADIOLOCATION		
241-242.2 GHz EARTH EXPLORATION-SATELLITE (passive) RADIO ASTRONOMY RADIOLOCATION Amateur Amateur-satellite 5.149	**241-242.2 GHz** EARTH EXPLORATION-SATELLITE (passive) RADIO ASTRONOMY RADIOLOCATION Amateur Amateur-satellite 5.149		
242.2-244.2 GHz RADIO ASTRONOMY RADIOLOCATION Amateur Amateur-satellite	**242.2-244.2 GHz** RADIO ASTRONOMY RADIOLOCATION Amateur Amateur-satellite		

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ITU Region 1 allocations and footnotes	South African allocations and footnotes	Typical Applications	Notes and Comments
5.138 5.149	5.138 5.149		
244.2-247.2 GHz EARTH EXPLORATION-SATELLITE (passive) RADIO ASTRONOMY RADIOLOCATION Amateur Amateur-satellite 5.138 5.149	**244.2-247.2 GHz** EARTH EXPLORATION-SATELLITE (passive) RADIO ASTRONOMY RADIOLOCATION Amateur Amateur-satellite 5.138 5.149		
247.2-248 GHz RADIO ASTRONOMY RADIOLOCATION Amateur Amateur-satellite 5.149	**247.2-248 GHz** RADIO ASTRONOMY RADIOLOCATION Amateur Amateur-satellite 5.149		
~~**241-248 GHz**~~ ~~RADIO ASTRONOMY~~ ~~RADIOLOCATION~~ ~~Amateur~~ ~~Amateur-satellite~~ ~~5.138 5.149~~	~~**241-248 GHz**~~ ~~RADIO ASTRONOMY~~ ~~RADIOLOCATION~~ ~~Amateur~~ ~~Amateur-satellite~~ ~~5.138 5.149~~		
248-250 GHz AMATEUR AMATEUR-SATELLITE	**248-250 GHz** AMATEUR AMATEUR-SATELLITE		

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ITU Region 1 allocations and footnotes	South African allocations and footnotes	Typical Applications	Notes and Comments
Radio astronomy 5.149	Radio astronomy 5.149		
250-252 GHz EARTH EXPLORATION-SATELLITE (passive) RADIO ASTRONOMY SPACE RESEARCH (passive) 5.340 5.563A	**250-252 GHz** EARTH EXPLORATION-SATELLITE (passive) RADIO ASTRONOMY SPACE RESEARCH (passive) 5.340 5.563A	Passive Sensing	
252-265 GHz FIXED MOBILE MOBILE-SATELLITE (Earth-to-space) RADIO ASTRONOMY RADIONAVIGATION RADIONAVIGATION-SATELLITE 5.149 5.554	**252-265 GHz** FIXED MOBILE MOBILE-SATELLITE (Earth-to-space) RADIO ASTRONOMY RADIONAVIGATION RADIONAVIGATION-SATELLITE 5.149 5.554		
265-275 GHz FIXED FIXED-SATELLITE (Earth-to-space) MOBILE RADIO ASTRONOMY 5.149 5.563A	**265-275 GHz** FIXED FIXED-SATELLITE (Earth-to-space) MOBILE RADIO ASTRONOMY 5.149 5.563A		

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ITU Region 1 allocations and footnotes	South African allocations and footnotes	Typical Applications	Notes and Comments
275-3 000 GHz (Not allocated) 5.565 5.564A 5.565	**275-1 000 GHz** (Not allocated) 5.565 5.564A	 Radio astronomy service Earth exploration-satellite service (passive) Space research (passive)	
	1 000-3 000 GHz (Not allocated) 5.565 5.564A		Assignments may be considered for Amateur services on a secondary basis above 1000 GHz

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5 RADIO ASTRONOMY

The Astronomy Geographic Act, 2007 (AGA Act No. 21 of 2007) provides the legal basis and framework for the declaration of astronomy advantage area and protection of such areas from harmful radio frequency interference that may hamper the cosmic observations by scientific instruments located within those areas. The Authority develops the national spectrum allocation, assign frequencies to licensees, and monitor compliance with licence terms. The Astronomy Management Authority (AMA) within the Department of Science and Innovation was assigned to manage the declared Karoo Central Astronomy Advantage Areas (KCAAAs). The Authority gave notice to all radio frequency spectrum licensees operating within the KCAAAs to apply for a permit with the AMA in terms of KCAAAs Regulations; through GG No. 42080 under Notice No. 765 of 4 December 2018.

This section provides information on the regulatory framework established for the protection of radio astronomy in South Africa.

5.1 DECLARATION OF ASTRONOMY ADVANTAGE AREAS

The Minister of Science, Technology and Innovation, may declare any area or part of an area in the Province of the Northern Cape as an astronomy advantage area to be protected, preserved and properly maintained in respect of radio frequency interference or interference in any other way.

i. The whole of the territory of the Northern Cape Province excluding Sol Plaatje Municipality is declared for radio astronomy purpose, as Declared in GG No. 32951 Notice No. 115 of 19 February 2010.

ii. The Karoo Core Astronomy Advantage Area (KCoreAAA) is used for the purposes of radio astronomy and related scientific endeavours, as declared in GG No. 33462 Notice No. 723 of 20 August 2010.

iii. The Karoo Central Astronomy Advantage Area (KCAAAs) is used for the purpose of radio astronomy and related scientific endeavours, as declared in GG No. 37434 Notice No. 198 of 12 March 2014.

The purpose of the declaration of areas as astronomy advantage areas is to ensure that the geographic area, which are suitable for astronomy and related scientific endeavours is protected, preserved and properly maintained in accordance with good national and international practices.

5.2 REGULATIONS OF ASTRONOMY ADVANTAGE AREAS

The Minister of Science, Technology and Innovation, may make regulations for the management and protection of astronomy advantage areas.

i. Regulations on radio astronomy protection levels in astronomy advantage areas declared for the purpose of radio astronomy were published in Government Gazette No. 35007 under Notice No. R. 90 of 10 February 2012.

ii. Regulations to prohibit or restrict certain activities in the core astronomy advantage areas declared for the radio astronomy purposes were published in Government Gazette No.35450, under notice No. R. 465of 22 June 2012.

iii. Regulations on the protection of the Karoo central astronomy advantage areas declared for the purpose of radio astronomy were published in Government Gazette No. 41321, under Notice No. 1411 of 15 December 2017.

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The Minister obtained concurrence of ICASA when making regulations for prohibiting or restricting activities that have an adverse effect on astronomy and related scientific endeavours.

5.3 ASTRONOMY DEVICES

The Minister of Science, Technology and Innovation, may declare any existing or proposed scientific endeavour to be astronomy and related scientific endeavours for the purpose of the Astronomy Geographic Advantage Act.

i. The establishment and operation of MeerKAT telescope is declared a scientific endeavour in Government Gazette No. 33614, under Notice No. 897 of 15 October 2010.

ii. The establishment and operation of Square Kilometre Array (SKA) telescope is declared a scientific endeavour in Government Gazette No. 33614, under Notice No. 897 of 15 October 2010.

iii. The operation of C-BASS telescope within the spectrum between 4.5 GHz and 6.5 GHz is declared a scientific endeavour in Government Gazette No. 36826, under Notice No. 684 of 13 September 2013.

iv. The development and operation of PAPER telescope and HERA telescope within the spectrum between 100 MHz and 200 MHz is declared a scientific endeavour in Government Gazette No. 36826, under Notice No. 684 of 13 September 2013.

5.4 SPECTRUM LIST EXEMPTED FROM PROHIBITION

From one (1) year after the date that KCAAAs Regulations become operational, no licensee or licence exempted operator shall use, or continue to use the radio frequency spectrum from 100 MHz to 25.5 GHz to conduct radio transmissions within the declared KCAAAs, unless the spectrum is exempted from prohibition. The Minister published a list of the radio frequency spectrum and applications that are exempted from the prohibition of use for transmissions located within the KCAAAs in Government Gazette No. 45045, under Notice No. 753 of 26 August 2021.

5.5 ASTRONOMY FACILITIES WITHIN THE DECLARED AREAS

The use of radio frequency bands in the areas declared as Karoo Core and Central Astronomy Advantage Areas are regulated as follows:

Unless required for the purpose of radio astronomy and related scientific endeavours the use of the radio frequency spectrum in Table 2 is restricted within the declared as Karoo Core and Central Astronomy Advantage Areas.

Table 2: Restrictions on the use of radio frequency spectrum

Declared Area	Prohibited Band
KCoreAAA	9 kHz to 3 000 GHz
KCAAA 1	100 MHz to 2 170 MHz
KCAAA 2	100 MHz to 6 GHz
KCAAA 3	100 MHz to 25.5 GHz

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In terms of section 22(6) of the AGA Actread with section 30(1) and section 31 of the Electronic Communications Act, 2005 (Act No. 36 of 2005) ("ECA"), the Authority has an obligation not to issue Radio Frequency Spectrum Licences where frequency used could cause radio frequency interference ("RFI") in the KCAAA. As a result, the Authority has put measures in place to ensure that it fulfils its role of preventing RFI in the KCAAA when licensing radio communication and broadcasting spectrum licenses. The Authority shall apply the necessary enforcement steps in terms of section 31 of the ECA and relevant regulations pertaining to the failure by a Radio Frequency Spectrum Licensees to comply with the provisions of the ECA including Notice No. 765 in Government Gazette No. 42080 of 4 December 2018.

5.6 ASTRONOMY FACILITIES OUTSIDE THE DECLARED AREAS

The radio instruments located at Hartebeesthoek Radio Astronomy Observatory near Pretoria are registered in the ITU-R MIFR and they include HART15M, HARTRAO and HARTVGS. The observations undertaken by these instruments in RAS bands are globally recognised and internationally protected. The applications and services operating within a 15 km radius from the location; Latitude 25°53'24.06"S and Longitude 27°41'7.45"E; must coordinate with SARAO and give due consideration when operating stations in frequency bands listed under No. 5.149, also identified in the NRFP2021 table of frequency allocation.

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6 NATIONAL FOOTNOTES TO THE TABLE OF FREQUENCY ALLOCATIONS

NF0 (5350 - 5450 KHz)

The band 5350 – 5450KHz and the channel 5290KHz is allocated on secondary basis to radio amateurs under the Article 4.4 of the ITU Radio Regulations.

NF1 (29.7 - 30 MHz)

This portion of the spectrum is allocated to the amateur service on a secondary basis for use during disaster exercises and emergency situations. This is in addition to the existing exclusive amateur band 28 - 29.7 MHz, which retains its primary status. The additional spectrum is used for single frequency mobile applications.

NF2 (70 - 70.3 MHz)
This sub-band is allocated to the amateur service on a secondary basis in order to undertake experimental work on propagation. The channels 70.025 – 70.150 MHz are used for civil defence purposes.

NF3 (148 - 150.05 MHz)

This frequency band was allocated internationally at WARC-92 for the mobile satellite service (MSS) in the Earth-to-space direction. The space-to-Earth link is provided at either 137 – 138 MHz or 400.15 - 401 MHz, depending on the satellite system.

NF4 (161.875 - 173.875 MHz)

The frequency band is used for sonobouy in the maritime service. Assignments were previously not allowed within a distance of 200 km from the coast. It is generally agreed that there is scope for increased sharing even near the coast. Proper care will be taken in making assignments near the coast in this frequency band and frequency coordination is to be performed with existing services on case by case basis.

NF5 (173.7 – 175.1 MHz)
This frequency band may be used for wireless microphones for services ancillary to Broadcasting (SAB) and services ancillary to programme (SAP) making. Use of wireless microphones must be co-ordinated and licensed.

NF6 (336 - 366 MHz)

The frequency band 336 – 346 MHz, paired with the frequency band 356 – 366 MHz, is allocated to fixed services on a primary basis and is applicable for use by Fixed Wireless Access (FWA) systems. Within this frequency band, the sub-band 337 – 344 MHz paired with 357 – 364 MHz is to be used for WAS whereas the sub-band 344 – 346 MHz paired with 364 – 366 MHz is to be used for alarm monitoring and tracking services using DSSS. The band is also considered for use by the Unmanned Aerial Vehicle (UAV) including Remotely Piloted Aircraft System (RPAS) within the sub band 336-346 paired with 356-366 MHz.This spectrum is potentially very useful for providing electronic communications services, in particular in rural areas considering its excellent propagation conditions.

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NF7 (380 – 399.9 MHz)

The frequency band 380 –399.9 MHz is allocated through ITU Resolution 646 (Rev.WRC-15) to Public Protection and Disaster Relief (PPDR) applications in line with ITU-R M.2015.

NF8 (430 - 440 MHz)

This frequency band is allocated to the amateur service in South Africa in line with ITU Region 1. The sub-band 433.05 - 434.79 MHz, however, is also designated as an ISM band in Region 1, subject to the special authorisation of the administration concerned (see RR 5.138). Furthermore, the sub-band 433.05 - 434.79 MHz can be used for non-specific short range devices on an unlicensed basis in accordance with the prescribed Regulations. The consequence of this is that the amateur service may not claim protection from (in-band) emissions from ISM equipment operating in the band, nor can ISM equipment and low power devices claim protection from amateur users operating in the band.

NF9 (IMT Frequency Bands - Terrestrial)

The table below list all possible IMT frequency bands identified by the ITU, relevant ITU Radio Regulation footnote as well as the applicable ITU-R channel plan.

Band	Frequency band	Bandwidth (MHz)	RR FN	Channel Plan	WRC Resolution/s
450 MHz	450 – 470 MHz	20 MHz	5.286AA	Recommendation ITU-R M.1036-~~6~~7	224 (Rev. WRC-15)
700 MHz	694 – 790 MHz	96 MHz	5.312A and 5.317A	Recommendation ITU-R M.1036-~~6~~7	224 (Rev.WRC-15) and 760 (WRC-15)
800 MHz	790 — 862 MHz	72 MHz	5.316B and 5.317A	Recommendation ITU-R M.1036-~~6~~7 (A3)	224 (Rev. WRC-15) and 749 (Rev. WRC-15)
850 MHz	825—830 MHz 870—875 MHz	10 MHz	NF10	Recommendation ITU-R M.1036-~~6~~7	224 (Rev. WRC-19)
900 MHz	880 – 915 MHz // 925 – 960 MHz	35 MHz	5.317A	Recommendation ITU-R M.1036-~~6~~7(A2)	224 (Rev. WRC-15) and 749 (Rev. WRC-15)
1500 MHz	1 427-1 518 MHz	91 MHz	5.341A, 5.346, and 5.346A	Recommendation ITU-R M.1036-~~6~~7[~~17~~]	223 (Rev. WRC-15), 750 (Rev. WRC-15), and 761 (WRC-15)

[~~17~~] ~~Channelling arrangement for 1 427-1 518 MHz is under study at the ITU-R Working Party 5D~~

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1800 MHz	1710 – 1785 MHz // 1805 – 1880 MHz	75 MHz	5.384A	Recommendation ITU-R M.1036-~~6~~7 (B2)	223 (Rev. WRC-15)
1900 MHz	1900 – 1920MHz	20 MHz	5.388	Recommendation ITU-R M.1036-~~6~~7(B4)	Resolution **212 (Rev.WRC-19)**
2100 MHz	1920 – 1980 MHz // 2110 – 2170 MHz	60 MHz	5.388	Recommendation ITU-R M.1036-~~6~~7(B1)	212 (Rev. WRC-07) and 223 (Rev. WRC-12)
2100 MHz (TDD)	1900 – 1920 MHz, 2010 – 2025 MHz	20 MHz	5.388	Recommendation ITU-R M.1036-~~6~~7(B1)	212 (Rev. WRC-07) and 223 (Rev. WRC-12)
2300 MHz	2300 – 2400 MHz	100 MHz	5.384A	Recommendation ITU-R M.1036-~~6~~7 (E1)	223 (Rev. WRC-12)
2600 MHz	2500 – 2690 MHz	190 MHz	5.384A	Recommendation ITU-R M.1036-~~6~~7 (C1)	223 (Rev. WRC-12)
~~3500 MHz~~	~~3300 – 3400 MHz~~	~~100 MHz~~	~~5.429B~~	~~Recommendation ITU-R M.1036-6~~[18]	~~223 (Rev. WRC-19),~~
3.5 GHz	3~~4~~400 – 3800 MHz	500 MHz	5.429B 5.430A 5.434A 5.434B	Recommendation ITU-R M.1036-~~6~~7 (F1)	~~NA~~ 223 (Rev. WRC-19)
4.9 GHz	4800 – 4990 MHz	190 MHz	5.441A	Recommendation ITU-R M.1036-~~6~~7	223 (Rev. WRC-19)
26 GHz	24.25 – 27.5 GHz	3250 MHz	5.532A B	Recommendation ITU-R M.1036-~~6~~7	242 (Rev. WRC-19)
40 GHz	37 – 43.5 GHz	6500 MHz	5.550B	Recommendation ITU-R M.1036-~~6~~7	243 (Rev. WRC-19)
48 GHz	47.2 – 48.2 GHz	1000 MHz	5.553B	Recommendation ITU-R M.1036-~~6~~7	243 (Rev. WRC-19)
66 GHz	66 – 71 GHz	5000 MHz	5.559B	Recommendation ITU-R M.1036-~~6~~7	241 (Rev. WRC-19)

[18] Channelling arrangement for 3300 – 3400 MHz is under study at the ITU-R Working Party 5D

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NF10 (876 - 880 // 921 - 925 MHz)

This frequency band is used by GSM-R systems.

NF11 (915 - 921 MHz) – Suppressed

NF12 (1452 - 1492 MHz) – Suppressed

NF13 (1980 – 2010 MHz paired with 2170 – 2200 MHz)

These frequency bands are allocated, amongst others, to both the mobile and mobile-satellite services and are also earmarked for the satellite component of IMT. Further, guidance on the implementation of technical and operational measures to facilitate coexistence between terrestrial and satellite components of International Mobile Telecommunications in the frequency bands 1 980- 2 010 MHz and 2 170-2 200 MHz is addressed within ITU-R in accordance with Resolution **212 (Rev. WRC-19)**,

NF14 (Channel arrangements for Fixed Services Systems)

The table below list the main fixed services frequency bands and the applicable ITU-R Recommendation specifying the applicable frequency channel arrangement. Different channel spacing for each frequency band will allowed in accordance with the relevant ITU-R Recommendation. Sub-division of channels will also be allowed to cater for smaller bandwidth systems. Hop distances will be determined, amongst others, by propagation conditions. Sharing with services other than fixed services is indicated in the comments column.

Band	Band limits	Channel Plan	Comments
1-2GHz	1350 - 1375 MHz // 1492 – 1517 MHz 1375 – 1400 MHz // 1427 – 1452 MHz	ITU-R F.1242	
2 GHz	2025-2110 MHz // 2200-2285 MHz	ITU-R F.1098	
4 GHz	3600 – 4200 MHz	ITU-R F.635, Annex 1	Shared with FSS (downlink) (Note 1)
4.8 GHz	4400 – 5000 MHz	ITU-R F.1099, Annex 1	Government Services
Lower 6 GHz	5925 – 6425 MHz	ITU-R F.383	Shared with FSS (uplink) (Note 2)
Upper 6 GHz	6425 – 7110 MHz	ITU-R F.384	Shared with FSS (Note 3)
7 GHz (L7 + U7)	7110 – 7750 MHz	ITU-R F385, Annex 3	
Lower 8 GHz	7725 – 8275 MHz	ITU-R F.386, Annex 6	

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Upper 8 GHz	8275 – 8500 MHz	ITU-R F.386, Annex 1	
10.5 GHz	10.15-10.3 GHz// 10.5-10.65 GHz	ITU-R F.1568, Annex 1	
11 GHz	10.7 – 11.7 GHz	ITU-R F.387	Shared with FSS (Note 4)
13 GHz	12.75 – 13.25 GHz	ITU-R F.497	
15 GHz	14.5 – 15.35 GHz	ITU-R F.636	
18 GHz	17.7 – 19.7 GHz	ITU-R F.595, Annex 1	
23 GHz	21.2-23.6 GHz or	ITU-R F.637, Annex 1	Shared with BSS (Note 5)
26 GHz	24.5 – 26.5 GHz	ITU-R F.748, Annex 1	Shared with EESS (Note 6)
28 GHz	27.5 – 29.5 GHz	ITU-R F.748-4, Annex 2	
32 GHz	31.8 – 33.4 GHz	ITU-R F.1520, Annex 1	
38 GHz	37.0 – 39.5 GHz	ITU-R F.749 Annex 1	
42 GHz	40.5 – 43.5 GHz	ITU-R F. 2005	
57 GHz	55.78 – 59 GHz	ITU-R F 1497	
80 GHz	71 – 76 GHz // 81 – 86 GHz	ITU-R F.2006	(Note 7)
94 GHz	92 – 94 GHz 94.1 – 95 GHz	ITU –R F. 2004	

Note 1: The band 3600 – 4200 MHz is used on a national basis for high capacity, core network telecommunication services under the fixed service using (for fixed services links generally over long hop lengths. The band 3625 – 4200 MHz, part of the C-band, is used extensively for FSS (space-to-Earth) applications. This band is shared between FS and FSS.

Note 2: In addition to deployment of fixed services links under the fixed services, the band 5850 – 6425 MHz, part of the C-band, is also used for FSS (Earth-to-space) applications on a shared basis with FS. The C-band is also used for satellite news gathering (SNG) operations, which will require frequency co-ordination with fixed links on a case-by-case basis. Users are encouraged to, as far as possible, use the Ku-band for SNG operations in South Africa in order to avoid the need for frequency coordination and the interference problems associated with C-band SNG operations. The band 5850 – 5926 MHz may also be used for temporary deployment for ENG and OB links under the mobile and fixed services respectively on a strictly coordinated basis.

Note 3: This band is used on a national basis for fixed services links under the fixed service. Fixed links are shared with NGSO MSS (space-to-Earth) feeder links and geo-stationary satellite orbit (GSO) FSS (Earth-to-space) systems on a strictly controlled and co-ordinated basis.

Note 4: This band is used on a national basis for fixed services links under the fixed service. The bands 10.95 – 11.2 GHz and 11.45 – 11.7 GHz are also shared with FSS (space-to-Earth)

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systems (typically VSAT/SNG and PTP links). The sub-bands 10.95 – 11.2 GHz and 11.45 – 11.7 GHz is also used DTH satellite broadcasting services on a secondary basis to the FS and FSS services.

Note 5: In addition to the fixed services, the band 21.2 – 23 GHz is also allocated to the BSS on a co-primary basis. In accordance with 5.530A, all fixed links must comply to the prescribed pfd limits at national borders, unless otherwise agreed with the administration concerned. In line with 5.530B, the band 21.2 – 23 GHz will not be used for mobile services in South Africa and fixed service deployments will be restricted to for fixed services links.

Note 6: An unmanned receive only earth station, forming part of the National Polar-Orbiting Operational Environmental Satellite System (NPOESS) is located in South Africa, and this system operates within the frequency band 25.5 to 27 GHz in the Earth Exploration Satellite (space-to-earth) service.

Note 7: The frequency bands 71 – 76 GHz paired with 81 – 86 GHz are allocated to the fixed services and is earmarked for very high capacity Broadband Fixed Wireless Systems over very short hop lengths. Radio frequency channel arrangements for fixed service systems operating in the bands 71-76 GHz and81-86 GHz are according to the Radio Frequency Spectrum Regulations (GG. No.38641, 30 March 2015).

NF15 (4400 – 5000 MHz)

The frequency band 4400 – 5000 MHz is allocated to electronic news gathering (ENG) and outside broadcasting (OB) services under the mobile and fixed services respectively, and is shared with Government Services.
NF16 (5725 – 5850 MHz)
The band 5725 – 5875 MHz is designated as an ISM band through ITU-R footnote 5.150. In addition to ISM applications, the band 5725 – 5850 MHz is also available for fixed links on a license-exempt basis, provided adherence to the provisions indicated below. Type Approval of these systems is mandatory. See also Radio Frequency Spectrum Regulations (Annex B) (GG. No.38641, 30 March 2015).
(for additional requirements in using this band.

Frequency Range	Maximum Power	Modulation	Restrictions
5.725 – 5.850 GHz	1 watt peak e.i.r.p	Any modulation	No other restriction other than those related to the maximum power and the modulation scheme.
5.725 – 5.850 GHz	4 watt peak e.i.r.p	Frequency hopping or digital modulation only	No other restriction other than those related to the maximum power and the modulation scheme.

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Frequency Range	Maximum Power	Modulation	Restrictions
5.725 – 5.850 GHz	200 watt peak e.i.r.p with a max 1 watt peak transmitter power	Digital modulation only	- Fixed Radio Link devices only - Peak power spectral density must not exceed 17dBm /MHz

The Authority reserves the right to require users to change the frequency, reduce the power, or cease operations, where harmful interference is caused.

NF17 (14.0 – 14.5 GHz)

The frequency band 14.0 – 14.5 GHz, part of the Ku-band is used extensively for FSS (Earth-to-space) applications (VSAT/SNG/PTP links).

NF18 (27.5 – 28.35 GHz)

The frequency bands 27.5 – 28.35 GHz (base station to subscriber) and 31.000 – 31.300 MHz (subscriber to base station) are allocated to broadband service - local multipoint distribution services (LMDS) under the fixed service using a PTMP topology.

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7 ITU RADIO REGULATIONS FOOTNOTES

The ITU Radio Regulations footnote listed are those that are applicable to Region 1.

5.53	Administrations authorising the use of frequencies below 8.3 kHz shall ensure that no harmful interference is caused thereby to the services to which the bands above 8.3 kHz are allocated.
5.54	Administrations conducting scientific research using frequencies below 8.3 kHz are urged to advise other administrations that may be concerned in order that such research may be afforded all practicable protection from harmful interference.
5.54A	Use of the 8.3-11.3 kHz frequency band by stations in the meteorological aids service is limited to passive use only. In the band 9-11.3 kHz, meteorological aids stations shall not claim protection from stations of the radionavigation service submitted for notification to the Bureau prior to 1 January 2013. For sharing between stations of the meteorological aids service and stations in the radionavigation service submitted for notification after this date, the most recent version of Recommendation ITU-R RS.1881 should be applied.
5.54B	*Additional allocation:* in Algeria, Saudi Arabia, Bahrain, Egypt, the United Arab Emirates, the Russian Federation, Iran (Islamic Republic of), Iraq, Kuwait, Lebanon, Morocco, Qatar, the Syrian Arab Republic, Sudan and Tunisia, the frequency band 8.3-9 kHz is also allocated to the radionavigation, fixed and mobile services on a primary basis. (WRC-15)
5.54C	Additional allocation: in China, the frequency band 8.3-9 kHz is also allocated to the maritime radionavigation and maritime mobile services on a primary basis.
5.55	*Additional allocation:* in Armenia, the Russian Federation, Georgia, Kyrgyzstan, Tajikistan and Turkmenistan, the frequency band 14-17 kHz is also allocated to the radionavigation service on a primary basis. (WRC-15)
5.56	The stations of services to which the frequency bands 14-19.95 kHz and 20.05-70 kHz and in Region 1 also the frequency bands 72-84 kHz and 86-90 kHz are allocated may transmit standard frequency and time signals. Such stations shall be afforded protection from harmful interference. In Armenia, Azerbaijan, Belarus, the Russian Federation, Georgia, Kyrgyzstan, Tajikistan and Turkmenistan, the frequencies 25 kHz and 50 kHz will be used for this purpose under the same conditions. (WRC-23)~~The stations of services to which the bands 14-19.95 kHz and 20.05-70 kHz and in Region 1 also the bands 72-84 kHz and 86-90 kHz are allocated may transmit standard frequency and time signals. Such stations shall be afforded protection from harmful interference. In Armenia, Azerbaijan, Belarus, Bulgaria, the Russian Federation, Georgia, Kazakhstan, Kyrgyzstan, , Tajikistan and Turkmenistan, the frequencies 25 kHz and 50 kHz will be used for this purpose under the same conditions. (WRC-12)~~
5.57	The use of the bands 14-19.95 kHz, 20.05-70 kHz and 70-90 kHz (72-84 kHz and 86-90 kHz in Region 1) by the maritime mobile service is limited to coast radiotelegraph stations (A1A and F1B only). Exceptionally, the use of class J2B or J7B emissions is authorized subject to the necessary bandwidth not exceeding that normally used for class A1A or F1B emissions in the band concerned.
5.58	*Additional allocation: in Armenia, Azerbaijan, the Russian Federation, Georgia, Kyrgyzstan, Tajikistan and Turkmenistan, the frequency band 67-70 kHz is also allocated to the radionavigation service on a primary basis. (WRC-23)*~~*Additional allocation:* in Armenia, Azerbaijan, the Russian Federation, Georgia, Kazakhstan, Kyrgyzstan, Tajikistan and Turkmenistan, the band 67-70 kHz is also allocated to the radionavigation service on a primary basis. (WRC-2000)~~

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5.59	*Different category of service:* in Bangladesh and Pakistan, the allocation of the bands 70-72 kHz and 84-86 kHz to the fixed and maritime mobile services is on a primary basis (see No. **5.33**). (WRC-2000)
5.60	In the bands 70-90 kHz (70-86 kHz in Region 1) and 110-130 kHz (112-130 kHz in Region 1), pulsed radionavigation systems may be used on condition that they do not cause harmful interference to other services to which these bands are allocated.
5.61	In Region 2, the establishment and operation of stations in the maritime radionavigation service in the bands 70-90 kHz and 110-130 kHz shall be subject to agreement obtained under No. **9.21** with administrations whose services, operating in accordance with the Table, may be affected. However, stations of the fixed, maritime mobile and radiolocation services shall not cause harmful interference to stations in the maritime radionavigation service established under such agreements.
5.62	Administrations which operate stations in the radionavigation service in the band 90-110 kHz are urged to coordinate technical and operating characteristics in such a way as to avoid harmful interference to the services provided by these stations.
5.63	SUP (WRC-97)
5.64	Only classes A1A or F1B, A2C, A3C, F1C or F3C emissions are authorized for stations of the fixed service in the bands allocated to this service between 90 kHz and 160 kHz (148.5 kHz in Region 1) and for stations of the maritime mobile service in the bands allocated to this service between 110 kHz and 160 kHz (148.5 kHz in Region 1). Exceptionally, class J2B or J7B emissions are also authorized in the bands between 110 kHz and 160 kHz (148.5 kHz in Region 1) for stations of the maritime mobile service.
5.65	Different category of service: in Bangladesh, the allocation of the bands 112-117.6 kHz and 126-129 kHz to the fixed and maritime mobile services is on a primary basis (see No. 5.33). (WRC-2000)
5.66	*Different category of service:* in Germany, the allocation of the band 115-117.6 kHz to the fixed and maritime mobile services is on a primary basis (see No. **5.33**) and to the radionavigation service on a secondary basis (see No. **5.32**).
5.67	*Additional allocation:* in Kyrgyzstan and Turkmenistan, the frequency band 130-148.5 kHz is also allocated to the radionavigation service on a secondary basis. Within and between these countries this service shall have an equal right to operate. (WRC-19)
5.67A	Stations in the amateur service using frequencies in the band 135.7-137.8 kHz shall not exceed a maximum radiated power of 1 W (e.i.r.p.) and shall not cause harmful interference to stations of the radionavigation service operating in countries listed in No. **5.67**. (WRC-07)
5.67B	The use of the frequency band 135.7-137.8 kHz in Algeria, Egypt, Iraq, Lebanon, Syrian Arab Republic, Sudan, South Sudan and Tunisia is limited to the fixed and maritime mobile services. The amateur service shall not be used in the above-mentioned countries in the frequency band 135.7-137.8 kHz, and this should be taken into account by the countries authorizing such use. (WRC-19)
5.68	*Alternative allocation:* in Congo (Rep. of the), the Dem. Rep. of the Congo and South Africa, the frequency band 160- 200 kHz is allocated to the fixed service on a primary basis. (WRC-15)
5.69	*Additional allocation:* in Somalia, the band 200-255 kHz is also allocated to the aeronautical radionavigation service on a primary basis.
5.70	*Alternative allocation:* in Angola, Botswana, Burundi, the Central African Rep., Congo (Rep. of the), Eswatini, Ethiopia, Kenya, Lesotho, Madagascar, Malawi, Mozambique, Namibia, Nigeria, Oman, the Dem. Rep. of the Congo, South Africa, Tanzania, Chad, Zambia and Zimbabwe, the frequency band 200-283.5 kHz is allocated to the aeronautical radionavigation service on a primary basis. (WRC-19)

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5.71	SUP (WRC-19)
5.72	SUP (WRC-12)
5.73	The band 285-325 kHz (283.5-325 kHz in Region 1) in the maritime radionavigation service may be used to transmit supplementary navigational information using narrow-band techniques, on condition that no harmful interference is caused to radiobeacon stations operating in the radionavigation service. (WRC-97)
5.74	*Additional Allocation:* in Region 1, the frequency band 285.3-285.7 kHz is also allocated to the maritime radionavigation service (other than radiobeacons) on a primary basis.
5.75	*Different category of service:* in Armenia, Azerbaijan, Belarus, the Russian Federation, Georgia, Moldova, Kyrgyzstan, Tajikistan, Turkmenistan, Ukraine and the Black Sea areas of Romania, the allocation of the band 315-325 kHz to the maritime radionavigation service is on a primary basis under the condition that in the Baltic Sea area, the assignment of frequencies in this band to new stations in the maritime or aeronautical radionavigation services shall be subject to prior consultation between the administrations concerned. (WRC-07)
5.76	The frequency 410 kHz is designated for radio direction-finding in the maritime radionavigation service. The other radionavigation services to which the band 405-415 kHz is allocated shall not cause harmful interference to radio direction-finding in the band 406.5-413.5 kHz.
5.77	*Different category of service:* in Australia, China, the French overseas communities of Region 3, Korea (Rep. of), India, Iran (Islamic Republic of), Japan, Pakistan, Papua New Guinea, the Dem. People's Rep. of Korea and Sri Lanka, the allocation of the frequency band 415-495 kHz to the aeronautical radionavigation service is on a primary basis. In Armenia, Azerbaijan, Belarus, the Russian Federation, Kazakhstan, Latvia, Uzbekistan and Kyrgyzstan, the allocation of the frequency band 435-495 kHz to the aeronautical radionavigation service is on a primary basis. Administrations in all the aforementioned countries shall take all practical steps necessary to ensure that aeronautical radionavigation stations in the frequency band 435-495 kHz do not cause interference to reception by coast stations of transmissions from ship stations on frequencies designated for ship stations on a worldwide basis. (WRC-19)
5.78	*Different category of service:* in Cuba, the United States of America and Mexico, the allocation of the band 415-435 kHz to the aeronautical radionavigation service is on a primary basis.
5.79	In the maritime mobile service, the frequency bands 415-495 kHz and 505-526.5 kHz are limited to radiotelegraphy and may also be used for the NAVDAT system in accordance with the most recent version of Recommendation ITU-R. M.2010, subject to agreement between interested and affected administrations. NAVDAT transmitting stations are limited to coast stations. (WRC-19).
5.79A	When establishing coast stations in the NAVTEX service on the frequencies 490 kHz, 518 kHz and 4 209.5 kHz, administrations are strongly recommended to coordinate the operating characteristics in accordance with the procedures of the International Maritime Organization (IMO) (see Resolution **339 (Rev.WRC-07)**). (WRC-07)
5.80	In Region 2, the use of the band 435-495 kHz by the aeronautical radionavigation service is limited to non-directional beacons not employing voice transmission.
5.80A	The maximum equivalent isotropically radiated power (e.i.r.p.) of stations in the amateur service using frequencies in the band 472-479 kHz shall not exceed 1 W. Administrations may increase this limit of e.i.r.p. to 5 W in portions of their territory which are at a distance of over 800 km from the borders of Algeria, Saudi Arabia, Azerbaijan, Bahrain, Belarus, China, Comoros, Djibouti, Egypt, United Arab Emirates, the Russian Federation, Iran (Islamic Republic of), Iraq, Jordan, Kazakhstan, Kuwait, Lebanon, Libya, Morocco, Mauritania, Oman, Uzbekistan, Qatar, Syrian Arab Republic, Kyrgyzstan, Somalia, Sudan, Tunisia, Ukraine and

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	Yemen. In this frequency band, stations in the amateur service shall not cause harmful interference to, or claim protection from, stations of the aeronautical radionavigation service.
5.80B	The use of the frequency band 472-479 kHz in Algeria, Saudi Arabia, Azerbaijan, Bahrain, Belarus, China, Comoros, Djibouti, Egypt, United Arab Emirates, the Russian Federation, Iraq, Jordan, Kazakhstan, Kuwait, Lebanon, Libya, Mauritania, Oman, Uzbekistan, Qatar, Syrian Arab Republic, Kyrgyzstan, Somalia, Sudan, Tunisia and Yemen is limited to the maritime mobile and aeronautical radionavigation services. The amateur service shall not be used in the abovementioned countries in this frequency band, and this should be taken into account by the countries authorizing such use.
5.81	SUP (WRC-2000)
5.82	In the maritime mobile service, the frequency 490 kHz is to be used exclusively for the transmission by coast stations of navigational and meteorological warnings and urgent information to ships, by means of narrow-band direct-printing telegraphy. The conditions for use of the frequency 490 kHz are prescribed in Articles 31 and 52. In using the frequency band 415-495 kHz for the aeronautical radionavigation service, administrations are requested to ensure that no harmful interference is caused to the frequency 490 kHz. In using the frequency band 472-479 kHz for the amateur service, administrations shall ensure that no harmful interference is caused to the frequency 490 kHz. (WRC-12)
5.82A	SUP (WRC-12)
5.82B	Administrations authorizing the use of frequencies in the band 495-505 kHz by services other than the maritime mobile service shall ensure that no harmful interference is caused to the maritime mobile service in this band or to the services having allocations in the adjacent bands, noting in particular the conditions of use of the frequencies 490 kHz and 518 kHz, as prescribed in Articles **31** and **52**. (WRC-07)
5.82C	The frequency band 495-505 kHz is used for the international NAVDAT system as described in the most recent version of Recommendation ITU-R M.2010. NAVDAT transmitting stations are limited to coast stations. (WRC-19)
5.82D	When establishing coast stations in the NAVDAT system on the frequencies 500 kHz and 4 226 kHz, the conditions for the use of the frequencies 500 kHz and 4 226 kHz are prescribed in Articles **31** and **52**. Administrations are strongly recommended to coordinate the NAVDAT systems operating characteristics in accordance with the procedures of the International Maritime Organization (IMO) (see Resolution **364 (WRC-23)**).
5.83	SUP (WRC-07)
5.84	The conditions for the use of the frequency 518 kHz by the maritime mobile service are prescribed in Articles **31** and **52**. (WRC-07)
5.85	Not used.
5.86	In Region 2, in the band 525-535 kHz the carrier power of broadcasting stations shall not exceed 1 kW during the day and 250 W at night.
5.87	*Additional allocation:* in Angola, Botswana, Eswatini, Lesotho, Malawi, Mozambique, Namibia and Niger, the frequency band 526.5-535 kHz is also allocated to the mobile service on a secondary basis. (WRC-19)

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5.87A	*Additional allocation:* in Uzbekistan, the band 526.5-1 606.5 kHz is also allocated to the radionavigation service on a primary basis. Such use is subject to agreement obtained under No. **9.21** with administrations concerned and limited to ground-based radiobeacons in operation on 27 October 1997 until the end of their lifetime. (WRC-97)
5.88	*Additional allocation:* in China, the band 526.5-535 kHz is also allocated to the aeronautical radionavigation service on a secondary basis.
5.89	In Region 2, the use of the band 1 605-1 705 kHz by stations of the broadcasting service is subject to the Plan established by the Regional Administrative Radio Conference (Rio de Janeiro, 1988). The examination of frequency assignments to stations of the fixed and mobile services in the band 1 625-1 705 kHz shall take account of the allotments appearing in the Plan established by the Regional Administrative Radio Conference (Rio de Janeiro, 1988).
5.90	In the band 1 605-1 705 kHz, in cases where a broadcasting station of Region 2 is concerned, the service area of the maritime mobile stations in Region 1 shall be limited to that provided by ground-wave propagation.
5.91	*Additional allocation:* in the Philippines and Sri Lanka, the band 1 606.5-1 705 kHz is also allocated to the broadcasting service on a secondary basis. (WRC-97)
5.92	Some countries of Region 1 use radiodetermination systems in the bands 1 606.5-1 625 kHz, 1 635-1 800 kHz, 1 850- 2 160 kHz, 2 194-2 300 kHz, 2 502-2 850 kHz and 3 500-3 800 kHz, subject to agreement obtained under No. **9.21**. The radiated mean power of these stations shall not exceed 50 W.
5.93	*Additional allocation:* in Armenia, Azerbaijan, Belarus, the Russian Federation, Georgia, Hungary, Kazakhstan, Latvia, Lithuania, Mongolia, Nigeria, Uzbekistan, Poland, Kyrgyzstan, Slovakia, Tajikistan, Chad, Turkmenistan and Ukraine, the frequency bands 1 625-1 635 kHz, 1 800-1 810 kHz and 2 160-2 170 kHz are also allocated to the fixed and land mobile services on a primary basis, subject to agreement obtained under No. **9.21**. (WRC-15)
5.94	Not used
5.95	Not used.
5.96	In Germany, Armenia, Austria, Azerbaijan, Belarus, Croatia, Denmark, Estonia, the Russian Federation, Finland, Georgia, Hungary, Ireland, Iceland, Israel, Kazakhstan, Latvia, Liechtenstein, Lithuania, Malta, Moldova, Norway, Uzbekistan, Poland, Kyrgyzstan, Slovakia, the Czech Rep., the United Kingdom, Sweden, Switzerland, Tajikistan, Turkmenistan and Ukraine, administrations may allocate up to 200 kHz to their amateur service in the frequency bands 1 715-1 800 kHz and 1 850-2 000 kHz. However, when allocating the frequency bands within this range to their amateur service, administrations shall, after prior consultation with administrations of neighbouring countries, take such steps as may be necessary to prevent harmful interference from their amateur service to the fixed and mobile services of other countries. The mean power of any amateur station shall not exceed 10 W. (WRC-15)
5.97	In Region 3, the Loran system operates either on 1 850 kHz or 1 950 kHz, the bands occupied being 1 825-1 875 kHz and 1 925-1 975 kHz respectively. Other services to which the band 1 800-2 000 kHz is allocated may use any frequency therein on condition that no harmful interference is caused to the Loran system operating on 1 850 kHz or 1 950 kHz.
5.98	*Alternative allocation:* in Armenia, Azerbaijan, Belarus, Belgium, Cameroon, Congo (Rep. of the), Denmark, Eritrea, Spain, Ethiopia, the Russian Federation, Georgia, Greece, Italy, Kazakhstan, Lebanon, Lithuania, theSyrian Arab Republic, Türkiye, Kyrgyzstan, Somalia, Tajikistan, Tunisia and Turkmenistan, the frequency band 1 810-1 830 Kh z is allocated to the fixed and mobile, except aeronautical mobile, services on a primary basis. (WRC-23)~~*Alternative allocation:* in Armenia, Azerbaijan, Belarus, Belgium, Cameroon, Congo (Rep. of the), Denmark, Egypt, Eritrea, Spain,~~

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	~~Ethiopia, the Russian Federation, Georgia, Greece, Italy, Kazakhstan, Lebanon, Lithuania, the Syrian Arab Republic, Kyrgyzstan, Somalia, Tajikistan, Tunisia, Turkmenistan and Turkey, the frequency band 1 810-1 830 kHz is allocated to the fixed and mobile, except aeronautical mobile, services on a primary basis. (WRC-15)~~
5.99	*Additional allocation:* in Saudi Arabia, Austria, Egypt, Iraq, Libya, Uzbekistan, Romania, Slovakia,Slovenia, Chad, and Togo, the frequency band 1 810-1 830 kHz is also allocated to the fixed and mobile, except aeronautical mobile, services on a primary basis. (WRC-23)~~*Additional allocation:* in Saudi Arabia, Austria, Iraq, Libya, Uzbekistan, Slovakia, Romania, Serbia, Slovenia, Chad, and Togo, the band 1 810-1 830 kHz is also allocated to the fixed and mobile, except aeronautical mobile, services on a primary basis. (WRC-12)~~
5.100	In Region 1, the authorization to use the band 1 810-1 830 kHz by the amateur service in countries situated totally or partially north of 40° N shall be given only after consultation with the countries mentioned in Nos. **5.98** and **5.99** to define the necessary steps to be taken to prevent harmful interference between amateur stations and stations of other services operating in accordance with Nos. **5.98** and **5.99**.
5.101	SUP (WRC12)
5.102	*Alternative allocation:* in Bolivia, Chile, Paraguay and Peru, the frequency band 1 850-2 000 kHz is allocated to the fixed, mobile except aeronautical mobile, radiolocation and radionavigation services on a primary basis. (WRC-15)
5.103	In Region 1, in making assignments to stations in the fixed and mobile services in the bands 1 850-2 045 kHz, 2 194-2 498 kHz, 2 502-2 625 kHz and 2 650-2 850 kHz, administrations should bear in mind the special requirements of the maritime mobile service.
5.104	In Region 1, the use of the band 2 025-2 045 kHz by the meteorological aids service is limited to oceanographic buoy stations.
5.105	In Region 2, except in Greenland, coast stations and ship stations using radiotelephony in the band 2 065-2 107 kHz shall be limited to class J3E emissions and to a peak envelope power not exceeding 1 kW. Preferably, the following carrier frequencies should be used: 2 065.0 kHz, 2 079.0 kHz, 2 082.5 kHz, 2 086.0 kHz, 2 093.0 kHz, 2 096.5 kHz, 2 100.0 kHz and 2 103.5 kHz. In Argentina and Uruguay, the carrier frequencies 2 068.5 kHz and 2 075.5 kHz are also used for this purpose, while the frequencies within the band 2 072-2 075.5 kHz are used as provided in No. **52.165**.
5.106	In Regions 2 and 3, provided no harmful interference is caused to the maritime mobile service, the frequencies between 2 065 kHz and 2 107 kHz may be used by stations of the fixed service communicating only within national borders and whose mean power does not exceed 50 W. In notifying the frequencies, the attention of the Bureau should be drawn to these provisions.
5.107	*Additional allocation:* in Saudi Arabia, Eritrea, Eswatini, Ethiopia, Iraq, Libya and Somalia, the frequency band 2 160-2 170 kHz is also allocated to the fixed and mobile, except aeronautical mobile (R), services on a primary basis. The mean power of stations in these services shall not exceed 50 W. (WRC-19)
5.108	The carrier frequency 2 182 kHz is an international distress and calling frequency for radiotelephony. The conditions for the use of the band 2 173.5-2 190.5 kHz are prescribed in Articles **31** and **52**. (WRC-07)
5.109	The frequencies 2 187.5 kHz, 4 207.5 kHz, 6 312 kHz, 8 414.5 kHz, 12 577 kHz and 16 804.5 kHz are international distress frequencies for digital selective calling. The conditions for the use of these frequencies are prescribed in Article **31**.
5.110	The frequencies 2 174.5 kHz, 4 177.5 kHz, 6 268 kHz, 8 376.5 kHz, 12 520 kHz and 16 695 kHz are used for the automatic connection system (ACS), as described in the most recent version of Recommendation ITU-R M.541. (WRC-23)~~The frequencies 2 174.5 kHz, 4 177.5 kHz, 6 268 kHz, 8 376.5 kHz, 12 520 kHz and 16 695 kHz are~~

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	~~international distress frequencies for narrow-band direct-printing telegraphy. The conditions for the use of these frequencies are prescribed in Article **31**.~~
5.111	The carrier frequencies 2 182 kHz, 3 023 kHz, 5 680 kHz, 8 364 kHz and the frequencies 121.5 MHz, 156.525 MHz, 156.8 MHz and 243 MHz may also be used, in accordance with the procedures in force for terrestrial radiocommunication services, for search and rescue operations concerning manned space vehicles. The conditions for the use of the frequencies are prescribed in Article **31**. The same applies to the frequencies 10 003 kHz, 14 993 kHz and 19 993 kHz, but in each of these cases emissions must be confined in a band of ±3 kHz about the frequency. (WRC-07)
5.112	*Alternative allocation:* in Sri Lanka, the frequency band 2 194-2 300 kHz is allocated to the fixed and mobile, except aeronautical mobile, services on a primary basis. (WRC-19)
5.113	For the conditions for the use of the bands 2 300-2 495 kHz (2 498 kHz in Region 1), 3 200-3 400 kHz, 4 750-4 995 kHz and 5 005-5 060 kHz by the broadcasting service, see Nos. **5.16** to **5.20**, **5.21** and **23.3** to **23.10**.
5.114	*Alternative allocation*: in Iraq, the frequency band 2 502-2 625 kHz is allocated to the fixed and mobile, except aeronautical mobile, services on a primary basis. (WRC-19)
5.115	The carrier (reference) frequencies 3 023 kHz and 5 680 kHz may also be used, in accordance with Article **31**, by stations of the maritime mobile service engaged in coordinated search and rescue operations. (WRC-07)
5.116	Administrations are urged to authorize the use of the band 3 155-3 195 kHz to provide a common worldwide channel for low power wireless hearing aids. Additional channels for these devices may be assigned by administrations in the bands between 3 155 kHz and 3 400 kHz to suit local needs. It should be noted that frequencies in the range 3 000 kHz to 4 000 kHz are suitable for hearing aid devices which are designed to operate over short distances within the induction field.
5.117	*Alternative allocation:* in Liberia, Sri Lanka and Togo, the frequency band 3 155-3 200 kHz is allocated to the fixed and mobile, except aeronautical mobile, services on a primary basis. (WRC-23)~~*Alternative allocation:* in Côte d'Ivoire, Egypt, Liberia, Sri Lanka and Togo, the frequency band 3 155-3 200 kHz is allocated to the fixed and mobile, except aeronautical mobile, services on a primary basis. (WRC-19)~~
5.118	*Additional allocation:* in the United States, Mexico and Peru, the frequency band 3 230-3 400 kHz is also allocated to the radiolocation service on a secondary basis. (WRC-19)
5.119	*Additional allocation:* in Peru, the frequency band 3 500-3 750 kHz is also allocated to the fixed and mobile services on a primary basis. (WRC-15)
5.120	SUP (WRC-2000)
5.121	Not used.
5.122	*Alternative allocation:* in Bolivia, Chile, Ecuador, Paraguay and Peru, the frequency band 3 750-4 000 kHz is allocated to the fixed and mobile, except aeronautical mobile, services on a primary basis. (WRC-15)
5.123	*Additional allocation:* in Botswana, Eswatini, Lesotho, Malawi, Mozambique, Namibia, South Africa, Zambia and Zimbabwe, the frequency band 3 900-3 950 kHz is also allocated to the broadcasting service on a primary basis, subject to agreement obtained under No. **9.21**. (WRC-19)
5.124	SUP (WRC-2000)
5.125	*Additional allocation:* in Greenland, the band 3 950-4 000 kHz is also allocated to the broadcasting service on a primary basis. The power of the broadcasting stations operating in this band shall not exceed that necessary for a national service and shall in no case exceed 5 kW.

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5.126	In Region 3, the stations of those services to which the band 3 995-4 005 kHz is allocated may transmit standard frequency and time signals.
5.127	The use of the band 4 000-4 063 kHz by the maritime mobile service is limited to ship stations using radiotelephony (see No. **52.220** and Appendix **17**).
5.128	Frequencies in the bands 4 063-4 123 kHz and 4 130-4 438 kHz may be used exceptionally by stations in the fixed service, communicating only within the boundary of the country in which they are located, with a mean power not exceeding 50 W, on condition that harmful interference is not caused to the maritime mobile service. In addition, in Afghanistan, Argentina, Armenia, Belarus, Botswana, Burkina Faso, the Central African Rep., China, the Russian Federation, Georgia, India, Kazakhstan, Mali, Niger, Pakistan, Kyrgyzstan, Tajikistan, Chad, Turkmenistan and Ukraine, in the frequency bands 4 063-4 123 kHz, 4 130-4 133 kHz and 4 408-4 438 kHz, stations in the fixed service, with a mean power not exceeding 1 kW, can be operated on condition that they are situated at least 600 km from the coast and that harmful interference is not caused to the maritime mobile service. (WRC-19)
5.129	SUP (WRC-07)
5.130	The conditions for the use of the carrier frequencies 4 125 kHz and 6 215 kHz are prescribed in Articles **31** and **52**. (WRC-07)
5.131	The frequency 4 209.5 kHz is used exclusively for the transmission by coast stations of meteorological and navigational warnings and urgent information to ships by means of narrow-band direct-printing techniques. (WRC-97)
5.132	The frequencies 4 210 kHz, 6 314 kHz, 8 416.5 kHz, 12 579 kHz, 16 806.5 kHz, 19 680.5 kHz,22 376 kHz and 26 100.5 kHz are the international frequencies for the transmission of maritime safety information (MSI) (see Appendices **15** and **17**). (WRC-23)~~The frequencies 4 210 kHz, 6 314 kHz, 8 416.5 kHz, 12 579 kHz, 16 806.5 kHz, 19 680.5 kHz, 22 376 kHz and 26 100.5 kHz are the international frequencies for the transmission of maritime safety information (MSI) (see Appendix 17).~~
5. 132A	Stations in the radiolocation service shall not cause harmful interference to, or claim protection from, stations operating in the fixed or mobile services. Applications of the radiolocation service are limited to oceanographic radars operating in accordance with Resolution **612 (**WRC-12).
5. 132B	*Alternative allocation:* in Armenia, Belarus, Moldova and Kyrgyzstan, the frequency band 4 438-4 488 kHz is allocated to the fixed and mobile, except aeronautical mobile (R), services on a primary basis. (WRC-19)
5.133	*Different category of service:* in Armenia, Azerbaijan, Belarus, the Russian Federation, Georgia, Kazakhstan, Latvia, Lithuania, Niger,Uzbekistan, Kyrgyzstan, Tajikistan, Turkmenistan and Ukraine, the allocation of the band 5 130-5 250 kHz to the mobile, except aeronautical mobile, service is on a primary basis (see No. **5.33**). (WRC-12)
5. 133A	*Alternative allocation:* in Armenia, Belarus, Moldova and Kyrgyzstan, the frequency bands 5 250-5 275 kHz and 26 200- 26 350 kHz are allocated to the fixed and mobile, except aeronautical mobile, services on a primary basis. (WRC-19)
5.133B	Stations in the amateur service using the frequency band 5 351.5-5 366.5 kHz shall not exceed a maximum radiated power of 15 W (e.i.r.p.). However, in Region 2 in Mexico, stations in the amateur service using the frequency band 5 351.5-5 366.5 kHz shall not exceed a maximum radiated power of 20 W (e.i.r.p.). In the following Region 2 countries: Antigua and Barbuda, Argentina, Bahamas, Barbados, Belize, Bolivia, Brazil, Chile, Colombia, Costa Rica, Cuba, Dominican Republic, Dominica, El Salvador, Ecuador, Grenada, Guatemala, Guyana, Haiti, Honduras, Jamaica, Nicaragua, Panama, Paraguay, Peru, Saint Lucia, Saint Kitts and Nevis, Saint Vincent and the Grenadines, Suriname, Trinidad and Tobago, Uruguay, Venezuela, as well as the overseas countries and territories of the Netherlands in Region 2, stations in the

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	amateur service using the frequency band 5 351.5-5 366.5 kHz shall not exceed a maximum radiated power of 25 W (e.i.r.p.). (WRC-19)
5.134	The use of the frequency bands 5 900-5 950 kHz, 7 300-7 350 kHz, 9 400-9 500 kHz, 11 600-11 650 kHz, 12 050-12 100 kHz, 13 570-13 600 kHz, 13 800-13 870 kHz, 15 600 15 800 kHz, 17 480-17 550 kHz and 18 900-19 020 kHz by the broadcasting service is subject to the application of the procedure of Article **12**. Administrations are encouraged to use these frequency bands to facilitate the introduction of digitally modulated emissions in accordance with the provisions of Resolution **517 (Rev.WRC-19)**. (WRC-19)
5.135	SUP (WRC-97)
5.136	*Additional allocation:* frequencies in the band 5 900-5 950 kHz may be used by stations in the following services, communicating only within the boundary of the country in which they are located: fixed service (in all three Regions), land mobile service (in Region 1), mobile except aeronautical mobile (R) service (in Regions 2 and 3), on condition that harmful interference is not caused to the broadcasting service. When using frequencies for these services, administrations are urged to use the minimum power required and to take account of the seasonal use of frequencies by the broadcasting service published in accordance with the Radio Regulations. (WRC-07)
5.137	On condition that harmful interference is not caused to the maritime mobile service, the bands 6 200-6 213.5 kHz and 6 220.5-6 525 kHz may be used exceptionally by stations in the fixed service, communicating only within the boundary of the country in which they are located, with a mean power not exceeding 50 W. At the time of notification of these frequencies, the attention of the Bureau will be drawn to the above conditions.
5.137A	The frequencies 6 337.5 kHz, 8 443 kHz, 12 663.5 kHz, 16 909.5 kHz and 22 450.5 kHz are the regional frequencies for the transmission of maritime safety information (MSI) by means of the NAVDAT system (see Appendices **15** and **17**). (WRC-23)
5.138	The following bands: 6 765-6 795 kHz (centre frequency 6 780 kHz), 433.05-434.79 MHz (centre frequency 433.92 MHz) in Region 1 except in the countries mentioned in No. **5.280**, 61-61.5 GHz (centre frequency 61.25 GHz), 122-123 GHz (centre frequency 122.5 GHz), and 244-246 GHz (centre frequency 245 GHz) are designated for industrial, scientific and medical (ISM) applications. The use of these frequency bands for ISM applications shall be subject to special authorization by the administration concerned, in agreement with other administrations whose radiocommunication services might be affected. In applying this provision, administrations shall have due regard to the latest relevant ITU-R Recommendations.
5.138A	Until 29 March 2009, the band 6 765-7 000 kHz is allocated to the fixed service on a primary basis and to the land mobile service on a secondary basis. After this date, this band is allocated to the fixed and the mobile except aeronautical mobile (R) services on a primary basis. (WRC-03)
5.139	*Different category of service:* until 29 March 2009, in Armenia, Azerbaijan, Belarus, the Russian Federation, Georgia, Kazakhstan, Latvia, Lithuania, Mongolia, Uzbekistan, Kyrgyzstan, Tajikistan, Turkmenistan and Ukraine, the allocation of the band 6 765-7 000 kHz to the land mobile service is on a primary basis (see No. **5.33**). (WRC-07)
5.140	*Additional allocation:* in Angola, Iraq, Somalia and Togo, the frequency band 7 000-7 050 kHz is also allocated to the fixed service on a primary basis. (WRC-15)

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5.141	*Alternative allocation:* in Egypt, Eritrea, Ethiopia, Guinea, Libya, Madagascar and Niger, the band 7 000-7 050 kHz is allocated to the fixed service on a primary basis. (WRC-12)
5.141A	*Additional allocation:* in Uzbekistan and Kyrgyzstan, the bands 7 000-7 100 kHz and 7 100-7 200 kHz are also allocated to the fixed and land mobile services on a secondary basis. (WRC-03)
5.141B	*Additional allocation:* in Algeria, Saudi Arabia, Australia, Bahrain, Botswana, Brunei Darussalam, China, Comoros, Korea (Rep. of), Diego Garcia, Djibouti, Egypt, United Arab Emirates, Eritrea, Guinea, Indonesia, Iran (Islamic Republic of), Japan, Jordan, Kuwait, Libya, Mali, Morocco, Mauritania, Niger, New Zealand, Oman, Papua New Guinea, Qatar, the Syrian Arab Republic, the Dem. People's Rep. of Korea, Singapore, Sudan, South Sudan, Tunisia, Viet Nam and Yemen, the frequency band 7 100-7 200 kHz is also allocated to the fixed and the mobile, except aeronautical mobile (R), services on a primary basis. (WRC-19)
5.141C	In Regions 1 and 3, the band 7 100-7 200 kHz is allocated to the broadcasting service until 29 March 2009 on a primary basis. (WRC-03)
5.142	Until 29 March 2009, the use of the band 7 100-7 300 kHz in Region 2 by the amateur service shall not impose constraints on the broadcasting service intended for use within Region 1 and Region 3. After 29 March 2009 the use of the band 7 200-7 300 kHz in Region 2 by the amateur service shall not impose constraints on the broadcasting service intended for use within Region 1 and Region 3. (WRC-03)
5.143	*Additional allocation:* frequencies in the band 7 300-7 350 kHz may be used by stations in the fixed service and in the land mobile service, communicating only within the boundary of the country in which they are located, on condition that harmful interference is not caused to the broadcasting service. When using frequencies for these services, administrations are urged to use the minimum power required and to take account of the seasonal use of frequencies by the broadcasting service published in accordance with the Radio Regulations. (WRC-07)
5.143A	In Region 3, the band 7 350-7 450 kHz is allocated, until 29 March 2009, to the fixed service on a primary basis and to the land mobile service on a secondary basis. After 29 March 2009, frequencies in this band may be used by stations in the above-mentioned services, communicating only within the boundary of the country in which they are located, on condition that harmful interference is not caused to the broadcasting service. When using frequencies for these services, administrations are urged to use the minimum power required and to take account of the seasonal use of frequencies by the broadcasting service published in accordance with the Radio Regulations. (WRC-03)
5.143B	In Region 1, the band 7 350-7 450 kHz is allocated, until 29 March 2009, to the fixed service on a primary basis and to the land mobile service on a secondary basis. After 29 March 2009, on condition that harmful interference is not caused to the broadcasting service, frequencies in the band 7 350-7 450 kHz may be used by stations in the fixed and land mobile services communicating only within the boundary of the country in which they are located, each station using a total radiated power that shall not exceed 24 dBW. (WRC-03)
5.143C	Additional allocation: after 29 March 2009 in Algeria, Saudi Arabia, Bahrain, Comoros, Djibouti, Egypt, United Arab Emirates, Iran (Islamic Republic of), Libya, Jordan, Kuwait, Morocco, Mauritania, Oman, Qatar, the Syrian Arab Republic, Sudan, South Sudan,Tunisia and Yemen, the bands 7 350-7 400 kHz and 7 400-7 450 kHz are also allocated to the fixed service on a primary basis. (WRC-12)
5.143D	In Region 2, the band 7 350-7 400 kHz is allocated, until 29 March 2009, to the fixed service on a primary basis and to the land mobile service on a secondary basis. After 29 March 2009, frequencies in this band may be used by stations in the above-mentioned services, communicating only within the boundary of the country in which they are located, on condition that harmful interference is not caused to the

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	broadcasting service. When using frequencies for these services, administrations are urged to use the minimum power required and to take account of the seasonal use of frequencies by the broadcasting service published in accordance with the Radio Regulations. (WRC-03)
5.143E	Until 29 March 2009, the band 7 450-8 100 kHz is allocated to the fixed service on a primary basis and to the land mobile service on a secondary basis. (WRC-03)
5.144	In Region 3, the stations of those services to which the band 7 995-8 005 kHz is allocated may transmit standard frequency and time signals.
5.145	The conditions for the use of the carrier frequencies 8 291 kHz, 12 290 kHz and 16 420 kHz are prescribed in Articles 31 and 52. (WRC-07)
5.145A	Stations in the radiolocation service shall not cause harmful interference to, or claim protection from, stations operating in the fixed service. Applications of the radiolocation service are limited to oceanographic radars operating in accordance with Resolution **612** (WRC-12).
5.145B	*Alternative allocation:* in Armenia, Belarus, Moldova and Kyrgyzstan, the frequency bands 9 305-9 355 kHz and 16 100- 16 200 kHz are allocated to the fixed service on a primary basis. (WRC-19)
5.146	*Additional allocation:* frequencies in the bands 9 400-9 500 kHz, 11 600-11 650 kHz, 12 050-12 100 kHz, 15 600-15 800 kHz, 17 480-17 550 kHz and 18 900-19 020 kHz may be used by stations in the fixed service, communicating only within the boundary of the country in which they are located, on condition that harmful interference is not caused to the broadcasting service. When using frequencies in the fixed service, administrations are urged to use the minimum power required and to take account of the seasonal use of frequencies by the broadcasting service published in accordance with the Radio Regulations. (WRC-07)
5.147	On condition that harmful interference is not caused to the broadcasting service, frequencies in the bands 9 775-9 900 kHz, 11 650-11 700 kHz and 11 975-12 050 kHz may be used by stations in the fixed service communicating only within the boundary of the country in which they are located, each station using a total radiated power not exceeding 24 dBW.

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5.149	In making assignments to stations of other services to which the bands: 13 360-13 410 kHz, 25 550-25 670 kHz, 37.5-38.25 MHz, 73-74.6 MHz in Regions 1 and 3, 150.05-153 MHz in Region 1, 322-328.6 MHz, 406.1-410 MHz, 608-614 MHz in Regions 1 and 3, 1 330-1 400 MHz, 1 610.6-1 613.8 MHz, 1 660-1 670 MHz, 1 718.8-1 722.2 MHz, 2 655-2 690 MHz, 3 260-3 267 MHz, 3 332-3 339 MHz, 3 345.8-3 352.5 MHz, 4 825-4 835 MHz, 4 950-4 990 MHz, 4 990-5 000 MHz, 6 650-6 675.2 MHz, 10.6-10.68 GHz, 14.47-14.5 GHz, 22.01-22.21 GHz, 22.21-22.5 GHz, 22.81-22.86 GHz, 23.07-23.12 GHz, 31.2-31.3 GHz, 31.5-31.8 GHz in Regions 1 and 3, 36.43-36.5 GHz, 42.5-43.5 GHz, 48.94-49.04 GHz, 76-86 GHz, 92-94 GHz, 94.1-100 GHz, 102-109.5 GHz, 111.8-114.25 GHz, 128.33-128.59 GHz, 129.23-129.49 GHz, 130-134 GHz, 136-148.5 GHz, 151.5-158.5 GHz, 168.59-168.93 GHz, 171.11-171.45 GHz, 172.31-172.65 GHz, 173.52-173.85 GHz, 195.75-196.15 GHz, 209-226 GHz, 241-250 GHz, 252-275 GHz are allocated, administrations are urged to take all practicable steps to protect the radio astronomy service from harmful interference. Emissions from spaceborne or airborne stations can be particularly serious sources of interference to the radio astronomy service (see Nos. **4.5** and **4.6** and Article **29**). (WRC-07)
5.149A	*Alternative allocation:* in Armenia, Belarus, Moldova and Kyrgyzstan, the frequency band 13 450-13 550 kHz is allocated to the fixed service on a primary basis and to the mobile, except aeronautical mobile (R), service on a secondary basis. (WRC-19)

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5.150	The following bands: 13 553-13 567 kHz (centre frequency 13 560 kHz), 26 957-27 283 kHz (centre frequency 27 120 kHz), 40.66-40.70 MHz (centre frequency 40.68 MHz), 902-928 MHz in Region 2 (centre frequency 915 MHz), 2 400-2 500 MHz (centre frequency 2 450 MHz), 5 725-5 875 MHz (centre frequency 5 800 MHz), and 24-24.25 GHz (centre frequency 24.125 GHz) are also designated for industrial, scientific and medical (ISM) applications. Radiocommunication services operating within these bands must accept harmful interference which may be caused by these applications. ISM equipment operating in these bands is subject to the provisions of No. **15.13**.
5.151	*Additional allocation:* frequencies in the bands 13 570-13 600 kHz and 13 800-13 870 kHz may be used by stations in the fixed service and in the mobile except aeronautical mobile (R) service, communicating only within the boundary of the country in which they are located, on the condition that harmful interference is not caused to the broadcasting service. When using frequencies in these services, administrations are urged to use the minimum power required and to take account of the seasonal use of frequencies by the broadcasting service published in accordance with the Radio Regulations. (WRC-07)
5.152	*Additional allocation:* in Armenia, Azerbaijan, China, Côte d'Ivoire, the Russian Federation, Georgia, Iran (Islamic Republic of), Kazakhstan, Uzbekistan, Kyrgyzstan, Tajikistan, Turkmenistan and Ukraine, the band 14 250-14 350 kHz is also allocated to the fixed service on a primary basis. Stations of the fixed service shall not use a radiated power exceeding 24 dBW. (WRC-03)
5.153	In Region 3, the stations of those services to which the band 15 995-16 005 kHz is allocated may transmit standard frequency and time signals.
5.154	*Additional allocation:* in Armenia, Azerbaijan, the Russian Federation, Georgia, Kazakhstan, Kyrgyzstan, Tajikistan, Turkmenistan and Ukraine, the band 18 068-18 168 kHz is also allocated to the fixed service on a primary basis for use within their boundaries, with a peak envelope power not exceeding 1 kW. (WRC-03)
5.155	*Additional allocation:* in Armenia, Azerbaijan, Belarus, the Russian Federation, Georgia, Moldova,Uzbekistan, Kyrgyzstan, Slovakia, Tajikistan, Turkmenistan and Ukraine, the frequency band 21 850-21 870 kHz is also allocated to the aeronautical mobile (R) service on a primary basis. (WRC-23)~~*Additional allocation:* in Armenia, Azerbaijan, Belarus, the Russian Federation, Georgia, Kazakhstan, Moldova, Mongolia, Uzbekistan, Kyrgyzstan, Slovakia, Tajikistan, Turkmenistan and Ukraine, the band 21 850-21 870 kHz is also allocated to the aeronautical mobile (R) service on a primary basis. (WRC-07)~~
5.155A	In Armenia, Azerbaijan, Belarus, the Russian Federation, Georgia, Moldova, Uzbekistan, Kyrgyzstan,Slovakia, Tajikistan, Turkmenistan and Ukraine, the use of the frequency band 21 850-21 870 kHz by the fixed service is limited to provision of services related to aircraft flight safety. (WRC-23)~~In Armenia, Azerbaijan, Belarus, the Russian Federation, Georgia, Kazakhstan, Moldova, Mongolia, Uzbekistan, Kyrgyzstan, Slovakia, Tajikistan, Turkmenistan and Ukraine, the use of the band 21 850-21 870 kHz by the fixed service is limited to provision of services related to aircraft flight safety. (WRC-07)~~
5.155B	The band 21 870-21 924 kHz is used by the fixed service for provision of services related to aircraft flight safety.
5.156	*Additional allocation:* in Nigeria, the band 22 720-23 200 kHz is also allocated to the meteorological aids service (radiosondes) on a primary basis.

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5.156A	The use of the band 23 200-23 350 kHz by the fixed service is limited to provision of services related to aircraft flight safety.
5.157	The use of the band 23 350-24 000 kHz by the maritime mobile service is limited to inter-ship radiotelegraphy.
5.158	*Alternative allocation:* in Armenia, Belarus, Moldova and Kyrgyzstan, the frequency band 24 450-24 600 kHz is allocated to the fixed and land mobile services on a primary basis. (WRC-19)
5.159	*Alternative allocation:* in Armenia, Belarus, Moldova and Kyrgyzstan, the frequency band 39-39.5 MHz is allocated to the fixed and mobile services on a primary basis. (WRC-19)
5.159A	The use of the frequency band 40-50 MHz by the Earth exploration-satellite service (active) shall be in accordance with the geographical area restrictions and the operational and technical conditions defined in Resolution **677 (WRC-23)**. The provisions of this footnote in no way diminish the obligation of the Earth exploration satellite service (active) to operate as a secondary service in accordance with Nos. **5.29** and **5.30**. (WRC-23)
5.160	*Additional allocation:* in Botswana, Burundi, Dem. Rep. of the Congo and Rwanda, the band 41-44 MHz is also allocated to the aeronautical radionavigation service on a primary basis. (WRC-12)
5.161	*Additional allocation:* in Iran (Islamic Republic of) and Japan, the band 41-44 MHz is also allocated to the radiolocation service on a secondary basis.
5.161A	*Additional allocation:* in Korea (Rep. of), the United States and Mexico, the frequency bands 41.015-41.665 MHz and 43.35-44 MHz are also allocated to the radiolocation service on a primary basis. Stations in the radiolocation service shall not cause harmful interference to, or claim protection from, stations operating in the fixed or mobile services. Applications of the radiolocation service are limited to oceanographic radars operating in accordance with Resolution **612** (**Rev.WRC-12)**. (WRC-19)
5.161B	*Alternative allocation:* in Albania, Germany, Armenia, Austria, Belarus, Belgium, Bosnia and Herzegovina, Cyprus, Vatican, Croatia, Denmark, Spain, Estonia, Finland, France, Greece, Hungary, Ireland, Iceland, Italy, Latvia, Liechtenstein, Lithuania, Luxembourg, North Macedonia, Malta, Moldova, Monaco, Montenegro, Norway, Uzbekistan, Netherlands, Portugal, Kyrgyzstan, Slovakia, Czech Rep., Romania, United Kingdom, San Marino, Slovenia, Sweden, Switzerland, Turkey and Ukraine, the frequency band 42-42.5 MHz is allocated to the fixed and mobile services on a primary basis. (WRC-19)
5.162	*Additional allocation:* in Australia, the band 44-47 MHz is also allocated to the broadcasting service on a primary basis.
5.162A	*Additional allocation:* in Germany, Australia, Austria, Belgium, Bosnia and Herzegovina, China, Vatican,Korea (Rep. of), Denmark, Spain, Estonia, the Russian Federation, Finland, France, Indonesia, Ireland, Iceland, Italy,Japan, Latvia, Liechtenstein, Lithuania, Luxembourg, North Macedonia, Monaco, Montenegro, Norway, the Netherlands,Poland, Portugal, the Dem. People's Rep. of Korea, the Czech Rep., the United Kingdom, Serbia, Slovenia, Sweden andSwitzerland, the frequency band 46-68 MHz is also allocated to the radiolocation service on a secondary basis. This use is limited to the operation of wind profiler radars in accordance with Resolution **217 (Rev.WRC-23)**.~~Additional allocation: in Germany, Austria, Belgium, Bosnia and Herzegovina, China, Vatican, Denmark, Spain, Estonia, the Russian Federation, Finland, France, Ireland, Iceland, Italy, Latvia, Liechtenstein, Lithuania, Luxembourg, North Macedonia, Monaco, Montenegro, Norway, the Netherlands, Poland, Portugal, the Czech Rep., the United Kingdom, Serbia, Slovenia, Sweden and Switzerland the frequency band 46-68 MHz is also allocated to the radiolocation service on a secondary basis. This use is limited to the operation of wind profiler radars in accordance with Resolution **217 (WRC-97)**. (WRC-19)~~

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5.163	Additional allocation: in Germany, Australia, Austria, Belgium, Bosnia and Herzegovina, China, Vatican, Korea (Rep. of), Denmark, Spain, Estonia, the Russian Federation, Finland, France, Indonesia, Ireland, Iceland, Italy,Japan, Latvia, Liechtenstein, Lithuania, Luxembourg, North Macedonia, Monaco, Montenegro, Norway, the Netherlands, Poland, Portugal, the Dem. People's Rep. of Korea, the Czech Rep., the United Kingdom, Serbia, Slovenia, Sweden and Switzerland, the frequency band 46-68 MHz is also allocated to the radiolocation service on a secondary basis. This use is limited to the operation of wind profiler radars in accordance with Resolution 217 (Rev.WRC-23). (WRC-23)~~*Additional allocation:* in Armenia, Belarus, the Russian Federation, Georgia, Hungary, Kazakhstan, Latvia, Lithuania, Moldova, Uzbekistan, Kyrgyzstan, Tajikistan, Turkmenistan and Ukraine, the bands 47-48.5 MHz and 56.5-58 MHz are also allocated to the fixed and land mobile services on a secondary basis. (WRC-12)~~
5.164	*Additional allocation:* in Albania, Algeria, Germany, Austria, Belgium, Bosnia and Herzegovina, Botswana, Bulgaria, Côte d'Ivoire, Croatia, Denmark, Spain, Estonia, Eswatini, Finland, France, Gabon, Greece, Hungary, Ireland, Israel, Italy, Jordan, Lebanon, Libya, Liechtenstein, Lithuania, Luxembourg, Madagascar, Mali, Malta, Morocco, Mauritania, Monaco, Montenegro, Nigeria, Norway, the Netherlands, Poland, Syrian Arab Republic, Slovakia, Czech Rep., Romania, the United Kingdom, Serbia, Slovenia, Sweden, Switzerland, Chad, Togo, Tunisia and Turkey, the frequency band 47-68 MHz, in South Africa the frequency band 47-50 MHz, and in Latvia the frequency bands 48.5-56.5 MHz and 58-68 MHz, are also allocated to the land mobile service on a primary basis. However, stations of the land mobile service in the countries mentioned in connection with each frequency band referred to in this footnote shall not cause harmful interference to, or claim protection from, existing or planned broadcasting stations of countries other than those mentioned in connection with the frequency band. (WRC-19)
5.165	*Additional allocation:* in Angola, Cameroon, Congo (Rep. of the), Egypt, Madagascar, Mozambique, Niger, Somalia, Sudan, South Sudan, Tanzania and Chad, the frequency band 47-68 MHz is also allocated to the fixed and mobile, except aeronautical mobile, services on a primary basis. (WRC-19)
5.166	SUP (WRC-15)
5.166A	*Different category of service:* in Austria, Cyprus, the Vatican, Croatia, Denmark, Spain, Finland, Hungary, Latvia, the Netherlands, the Czech Republic, the United Kingdom, Slovakia and Slovenia, the frequency band 50.0-50.5 MHz is allocated to the amateur service on a primary basis. Stations in the amateur service in these countries shall not cause harmful interference to, or claim protection from, stations of the broadcasting, fixed and mobile services operating in accordance with the Radio Regulations in the frequency band 50.0-50.5 MHz in the countries not listed in this provision. For a station of these services, the protection criteria in No. **5.169B** shall also apply. In Region 1, with the exception of those countries listed in No. **5.169**, wind profiler radars operating in the radiolocation service under No. **5.162A** are authorized to operate on the basis of equality with stations in the amateur service in the frequency band 50.0-50.5 MHz. (WRC-19)
5.166B	In Region 1, stations in the amateur service operating on a secondary basis shall not cause harmful interference to, or claim protection from, stations of the broadcasting service. The field strength generated by an amateur station in Region 1 in the frequency band 50-52 MHz shall not exceed a calculated value of +6 dB(μV/m) at a height of 10 m above ground for more than 10% of time along the border of a country with operational analogue broadcasting stations in Region 1 and of neighbouring countries with broadcasting stations in Region 3 listed in Nos. **5.167** and **5.168**. (WRC-19)

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5.166C	In Region 1, stations in the amateur service in the frequency band 50-52 MHz, with the exception of those countries listed in No. **5.169**, shall not cause harmful interference to, or claim protection from, wind profiler radars operating in the radiolocation service under No. **5.162A**. (WRC-19)
5.166D	*Different category of service:* in Lebanon, the frequency band 50-52 MHz is allocated to the amateur service on a primary basis. Stations in the amateur service in Lebanon shall not cause harmful interference to, or claim protection from, stations of the broadcasting, fixed and mobile services operating in accordance with the Radio Regulations in the frequency band 50-52 MHz in the countries not listed in this provision. (WRC-19)
5.166E	In the Russian Federation, only the frequency band 50.080-50.280 MHz is allocated to the amateur service on a secondary basis. The protection criteria for the other services in the countries not listed in this provision are specified in Nos. **5.166B** and **5.169B**. (WRC-19)
5.167	*Alternative allocation:* in Bangladesh, Brunei Darussalam, India, Iran (Islamic Republic of), Pakistan and Singapore, the frequency band 50-54 MHz is allocated to the fixed, mobile and broadcasting services on a primary basis. (WRC-15)
5.167A	Additional allocation: in Indonesia and Thailand, the frequency band 50-54 MHz is also allocated to the fixed, mobile and broadcasting services on a primary basis. (WRC-15)
5.168	*Additional allocation:* in Australia, China and the Dem. People's Rep. of Korea, the band 50-54 MHz is also allocated to the broadcasting service on a primary basis.
5.169	*Alternative allocation:* in Botswana, Eswatini, Lesotho, Malawi, Namibia, Rwanda, South Africa, Zambia and Zimbabwe, the frequency band 50-54 MHz is allocated to the amateur service on a primary basis. In Senegal, the frequency band 50-51 MHz is allocated to the amateur service on a primary basis. (WRC-19)
5.169A	*Alternative allocation:* in the following countries in Region 1: Angola, Saudi Arabia, Bahrain, Burkina Faso, Burundi, the United Arab Emirates, Gambia, Jordan, Kenya, Kuwait, Mauritius, Mozambique, Oman, Uganda, Qatar, South Sudan and Tanzania, the frequency band 50-54 MHz is allocated to the amateur service on a primary basis. In Guinea-Bissau, the frequency band 50.0-50.5 MHz is allocated to the amateur service on a primary basis. In Djibouti, the frequency band 50-52 MHz is allocated to the amateur service on a primary basis. With the exception of those countries listed in No. **5.169**, stations in the amateur service operating in Region 1 under this footnote, in all or part of the frequency band 50- 54 MHz, shall not cause harmful interference to, or claim protection from, stations of other services operating in accordance with the Radio Regulations in Algeria, Egypt, Iran (Islamic Republic of), Iraq, Israel, Libya, Palestine*, the Syrian Arab Republic, the Dem. People's Republic of Korea, Sudan and Tunisia. The field strength generated by an amateur station in the frequency band 50-54 MHz shall not exceed a value of +6 dB(μV/m) at a height of 10 m above ground for more than 10% of time along the borders of listed countries requiring protection. (WRC-19)
5.169B	Except countries listed under No. **5.169**, stations in the amateur service used in Region 1, in all or part of the 50-54 MHz frequency band, shall not cause harmful interference to, or claim protection from, stations of other services used in accordance with the Radio Regulations in Algeria, Armenia, Azerbaijan, Belarus, Egypt, Russian Federation, Iran (Islamic Republic of), Iraq, Kazakhstan, Kyrgyzstan, Libya, Uzbekistan, Palestine*, the Syrian Arab Republic, Sudan, Tunisia and Ukraine. The field strength generated by an amateur station in the frequency band 50-54 MHz shall not exceed a value of +6 dB(μV/m) at a height of 10 m above ground for more than 10% of time along the borders of the countries listed in this provision. (WRC-19)
5.170	*Additional allocation:* in New Zealand, the frequency band 51-54 MHz is also allocated to the fixed and mobile services on a primary basis. (WRC-15)

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5.171	*Additional allocation:* in Botswana, Eswatini, Lesotho, Malawi, Mali, Namibia, Dem. Rep. of the Congo, Rwanda, South Africa, Zambia and Zimbabwe, the frequency band 54-68 MHz is also allocated to the fixed and mobile, except aeronautical mobile, services on a primary basis. (WRC-19)
5.172	*Different category of service:* in the French overseas departments and communities in Region 2 and Guyana, the allocation of the frequency band 54-68 MHz to the fixed and mobile services is on a primary basis (see No. **5.33**). (WRC- 15)
5.173	*Different category of service:* in the French overseas departments and communities in Region 2 and Guyana, the allocation of the frequency band 68-72 MHz to the fixed and mobile services is on a primary basis (see No. **5.33**). (WRC- 15)
5.175	*Alternative allocation:* in Armenia, Belarus, the Russian Federation, Kazakhstan, Moldova, Uzbekistan, Kyrgyzstan, Tajikistan, Turkmenistan and Ukraine, the frequency bands 68-73 MHz and 76-87.5 MHz are allocated to the broadcasting service on a primary basis. In Latvia and Lithuania, the frequency bands 68-73 MHz and 76-87.5 MHz are allocated to the broadcasting and mobile, except aeronautical mobile, services on a primary basis. In Mongolia, the frequency band 76-87.5 MHz is allocated to the broadcasting service on a primary basis; the stations of the broadcasting service shall not cause harmful interference to, or claim protection from, existing or planned fixed and mobile stations in the neighbouring countries. The services to which these frequency bands are allocated in other countries and the broadcasting service in the countries listed above are subject to agreements with the neighbouring countries concerned. (WRC-23)~~*Alternative allocation:* in Armenia, Azerbaijan, Belarus, the Russian Federation, Georgia, Kazakhstan, Moldova, Uzbekistan, Kyrgyzstan, Tajikistan, Turkmenistan and Ukraine, the bands 68-73 MHz and 76-87.5 MHz are allocated to the broadcasting service on a primary basis. In Latvia and Lithuania, the bands 68-73 MHz and 76-87.5 MHz are allocated to the broadcasting and mobile, except aeronautical mobile, services on a primary basis. The services to which these bands are allocated in other countries and the broadcasting service in the countries listed above are subject to agreements with the neighbouring countries concerned. (WRC-07)~~
5.176	*Additional allocation:* in Australia, China, Korea (Rep. of), the Philippines, the Dem. People's Rep. of Korea and Samoa, the band 68-74 MHz is also allocated to the broadcasting service on a primary basis. (WRC-07)
5.177	*Additional allocation:* in Armenia, ~~Azerbaijan,~~ Belarus, the Russian Federation, ~~Georgia,~~ Kazakhstan, Uzbekistan, Kyrgyzstan, Tajikistan, Turkmenistan and Ukraine, the band 73-74 MHz is also allocated to the broadcasting service on a primary basis, subject to agreement obtained under No. **9.21**. (WRC-~~07~~23)
5.178	*Additional allocation:* in Colombia, Cuba, El Salvador, Guatemala, Guyana, Honduras and Nicaragua, the band 73-74.6 MHz is also allocated to the fixed and mobile services on a secondary basis. (WRC-12)
5.179	*Additional allocation:* in Armenia, Azerbaijan, Belarus, China, the Russian Federation, Georgia, Kazakhstan, Lithuania, Mongolia, Kyrgyzstan, Slovakia, Tajikistan, Turkmenistan and Ukraine, the bands 74.6-74.8 MHz and 75.2-75.4 MHz are also allocated to the aeronautical radionavigation service, on a primary basis, for ground-based transmitters only. (WRC-07)
5.180	The frequency 75 MHz is assigned to marker beacons. Administrations shall refrain from assigning frequencies close to the limits of the guardband to stations of other services which, because of their power or geographical position, might cause harmful interference or otherwise place a constraint on marker beacons. Every effort should be made to improve further the characteristics of airborne receivers and to limit the power of transmitting stations close to the limits 74.8 MHz and 75.2 MHz.

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5.181	*Additional allocation:* in Egypt, Israel and the Syrian Arab Republic, the band 74.8-75.2 MHz is also allocated to the mobile service on a secondary basis, subject to agreement obtained under No. **9.21**. In order to ensure that harmful interference is not caused to stations of the aeronautical radionavigation service, stations of the mobile service shall not be introduced in the band until it is no longer required for the aeronautical radionavigation service by any administration which may be identified in the application of the procedure invoked under No. **9.21**. (WRC-03)
5.182	*Additional allocation:* in Western Samoa, the band 75.4-87 MHz is also allocated to the broadcasting service on a primary basis.
5.183	*Additional allocation:* in China, Korea (Rep. of), Japan, the Philippines and the Dem. People's Rep. of Korea, the band 76-87 MHz is also allocated to the broadcasting service on a primary basis.
5.184	SUP (WRC-07)
5.185	*Different category of service: in the United States, the French overseas departments and communities in Region 2 and Guyana, the allocation of the frequency band 76-88 MHz to the fixed and mobile services is on a primary basis (see No. **5.33**). (WRC-23)* ~~*Different category of service:* in the United States, the French overseas departments and communities in Region 2, and Guyana and Paraguay, , the allocation of the frequency band 76-88 MHz to the fixed and mobile services is on a primary basis (see No. **5.33**). (WRC-15)~~
5.186	SUP (WRC-97)
5.187	*Alternative allocation:* in Albania, the band 81-87.5 MHz is allocated to the broadcasting service on a primary basis and used in accordance with the decisions contained in the Final Acts of the Special Regional Conference (Geneva, 1960).
5.188	*Additional allocation:* in Australia, the band 85-87 MHz is also allocated to the broadcasting service on a primary basis. The introduction of the broadcasting service in Australia is subject to special agreements between the administrations concerned.
5.189	Not used.
5.190	*Additional allocation:* in Monaco, the band 87.5-88 MHz is also allocated to the land mobile service on a primary basis, subject to agreement obtained under No. **9.21**. (WRC-97)
5.191	Not used.
5.192	*Additional allocation:* in China and Korea (Rep. of), the band 100-108 MHz is also allocated to the fixed and mobile services on a primary basis. (WRC-97)
5.193	Not used.
5.194	*Additional allocation:* in Kyrgyzstan, Somalia and Turkmenistan, the frequency band 104-108 MHz is also allocated to the mobile, except aeronautical mobile (R), service on a secondary basis. (WRC-19)
5.195	Not used
5.196	Not used.
5.197	*Additional allocation:* in the Syrian Arab Republic, the band 108-111.975 MHz is also allocated to the mobile service on a secondary basis, subject to agreement obtained under No. **9.21**. In order to ensure that harmful interference is not caused to stations of the aeronautical radionavigation service, stations of the mobile service shall not be introduced in the band until it is no longer required for the aeronautical radionavigation service by any administration which may be identified in the application of the procedures invoked under No. **9.21**. (WRC-12)

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5.197A	~~*Additional allocation:* the band 108-117.975 MHz is also allocated on a primary basis to the aeronautical mobile (R) service, limited to systems operating in accordance with recognized international aeronautical standards. Such use shall be in accordance with Resolution **413 (Rev.WRC-07)**. The use of the band 108-112 MHz by the aeronautical mobile (R) service shall be limited to systems composed of ground-based transmitters and associated receivers that provide navigational information in support of air navigation functions in accordance with recognized international aeronautical standards. (WRC-07)~~Additional allocation: the frequency band 108-117.975 MHz is also allocated on a primary basis to the aeronautical mobile (R) service, limited to systems operating in accordance with recognized international aeronautical standards. Such use shall be in accordance with Resolution 413 (Rev.WRC-23). The use of the frequency band 108-112 MHz by the aeronautical mobile (R) service shall be limited to systems composed of ground-based transmitters and associated receivers that provide navigational information in support of air navigation functions in accordance with recognized international aeronautical standards. (WRC-23)
5.198A	The use of the frequency band 117.975-137 MHz by the aeronautical mobile-satellite (R) service is subject to coordination under No. 9.11A. No. 9.16 does not apply. Such use shall be limited to non-geostationary-satellite systems operated in accordance with international aeronautical standards. Resolution 406 (WRC-23) applies. (WRC-23)
5.198B	The use of the frequency band 117.975-137 MHz by the aeronautical mobile (R) service shall have priority over use by the aeronautical mobile-satellite (R) service. (WRC-23)
5.200	In the frequency band 117.975-137 MHz, the frequency 121.5 MHz is the aeronautical emergency frequency and, where required, the frequency 123.1 MHz is the aeronautical frequency auxiliary to 121.5 MHz. Mobile stations of the maritime mobile service may communicate on these frequencies under the conditions laid down in Article 31 for distress and safety purposes with stations of the aeronautical mobile service and the aeronautical mobilesatellite service. (WRC-23)~~In the band 117.975-137 MHz, the frequency 121.5 MHz is the aeronautical emergency frequency and, where required, the frequency 123.1 MHz is the aeronautical frequency auxiliary to 121.5 MHz. Mobile stations of the maritime mobile service may communicate on these frequencies under the conditions laid down in Article 31 for distress and safety purposes with stations of the aeronautical mobile service.~~
5.201	*Additional allocation:* in Saudi Arabia, Armenia, Azerbaijan, Bahrain, Egypt, Estonia, the Russian Federation, Georgia, Hungary, Iran (Islamic Republic of), Iraq (Republic of), Japan, Kazakhstan, Mali, Mongolia, Mozambique, Uzbekistan, Papua New Guinea, Poland, Qatar, Kyrgyzstan, Romania, Senegal, Somalia, Tajikistan and Turkmenistan, the frequency band 132-136 MHz is also allocated to the aeronautical mobile (OR) service on a primary basis. In assigning frequencies to stations of the aeronautical mobile (OR) service, the administration shall take account of the frequencies assigned to stations in the aeronautical mobile (R) service. (WRC-23)~~*Additional allocation:* in Armenia, Azerbaijan, Belarus, Bulgaria, Estonia, the Russian Federation, Georgia, Hungary, Iran (Islamic Republic of), Iraq (Republic of), Japan, Kazakhstan, Mali, Mongolia, Mozambique, Uzbekistan, Papua New Guinea, Poland, Kyrgyzstan, Romania, Senegal, Tajikistan, Turkmenistan and Ukraine, the frequency band 132-136 MHz is also allocated to the aeronautical mobile (OR) service on a primary basis. In assigning frequencies to stations of the aeronautical mobile (OR) service, the administration shall take account of the frequencies assigned to stations in the aeronautical mobile (R) service. (WRC-19)~~

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5.202	*Additional allocation:* in Saudi Arabia, Armenia, Azerbaijan, Bahrain, the United Arab Emirates, the Russian Federation, Georgia, Iran (Islamic Republic of), Jordan, Mali, Oman, Uzbekistan, Poland, the Syrian Arab Republic, Kyrgyzstan, Romania, Senegal, Tajikistan and Turkmenistan, the frequency band 136-137 MHz is also allocated to the aeronautical mobile (OR) service on a primary basis. In assigning frequencies to stations of the aeronautical mobile (OR) service, the administration shall take account of the frequencies assigned to stations in the aeronautical mobile (R) service. (WRC-23)~~*Additional allocation:* in Saudi Arabia, Armenia, Azerbaijan, Bahrain, Belarus, Bulgaria, the United Arab Emirates, the Russian Federation, Georgia, Iran (Islamic Republic of), Jordan, Mali, Oman, Uzbekistan, Poland, the Syrian Arab Republic, Kyrgyzstan, Romania, Senegal, Tajikistan, Turkmenistan and Ukraine, the frequency band 136-137 MHz is also allocated to the aeronautical mobile (OR) service on a primary basis. In assigning frequencies to stations of the aeronautical mobile (OR) service, the administration shall take account of the frequencies assigned to stations in the aeronautical mobile (R) service. (WRC-19)~~
5.203	SUP (WRC-07)
5.203A	SUP(WRC-07)
5.203B	SUP(WRC-07)
5.203C	The use of the space operation service (space-to-Earth) with non-geostationary satellite short-duration mission systems in the frequency band 137-138 MHz is subject to Resolution **660 (WRC-19)**. Resolution **32 (WRC-19)** applies. These systems shall not cause harmful interference to, or claim protection from, the existing services to which the frequency band is allocated on a primary basis. (WRC-19)
5.204	*Different category of service:* in Afghanistan, Saudi Arabia, Bahrain, Bangladesh, Brunei Darussalam, China, Cuba, the United Arab Emirates, India, Indonesia, Iran (Islamic Republic of), Iraq, Kuwait, Montenegro, Oman, Pakistan, the Philippines, Qatar, Singapore, Thailand and Yemen, the frequency band 137-138 MHz is allocated to the fixed and mobile, except aeronautical mobile (R), services on a primary basis (see No. **5.33**). (WRC-19)
5.205	*Different category of service:* in Israel and Jordan, the allocation of the band 137-138 MHz to the fixed and mobile, except aeronautical mobile, services is on a primary basis (see No. **5.33**).
5.206	*Different category of service:* in Armenia, Azerbaijan, Belarus, Bulgaria, Egypt, the Russian Federation, Finland, France, Georgia, Greece, Kazakhstan, Lebanon, Moldova, Mongolia, Uzbekistan, Poland, Kyrgyzstan, the Syrian Arab Republic, Slovakia, the Czech Rep., Romania, Tajikistan, Turkmenistan and Ukraine, the allocation of the band 137-138 MHz to the aeronautical mobile (OR) service is on a primary basis (see No. **5.33**). (WRC-2000)
5.207	*Additional allocation:* in Australia, the band 137-144 MHz is also allocated to the broadcasting service on a primary basis until that service can be accommodated within regional broadcasting allocations.
5.208	The use of the band 137-138 MHz by the mobile-satellite service is subject to coordination under No. **9.11A**. (WRC-97)
5.208A	In making assignments to space stations in the mobile-satellite service in the frequency bands 137-138 MHz, 387-390 MHz and 400.15-401 MHz and in the maritime mobile-satellite service (space-to-Earth) in the frequency bands 157.1875-157.3375 MHz and 161.7875- 161.9375 MHz, administrations shall take all practicable steps to protect the radio astronomy service in the frequency bands 150.05-153 MHz, 322-328.6 MHz, 406.1-410 MHz and 608-614 MHz from harmful interference from unwanted emissions as shown in the most recent version of Recommendation ITU-R RA.769. (WRC-19)

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5.208B*	In the frequency bands: 137-138 MHz, 157.1875-157.3375 MHz, 161.7875-161.9375 MHz, 387-390 MHz, 400.15-401 MHz, 1 452-1 492 MHz, 1 525-1 610 MHz, 1 613.8-1 626.5 MHz, 2 655-2 690 MHz, 21.4-22 GHz, Resolution **739 (Rev.WRC-19**) applies. (WRC-19) * This provision was previously numbered as No. **5.347A**. It was renumbered to preserve the sequential order.
5.209	The use of the bands 137-138 MHz, 148-150.05 MHz, 399.9-400.05 MHz, 400.15-401 MHz, 454-456 MHz and 459-460 MHz by the mobile-satellite service is limited to non-geostationary-satellite systems. (WRC-97)
5.209A	The use of the frequency band 137.175-137.825 MHz by non-geostationary satellite systems in the space operation service identified as short-duration mission in accordance with Appendix 4 is not subject to No. 9.11A. (WRC-19)
5.210	*Additional allocation:* in Italy, ~~the Czech Rep.~~ and the United Kingdom, the bands 138-143.6 MHz and 143.65-144 MHz are also allocated to the space research service (space-to-Earth) on a secondary basis. (WRC-23~~07~~)
5.211	*Additional allocation:* in Germany, Saudi Arabia, Austria, Bahrain, Belgium, Denmark, the United Arab Emirates, Spain, Finland, Greece, Guinea, Ireland, Israel, Kenya, Kuwait, Lebanon, Liechtenstein, Luxembourg, North Macedonia, Mali, Malta, Montenegro, Norway, the Netherlands, Qatar, Slovakia, the United Kingdom, Serbia, Slovenia, Somalia, Sweden, Switzerland, Tanzania, Tunisia and Turkey, the frequency band 138-144 MHz is also allocated to the maritime mobile and land mobile services on a primary basis. (WRC-19)
5.212	*Alternative allocation:* in Angola, Botswana, Cameroon, the Central African Rep., Congo (Rep. of the), Eswatini, Gabon, Gambia, Ghana, Guinea, Iraq, Jordan, Lesotho, Liberia, Libya, Malawi, Mozambique, Namibia, Niger, Oman, Uganda, Syrian Arab Republic, the Dem. Rep. of the Congo, Rwanda, Sierra Leone, South Africa, Chad, Togo, Zambia and Zimbabwe, the frequency band 138-144 MHz is allocated to the fixed and mobile services on a primary basis. (WRC-19)
5.213	*Additional allocation:* in China, the band 138-144 MHz is also allocated to the radiolocation service on a primary basis.
5.214	*Additional allocation:* in Eritrea, Ethiopia, Kenya, North Macedonia, Montenegro, Serbia, Somalia, Sudan, South Sudan and Tanzania, the frequency band 138-144 MHz is also allocated to the fixed service on a primary basis. (WRC-19)
5.215	Not used.
5.216	*Additional allocation:* in China, the band 144-146 MHz is also allocated to the aeronautical mobile (OR) service on a secondary basis.
5.217	*Alternative allocation:* in Afghanistan, Bangladesh, Cuba, Guyana and India, the band 146-148 MHz is allocated to the fixed and mobile services on a primary basis.
5.218	*Additional allocation:* the band 148-149.9 MHz is also allocated to the space operation service (Earth-to-space) on a primary basis, subject to agreement obtained under No. **9.21**. The bandwidth of any individual transmission shall not exceed ±25 kHz.
5.218A	The frequency band 148-149.9 MHz in the space operation service (Earth-to-space) may be used by nongeostationary- satellite systems with short-duration missions. Non-geostationary-satellite systems in the space operation service used for a short-

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	duration mission in accordance with Resolution **32 (WRC-19)** of the Radio Regulations are not subject to agreement under No. **9.21**. At the stage of coordination, the provisions of Nos. **9.17** and **9.18** also apply. In the frequency band 148-149.9 MHz, non-geostationary-satellite systems with short-duration missions shall not cause unacceptable interference to, or claim protection from, existing primary services within this frequency band, or impose additional constraints on the space operation and mobile-satellite services. In addition, earth stations in non-geostationary- satellite systems in the space operation service with short-duration missions in the frequency band 148-149.9 MHz shall ensure that the power flux-density does not exceed −149 dB(W/(m2 · 4 kHz)) for more than 1% of time at the border of the territory of the following countries: Armenia, Azerbaijan, Belarus, China, Korea (Rep. of), Cuba, Russian Federation, India, Iran (Islamic Republic of), Japan, Kazakhstan, Malaysia, Uzbekistan, Kyrgyzstan, Thailand and Viet Nam. In case this power flux-density limit is exceeded, agreement under No. **9.21** is required to be obtained from countries mentioned in this footnote. (WRC-19)
5.219	The use of the frequency band 148-149.9 MHz by the mobile-satellite service is subject to coordination under No. **9.11A**. The mobile-satellite service shall not constrain the development and use of the fixed, mobile and space operation services in the frequency band 148-149.9 MHz. The use of the frequency band 148-149.9 MHz by non-geostationary- satellite systems in the space operation service identified as short-duration mission is not subject to No. **9.11A**. (WRC-19)
5.220	The use of the frequency bands 149.9-150.05 MHz and 399.9-400.05 MHz by the mobile-satellite service is subject to coordination under No. **9.11A**. (WRC-15)
5.221	Stations of the mobile-satellite service in the frequency band 148-149.9 MHz shall not cause harmful interference to, or claim protection from, stations of the fixed or mobile services operating in accordance with the Table of Frequency Allocations in the following countries: Albania, Algeria, Germany, Saudi Arabia, Australia, Austria, Bahrain, Bangladesh, Barbados, Belarus, Belgium, Benin, Bosnia and Herzegovina, Botswana, Brunei Darussalam, Bulgaria, Cameroon, China, Cyprus, Congo (Rep. of the), Korea (Rep. of), Côte d'Ivoire, Croatia, Cuba, Denmark, Djibouti, Egypt, the United Arab Emirates, Eritrea, Spain, Estonia, Eswatini, Ethiopia, the Russian Federation, Finland, France, Gabon, Georgia, Ghana, Greece, Guinea, Guinea Bissau, Hungary, India, Iran (Islamic Republic of), Ireland, Iceland, Israel, Italy, Jamaica, Japan, Jordan, Kazakhstan, Kenya, Kuwait, Lesotho, Latvia, Lebanon, Libya, Liechtenstein, Lithuania, Luxembourg, North Macedonia, Malaysia, Mali, Malta, Mauritania, Moldova, Mongolia, Montenegro, Mozambique, Namibia, Norway, New Zealand, Oman, Uganda, Uzbekistan, Pakistan, Panama, Papua New Guinea, Paraguay, the Netherlands, the Philippines, Poland, Portugal, Qatar, the Syrian Arab Republic, Türkiye, Kyrgyzstan, Dem. People's Rep. of Korea, Slovakia, Romania, the United Kingdom, Senegal, Serbia, Sierra Leone, Singapore, Slovenia, Somalia, Sudan, Sri Lanka, South Africa, Sweden, Switzerland, Tanzania, Chad, Togo, Tonga, Trinidad and Tobago, Tunisia, Ukraine, Viet Nam, Yemen, Zambia and Zimbabwe. (WRC-23)~~Stations of the mobile-satellite service in the frequency band 148-149.9 MHz shall not cause harmful interference to, or claim protection from, stations of the fixed or mobile services operating in accordance with the Table of Frequency Allocations in the following countries: Albania, Algeria, Germany, Saudi Arabia, Australia, Austria, Bahrain, Bangladesh, Barbados, Belarus, Belgium, Benin, Bosnia and Herzegovina, Botswana, Brunei Darussalam, Bulgaria, Cameroon, China, Cyprus, Congo (Rep. of the), Korea (Rep. of), Côte d'Ivoire, Croatia, Cuba, Denmark, Djibouti, Egypt, the United Arab Emirates, Eritrea, Spain, Estonia, Eswatini, Ethiopia, the Russian Federation, Finland, France, Gabon, Georgia, Ghana, Greece, Guinea, Guinea Bissau, Hungary, India, Iran (Islamic Republic of), Ireland, Iceland, Israel, Italy, Jamaica, Japan, Jordan, Kazakhstan, Kenya, Kuwait, Lesotho, Latvia, Lebanon, Libya, Liechtenstein, Lithuania, Luxembourg, North Macedonia, Malaysia, Mali,~~

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	~~Malta, Mauritania, Moldova, Mongolia, Montenegro, Mozambique, Namibia, Norway, New Zealand, Oman, Uganda, Uzbekistan, Pakistan, Panama, Papua New Guinea, Paraguay, the Netherlands, the Philippines, Poland, Portugal, Qatar, the Syrian Arab Republic, Kyrgyzstan, Dem. People's Rep. of Korea, Slovakia, Romania, the United Kingdom, Senegal, Serbia, Sierra Leone, Singapore, Slovenia, Sudan, Sri Lanka, South Africa, Sweden, Switzerland, Tanzania, Chad, Togo, Tonga, Trinidad and Tobago, Tunisia, Turkey, Ukraine, Viet Nam, Yemen, Zambia and Zimbabwe. (WRC-19)~~
5.222	SUP (WRC-15)
5.223	SUP (WRC-15)
5.224	SUP (WRC-97)
5.224A	SUP (WRC-15)
5.224B	SUP (WRC-15)
5.225	*Additional allocation:* in Australia and India, the band 150.05-153 MHz is also allocated to the radio astronomy service on a primary basis.
5.225A	*Additional allocation:* in Algeria, Armenia, Azerbaijan, Belarus, China, the Russian Federation, France, Iran (Islamic Republic of), Kazakhstan, Uzbekistan, Kyrgyzstan, Tajikistan, Turkmenistan, Ukraine and Viet Nam, the frequency band 154-156 MHz is also allocated to the radiolocation service on a primary basis. The usage of the frequency band 154-156 MHz by the radiolocation service shall be limited to space-object detection systems operating from terrestrial locations. The operation of stations in the radiolocation service in the frequency band 154-156 MHz shall be subject to agreement obtained under No. **9.21**. For the identification of potentially affected administrations in Region 1, the instantaneous field-strength value of 12 dB(V/m) for 10% of the time produced at 10 m above ground level in the 25 kHz reference frequency band at the border of the territory of any other administration shall be used. For the identification of potentially affected administrations in Region 3, the interference-to-noise ratio (I/N) value of 6 dB (N = 161 dBW/4 kHz), or 10 dB for applications with greater protection requirements, such as public protection and disaster relief (PPDR (N = 161 dBW/4 kHz)), for 1% of the time produced at 60 m above ground level at the border of the territory of any other administration shall be used. In the frequency bands 156.7625-156.8375 MHz, 156.5125-156.5375 MHz, 161.9625- 161.9875 MHz, 162.0125-162.0375 MHz, out-of-band e.i.r.p. of space surveillance radars shall not exceed 16 dBW. Frequency assignments to the radiolocation service under this allocation in Ukraine shall not be used without the agreement of Moldova. (WRC-12)

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5.226	The frequency 156.525 MHz is the international distress, safety and calling frequency for the maritime mobile VHF radiotelephone service using digital selective calling (DSC). The conditions for the use of this frequency and the band 156.4875-156.5625 MHz are contained in Articles **31** and **52**, and in Appendix **18**. The frequency 156.8 MHz is the international distress, safety and calling frequency for the maritime mobile VHF radiotelephone service. The conditions for the use of this frequency and the band 156.7625-156.8375 MHz are contained in Article **31** and Appendix **18**. In the bands 156-156.4875 MHz, 156.5625-156.7625 MHz, 156.8375-157.45 MHz, 160.6-160.975 MHz and 161.475-162.05 MHz, each administration shall give priority to the maritime mobile service on only such frequencies as are assigned to stations of the maritime mobile service by the administration (see Articles **31** and **52**, and Appendix **18**). Any use of frequencies in these bands by stations of other services to which they are allocated should be avoided in areas where such use might cause harmful interference to the maritime mobile VHF radiocommunication service. However, the frequencies 156.8 MHz and 156.525 MHz and the frequency bands in which priority is given to the maritime mobile service may be used for radiocommunications on inland waterways subject to agreement between interested and affected administrations and taking into account current frequency usage and existing agreements. (WRC-07)
5.227	SUP (WRC-12)
5.228	The use of the frequency bands 156.7625-156.7875 MHz and 156.8125-156.8375 MHz by the mobilesatellite service (Earth-to-space) is limited to the reception of automatic identification system (AIS) emissions of long range AIS broadcast messages (Message 27, see the most recent version of Recommendation ITU-R M.1371). With the exception of AIS emissions, emissions in these frequency bands by systems operating in the maritime mobile service for communications shall not exceed 1W. (WRC-12)
5.228A	The frequency bands 161.9625-161.9875 MHz and 162.0125-162.0375 MHz may be used by aircraft stations for the purpose of search and rescue operations and other safety-related communications. (WRC-12)
5.228AA	The use of the frequency bands 161.9375-161.9625 MHz and 161.9875-162.0125 MHz by the maritime mobile-satellite (Earth-to-space) service is limited to the systems which operate in accordance with Appendix 18. (WRC-15)
5.228AB	The use of the frequency bands 157.1875-157.3375 MHz and 161.7875-161.9375 MHz by the maritime mobile-satellite service (Earth-to-space) is limited to non-GSO satellite systems operating in accordance with Appendix 18. (WRC-19)
5.228AC	The use of the frequency bands 157.1875-157.3375 MHz and 161.7875-161.9375 MHz by the maritime mobile-satellite service (space-to-Earth) is limited to non-GSO satellite systems operating in accordance with Appendix **18**. Such use is subject to agreement obtained under No. **9.21** with respect to the terrestrial services in Azerbaijan, Belarus, China, Korea (Rep. of), Cuba, the Russian Federation, the Syrian Arab Republic, the Dem. People's Rep. of Korea, South Africa and Viet Nam. (WRC-19)
5.228B	The use of the frequency bands 161.9625-161.9875 MHz and 162.0125-162.0375 MHz by the fixed and land mobile services shall not cause harmful interference to, or claim protection from, the maritime mobile service. (WRC-12)

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5.228C	The use of the frequency bands 161.9625-161.9875 MHz and 162.0125-162.0375 MHz by the maritime mobile service and the mobile-satellite (Earth-to-space) service is limited to the automatic identification system (AIS), including AIS search and rescue transmitters (AIS-SART) and satellite emergency position indicating radio beacons with AIS (EPIRB-AIS). The use of these frequency bands by the aeronautical mobile (OR) service is limited to AIS emissions from search and rescue aircraft operations. The AIS, AIS-SART and EPIRB-AIS operations in these frequency bands shall not constrain the development and use of the fixed and mobile services operating in the adjacent frequency bands. (WRC-23)~~The use of the frequency bands 161.9625-161.9875 MHz and 162.0125-162.0375 MHz by the maritime mobile service and the mobile-satellite (Earth-to-space) service is limited to the automatic identification system (AIS). The use of these frequency bands by the aeronautical mobile (OR) service is limited to AIS emissions from search and rescue aircraft operations. The AIS operations in these frequency bands shall not constrain the development and use of the fixed and mobile services operating in the adjacent frequency bands. (WRC-12)~~
5.228D	The frequency bands 161.9625-161.9875 MHz (AIS 1) and 162.0125-162.0375 MHz (AIS 2) may continue to be used by the fixed and mobile services on a primary basis until 1 January 2025, at which time this allocation shall no longer be valid. Administrations are encouraged to make all practicable efforts to discontinue the use of these bands by the fixed and mobile services prior to the transition date. During this transition period, the maritime mobile service in these frequency bands has priority over the fixed, land mobile and aeronautical mobile services. (WRC-12)
5.228E	The use of the automatic identification system in the frequency bands 161.9625-161.9875 MHz and 162.0125-162.0375 MHz by the aeronautical mobile (OR) service is limited to aircraft stations for the purpose of search and rescue operations and other safety-related communications. (WRC-12)
5.228F	The use of the frequency bands 161.9625-161.9875 MHz and 162.0125-162.0375 MHz by the mobile-satellite service (Earth-to-space) is limited to the reception of automatic identification system emissions from stations operating in the maritime mobile service. (WRC-12)
~~**5.229**~~	~~*Alternative allocation:* in Morocco, the band 162-174 MHz is allocated to the broadcasting service on a primary basis. The use of this band shall be subject to agreement with administrations having services, operating or planned, in accordance with the Table which are likely to be affected. Stations in existence on 1 January 1981, with their technical characteristics as of that date, are not affected by such agreement.~~
5.230	*Additional allocation:* in China, the band 163-167 MHz is also allocated to the space operation service (space-to-Earth) on a primary basis, subject to agreement obtained under No. **9.21**.
5.231	*Additional allocation:* in Afghanistan, and China, the band 167-174 MHz is also allocated to the broadcasting service on a primary basis. The introduction of the broadcasting service into this band shall be subject to agreement with the neighbouring countries in Region 3 whose services are likely to be affected. (WRC 12)
5.232	SUP (WRC-12)
5.233	*Additional allocation:* in China, the band 174-184 MHz is also allocated to the space research (space-to-Earth) and the space operation (space-to-Earth) services on a primary basis, subject to agreement obtained under No. **9.21**. These services shall not cause harmful interference to, or claim protection from, existing or planned broadcasting stations.
5.234	SUP (WRC-12)

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5.235	*Additional allocation:* in Germany, Austria, Belgium, Denmark, Spain, Finland, France, Israel, Italy, Liechtenstein, Malta, Monaco, Norway, the Netherlands, the United Kingdom, Sweden and Switzerland, the band 174-223 MHz is also allocated to the land mobile service on a primary basis. However, the stations of the land mobile service shall not cause harmful interference to, or claim protection from, broadcasting stations, existing or planned, in countries other than those listed in this footnote.
5.237	*Additional allocation:* in Congo (Rep. of the), Egypt, Eritrea, Ethiopia, Gambia, Guinea, the Libya, Mali, Sierra Leone, Somalia and Chad, the band 174-223 MHz is also allocated to the fixed and mobile services on a secondary basis. (WRC- 12)
5.238	*Additional allocation:* in Bangladesh, India, Pakistan and the Philippines, the band 200-216 MHz is also allocated to the aeronautical radionavigation service on a primary basis.
5.239	Not used.
5.240	*Additional allocation:* in China and India, the band 216-223 MHz is also allocated to the aeronautical radionavigation service on a primary basis and to the radiolocation service on a secondary basis.
5.241	In Region 2, no new stations in the radiolocation service may be authorized in the band 216-225 MHz. Stations authorized prior to 1 January 1990 may continue to operate on a secondary basis.
5.242	*Additional allocation:* in Canada and Mexico, the frequency band 216-220 MHz is also allocated to the land mobile service on a primary basis. (WRC-19)
5.243	*Additional allocation:* in Somalia, the band 216-225 MHz is also allocated to the aeronautical radionavigation service on a primary basis, subject to not causing harmful interference to existing or planned broadcasting services in other countries.
5.244	SUP (WRC-97)
5.245	*Additional allocation:* in Japan, the band 222-223 MHz is also allocated to the aeronautical radionavigation service on a primary basis and to the radiolocation service on a secondary basis.
5.246	*Alternative allocation:* in Spain, France, Israel and Monaco, the band 223-230 MHz is allocated to the broadcasting and land mobile services on a primary basis (see No. **5.33**) on the basis that, in the preparation of frequency plans, the broadcasting service shall have prior choice of frequencies; and allocated to the fixed and mobile, except land mobile, services on a secondary basis. However, the stations of the land mobile service shall not cause harmful interference to, or claim protection from, existing or planned broadcasting stations in Morocco and Algeria.
5.247	*Additional allocation:* in Saudi Arabia, Bahrain, the United Arab Emirates, Jordan, Oman, Qatar and Syrian Arab Republic, the band 223-235 MHz is also allocated to the aeronautical radionavigation service on a primary basis.
5.248	Not used
5.249	Not used.
5.250	*Additional allocation*: in China, the band 225-235 MHz is also allocated to the radio astronomy service on a secondary basis.
5.251	*Additional allocation:* in Nigeria, the band 230-235 MHz is also allocated to the aeronautical radionavigation service on a primary basis, subject to agreement obtained under No. **9.21.**
5.252	*Alternative allocation:* in Botswana, Eswatini, Lesotho, Malawi, Mozambique, Namibia, South Africa, Zambia and Zimbabwe, the frequency bands 230-238 MHz and 246-254 MHz are allocated to the broadcasting service on a primary basis, subject to agreement obtained under No. **9.21**. (WRC-19)
5.253	Not used.

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5.254	The bands 235-322 MHz and 335.4-399.9 MHz may be used by the mobile-satellite service, subject to agreement obtained under No. **9.21**, on condition that stations in this service do not cause harmful interference to those of other services operating or planned to be operated in accordance with the Table of Frequency Allocations except for the additional allocation made in footnote No. **5.256A**. (WRC-03)
5.255	The bands 312-315 MHz (Earth-to-space) and 387-390 MHz (space-to-Earth) in the mobile-satellite service may also be used by non-geostationary-satellite systems. Such use is subject to coordination under No. **9.11A**.
5.256	The frequency 243 MHz is the frequency in this band for use by survival craft stations and equipment used for survival purposes. (WRC-07)
5.256A	*Additional allocation:* in China, the Russian Federation and Kazakhstan, the frequency band 258-261 MHz is also allocated to the space research service (Earth-to-space) and space operation service (Earth-to-space) on a primary basis. Stations in the space research service (Earth-to-space) and space operation service (Earth-to-space) shall not cause harmful interference to, or claim protection from, or constrain the use and development of, the mobile service systems and mobile-satellite service systems operating in the frequency band. Stations in space research service (Earth-to-space) and space operation service (Earth-to-space) shall not constrain the future development of fixed service systems of other countries. (WRC-15)
5.257	The band 267-272 MHz may be used by administrations for space telemetry in their countries on a primary basis, subject to agreement obtained under No. **9.21**.
5.258	The use of the band 328.6-335.4 MHz by the aeronautical radionavigation service is limited to Instrument Landing Systems (glide path).
5.259	*Additional allocation:* in Egypt, and the Syrian Arab Republic, the band 328.6-335.4 MHz is also allocated to the mobile service on a secondary basis, subject to agreement obtained under No. **9.21**. In order to ensure that harmful interference is not caused to stations of the aeronautical radionavigation service, stations of the mobile service shall not be introduced in the band until it is no longer required for the aeronautical radionavigation service by any administration which may be identified in the application of the procedure invoked under No. **9.21**. (WRC-12)
5.260	SUP (WRC-15)
5.260A	In the frequency band 399.9-400.05 MHz, the maximum e.i.r.p. of any emission of earth stations in the mobile-satellite service shall not exceed 5 dBW in any 4 kHz band and the maximum e.i.r.p. of each earth station in the mobile-satellite service shall not exceed 5 dBW in the whole 399.9-400.05 MHz frequency band. Until 22 November 2022, this limit shall not apply to satellite systems for which complete notification information has been received by the Radiocommunication Bureau by 22 November 2019 and that have been brought into use by that date. After 22 November 2022, these limits shall apply to all systems within the mobile-satellite service operating in this frequency band. In the frequency band 399.99-400.02 MHz, the e.i.r.p. limits as specified above shall apply after 22 November 2022 to all systems within the mobile-satellite service. Administrations are requested that their mobile-satellite service satellite links in the 399.99-400.02 MHz frequency band comply with the e.i.r.p. limits as specified above, after 22 November 2019. (WRC-19)
5.260B	In the frequency band 400.02-400.05 MHz, the provisions of No. **5.A12** are not applicable for telecommand uplinks within the mobile-satellite service. (WRC-19)
5.261	Emissions shall be confined in a band of ± 25 kHz about the standard frequency 400.1 MHz.

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5.262	*Additional allocation:* in Saudi Arabia, Armenia, Azerbaijan, Bahrain, Belarus, Botswana, Colombia, Cuba, Egypt, the United Arab Emirates, Ecuador, the Russian Federation, Georgia, Hungary, Iran (Islamic Republic of), Iraq, Israel, Jordan, Kazakhstan, Kuwait, Liberia, Malaysia, Moldova, Uzbekistan, Pakistan, the Philippines, Qatar, the Syrian Arab Republic, Kyrgyzstan, Romania, Singapore, Somalia, Tajikistan, Chad, Turkmenistan and Ukraine, the band 400.05-401 MHz is also allocated to the fixed and mobile services on a primary basis. (WRC-12)
5.263	The band 400.15-401 MHz is also allocated to the space research service in the space-to-space direction for communications with manned space vehicles. In this application, the space research service will not be regarded as a safety service.
5.264	The use of the band 400.15-401 MHz by the mobile-satellite service is subject to coordination under No. **9.11A**. The power flux-density limit indicated in Annex 1 of Appendix **5** shall apply until such time as a competent world radiocommunication conference revises it.
5.264A	In the frequency band 401-403 MHz, the maximum e.i.r.p. of any emission of each earth station in the meteorological- satellite service and the Earth exploration-satellite service shall not exceed 22 dBW in any 4 kHz band for geostationary systems and non-geostationary systems with an orbit of apogee equal or greater than 35 786 km. The maximum e.i.r.p. of any emission of each earth station in the meteorologicalsatellite service and the Earth exploration-satellite service shall not exceed 7 dBW in any 4 kHz band for non-geostationary systems with an orbit of apogee lower than 35 786 km. The maximum e.i.r.p. of each earth station in the meteorological-satellite service and the Earth exploration-satellite service shall not exceed 22 dBW for geostationary systems and nongeostationary systems with an orbit of apogee equal or greater than 35 786 km in the whole 401-403 MHz frequency band. The maximum e.i.r.p. of each earth station in the meteorological-satellite service and the Earth exploration-satellite service shall not exceed 7 dBW for non-geostationary systems with an orbit of apogee lower than 35 786 km in the whole 401-403 MHz frequency band. Until 22 November 2029, these limits shall not apply to satellite systems for which complete notification information has been received by the Radiocommunication Bureau by 22 November 2019 and that have been brought into use by that date. After 22 November 2029, these limits shall apply to all systems within the meteorological-satellite service and the Earth exploration-satellite service operating in this frequency band. (WRC-19)
5.264B	Non-geostationary-satellite systems in the meteorological-satellite service and the Earth explorationsatellite service for which complete notification information has been received by the Radiocommunication Bureau no later than 28 April 2007 are exempt from provisions of No. **5.264A** and may continue to operate in the frequency band 401.898-402.522 MHz on a primary basis without exceeding a maximum e.i.r.p. level of 12 dBW. (WRC-23)~~Non-geostationary-satellite systems in the meteorological-satellite service and the Earth exploration-satellite service for which complete notification information has been received by the Radiocommunication Bureau before 28 April 2007 are exempt from provisions of No. **5.264A** and may continue to operate in the frequency band 401.898–402.522 MHz on a primary basis without exceeding a maximum e.i.r.p. level of 12 dBW. (WRC-19)~~
5.265	In the frequency band 403-410 MHz, Resolution **205 (Rev.WRC-19)** applies. (WRC-19)

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5.266	The use of the band 406-406.1 MHz by the mobile-satellite service is limited to low power satellite emergency position- indicating radiobeacons (see also Article **31**). (WRC-07)
5.267	Any emission capable of causing harmful interference to the authorized uses of the band 406-406.1 MHz is prohibited.
5.268	Use of the frequency band 410-420 MHz by the space research service is limited to space-to-space communication links with an orbiting, manned space vehicle. The power flux-density at the surface of the Earth produced by emissions from transmitting stations of the space research service (space-to-space) in the frequency band 410-420 MHz shall not exceed –153 dB(W/m^2) for $0^o \leq \delta \leq 5^o$, -153+ 0.077 (d – 5) dB(W/m^2) for $5^o \leq \delta \leq 70^o$ and –148 dB(W/m^2) for $70^o \leq \delta \leq 90^o$, where δ is the angle of arrival of the radio-frequency wave and the reference bandwidth is 4 kHz. In this frequency band, stations of the space research service (space-to-space) shall not claim protection from, nor constrain the use and development of, stations of the fixed and mobile services. No. **4.10** does not apply. (WRC-15)
5.269	*Different category of service:* in Australia, Brazil, the United States, India, Japan and the United Kingdom, the allocation of the frequency bands 420-430 MHz and 440-450 MHz to the radiolocation service is on a primary basis (see No. **5.33**). (WRC-23)~~*Different category of service:* in Australia, the United States, India, Japan and the United Kingdom, the allocation of the bands 420-430 MHz and 440-450 MHz to the radiolocation service is on a primary basis (see No. **5.33**).~~
5.270	*Additional allocation:* in Australia, the United States, Jamaica and the Philippines, the bands 420-430 MHz and 440- 450 MHz are also allocated to the amateur service on a secondary basis.
5.271	SUP (WRC-12)
5.274	*Alternative allocation:* in Denmark, Norway, Sweden, and Chad the bands 430-432 MHz and 438-440 MHz are allocated to the fixed and mobile, except aeronautical mobile, services on a primary basis.(WRC12)
5.275	*Additional allocation:* in Croatia, Estonia, Finland, Libya, North Macedonia, Montenegro and Serbia, the frequency bands 430-432 MHz and 438-440 MHz are also allocated to the fixed and mobile, except aeronautical mobile, services on a primary basis. (WRC-19)
5.276	*Additional allocation:* in Afghanistan, Algeria, Saudi Arabia, Bahrain, Bangladesh, Brunei Darussalam, Burkina Faso, Djibouti, Egypt, the United Arab Emirates, Ecuador, Eritrea, Ethiopia, Greece, Guinea, India, Indonesia, Iran (Islamic Republic of), Iraq, Israel, Italy, Jordan, Kenya, Kuwait, Libya, Malaysia, Niger, Nigeria, Oman, Pakistan, the Philippines, Qatar, the Syrian Arab Republic, the Dem. People's Rep. of Korea, Singapore, Somalia, Sudan, Switzerland, Thailand, Togo, Turkey and Yemen, the frequency band 430-440 MHz is also allocated to the fixed service on a primary basis and the frequency bands 430-435 MHz and 438-440 MHz are also allocated, except in Ecuador, to the mobile, except aeronautical mobile, service on a primary basis. (WRC-15)
5.277	*Additional allocation:* in Angola, Armenia, Azerbaijan, Belarus, Cameroon, Congo (Rep. of the), Djibouti, the Russian Federation, Georgia, Hungary, Israel, Kazakhstan, Mali, Uzbekistan, Poland, the Dem. Rep. of the Congo, Kyrgyzstan, Slovakia, Romania, Rwanda, Tajikistan, Chad, Turkmenistan and Ukraine, the frequency band 430-440 MHz is also allocated to the fixed service on a primary basis. (WRC-19)
5.278	*Different category of service:* in Argentina, Brazil, Colombia, Costa Rica, Cuba, Guyana, Honduras, Panama, Paraguay, Uruguay and Venezuela, the allocation of the frequency band 430-440 MHz to the amateur service is on a primary basis (see No. **5.33**). (WRC-19)

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5.279	*Additional allocation:* in Mexico, the frequency bands 430-435 MHz and 438-440 MHz are also allocated on a primary basis to the mobile, except aeronautical mobile, service, and on a secondary basis to the fixed service, subject to agreement obtained under No. **9.21**. (WRC-19)
5.279A	The use of the frequency band 432-438 MHz by sensors in the Earth exploration-satellite service (active) shall be in accordance with Recommendation ITU-R RS.1260-2. Additionally, the Earth exploration-satellite service (active) in the frequency band 432-438 MHz shall not cause harmful interference to the aeronautical radionavigation service in China. The provisions of this footnote in no way diminish the obligation of the Earth exploration-satellitecservice (active) to operate as a secondary service in accordance with Nos. **5.29** and **5.30**. (WRC-19)
5.280	In Germany, Austria, Bosnia and Herzegovina, Croatia, Liechtenstein, North Macedonia, Montenegro, Portugal, Serbia, Slovenia and Switzerland, the frequency band 433.05-434.79 MHz (centre frequency 433.92 MHz) is designated for industrial, scientific and medical (ISM) applications. Radiocommunication services of these countries operating within this frequency band must accept harmful interference which may be caused by these applications. ISM equipment operating in this frequency band is subject to the provisions of No. **15.13**. (WRC-19)
5.281	*Additional allocation:* in the French overseas departments and communities in Region 2 and India, the band 433.75-434.25 MHz is also allocated to the space operation service (Earth-to-space) on a primary basis. In France and in Brazil, the band is allocated to the same service on a secondary basis.
5.282	In the bands 435-438 MHz, 1 260-1 270 MHz, 2 400-2 450 MHz, 3 400-3 410 MHz (in Regions 2 and 3 only) and 5 650- 5 670 MHz, the amateur-satellite service may operate subject to not causing harmful interference to other services operating in accordance with the Table (see No. **5.43**). Administrations authorizing such use shall ensure that any harmful interference caused by emissions from a station in the amateur-satellite service is immediately eliminated in accordance with the provisions of No. **25.11**. The use of the bands 1 260-1 270 MHz and 5 650-5 670 MHz by the amateur-satellite service is limited to the Earth-to-space direction.
5.283	*Additional allocation:* in Austria, the band 438-440 MHz is also allocated to the fixed and mobile, except aeronautical mobile, services on a primary basis.
5.284	*Additional allocation:* in Canada, the band 440-450 MHz is also allocated to the amateur service on a secondary basis.
5.285	*Different category of service:* in Canada, the allocation of the band 440-450 MHz to the radiolocation service is on a primary basis (see No. **5.33**).
5.286	The band 449.75-450.25 MHz may be used for the space operation service (Earth-to-space) and the space research service (Earth-to-space), subject to agreement obtained under No. **9.21**.
5.286A	The use of the bands 454-456 MHz and 459-460 MHz by the mobile-satellite service is subject to coordination under No. **9.11A**. (WRC-97)
5.286AA	The frequency band 450-470 MHz is identified for use by administrations wishing to implement International Mobile Telecommunications (IMT) - see Resolution **224 (Rev.WRC-19)**. This identification does not preclude the use of this frequency band by any application of the services to which it is allocated and does not establish priority in the Radio Regulations. (WRC-19)
5.286B	The use of the band 454-455 MHz in the countries listed in No. **5.286D**, 455-456 MHz and 459-460 MHz in Region 2, and 454-456 MHz and 459-460 MHz in the countries listed in No. **5.286E**, by stations in the mobile-satellite service, shall not cause harmful interference to, or claim protection from, stations of the fixed or mobile services operating in accordance with the Table of Frequency Allocations. (WRC-97)

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5.286C	The use of the band 454-455 MHz in the countries listed in No. **5.286D**, 455-456 MHz and 459-460 MHz in Region 2, and 454-456 MHz and 459-460 MHz in the countries listed in No. **5.286E**, by stations in the mobile-satellite service, shall notconstrain the development and use of the fixed and mobile services operating in accordance with the Table of Frequency Allocations. (WRC-97)
5.286D	Additional allocation: in Canada, the United States and Panama, the band 454-455 MHz is also allocated to the mobile- satellite service (Earth-to-space) on a primary basis. (WRC-07)
5.286E	Additional allocation: in Cape Verde, Nepal and Nigeria, the bands 454-456 MHz and 459-460 MHz are also allocated to the mobile-satellite (Earth-to-space) service on a primary basis. (WRC-07)
5.287	Use of the frequency bands 457.5125-457.5875 MHz and 467.5125-467.5875 MHz by the maritime mobile service is limited to on-board communication stations. The characteristics of the equipment and the channelling arrangement shall be in accordance with Recommendation ITU-R M.1174-4. The use of these frequency bands in territorial waters is subject to the national regulations of the administration concerned. (WRC-19)
5.288	In the territorial waters of the United States and the Philippines, the preferred frequencies for use by on-board communication stations shall be 457.525 MHz, 457.550 MHz, 457.575 MHz and 457.600 MHz paired, respectively, with 467.750 MHz, 467.775 MHz, 467.800 MHz and 467.825 MHz. The characteristics of the equipment used shall conform to those specified in Recommendation ITU-R M.1174-4. (WRC-19)
5.289	Earth exploration-satellite service applications, other than the meteorological-satellite service, may also be used in the bands 460-470 MHz and 1 690-1 710 MHz for space-to-Earth transmissions subject to not causing harmful interference to stations operating in accordance with the Table.
5.290	*Different category of service:* in Afghanistan, Azerbaijan, Belarus, China, the Russian Federation, Japan, Kyrgyzstan, , Tajikistan and, Turkmenistan the allocation of the band 460-470 MHz to the meteorological-satellite service (space- to-Earth) is on a primary basis (see No. **5.33**), subject to agreement obtained under No. **9.21**. (WRC-12)
5.291	*Additional allocation:* in China, the band 470-485 MHz is also allocated to the space research (space-to-Earth) and the space operation (space-to-Earth) services on a primary basis subject to agreement obtained under No. **9.21** and subject to not causing harmful interference to existing and planned broadcasting stations.
5.291A	*Additional allocation:* in Germany, Austria, Denmark, Estonia, Liechtenstein, Serbia and Switzerland, the frequency band 470-494 MHz is also allocated to the radiolocation service on a secondary basis. This use is limited to the operation of wind profiler radars in accordance with Resolution **217 (Rev.WRC-23)**. (WRC-23)~~*Additional allocation:* in Germany, Austria, Denmark, Estonia, Liechtenstein, the Czech Rep., Serbia and Switzerland, the frequency band 470-494 MHz is also allocated to the radiolocation service on a secondary basis. This use is limited to the operation of wind profiler radars in accordance with Resolution **217 (WRC-97)**. (WRC-15)~~
5.292	*Different category of service:* in Argentina, Uruguay and Venezuela, the allocation of the frequency band 470-512 MHz to the mobile service is on a primary basis (see No. **5.33**), subject to agreement obtained under No. **9.21**. (WRC-15)

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5.293	*Different category of service:* in Canada, Chile, Cuba, the United States, Guyana and Panama, the allocation of the frequency bands 470-512 MHz and 614-806 MHz to the fixed service is on a primary basis (see No. **5.33**), subject to agreement obtained under No. **9.21**. In the Bahamas, Barbados, Canada, Chile, Cuba, the United States, Guyana, Jamaica, Mexico and Panama, the allocation of the frequency bands 470-512 MHz and 614-698 MHz to the mobile service is on a primary basis (see No. **5.33**), subject to agreement obtained under No. **9.21**. In Argentina and Ecuador, the allocation of the frequency band 470-512 MHz to the fixed and mobile services is on a primary basis (see No. **5.33**), subject to agreement obtained under No. **9.21**. (WRC-23)~~*Different category of service:* in Canada, Chile, Cuba, the United States, Guyana, Jamaica and Panama, the allocation of the frequency bands 470-512 MHz and 614-806 MHz to the fixed service is on a primary basis (see No. **5.33**), subject to agreement obtained under No. **9.21**. In the Bahamas, Barbados, Canada, Chile, Cuba, the United States, Guyana, Jamaica, Mexico and Panama, the allocation of the frequency bands 470-512 MHz and 614-698 MHz to the mobile service is on a primary basis (see No. **5.33**), subject to agreement obtained under No. **9.21**. In Argentina and Ecuador, the allocation of the frequency band 470-512 MHz to the fixed and mobile services is on a primary basis (see No. **5.33**), subject to agreement obtained under No. **9.21**. (WRC-15)~~
5.294	*Additional allocation:* in Saudi Arabia, Cameroon, Côte d'Ivoire, Egypt, Ethiopia, Israel, Libya, Palestine*, the Syrian Arab Republic, Chad and Yemen, the frequency band 470-582 MHz is also allocated to the fixed service on a secondary basis. (WRC-23)~~*Additional allocation:* in Saudi Arabia, Cameroon, Côte d'Ivoire, Egypt, Ethiopia, Israel, Libya, the Syrian Arab Republic, Chad and Yemen, the frequency band 470-582 MHz is also allocated to the fixed service on a secondary basis. (WRC-15)~~
5.295	In the Bahamas, Barbados, Canada, the United States and Mexico, the frequency band 470-608 MHz, or portions thereof, is identified for International Mobile Telecommunications (IMT) – see Resolution **224 (Rev.WRC-19)**. This identification does not preclude the use of these frequency bands by any application of the services to which they are allocated and does not establish priority in the Radio Regulations. Mobile service stations of the IMT system within the frequency band are subject to agreement obtained under No. **9.21** and shall not cause harmful interference to, or claim protection from, the broadcasting service of neighbouring countries. Nos. **5.43** and **5.43A** apply. (WRC-19)
5.295A	*Additional allocation:* in Albania, Germany, Andorra, Austria, Belgium, Bosnia and Herzegovina, Bulgaria, Cyprus, Vatican, Croatia, Denmark, Estonia, Finland, France, Georgia, Greece, Hungary, Ireland, Iceland, Latvia, Liechtenstein, Lithuania, Luxembourg, North Macedonia, Malta, Moldova, Monaco, Montenegro, Norway, Uzbekistan, Kingdom of the Netherlands, Poland, Portugal, Türkiye, Slovakia, the Czech Republic, Romania, the United Kingdom, San Marino, Serbia, Slovenia, Sweden, Switzerland and Ukraine, the frequency band 470-694 MHz is allocated to the mobile, except aeronautical mobile, service on a secondary basis, subject to agreement obtained under No. **9.21**. For the protection of the broadcasting service, stations in the mobile service shall not create a field strength for more than 1% of the time at the highest of the clutter height or 10 m above ground level at the border of the territory of any other administration that exceeds the field strength value as calculated using § 4.1.3.2 of Annex 2 to the GE06 Agreement with regard to allowance for multiple interference, Table A.1.10 and the methodology given in the GE06 Agreement. These limits may be exceeded on the territory of any country whose administration has so agreed. This allocation shall in no way adversely affect the broadcast development or undermine new entries of the broadcasting service to the GE06 Plan. (WRC-23)

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5.296	*Additional allocation:* in Albania, Algeria, Germany, Angola, Saudi Arabia, Austria, Bahrain, Belgium, Benin, Bosnia and Herzegovina, Botswana, Bulgaria, Burkina Faso, Burundi, Cameroon, Vatican, Congo (Rep. of the), Côte d'Ivoire, Croatia, Denmark, Djibouti, Egypt, United Arab Emirates, Spain, Estonia, Eswatini, Finland, France, Gabon, Gambia, Georgia, Ghana, Hungary, Iraq, Ireland, Iceland, Israel, Italy, Jordan, Kenya, Kuwait, Lesotho, Latvia, Lebanon, Libya, Liechtenstein, Lithuania, Luxembourg, North Macedonia, Malawi, Mali, Malta, Morocco, Mauritius, Mauritania, Moldova, Monaco, Mozambique, Namibia, Niger, Nigeria, Norway, Oman, Uganda, Palestine*, the Netherlands, Poland, Portugal, Qatar, the Syrian Arab Republic, Türkiye, Slovakia, the Czech Republic, Romania, the United Kingdom, Rwanda, San Marino, Senegal, Serbia, Sudan, South Africa, Sweden, Switzerland, Tanzania, Chad, Togo, Tunisia, Ukraine, Zambia and Zimbabwe, the frequency band 470-694 MHz is also allocated on a secondary basis to the land mobile service, intended for applications ancillary to broadcasting and programme-making. Stations of the land mobile service in the countries listed in this footnote shall not cause harmful interference to existing or planned stations operating in accordance with the Table in countries other than those listed in this footnote. (WRC-23) ~~*Additional allocation:* in Albania, Germany, Angola, Saudi Arabia, Austria, Bahrain, Belgium, Benin, Bosnia and Herzegovina, Botswana, Bulgaria, Burkina Faso, Burundi, Cameroon, Vatican, Congo (Rep. of the), Côte d'Ivoire, Croatia, Denmark, Djibouti, Egypt, United Arab Emirates, Spain, Estonia, Eswatini, Finland, France, Gabon, Georgia, Ghana, Hungary, Iraq, Ireland, Iceland, Israel, Italy, Jordan, Kenya, Kuwait, Lesotho, Latvia, Lebanon, Libya, Liechtenstein, Lithuania, Luxembourg, North Macedonia, Malawi, Mali, Malta, Morocco, Mauritius, Mauritania, Moldova, Monaco, Mozambique, Namibia, Niger, Nigeria, Norway, Oman, Uganda, the Netherlands, Poland, Portugal, Qatar, the Syrian Arab Republic, Slovakia, the Czech Republic, Romania, the United Kingdom, Rwanda, San Marino, Serbia, Sudan, South Africa, Sweden, Switzerland, Tanzania, Chad, Togo, Tunisia, Turkey, Ukraine, Zambia and Zimbabwe, the frequency band 470-694 MHz is also allocated on a secondary basis to the land mobile service, intended for applications ancillary to broadcasting and programme-making. Stations of the land mobile service in the countries listed in this footnote shall not cause harmful interference to existing or planned stations operating in accordance with the Table in countries other than those listed in this footnote. (WRC-19)~~
5.296A	In Micronesia, the Solomon Islands, Tuvalu and Vanuatu, the frequency band 470-698 MHz, or portions thereof, and in Bangladesh, Lao P.D.R., Maldives, New Zealand and Viet Nam, the frequency band 610-698 MHz, or portions thereof, are identified for use by these administrations wishing to implement International Mobile Telecommunications (IMT) – see Resolution **224 (Rev.WRC-23)**. This identification does not preclude the use of these frequency bands by any application of the services to which they are allocated and does not establish priority in the Radio Regulations. The mobile allocation in this frequency band shall not be used for IMT systems unless subject to agreement obtained under No. **9.21** and shall not cause harmful interference to, or claim protection from, the broadcasting service of neighbouring countries. Nos. **5.43** and **5.43A** apply. (WRC-23) ~~In Micronesia, the Solomon Islands, Tuvalu and Vanuatu, the frequency band 470-698 MHz, or portions thereof, and in Bangladesh, Maldives and New Zealand, the frequency band 610-698 MHz, or portions thereof, are identified for use by these administrations wishing to implement International Mobile Telecommunications (IMT) – see Resolution **224 (Rev.WRC-19)**. This identification does not preclude the use of these frequency bands by any application of the services to which they are allocated and does not establish priority in the Radio Regulations. The mobile allocation in this frequency band shall not be used for IMT systems unless subject to agreement obtained under No. **9.21** and shall not cause~~

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	~~harmful interference to, or claim protection from, the broadcasting service of neighbouring countries. Nos. **5.43** and **5.43A** apply. (WRC-19)~~
5.297	*Additional allocation:* in Canada, Costa Rica, Cuba, El Salvador, the United States, Guatemala, Guyana and Jamaica, the frequency band 512-608 MHz is also allocated to the fixed and mobile services on a primary basis, subject to agreement obtained under No. **9.21**. In the Bahamas, Barbados and Mexico, the frequency band 512-608 MHz is also allocated to the mobile service on a primary basis, subject to agreement obtained under No. **9.21**. In Mexico, the frequency band 512-608 MHz is also allocated on a secondary basis to the fixed service (see No. **5.32**). (WRC-19)
5.298	*Additional allocation:* in India, the band 549.75-550.25 MHz is also allocated to the space operation service (space-to- Earth) on a secondary basis.
5.299	Not used.
5.300	*Additional allocation:* in Saudi Arabia, Cameroon, Egypt, United Arab Emirates, Iraq, Israel, Jordan, Libya, Oman, Palestine*, Qatar, the Syrian Arab Republic and Sudan, the frequency band 582-790 MHz is also allocated to the fixed and mobile, except aeronautical mobile, services on a secondary basis. (WRC-~~19~~23)
5.301	Not used.
5.302	SUP (WRC-12)
5.303	Not used.
5.304	*Additional allocation:* in the African Broadcasting Area (see Nos. **5.10** to **5.13**), the band 606-614 MHz is also allocated to the radio astronomy service on a primary basis.
5.305	*Additional allocation:* in China, the band 606-614 MHz is also allocated to the radio astronomy service on a primary basis.
5.306	*Additional allocation:* in Region 1, except in the African Broadcasting Area (see Nos. **5.10** to **5.13**), and in Region 3, the band 608-614 MHz is also allocated to the radio astronomy service on a secondary basis.
5.307	*Additional allocation:* in India, the band 608-614 MHz is also allocated to the radio astronomy service on a primary basis.
5.307A	*Additional allocation*: in Saudi Arabia, Bahrain, Egypt, the United Arab Emirates, Iraq, Jordan, Kuwait, Oman, Palestine*, Qatar and the Syrian Arab Republic, the frequency band 614-694 MHz is allocated to the mobile, except aeronautical mobile, service on a primary basis and identified for International Mobile Telecommunications (IMT) – see Resolution **224 (Rev.WRC-23)** subject to the agreement obtained under No. **9.21.** Stations in the mobile service shall not create a field strength for more than 1% of the time at the highest of the clutter height or 10 m above ground level at the border of the territory of any other administration that exceeds the field strength value as calculated using § 4.1.3.2 of Annex 2 to the GE06 Agreement with regard to allowance for multiple interference, Table A.1.10 and the methodology given in the GE06 Agreement. Stations in the mobile service of the countries listed in this footnote shall not cause harmful interference to, or claim protection from the existing and future broadcasting stations of the neighbouring countries operating in accordance with the GE06 Plan. This identification does not preclude the use of these frequency bands by any application of the services to which they are allocated and does not establish priority in the Radio Regulations and shall in no way adversely affect the development of the existing and future broadcasting service in accordance with the GE06 Agreement. For

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	countries party to the GE06 Agreement, the use of stations in the mobile service is also subject to the successful application of the procedures of that Agreement. This allocation does not establish priority in the Radio Regulations and shall allow the implementation and development of the broadcasting service in accordance with the GE06 Agreement. The countries listed in this footnote and located in the African Broadcasting Area should ensure protection of the radio astronomy service within the frequency band 606-614 MHz, as allocated in No. **5.304**, consistent with the most recent version of Recommendation ITU-R RA.769. The countries listed in this footnote, which are neighbouring to the countries listed in No. **5.312**, should ensure the protection of the aeronautical radionavigation service in the frequency band 645-862 MHz. (WRC-23)
5.307B	*Additional allocation:* in Gambia, Mauritania, Namibia, Nigeria, Senegal, Somalia, Tanzania and Chad, the frequency band 614-694 MHz is allocated to the mobile service on a secondary basis. For the protection of the broadcasting service, stations in the mobile service shall not create a field strength for more than 1% of the time at the highest of the clutter height or 10 m above ground level at the border of the territory of any other administration that exceeds the field strength value as calculated using § 4.1.3.2 of Annex 2 to the GE06 Agreement with regard to allowance for multiple interference, Table A.1.10 and the methodology given in the GE06 Agreement. This allocation shall in no way adversely affect the broadcast development or undermine new entries of the broadcasting service to the GE06 Plan. Additional measures shall be used by administrations implementing stations in the mobile services to protect stations in the broadcasting service of neighbouring administrations such as a distance limitation from the border of a neighbouring country. (WRC-23)
5.308	*Additional allocation:* in Belize, Colombia, El Salvador and Guatemala, the frequency band 614-698 MHz is also allocated to the mobile service on a primary basis. Stations of the mobile service within the frequency band are subject to agreement obtained under No. **9.21**. (WRC-~~19~~23)
5.308A	In the Bahamas, Barbados, Belize, Canada, Colombia, El Salvador, the United States, Guatemala and Mexico, the frequency band 614-698 MHz, or portions thereof, is identified for International Mobile Telecommunications (IMT) – see Resolution **224 (Rev.WRC-~~19~~23)**. This identification does not preclude the use of these frequency bands by any application of the services to which they are allocated and does not establish priority in the Radio Regulations. Mobile service stations of the IMT system within the frequency band are subject to agreement obtained under No. **9.21** an d shall not cause harmful interference to, or claim protection from, the broadcasting service of neighbouring countries. Nos. **5.43** and **5.43A** apply. (WRC-~~19~~23)
5.309	*Different category of service*: in El Salvador, the allocation of the frequency band 614-806 MHz to the fixed service is on a primary basis (see No. **5.33**), subject to agreement obtained under No. **9.21**. (WRC-15)
5.310	SUP (WRC-97)
5.311	SUP (WRC-07)
5.311A	SUP (WRC-19)
5.312	*Additional allocation*: in Armenia, Azerbaijan, Belarus, the Russian Federation, georgia, Kazakhstan, Uzbekistan, Kyrgyzstan, Tajikistan, Turkmenistan and Ukraine, the frequency band 645-862 MHz, and in Bulgaria the frequency bands 726-753 MHz, 778-811 MHz and 822-852 MHz, are also allocated to the aeronautical radionavigation service on a primary basis. (WRC-23) ~~*Additional allocation*: in Armenia, Azerbaijan, Belarus, the Russian Federation, Georgia, Kazakhstan, Uzbekistan, Kyrgyzstan, Tajikistan, Turkmenistan and Ukraine, the frequency band 645-862 MHz, and in Bulgaria the frequency bands 646-686 MHz, 726-753 MHz, 778-811 MHz and 822-852 MHz, are also allocated to the aeronautical radionavigation service on a primary basis. (WRC-19)~~

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5.312A	In Region 1, the use of the frequency band 694-790 MHz by the mobile, except aeronautical mobile, service is subject to the provisions of Resolution 760 (Rev.WRC-~~19~~23). See also Resolution 224 (Rev.WRC-~~19~~23). (WRC-23~~19~~)
5.312B	The frequency band 698-960 MHz, or portions thereof, in Region 2, and the frequency band 694-960 MHz, or portions thereof, in Region 1, are identified for use by high-altitude platform stations as International Mobile Telecommunications (IMT) base stations (HIBS). This identification does not preclude the use of these frequency bands by any application of the services to which they are allocated and does not establish priority in the Radio Regulations. Resolution **213 (WRC-23)** shall apply. HIBS shall not claim protection from existing primary services. No. **5.43A** does not apply, see *resolves* 2 of Resolution **213 (WRC-23)**. Such use of HIBS in the frequency bands 694-728 MHz, 830- 835 MHz and 805.3-806.9 MHz is limited to reception by HIBS. (WRC-23)
5.313	SUP (WRC-97)
5.313A	The frequency band, or portions of the frequency band 698-790 MHz, in Australia, Bangladesh, Brunei Darussalam, Cambodia, China, Korea (Rep. of), Fiji, India, Indonesia, Japan, Kiribati, Lao P.D.R., Malaysia, Myanmar (Union of), New Zealand, Pakistan, Papua New Guinea, the Philippines, the Dem. People's Rep. of Korea, Solomon Islands, Samoa, Singapore, Thailand, Tonga, Tuvalu, Vanuatu and Viet Nam, are identified for use by these administrations wishing to implement International Mobile Telecommunications (IMT). This identification does not preclude the use of these frequency bands by any application of the services to which they are allocated and does not establish priority in the Radio Regulations. (WRC-19)
5.313B	SUP (WRC-15)
5.314	SUP (WRC-15)
5.314A	The frequency band 698-960 MHz, or portions thereof, in Australia, Maldives, Micronesia, Papua New Guinea, Tonga and Vanuatu, and the frequency bands 703-733 MHz, 758-788 MHz, 890-915 MHz and 935-960 MHz, or portions thereof, in China, India, Indonesia, Japan, Korea (Rep. of), Malaysia, the Philippines and Thailand are identified for use by high-altitude platform stations as International Mobile Telecommunications (IMT) base stations (HIBS). This identification does not preclude the use of these frequency bands by any application of the services to which they are allocated and does not establish priority in the Radio Regulations. Resolution **213 (WRC-23)** shall apply. HIBS shall not claim protection from existing primary services. No. **5.43A** does not apply, see *resolves* 2 of Resolution **213 (WRC-23)**. Such use of HIBS in the frequency bands 698-728 MHz and 830-835 MHz is limited to reception by HIBS. (WRC-23)
5.315	SUP (WRC-15)
5.316	SUP (WRC-15)
5.316A	SUP (WRC-15)
5.316B	In Region 1, the allocation to the mobile, except aeronautical mobile, service in the frequency band 790-862 MHz is subject to agreement obtained under No. **9.21** with respect to the aeronautical radionavigation service in countries mentioned in No. **5.312**. For countries party to the GE06 Agreement, the use of stations of the mobile service is also subject to the successful application of the procedures of that Agreement. Resolutions **224 (Rev.WRC-~~19~~23)** and **749 (Rev.WRC-~~19~~23)** shall apply, as appropriate. (WRC-23~~19~~)
5.317	*Additional allocation*: in Region 2 (except Brazil, the United States and Mexico), the frequency band 806-890 MHz is also allocated to the mobile-satellite service on a primary basis, subject to agreement obtained under No. **9.21**. The use of this service is intended for operation within national boundaries. (WRC-15)
5.317A	The parts of the frequency band 698-960 MHz in Region 2 and the frequency bands 694-790 MHz in Region 1 and 790- 960 MHz in Regions 1 and 3 which are allocated to the mobile service on a primary basis are identified for use by administrations wishing to implement International Mobile Telecommunications (IMT) – see Resolutions **224 (Rev.WRC- ~~19~~23)**, **760 (Rev.WRC-~~19~~23)** and **749 (Rev.WRC-~~19~~23)**, where applicable. This identification does not preclude the use of these

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	frequency bands by any application of the services to which they are allocated and does not establish priority in the Radio Regulations. (WRC-~~19~~23)
5.318	*Additional allocation*: in Canada, the United States and Mexico, the bands 849-851 MHz and 894-896 MHz are also allocated to the aeronautical mobile service on a primary basis, for public correspondence with aircraft. The use of the band 849-851 MHz is limited to transmissions from aeronautical stations and the use of the band 894-896 MHz is limited to transmissions from aircraft stations.
5.319	*Additional allocation*: in Belarus, the Russian Federation and Ukraine, the bands 806-840 MHz (Earth-to-space) and 856-890 MHz (space-to-Earth) are also allocated to the mobile-satellite, except aeronautical mobile-satellite (R), service. The use of these bands by this service shall not cause harmful interference to, or claim protection from, services in other countries operating in accordance with the Table of Frequency Allocations and is subject to special agreements between the administrations concerned.
5.320	Additional allocation: in Region 3, the bands 806-890 MHz and 942-960 MHz are also allocated to the mobile-satellite, except aeronautical mobile-satellite (R), service on a primary basis, subject to agreement obtained under No. **9.21.** The use of this service is limited to operation within national boundaries. In seeking such agreement, appropriate protection shall be afforded to services operating in accordance with the Table, to ensure that no harmful interference is caused to such services.
5.321	SUP (WRC-07)
5.322	In Region 1, in the band 862-960 MHz, stations of the broadcasting service shall be operated only in the African Broadcasting Area (see Nos. **5.10** to **5.13**) excluding Algeria, Burundi, Egypt, Spain, Lesotho, Libya, Morocco, Malawi, Namibia, Nigeria, South Africa, Tanzania, Zimbabwe and Zambia, subject to agreement obtained under No. **9.21**. (WRC-~~12~~23)
5.323	*Additional allocation:* in Armenia, Azerbaijan, Belarus, the Russian Federation, Kazakhstan, Uzbekistan, Kyrgyzstan, Tajikistan, Turkmenistan and Ukraine, the frequency band 862-960 MHz, in Bulgaria the frequency bands 862-880 MHz and 915-925 MHz, and in Romania the frequency bands 862-880 MHz and 915-925 MHz, are also allocated to the aeronautical radionavigation service on a primary basis. Such use is subject to agreement obtained under No. **9.21** with administrations concerned and limited to ground-based radiobeacons in operation on 27 October 1997 until the end of their lifetime. (WRC-19)
5.324	Not used.
5.325	*Different category of service*: in the United States, the allocation of the band 890-942 MHz to the radiolocation service is on a primary basis (see No. **5.33**), subject to agreement obtained under No. **9.21**.
5.325A	*Different category of service:* in Argentina, Brazil, Costa Rica, Cuba, Dominican Republic, El Salvador, Ecuador, the French overseas departments and communities in Region 2, Guatemala, Paraguay, Uruguay and Venezuela, the frequency band 902-928 MHz is allocated to the land mobile service on a primary basis. In Mexico, the frequency band 902-928 MHz is allocated to the mobile, except aeronautical mobile, service on a primary basis. In Colombia, the frequency band 902-915 MHz is allocated to the land mobile service on a primary basis. (WRC-23) ~~*Different category of service:* in Argentina, Brazil, Costa Rica, Cuba, Dominican Republic, El Salvador, Ecuador, the French overseas departments and communities in Region 2, Guatemala, Paraguay, Uruguay and Venezuela, the frequency band 902-928 MHz is allocated to the land mobile service on a primary basis. In Mexico, the frequency band 902-928 MHz is allocated to the mobile, except aeronautical mobile, service on a primary basis. In Colombia, the frequency band 902- 905 MHz is allocated to the land mobile service on a primary basis. (WRC-19)~~

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5.326	*Different category of service*: in Chile, the band 903-905 MHz is allocated to the mobile, except aeronautical mobile, service on a primary basis, subject to agreement obtained under No. **9.21**.
5.327	*Different category of service*: in Australia, the allocation of the band 915-928 MHz to the radiolocation service is on a primary basis (see No. **5.33**).
5.327A	The use of the frequency band 960-1 164 MHz by the aeronautical mobile (R) service is limited to systems that operate in accordance with recognized international aeronautical standards. Such use shall be in accordance with Resolution **417 (Rev.WRC-15)**. (WRC-15)
5.328	The use of the band 960-1 215 MHz by the aeronautical radionavigation service is reserved on a worldwide basis for the operation and development of airborne electronic aids to air navigation and any directly associated ground-based facilities. (WRC-2000)
5.328A	Stations in the radionavigation-satellite service in the band 1 164-1 215 MHz shall operate in accordance with the provisions of Resolution **609 (Rev.WRC-07)** and shall not claim protection from stations in the aeronautical radionavigation service in the band 960-1 215 MHz. No. **5.43A** does not apply. The provisions of No. **21.18** shall apply. (WRC-07)
5.328AA	The frequency band 1 087.7-1 092.3 MHz is also allocated to the aeronautical mobile-satellite (R) service (Earth-to- space) on a primary basis, limited to the space station reception of Automatic Dependent Surveillance-Broadcast (ADS-B) emissions from aircraft transmitters that operate in accordance with recognized international aeronautical standards. Stations operating in the aeronautical mobile-satellite (R) service shall not claim protection from stations operating in the aeronautical radionavigation service. Resolution **425 (Rev.WRC-19)** shall apply. (WRC-19)
5.328B	The use of the bands 1 164-1 300 MHz, 1 559-1 610 MHz and 5 010-5 030 MHz by systems and networks in the radionavigation-satellite service for which complete coordination or notification information, as appropriate, is received by the Radiocommunication Bureau after 1 January 2005 is subject to the application of the provisions of Nos. **9.12**, **9.12A** and **9.13**. Resolution **610 (WRC-03)** shall also apply; however, in the case of radionavigation-satellite service (space-to-space) networks and systems, Resolution **610 (WRC-03)** shall only apply to transmitting space stations. In accordance with No. **5.329A**, for systems and networks in the radionavigation-satellite service (space-to-space) in thebands 1 215-1 300 MHz and 1 559-1 610 MHz, the provisions of Nos. **9.7**, **9.12**, **9.12A** and **9.13** shall only apply with respect to other systems and networks in the radionavigation-satellite service (space-to-space). (WRC-07)
5.329	Use of the radionavigation-satellite service in the frequency band 1 215-1 300 MHz shall be subject to the condition that no harmful interference is caused to, and no protection is claimed from, the radionavigation service authorized under No. **5.331**. Furthermore, the use of the radionavigation-satellite service in the frequency band 1 215-1 300 MHz shall be subject to the condition that no harmful interference is caused to the radiolocation service. No. **5.43** shall not apply in respect of the radiolocation service. Resolution **608 (Rev.WRC-19)** shall apply. (WRC-19)
5.329A	Use of systems in the radionavigation-satellite service (space-to-space) operating in the bands 1 215-1 300 MHz and 1 559-1 610 MHz is not intended to provide safety service applications, and shall not impose any additional constraints on radionavigation-satellite service (space-to-Earth) systems or on other services operating in accordance with the Table of Frequency Allocations. (WRC-07)
5.330	*Additional allocation:* in Angola, Saudi Arabia, Bahrain, Bangladesh, Cameroon, China, Djibouti, Egypt, the United Arab Emirates, Eritrea, Ethiopia, Guyana, India, Indonesia, Iran (Islamic Republic of), Iraq, Israel, Japan, Jordan, Kuwait, Nepal, Oman, Pakistan, Palestine*, the Philippines, Qatar, the Syrian Arab Republic, Somalia, Sudan, South Sudan, Chad, Togo and Yemen, the frequency band 1 215-1 300 MHz is also allocated to the fixed and mobile

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	services on a primary basis. (WRC-23)~~*Additional allocation:* in Angola, Saudi Arabia, Bahrain, Bangladesh, Cameroon, China, Djibouti,Egypt,the United Arab Emirates, Eritrea, Ethiopia, Guyana, India, Indonesia, Iran (Islamic Republic of), Iraq, Israel, Japan, Jordan, Kuwait, , Nepal, Oman ,Pakistan, the Philippines, Qatar, the Syrian Arab Republic, Somalia, Sudan, South Sudan ,Chad, Togo and Yemen, the band 1 215-1 300 MHz is also allocated to the fixed and mobile services on a primary basis. (WRC-12)~~
5.331	*Additional allocation:* in Algeria, Germany, Saudi Arabia, Australia, Austria, Bahrain, Belarus, Belgium, Benin, Bosnia and Herzegovina, Brazil, Burkina Faso, Burundi, Cameroon, China, Korea (Rep. of), Croatia, Denmark, Djibouti, Egypt, the United Arab Emirates, Estonia, the Russian Federation, Finland, France, Ghana, Greece, Guinea, Equatorial Guinea, Hungary, India, Indonesia, Iran (Islamic Republic of), Iraq, Ireland, Israel, Jordan, Kenya, Kuwait, Lesotho, Latvia, Lebanon, Liechtenstein, Lithuania, Luxembourg, North Macedonia, Madagascar, Mali, Mauritania, Montenegro, Nigeria, Norway, Oman, Pakistan, Palestine*, the Kingdom of the Netherlands, Poland, Portugal, Qatar, the Syrian Arab Republic, Türkiye, Dem. People's Rep. of Korea, Slovakia, the United Kingdom, Serbia, Slovenia, Somalia, Sudan, South Sudan, Sri Lanka, South Africa, Sweden, Switzerland, Thailand, Togo, Venezuela and Viet Nam, the frequency band 1 215-1 300 MHz is also allocated to the radionavigation service on a primary basis. In Canada and the United States, the frequency band 1 240-1 300 MHz is also allocated to the radionavigation service, and use of the radionavigation service shall be limited to the aeronautical radionavigation service. (WRC-23)~~*Additional allocation:* in Algeria, Germany, Saudi Arabia, Australia, Austria, Bahrain, Belarus, Belgium, Benin, Bosnia and Herzegovina, Brazil, Burkina Faso, Burundi, Cameroon, China, Korea (Rep. of), Croatia, Denmark, Egypt, the United Arab Emirates, Estonia, the Russian Federation, Finland, France, Ghana, Greece, Guinea, Equatorial Guinea, Hungary, India, Indonesia, Iran (Islamic Republic of), Iraq, Ireland, Israel, Jordan, Kenya, Kuwait, Lesotho, Latvia, Lebanon, Liechtenstein, Lithuania, Luxembourg, North Macedonia, Madagascar, Mali, Mauritania, Montenegro, Nigeria, Norway, Oman, Pakistan, the Kingdom of the Netherlands, Poland, Portugal, Qatar, the Syrian Arab Republic, Dem. People's Rep. of Korea, Slovakia, the United Kingdom, Serbia, Slovenia, Somalia, Sudan, South Sudan, Sri Lanka, South Africa, Sweden, Switzerland, Thailand, Togo, Turkey, Venezuela and Viet Nam, the frequency band 1 215-1 300 MHz is also allocated to the radionavigation service on a primary basis. In Canada and the United States, the frequency band 1 240- 1 300 MHz is also allocated to the radionavigation service, and use of the radionavigation service shall be limited to the aeronautical radionavigation service. (WRC-19)~~
5.332	In the band 1 215-1 260 MHz, active spaceborne sensors in the Earth exploration-satellite and space research services shall not cause harmful interference to, claim protection from, or otherwise impose constraints on operation or development of the radiolocation service, the radionavigation-satellite service and other services allocated on a primary basis. (WRC-2000)
5.332A	Administrations authorizing operation of the amateur and amateur-satellite services in the frequency band 1 240-1 300 MHz, or portions thereof, shall ensure that the amateur and amateur-satellite services do not cause harmful interference to radionavigation- satellite service (space-to-Earth) receivers in accordance with No. **5.29** (see the most recent version of Recommendation ITU-R M.2164). The authorizing administration, upon receipt of a report of harmful interference caused by a station of the amateur or amateur-satellite services, shall take all necessary steps to rapidly eliminate such interference. (WRC-23)
5.333	SUP (WRC-97)
5.334	*Additional allocation:* in Canada and the United States, the band 1 350-1 370 MHz is also allocated to the aeronautical radionavigation service on a primary basis. (WRC-03)

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5.335	In Canada and the United States in the band 1 240-1 300 MHz, active spaceborne sensors in the earth exploration- satellite and space research services shall not cause interference to, claim protection from, or otherwise impose constraints on operation or development of the aeronautical radionavigation service. (WRC-97)
5.335A	In the band 1 260-1 300 MHz, active spaceborne sensors in the Earth exploration-satellite and space research services shall not cause harmful interference to, claim protection from, or otherwise impose constraints on operation or development of the radiolocation service and other services allocated by footnotes on a primary basis. (WRC-2000)
5.336	Not used.
5.337	The use of the bands 1 300-1 350 MHz, 2 700-2 900 MHz and 9 000-9 200 MHz by the aeronautical radionavigation service is restricted to ground-based radars and to associated airborne transponders which transmit only on frequencies in these bands and only when actuated by radars operating in the same band.
5.337A	The use of the band 1 300-1 350 MHz by earth stations in the radionavigation-satellite service and by stations in the radiolocation service shall not cause harmful interference to, nor constrain the operation and development of, the aeronautical-radionavigation service. (WRC-2000)
5.338	In Kyrgyzstan, Slovakia, and Turkmenistan, existing installations of the radionavigation service may continue to operate in the band 1 350-1 400 MHz. (WRC-12)
5.338A	In the frequency bands 1 350-1 400 MHz, 1 427-1 452 MHz, 22.55-23.55 GHz, 24.25-27.5 GHz, 30-31.3 GHz, 49.7-50.2 GHz, 50.4-50.9 GHz, 51.4-52.6 GHz, 81-86 GHz and 92-94 GHz, Resolution **750 (Rev.WRC-19)** applies. (WRC-19)
5.339	The bands 1 370-1 400 MHz, 2 640-2 655 MHz, 4 950-4 990 MHz and 15.20-15.35 GHz are also allocated to the space research (passive) and Earth exploration-satellite (passive) services on a secondary basis.
5.339A	SUP (WRC-07)

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5.340	All emissions are prohibited in the following bands: 1 400-1 427 MHz, 2 690-2 700 MHz,except those provided for by No. **5.422,** 10.68-10.7 GHz, except those rovided for by No. **5.483**, 15.35-15.4 GHz,except those provided for by No. **5.511**, 23.6-24 GHz, 31.3-31.5 GHz, 31.5-31.8 GHz, in Region 2, 48.94-49.04 GHz, from airborne stations 50.2-50.4 GHz[2], 52.6-54.25 GHz, 86-92 GHz, 100-102 GHz, 109.5-111.8 GHz, 114.25-116 GHz, 148.5-151.5 GHz, 164-167 GHz, 182-185 GHz, 190-191.8 GHz, 200-209 GHz, 226-231.5 GHz, 250-252 GHz. (WRC-03) [2] **5.340.1** The allocation to the Earth exploration-satellite service (passive) and the space research service (passive) in the band 50.2-50.4 GHz should not impose undue constraints on the use of the adjacent bands by the primary allocated services in those bands. (WRC-97)
5.341	In the bands 1 400-1 727 MHz, 101-120 GHz and 197-220 GHz, passive research is being conducted by some countries in a programme for the search for intentional emissions of extraterrestrial origin.
5.341A	In Region 1, the frequency bands 1 427-1 452 MHz and 1 492-1 518 MHz are identified for use b administrations wishing to implement International Mobile Telecommunications (IMT) in accordance with Resolution **223 (Rev.WRC-15)**. This identification does not preclude the use of these frequency bands by any other application of the services to which it is allocated and does not establish priority in the Radio Regulations. The use of IMT stations is subject to agreement obtained under No. **9.21** with respect to the aeronautical mobile service used for aeronautical telemetry in accordance with No. **5.342**. (WRC-15)
5.341B	In Region 2, the frequency band 1 427-1 518 MHz is identified for use by administrations wishing to implement International Mobile Telecommunications (IMT) in accordance with Resolution **223 (Rev.WRC-15)**. This identification does not preclude the use of this frequency band by any application of the services to which they are allocated and does not establish priority in the Radio Regulations. (WRC-15)
5.341C	The frequency bands 1 427-1 452 MHz and 1 492-1 518 MHz are identified for use by administrations in Region 3 wishing to implement International Mobile Telecommunications (IMT) in accordance with Resolution **223 (Rev.WRC-15)**. The use of these frequency bands by the above administrations for the implementation of IMT in the frequency bands 1 429-1 452 MHz and 1 492-1 518 MHz is subject to agreement obtained under No. **9.21** from countries using stations of the aeronautical mobile service. This identification does not preclude the use of these frequency bands by any application of the services to which it is allocated and does not establish priority in the Radio Regulations. (WRC-15)

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5.342	*Additional allocation:* in Armenia, Azerbaijan, Belarus, the Russian Federation, Uzbekistan, Kyrgyzstan and Ukraine, the frequency band 1 429-1 535 MHz is also allocated to the aeronautical mobile service on a primary basis, exclusively for the purposes of aeronautical telemetry within the national territory. As of 1 April 2007, the use of the frequency band 1 452-1 492 MHz is subject to agreement between the administrations concerned. (WRC-15)
5.343	In Region 2, the use of the band 1 435-1 535 MHz by the aeronautical mobile service for telemetry has priority over other uses by the mobile service.
5.344	*Alternative allocation:* in the United States, the band 1 452-1 525 MHz is allocated to the fixed and mobile services on a primary basis (see also No. **5.343**).
5.345	Use of the frequency band 1 452-1 492 MHz by the broadcasting-satellite service, and by the broadcasting service, is limited to digital audio broadcasting and is subject to the provisions of Resolution **528 (Rev.WRC-19)**. (WRC-19)
5.346	In Algeria, Angola, Saudi Arabia, Bahrain, Benin, Botswana, Burkina Faso, Burundi, Cameroon, Central African Republic, Congo (Rep. of the), Côte d'Ivoire, Djibouti, Egypt, United Arab Emirates, Eswatini, Gabon, Gambia, Ghana, Guinea, Iraq, Jordan, Kenya, Kuwait, Lesotho, Lebanon, Liberia, Madagascar, Malawi, Mali, Morocco, Mauritius, Mauritania, Mozambique, Namibia, Niger, Nigeria, Oman, Uganda, Palestine**, Qatar, Dem. Rep. of the Congo, Rwanda, Senegal, Seychelles, Somalia, Sudan, South Sudan, South Africa, Tanzania, Chad, Togo, Tunisia, Zambia, and Zimbabwe, the frequency band 1 452-1 492 MHz is identified for use by administrations listed above wishing to implement International Mobile Telecommunications (IMT) in accordance with Resolution **223 (Rev.WRC-23)**. This identification does not preclude the use of this frequency band by any other application of the services to which it is allocated and does not establish priority in the Radio Regulations. The use of this frequency band for the implementation of IMT is subject to agreement obtained under No. **9.21** with respect to the aeronautical mobile service used for aeronautical telemetry in accordance with No. **5.342**. See also Resolution **761 (Rev.WRC-19)**. (WRC-23)~~In Algeria, Angola, Saudi Arabia, Bahrain, Benin, Botswana, Burkina Faso, Burundi, Cameroon, Central African Republic, Congo (Rep. of the), Côte d'Ivoire, Djibouti, Egypt, United Arab Emirates, Eswatini, Gabon, Gambia, Ghana, Guinea, Iraq, Jordan, Kenya, Kuwait, Lesotho, Lebanon, Liberia, Madagascar, Malawi, Mali, Morocco, Mauritius, Mauritania, Mozambique, Namibia, Niger, Nigeria, Oman, Uganda, Palestine**1, Qatar, Dem. Rep. of the Congo, Rwanda, Senegal, Seychelles, Sudan, South Sudan, South Africa, Tanzania, Chad, Togo, Tunisia, Zambia, and Zimbabwe, the frequency band 1 452-1 492 MHz is identified for use by administrations listed above wishing to implement International Mobile Telecommunications (IMT) in accordance with Resolution **223 (Rev.WRC-15)**. This identification does not preclude the use of this frequency band by any other application of the services to which it is allocated and does not establish priority in the Radio Regulations. The use of this frequency band for the implementation of IMT is subject to agreement obtained under No. **9.21** with respect to the aeronautical mobile service used for aeronautical telemetry in accordance with No. **5.342**. See also Resolution **761 (WRC-19)**. (WRC-19)~~
5.346A	The frequency band 1 452-1 492 MHz is identified for use by administrations in Region 3 wishing to implement International Mobile Telecommunications (IMT) in accordance with Resolution **223 (Rev.WRC-19)** and Resolution **761 (Rev.WRC-19)**. The use of this frequency band by the above administrations for the implementation of IMT is subject to agreement obtained under No. **9.21** from countries using stations of the aeronautical mobile service. This identification does not preclude the use of this frequency band by any application of the services to which it is allocated and does not establish priority in the Radio Regulations. (WRC-19)

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5.348	The use of the band 1 518-1 525 MHz by the mobile-satellite service is subject to coordination under No. **9.11A**. In the band 1 518-1 525 MHz stations in the mobile-satellite service shall not claim protection from the stations in the fixed service. No. **5.43A** does not apply. (WRC-03)
5.348A	In the band 1 518-1 525 MHz, the coordination threshold in terms of the power flux-density levels at the surface of the Earth in application of No. **9.11A** for space stations in the mobile-satellite (space-to-Earth) service, with respect to the land mobile service use for specialized mobile radios or used in conjunction with public switched telecommunication networks (PSTN) operating within the territory of Japan, shall be –150 dB(W/m2) in any 4 kHz band for all angles of arrival, instead of those given in Table 5-2 of Appendix **5**. In the band 1 518-1 525 MHz stations in the mobile-satellite service shall not claim protection from stations in the mobile service in the territory of Japan. No. **5.43A** does not apply. (WRC-03)
5.348B	In the band 1 518-1 525 MHz, stations in the mobile-satellite service shall not claim protection from aeronautical mobile telemetry stations in the mobile service in the territory of the United States (see Nos. **5.343** and **5.344**) and in the countries listed in No. **5.342**. No. **5.43A** does not apply. (WRC-03)
5.349	*Different category of service:* in Saudi Arabia, Azerbaijan, Bahrain, Cameroon, Egypt, Iran (Islamic Republic of), Iraq, Israel, ~~Kazakhstan,~~ Kuwait, Lebanon, North Macedonia, Morocco, Qatar, Syrian Arab Republic, Kyrgyzstan, Turkmenistan and Yemen, the allocation of the frequency band 1 525-1 530 MHz to the mobile, except aeronautical mobile, service is on a primary basis (see No. **5.33**). (WRC-~~19~~23)
5.350	*Additional allocation:* in Kyrgyzstan and Turkmenistan, the frequency band 1 525-1 530 MHz is also allocated to the aeronautical mobile service on a primary basis. (WRC-19)
5.351	The bands 1 525-1 544 MHz, 1 545-1 559 MHz, 1 626.5-1 645.5 MHz and 1 646.5-1 660.5 MHz shall not be used for feeder links of any service. In exceptional circumstances, however, an earth station at a specified fixed point in any of the mobile-satellite services may be authorized by an administration to communicate via space stations using these bands.
5.351A	For the use of the bands 1 518-1 544 MHz, 1 545-1 559 MHz, 1 610-1 645.5 MHz, 1 646.5-1 660.5 MHz, 1 668-1 675 MHz, 1 980-2 010 MHz, 2 170-2 200 MHz, 2 483.5-2 520 MHz and 2 670-2 690 MHz by the mobile-satellite service, see Resolutions **212 (Rev.WRC-~~07~~23)** and **225 (Rev.WRC-~~07~~23)**. (WRC-~~07~~23)
5.352	SUP (WRC-97)
5.352A	In the frequency band 1 525-1 530 MHz, stations in the mobile-satellite service, except stations in the maritime mobile- satellite service, shall not cause harmful interference to, or claim protection from, stations of the fixed service in Algeria, Saudi Arabia, Egypt, Guinea, India, Israel, Italy, Jordan, Kuwait, Mali, Morocco, Mauritania, Nigeria, Oman, Pakistan, the Philippines, Qatar, Syrian Arab Republic, Viet Nam and Yemen notified prior to 1 April 1998. (WRC-19)
5.353	SUP (WRC-97)
5.353A	In applying the procedures of Section II of Article **9** to the mobile-satellite service in the bands 1 530-1 544 MHz and 1 626.5-1 645.5 MHz, priority shall be given to accommodating the spectrum requirements for distress, urgency and safety communications of the Global Maritime Distress and Safety System (GMDSS). Maritime mobile-satellite distress, urgency and safety communications shall have priority access and immediate availability over all other mobile satellite communications operating within a network. Mobile-satellite systems shall not cause unacceptable interference to, or claim protection from, distress, urgency and safety communications of the GMDSS. Account shall be taken of the priority of safety-related communications in the other mobile-satellite services. (The provisions of Resolution **222 (WRC-~~2000~~23)** shall apply.) (WRC-~~2000~~23)

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5.354	The use of the bands 1 525-1 559 MHz and 1 626.5-1 660.5 MHz by the mobile-satellite services is subject to coordination under No. **9.11A**.
5.355	*Additional allocation:* in Bahrain, Bangladesh, Congo (Rep. of the), Djibouti, Egypt, Eritrea, Iraq, Israel, Kuwait, , Qatar, Syrian Arab Republic, Somalia, Sudan, South Sudan, Chad, Togo and Yemen, the bands 1 540-1 559 MHz, 1 610-1 645.5 MHz and 1 646.5-1 660 MHz are also allocated to the fixed service on a secondary basis. (WRC-12)
5.356	The use of the band 1 544-1 545 MHz by the mobile-satellite service (space-to-Earth) is limited to distress and safety communications (see Article **31**).
5.357	Transmissions in the band 1 545-1 555 MHz from terrestrial aeronautical stations directly to aircraft stations, or between aircraft stations, in the aeronautical mobile (R) service are also authorized when such transmissions are used to extend or supplement the satellite-to-aircraft links.
5.357A	In applying the procedures of Section II of Article **9** to the mobile-satellite service in the frequency bands 1 545-1 555 MHz and 1 646.5-1 656.5 MHz, priority shall be given to accommodating the spectrum requirements of the aeronautical mobile-satellite (R) service providing transmission of messages with priority 1 to 6 in Article **44**. Aeronautical mobile-satellite (R) service communications with priority 1 to 6 in Article **44** shall have priority access and immediate availability, by pre-emption if necessary, over all other mobile-satellite communications operating within a network. Mobile-satellite systems shall not cause unacceptable interference to, or claim protection from, aeronautical mobile-satellite (R) service communications with priority 1 to 6 in Article **44**. Account shall be taken of the priority of safety-related communications in the other mobile-satellite services. The provisions of Resolution **222 (Rev.WRC-23)** shall apply. (WRC-23) ~~In applying the procedures of Section II of Article **9** to the mobile-satellite service in the bands 1 545-1 555 MHz and 1 646.5-1 656.5 MHz, priority shall be given to accommodating the spectrum requirements of the aeronautical mobile-satellite (R) service providing transmission of messages with priority 1 to 6 in Article **44**. Aeronautical mobile-satellite(R) service communications with priority 1 to 6 in Article **44** shall have priority access and immediate availability, by pre-emption if necessary, over all other mobile-satellite communications operating within a network. Mobile-satellite systems shall not cause unacceptable interference to, or claim protection from, aeronautical mobile-satellite (R) service communications with priority 1 to 6 in Article **44**. Account shall be taken of the priority of safety-related communications in the other mobile-satellite services. (The provisions of Resolution **222 (WRC-12)*** shall apply.) (WRC-12)~~ ~~* Note by the Secretariat: This Resolution was revised by WRC-07.~~
5.359	*Additional allocation:* in Germany, Saudi Arabia, Armenia, Azerbaijan, Belarus, Cameroon, the Russian Federation, Georgia, Guinea, Guinea-Bissau, Jordan, Kazakhstan, Kuwait, Lithuania, Mauritania, Uganda, Uzbekistan, Pakistan, Poland, the Syrian Arab Republic, Kyrgyzstan, the Dem. People's Rep. of Korea, Romania, Tajikistan, Tunisia and Turkmenistan, the frequency bands 1 550-1 559 MHz, 1 610-1 645.5 MHz and 1 646.5-1 660 MHz are also allocated to the fixed service on a primary basis. Administrations are urged to make all practicable efforts to avoid the implementation of new fixed-service stations in these frequency bands. (WRC-23) ~~*Additional allocation:* in Germany, Saudi Arabia, Armenia, Azerbaijan, Belarus, Cameroon, the Russian Federation, Georgia, Guinea, Guinea-Bissau, Jordan, Kazakhstan, Kuwait, Lithuania, Mauritania, Uganda, Uzbekistan, Pakistan, Poland, the Syrian Arab Republic, Kyrgyzstan, the Dem. People's Rep. of Korea, Romania, Tajikistan, Tunisia, Turkmenistan and Ukraine, the frequency bands 1 550-1 559 MHz, 1 610-1 645.5 MHz and 1 646.5-1 660 MHz are also allocated to the fixed service on a primary basis. Administrations are urged to~~

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	~~make all practicable efforts to avoid the implementation of new fixed service stations in these frequency bands. (WRC-19)~~
5.362A	In the United States, in the bands 1 555-1 559 MHz and 1 656.5-1 660.5 MHz, the aeronautical mobile-satellite (R) service shall have priority access and immediate availability, by pre-emption if necessary, over all other mobile-satellite communications operating within a network. Mobile-satellite systems shall not cause unacceptable interference to, or claim protection from, aeronautical mobile-satellite (R) service communications with priority 1 to 6 in Article **44**. Account shall be taken of the priority of safety-related communications in the other mobile-satellite services. (WRC-97)
5.362B	SUP (WRC-12)
5.362C	SUP (WRC-12)
5.364	The use of the band 1 610-1 626.5 MHz by the mobile-satellite service (Earth-to-space) and by the radiodetermination- satellite service (Earth-to-space) is subject to coordination under No. **9.11A**. A mobile earth station operating in either of the services in this band shall not produce a peak e.i.r.p. density in excess of -15 dB(W/4 kHz) in the part of the band used by systems operating in accordance with the provisions of No. **5.366** (to which No. **4.10** applies), unless otherwise agreed by the affected administrations. In the part of the band where such systems are not operating, the mean e.i.r.p. density of a mobile earth station shall not exceed –3 dB(W/4 kHz). Stations of the mobile-satellite service shall not claim protection from stations in the aeronautical radionavigation service, stations operating in accordance with the provisions of No. **5.366** and stations in the fixed service operating in accordance with the provisions of No. **5.359**. Administrations responsible for the coordination of mobile-satellite networks shall make all practicable efforts to ensure protection of stations operating in accordance with the provisions of No. **5.366**.
5.365	The use of the band 1 613.8-1 626.5 MHz by the mobile-satellite service (space-to-Earth) is subject to coordination under No. **9.11A**.
5.366	The band 1 610-1 626.5 MHz is reserved on a worldwide basis for the use and development of airborne electronic aids to air navigation and any directly associated ground-based or satellite-borne facilities. Such satellite use is subject to agreement obtained under No. **9.21**.
5.367	*Additional allocation*: The frequency bands 1 610-1 626.5 MHz is also allocated to the aeronautical mobile-satellite (R) service on a primary basis, subject to agreement obtained under No. **9.21**.
5.368	The provisions of No. **4.10** do not apply with respect to the radiodetermination-satellite and mobile-satellite services in the frequency band 1 610-1 626.5 MHz. However, No. **4.10** applies in the frequency band 1 610-1 626.5 MHz with respect to the aeronautical radionavigation-satellite service when operating in accordance with No. **5.366**, the aeronautical mobile-satellite (R) service when operating in accordance with No. **5.367**, and in the frequency bands 1 614.4225-1 618.725 MHz or 1 616.3-1 620.38 MHz (Earth-to-space) (see *resolves* 5 of Resolution **365 (WRC-23)**) and 1 621.35-1 626.5 MHz with respect to the maritime mobile-satellite service when used for the global maritime distress and safety system (GMDSS). In applying the procedure of Section II of Article **9**, the provisions of No. **4.10** do not apply for the frequency bands 1 614.4225-1 618.725 MHz or 1 616.3-1 620.38 MHz (Earth-to-space) (see *resolves* 5 of Resolution **365 (WRC-23)**) and 2 483.59-2 499.91 MHz (space-to-Earth) for the maritime mobile-satellite service when used for the GMDSS

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	with satellite networks or systems for which complete coordination information has been received by the Radiocommunication Bureau before 20 November 2023. Resolution **365 (WRC-23)** applies. ~~The provisions of No. **4.10** do not apply with respect to the radiodetermination-satellite and mobile-satellite services in the frequency band 1 610-1 626.5 MHz. However, No. **4.10** applies in the frequency band 1 610-1 626.5 MHz with respect to the aeronautical radionavigation-satellite service when operating in accordance with No. **5.366**, the aeronautical mobile-satellite (R) service when operating in accordance with No. **5.367,** and in the frequency band 1 621.35-1 626.5 MHz with respect to the maritime mobile-satellite service when used for GMDSS. (WRC-19)~~
5.369	*Different category of service:* in Angola, Australia, China, Eritrea, Ethiopia, India, Iran (Islamic Republic of), Israel, Lebanon, Liberia, Madagascar, Mali, Pakistan, Papua New Guinea, Syrian Arab Republic, the Dem. Rep. of the Congo, Sudan, South Sudan ,Togo and Zambia, the allocation of the band 1 610-1 626.5 MHz to the radiodetermination-satellite service (Earth-to-space) is on a primary basis (see No. **5.33**), subject to agreement obtained under No. **9.21** from countries not listed in this provision. (WRC-12)
5.370	*Different category of service:* in Venezuela, the allocation to the radiodetermination-satellite service in the band 1 610- 1 626.5 MHz (Earth-to-space) is on a secondary basis.
5.371	*Additional allocation:* in Region 1, the bands 1 610-1 626.5 MHz (Earth-to-space) (space-to-Earth) is also allocated to the radiodetermination-satellite service on a secondary basis, subject to agreement obtained under No. **9.21**. (WRC 12)
5.372	Harmful interference shall not be caused to stations of the radio astronomy service using the frequency band 1 610.6- 1 613.8 MHz by stations of the radiodetermination-satellite and mobilesatellite services (No. **29.13** applies). The equivalent power flux-density (epfd) produced in the frequency band 1 610.6-1 613.8 MHz by all space stations of a non-geostationary-satellite system in the mobile-satellite service (space-to-Earth) operating in frequency band 1 613.8- 1 626.5 MHz shall be in compliance with the protection criteria provided in Recommendations ITU-R RA.769-2 and ITU-R RA.1513-2, using the methodology given in Recommendation ITU-R M.1583-1, and the radio astronomy antenna pattern described in Recommendation ITU-R RA.1631-0. (WRC-19)
5.372A	The maritime mobile-satellite service in the frequency bands 1 614.4225-1 618.725 MHz or 1 616.3-1 620.38 MHz (Earth-to-space) (see *resolves* 5 of Resolution **365 (WRC-23)**) and 2 483.59-2 499.91 MHz (space-to-Earth) when they are used for the global maritime distress and safety system (GMDSS) is limited to the geostationarysatellite networks identified in Resolution **365 (WRC-23)** and their associated earth stations located within a service area from 75°E to 135°E longitude and from 10°N to 55°N latitude. Resolution **365 (WRC-23)** applies. (WRC-23)
5.373	Maritime mobile earth stations receiving in the frequency band 1 621.35-1 626.5 MHz shall not impose additional constraints on earth stations operating in the maritime mobile-satellite service or maritime earth stations of the radiodetermination-satellite service operating in accordance with the Radio Regulations in the frequency band 1 610-1621.35 MHz or on earth stations operating in the maritime mobile-satellite service operating in accordance with the Radio Regulations in the frequency band 1 626.5-1 660.5 MHz, unless otherwise agreed between the notifying administrations. (WRC-19)
5.373A	Maritime mobile earth stations receiving in the frequency band 1 621.35-1 626.5 MHz shall not impose constraints on the assignments of earth stations of the mobile-satellite service (Earth-to-space) and the radiodeterminationsatellite service (Earth-to-space) in the frequency band 1 621.35-1 626.5 MHz in networks for which complete

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	coordination information has been received by the Radiocommunication Bureau before 28 October 2019. (WRC-19)
5.374	Mobile earth stations in the mobile-satellite service operating in the bands 1 631.5-1 634.5 MHz and 1 656.5-1 660 MHz shall not cause harmful interference to stations in the fixed service operating in the countries listed in No. **5.359**. (WRC- 97)
5.375	The use of the frequency band 1 645.5-1 646.5 MHz by the mobile-satellite service (Earth-to-space) and for inter-satellite links is limited to distress, urgency and safety communications (see Article **31**). (WRC-23)~~The use of the band 1 645.5-1 646.5 MHz by the mobile-satellite service (Earth-to-space) and for inter-satellite links is limited to distress and safety communications (see Article **31**).~~
5.376	Transmissions in the band 1 646.5-1 656.5 MHz from aircraft stations in the aeronautical mobile (R) service directly to terrestrial aeronautical stations, or between aircraft stations, are also authorized when such transmissions are used to extend or supplement the aircraft-to-satellite links.
5.376A	Mobile earth stations operating in the band 1 660-1 660.5 MHz shall not cause harmful interference to stations in the radio astronomy service. (WRC-97)
5.379	*Additional allocation:* in Bangladesh, India, Indonesia, Nigeria and Pakistan, the band 1 660.5-1 668.4 MHz is also allocated to the meteorological aids service on a secondary basis.
5.379A	Administrations are urged to give all practicable protection in the band 1 660.5-1 668.4 MHz for future research in radio astronomy, particularly by eliminating air-to-ground transmissions in the meteorological aids service in the band 1 664.4-1 668.4 MHz as soon as practicable.
5.379B	The use of the frequency band 1 668-1 675 MHz by the mobile-satellite service is subject to coordination under No. **9.11A**. (WRC-23)
5.379C	In order to protect the radio astronomy service in the band 1 668-1 670 MHz, the aggregate power flux-density values produced by mobile earth stations in a network of the mobile-satellite service operating in this band shall not exceed – 181 dB(W/m2) in 10 MHz and -194 dB(W/m2) in any 20 kHz at any radio astronomy station recorded in the Master International Frequency Register, for more than 2% of integration periods of 2 000 s. (WRC-03)
5.379D	For sharing of the frequency band 1 668.4-1 675 MHz between the mobile-satellite service and the fixed and mobile services, Resolution **744 (Rev.WRC-23)** shall apply. (WRC-23)~~For sharing of the band 1 668.4-1 675 MHz between the mobile-satellite service and the fixed and mobile services, Resolution 744 (Rev.WRC-07) shall apply. (WRC-07)~~
5.379E	In the band 1 668.4-1 675 MHz, stations in the mobile-satellite service shall not cause harmful interference to stations in the meteorological aids service in China, Iran (Islamic Republic of), Japan and Uzbekistan. In the band 1 668.4-1 675 MHz, administrations are urged not to implement new systems in the meteorological aids service and are encouraged to migrate existing meteorological aids service operations to other bands as soon as practicable. (WRC-03)
5.380A	In the band 1 670-1 675 MHz, stations in the mobile-satellite service shall not cause harmful interference to, nor constrain the development of, existing earth stations in the meteorological-satellite service notified before 1 January 2004. Any new assignment to these earth stations in this band shall also be protected from harmful interference from stations in the mobile-satellite service. (WRC-07)
5.381	*Additional allocation:* in Afghanistan, , Cuba, India, Iran (Islamic Republic of) and Pakistan, the band 1 690-1 700 MHz is also allocated to the fixed and mobile, except aeronautical mobile, services on a primary basis. (WRC-12)

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5.382	*Different category of service:* in Saudi Arabia, Armenia, Azerbaijan, Bahrain, Belarus, Congo (Rep. of the), Egypt, the United Arab Emirates, Eritrea, Ethiopia, the Russian Federation, Guinea, Iraq, Israel, Jordan, Kazakhstan, Kuwait, Lebanon, North Macedonia, Mauritania, Moldova, Mongolia, Oman, Uzbekistan, Poland, Qatar, the Syrian Arab Republic, Kyrgyzstan, Somalia, Tajikistan, Turkmenistan, Ukraine and Yemen, the allocation of the frequency band 1 690-1 700 MHz to the fixed and mobile, except aeronautical mobile, services is on a primary basis (see No. **5.33**), and in the Dem. People's Rep. of Korea, the allocation of the frequency band 1 690-1 700 MHz to the fixed service is on a primary basis (see No. **5.33**) and to the mobile, except aeronautical mobile, service on a secondary basis. (WRC-19)
5.384	*Additional allocation:* in India, Indonesia and Japan, the band 1 700-1 710 MHz is also allocated to the space research service (space-to-Earth) on a primary basis. (WRC-97)
5.384A	The frequency bands 1 710-1 885 MHz, 2 300-2 400 MHz and 2 500-2 690 MHz, or portions thereof, are identified for use by administrations wishing to implement International Mobile Telecommunications (IMT) in accordance with Resolution **223 (Rev.WRC-15)**. This identification does not preclude the use of these by any application of the services to which they are allocated and does not establish priority in the Radio Regulations. (WRC-15)
5.385	*Additional allocation:* the band 1 718.8-1 722.2 MHz is also allocated to the radio astronomy service on a secondary basis for spectral line observations. (WRC-2000)
5.386	*Additional allocation:* the frequency band 1 750-1 850 MHz is also allocated to the space operation (Earth-to- space) and space research (Earth-to-space) services in Region 2 (except in Mexico), in Australia, Guam, India, Indonesia and Japan on a primary basis, subject to agreement obtained under No. **9.21**, having particular regard to troposcatter systems. (WRC-15)
5.387	*Additional allocation:* in Belarus, Georgia, Kyrgyzstan, Romania, Tajikistan and Turkmenistan, the frequency band 1 770-1 790 MHz is also allocated to the meteorological-satellite service on a primary basis, subject to agreement obtained under No. 9.21. (WRC-23)~~*Additional allocation:* in Belarus, Georgia, Kazakhstan, Kyrgyzstan, Romania, Tajikistan and Turkmenistan, the band 1 770-1 790 MHz is also allocated to the meteorological-satellite service on a primary basis, subject to agreement obtained under No. **9.21**. (WRC-12)~~
5.388	The frequency bands 1 885-2 025 MHz and 2 110-2 200 MHz are intended for use, on a worldwide basis, by administrations wishing to implement International Mobile Telecommunications (IMT). Such use does not preclude the use of these frequency bands by other services to which they are allocated. The frequency bands should be made available for IMT in accordance with Resolution **212 (Rev.WRC-23)** (see also Resolution **223 (Rev.WRC-23)**). (WRC-23)~~The frequency bands 1 885-2 025 MHz and 2 110-2 200 MHz are intended for use, on a worldwide basis, by administrations wishing to implement International Mobile Telecommunications (IMT). Such use does not preclude the use of these frequency bands by other services to which they are allocated. The frequency bands should be made available for IMT in accordance with Resolution **212 (Rev.WRC-19)** (see also Resolution **223 (Rev.WRC-19)**). (WRC-19)~~
5.388A	The frequency bands 1 710-1 980 MHz, 2 010-2 025 MHz and 2 110-2 170 MHz in Regions 1 and 3 and the frequency bands 1 710-1 980 MHz and 2 110-2 160 MHz in Region 2 are identified for the use by high altitude platform stations as International Mobile Telecommunications (IMT) base stations (HIBS). This identification does notpreclud e the use of these frequency bands by any application of the services to which they are allocated and does not establish priority in the Radio Regulations. Resolution **221 (Rev.WRC-23)** shall apply. HIBS shall not claim protection from existing primary services. No. **5.43A** does not apply. Such use of HIBS in the frequency bands 1 710-1 785 MHz in Regions 1 and 2, and 1 710-1 815 MHz in Region 3 is limited to reception by HIBS, and in the frequency band 2 110-2 170 MHz

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	is limited to transmission from HIBS. (WRC-23)~~In Regions 1 and 3, the bands 1 885-1 980 MHz, 2 010-2 025 MHz and 2 110-2 170 MHz and, in Region 2, the bands 1 885-1 980 MHz and 2 110-2 160 MHz may be used by high altitude platform stations as base stations to provide International Mobile Telecommunications-2000 (IMT-2000), in accordance with Resolution 221 (Rev.WRC-03)*. Their use by IMT-2000 applications using high altitude platform stations as base stations does not preclude the use of these bands by any station in the services to which they are allocated and does not establish priority in the Radio Regulations. (WRC-03)~~
~~**5.388B**~~	~~In Algeria, Saudi Arabia, Bahrain, Benin, Burkina Faso, Cameroon, Comoros, Côte d'Ivoire, China, Cuba, Djibouti, Egypt, United Arab Emirates, Eritrea, Ethiopia, Gabon, Ghana, India, Iran (Islamic Republic of), Israel, Jordan, Kenya, Kuwait, Lebanon, Libya, Mali, Morocco, Mauritania, Nigeria, Oman, Uganda, Pakistan, Qatar, the Syrian Arab Republic, Senegal, Singapore, Sudan, South Sudan, Tanzania, Chad, Togo, Tunisia, Yemen, Zambia and Zimbabwe, for the purpose of protecting fixed and mobile services, including IMT mobile stations, in their territories from co-channel interference, a high altitude platform station (HAPS) operating as an IMT base station in neighbouring countries, in the frequency bands referred to in No. 5.388A, shall not exceed a co-channel power flux-density of −127 dB(W/(m2 · MHz)) at the Earth's surface outside a country's borders unless explicit agreement of the affected administration is provided at the time of the notification of HAPS. (WRC-19)~~
5.389A	The use of the frequency bands 1 980-2 010 MHz and 2 170-2 200 MHz by the mobile-satellite service is subject to coordination under No. **9.11A** and to the provisions of Resolution **716 (Rev.WRC-23)**. (WRC-23)~~The use of the bands 1 980-2 010 MHz and 2 170-2 200 MHz by the mobile-satellite service is subject to coordination under No. **9.11A** and to the provisions of Resolution **716 (Rev.WRC-2000)**. (WRC-07)~~
5.389B	The use of the frequency band 1 980-1 990 MHz by the mobile-satellite service shall not cause harmful interference to or constrain the development of the fixed and mobile services in Argentina, Brazil, Canada, Chile, Ecuador, the United States, Honduras, Jamaica, Mexico, Paraguay, Peru, Suriname, Trinidad and Tobago, Uruguay and Venezuela. (WRC-19)
5.389C	The use of the frequency bands 2 010-2 025 MHz and 2 160-2 170 MHz in Region 2 by the mobile-satellite service is subject to coordination under No. **9.11A** and to the provisions of Resolution **716 (Rev.WRC-23)**. (WRC-23)~~The use of the bands 2 010-2 025 MHz and 2 160-2 170 MHz in Region 2 by the mobile-satellite service is subject to coordination under No. **9.11A** and to the provisions of Resolution **716 (Rev.WRC-2000)**. (WRC-07)~~
5.389E	The use of the bands 2 010-2 025 MHz and 2 160-2 170 MHz by the mobile-satellite service in Region 2 shall not cause harmful interference to or constrain the development of the fixed and mobile services in Regions 1 and 3.
5.389F	In Algeria, Cape Verde, Egypt, Iran (Islamic Republic of), Mali, Syrian Arab Republic and Tunisia, the use of the frequency bands 1 980-2 010 MHz and 2 170-2 200 MHz by the mobilesatellite service shall neither cause harmful interference to the fixed and mobile services, nor hamper the development of those services prior to 1 January 2005, nor shall the former service request protection from the latter services. (WRC-19)
5.390	SUP (WRC-07)
5.391	In making assignments to the mobile service in the frequency bands 2 025-2 110 MHz and 2 200-2 290 MHz, administrations shall not introduce high-density mobile systems, as described in Recommendation ITU-R SA.1154-0, and shall take that Recommendation into account for the introduction of any other type of mobile system. (WRC-15)

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5.392	Administrations are urged to take all practicable measures to ensure that space-to-space transmissions between two or more non-geostationary satellites, in the space research, space operations and Earth exploration-satellite services in the bands 2 025-2 110 MHz and 2 200-2 290 MHz, shall not impose any constraints on Earth-to-space, space-to-Earth and other space-to-space transmissions of those services and in those bands between geostationary and non- geostationary satellites.
5.393	*Additional allocation:* in Canada, the United States and India, the frequency band 2 310-2 360 MHz is also allocated to the broadcasting-satellite service (sound) and complementary terrestrial sound broadcasting service on a primary basis. Such use is limited to digital audio broadcasting and is subject to the provisions of Resolution **528 (Rev.WRC-19)**, with the exception of *resolves* 3 in regard to the limitation on broadcasting-satellite systems in the upper 25 MHz. Complementary terrestrial sound broadcasting stations shall be subject to bilateral coordination with neighbouring countries prior to their bringing into use. (WRC-19)
5.394	In the United States, the use of the frequency band 2 360-2 395 MHz by the aeronautical mobile service for telemetry has priority over other uses by the mobile services. In Canada, the use of the frequency band 2 360-2 400 MHz by the aeronautical mobile service for telemetry has priority over other uses by the mobile services. (WRC-23)~~In the United States, the use of the band 2 300-2 390 MHz by the aeronautical mobile service for telemetry has priority over other uses by the mobile services. In Canada, the use of the band 2 360-2 400 MHz by the aeronautical mobile service for telemetry has priority over other uses by the mobile services. (WRC-07)~~
5.395	In France and Turkey, the use of the band 2 310-2 360 MHz by the aeronautical mobile service for telemetry has priority over other uses by the mobile service. (WRC-03)
5.396	SUP (WRC-19)
5.397	SUP (WRC-12)
5.398	In respect of the radiodetermination-satellite service in the band 2 483.5-2 500 MHz, the provisions of No. **4.10** do not apply
5.398A	*Different category of service:* In Armenia, Azerbaijan, Belarus, the Russian Federation, Kazakhstan, Uzbekistan, Kyrgyzstan, Tajikistan and Ukraine, the band 2 483.5-2 500 MHz is allocated on a primary basis to the radiolocation service. The radiolocation stations in these countries shall not cause harmful interference to, or claim protection from, stations of the fixed, mobile and mobile-satellite services operating in accordance with the Radio Regulations in the frequency band 2 483.5-2 500 MHz. (WRC-12
5.399	Except for cases referred to in No. **5.B118**, stations of the radiodetermination-satellite service operating in the frequency band 2 483.5-2 500 MHz for which notification information is received by the Bureau after 17 February 2012, and the service area of which includes Armenia, Azerbaijan, Belarus, the Russian Federation, Kazakhstan, Uzbekistan, Kyrgyzstan, Tajikistan and Ukraine, shall not cause harmful interference to, and shall not claim protection from stations of the radiolocation service operating in these countries in accordance with No. **5.A118**. (WRC-12)
5.400	SUP (WRC-12)
5.401	In Angola, Australia, Bangladesh, China, Eritrea, Eswatini, Ethiopia, India, Lebanon, Liberia, Libya, Madagascar, Mali, Pakistan, Papua New Guinea, Syrian Arab Republic, Dem. Rep. of the Congo, Sudan, Togo and Zambia, the frequency band 2 483.5-2 500 MHz was already allocated on a primary basis to the radiodetermination-satellite service before WRC-12, subject to agreement obtained under No. **9.21** from countries not listed in this provision. Systems in the radiodetermination-satellite service for which complete coordination information has been received by the Radiocommunication Bureau before 18 February 2012 will retain their regulatory status, as of the date of receipt of the coordination request information. (WRC-19)

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5.402	The use of the band 2 483.5-2 500 MHz by the mobile-satellite and the radiodetermination-satellite services is subject to the coordination under No. **9.11A**. Administrations are urged to take all practicable steps to prevent harmful interference to the radio astronomy service from emissions in the 2 483.5-2 500 MHz band, especially those caused by second-harmonic radiation that would fall into the 4 990-5 000 MHz band allocated to the radio astronomy service worldwide.
5.403	Subject to agreement obtained under No. **9.21**, the band 2 520-2 535 MHz may also be used for the mobile-satellite (space-to-Earth), except aeronautical mobile-satellite, service for operation limited to within national boundaries. The provisions of No. **9.11A** apply. (WRC-07)
5.404	*Additional allocation:* in India and Iran (Islamic Republic of), the band 2 500-2 516.5 MHz may also be used for the radiodetermination-satellite service (space-to-Earth) for operation limited to within national boundaries, subject to agreement obtained under No. **9.21**
5.405	SUP (WRC-12)
5.407	In the band 2 500-2 520 MHz, the power flux-density at the surface of the Earth from space stations operating in the mobile-satellite (space-to-Earth) service shall not exceed –152 dB(W/(m2 Ill 4 kHz)) in Argentina, unless otherwise agreed by the administrations concerned.
5.409A	The frequency band 2 500-2 690 MHz in Regions 1 and 2, and the frequency band 2 500-2 655 MHz in Region 3 are identified for use by high-altitude platform stations as International Mobile Telecommunications (IMT) base stations (HIBS). This identification does not preclude the use of these frequency bands by any application of the services to which they are allocated and does not establish priority in the Radio Regulations. Resolution **218 (WRC-23)** shallapply. HIBS shall not claim protection from existing primary services. No. **5.43A** does not apply. Such use of HIBS in the frequency bands 2 500-2 510 MHz in Regions 1 and 2, and 2 500-2 535 MHz in Region 3 is limited to reception byHIBS. (WRC-23)
5.410	The band 2 500-2 690 MHz may be used for tropospheric scatter systems in Region 1, subject to agreement obtained under No. **9.21**. No. **9.21** does not apply to tropospheric scatter links situated entirely outside Region 1. Administrations shall make all practicable efforts to avoid developing new tropospheric scatter systems in this band. When planning new tropospheric scatter radio-relay links in this band, all possible measures shall be taken to avoid directing the antennas of these links towards the geostationary-satellite orbit. (WRC-12)
5.412	*Alternative allocation:* in , Kyrgyzstan and Turkmenistan, the band 2 500-2 690 MHz is allocated to the fixed and mobile, except aeronautical mobile, services on a primary basis. (WRC-12)
5.413	In the design of systems in the broadcasting-satellite service in the bands between 2 500 MHz and 2 690 MHz, administrations are urged to take all necessary steps to protect the radio astronomy service in the band 2 690- 2 700 MHz.
5.414	The allocation of the frequency band 2 500-2 520 MHz to the mobile-satellite service (space-to-Earth) is subject to coordination under No. **9.11A**. (WRC-07)

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5.414A	In Japan and India, the use of the bands 2 500-2 520 MHz and 2 520-2 535 MHz, under **No. 5.403**, by a satellite network in the mobile-satellite service (space-to-Earth) is limited to operation within national boundaries and subject to the application of No. 9.11A. The following pfd values shall be used as a threshold for coordination under **No. 9.11A**, for all conditions and for all methods of modulation, in an area of 1 000 km around the territory of the administration notifying the mobile-satellite service network: -136 dB(W/(m^2 · MHz)) for $0° \leq \Theta \leq 5°$ $-136 + 0.55\,(\Theta - 5)$ dB(W/(m^2 · MHz)) for $5° < \Theta \leq 25°$ -125 dB(W/(m^2 · MHz)) for $25° < \Theta \leq 90°$ where Θ is the angle of arrival of the incident wave above the horizontal plane, in degrees. Outside this area Table 21-4 of Article 21 shall apply. Furthermore, the coordination thresholds in Table 5-2 of Annex 1 to Appendix 5 of the Radio Regulations (Edition of 2004), in conjunction with the applicable provisions of Articles 9 and 11 associated with No. 9.11A, shall apply to systems for which complete notification information has been received by the Radicommunication Bureau by 14 November 2007 and that have been brought into use by that date. (WRC-07)
5.415	The use of the bands 2 500-2 690 MHz in Region 2 and 2 500-2 535 MHz and 2 655-2 690 MHz in Region 3 by the fixed- satellite service is limited to national and regional systems, subject to agreement obtained under No. 9.21, giving particular attention to the broadcasting-satellite service in Region 1. (WRC-07)
5.415A	Additional allocation: in India and Japan, subject to agreement obtained under No. 9.21, the band 2 515-2 535 MHz may also be used for the aeronautical mobile-satellite service (space-to-Earth) for operation limited to within their national boundaries. (WRC-2000)
5.416	The use of the band 2 520-2 670 MHz by the broadcasting-satellite service is limited to national and regional systems for community reception, subject to agreement obtained under No. **9.21**. The provisions of No. **9.19** shall be applied by administrations in this band in their bilateral and multilateral negotiations. (WRC-07)
5.417	SUP RC-0)
5.417A	SUP (WRC-15)
5.417B	SUP (WRC-15)
5.417C	SUP (WRC-15)
5.417D	SUP (WRC-15)

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5.418	*Additional allocation:* in India, the frequency band 2 535-2 655 MHz is also allocated to the broadcasting-satellite service (sound) and complementary terrestrial broadcasting service on a primary basis. Such use is limited to digital audio broadcasting and is subject to the provisions of Resolution **528 (Rev.WRC-19)**. The provisions of No. **5.416** and Table **21-4** of Article **21** do not apply to this additional allocation. Use of non-geostationary-satellite systems in the broadcastingsatellite service (sound) is subject to Resolution **539 (Rev.WRC-19)**. Geostationary broadcastingsatellite service (sound) systems for which complete Appendix **4** coordination information has been received after 1 June 2005 are limited to systems intended for national coverage. The power fluxdensity at the Earth's surface produced by emissions from a geostationary broadcasting-satellite service (sound) space station operating in the frequency band 2 630-2 655 MHz, and for which complete Appendix **4** coordination information has been received after 1 June 2005, shall not exceed the following limits, for all conditions and for all methods of modulation: -130 dB(W/(m^2 · MHz)) for $0^o \leq \Theta \leq 5^o$ $-130 + 0.4(\Theta - 5)$dB(W/(m^2 · MHz)) for $5^o < \Theta \leq 25^o$ –-122 dB(W/(m^2 · MHz)) for $25^o < \Theta \leq 90^o$ where Θ is the angle of arrival of the incident wave above the horizontal plane, in degrees. These limits may be exceeded on the territory of any country whose administration has so agreed. As an exception to the limits above, the pfd value f −122 dB(W/(m2 · MHz)) shall be used as a threshold for coordination under No. **9.11** in an area of 1 500 km around the territory of the administration notifying the broadcasting-satellite service (sound) system. In addition, an administration listed in this provision shall not have simultaneously two frequency assignments, one under this provision and the other under No. **5.416** for systems for which complete Appendix **4** coordination information has been received after 1 June 2005. (WRC-19)
5.418A	In certain Region 3 countries listed in No. **5.418**, use of the band 2 630-2 655 MHz by non-geostationary-satellite systems in the broadcasting-satellite service (sound) for which complete Appendix **4** coordination information, or notification information, has been received after 2 June 2000, is subject to the application of the provisions of No. **9.12A**, in respect of geostationary-satellite networks for which complete Appendix **4** coordination information, or notification information, is considered to have been received after 2 June 2000, and No. **22.2** does not apply. No. **22.2** shall continue to apply with respect to geostationary-satellite networks for which complete Appendix **4** coordination information, or notification information, is considered to have been received before 3 June 2000. (WRC-03)+B509
5.418B	Use of the band 2 630-2 655 MHz by non-geostationary-satellite systems in the broadcasting-satellite service (sound), pursuant to No. **5.418**, for which complete Appendix **4** coordination information, or notification information, has been received after 2 June 2000, is subject to the application of the provisions of No. **9.12**. (WRC-03)
5.418C	Use of the band 2 630-2 655 MHz by geostationary-satellite networks for which complete Appendix **4** coordination information, or notification information, has been received after 2 June 2000 is subject to the application of the provisions of No. **9.13** with respect to non-geostationary-satellite systems in the broadcasting-satellite service (sound), pursuant to No. **5.418** and No. **22.2** does not apply. (WRC-03)

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5.419	When introducing systems of the mobile-satellite service in the band 2 670-2 690 MHz, administrations shall take all necessary steps to protect the satellite systems operating in this band prior to 3 March 1992. The coordination of mobile-satellite systems in the band shall be in accordance with No. **9.11A**. (WRC-07)
5.420	The band 2 655-2 670 MHz may also be used for the mobile-satellite (Earth-to-space), except aeronautical mobile- satellite, service for operation limited to within national boundaries, subject to agreement obtained under No. **9.21**. The coordination under No. **9.11A** applies. (WRC-07)
5.422	*Additional allocation:* in Saudi Arabia, Armenia, Azerbaijan, Bahrain, Belarus, Brunei Darussalam, Congo (Rep. of the), Côte d'Ivoire, Cuba, Djibouti, Egypt, the United Arab Emirates, Eritrea, Ethiopia, Gabon, Georgia, Guinea, Guinea-Bissau, Iran (Islamic Republic of), Iraq, Israel, Jordan, Kuwait, Lebanon, Mauritania, , Mongolia, Montenegro, Nigeria, Oman, Pakistan, the Philippines, Qatar, Syrian Arab Republic, Kyrgyzstan, the Dem. Rep. of the Congo, Romania, Somalia, Tajikistan, Tunisia, Turkmenistan, Ukraine and Yemen, the band 2 690-2 700 MHz is also allocated to the fixed and mobile, except aeronautical mobile, services on a primary basis. Such use is limited to equipment in operation by 1 January 1985. (WRC-12)
5.423	In the band 2 700-2 900 MHz, ground-based radars used for meteorological purposes are authorized to operate on a basis of equality with stations of the aeronautical radionavigation service.
5.424	*Additional allocation:* in Canada, the band 2 850-2 900 MHz is also allocated to the maritime radionavigation service, on a primary basis, for use by shore-based radars.
5.424A	In the band 2 900-3 100 MHz, stations in the radiolocation service shall not cause harmful interference to, nor claim protection from, radar systems in the radionavigation service. (WRC-03)
5.425	In the band 2 900-3 100 MHz, the use of the shipborne interrogator-transponder (SIT) system shall be confined to the sub-band 2 930 -2 950 MHz.
5.426	The use of the band 2 900-3 100 MHz by the aeronautical radionavigation service is limited to ground-based radars.
5.427	In the bands 2 900-3 100 MHz and 9 300-9 500 MHz, the response from radar transponders shall not be capable of being confused with the response from radar beacons (racons) and shall not cause interference to ship or aeronautical radars in the radionavigation service, having regard, however, to No. **4.9**.
5.428	*Additional allocation:* in Kyrgyzstan and Turkmenistan, the frequency band 3 100-3 300 MHz is also allocated to the radionavigation service on a primary basis. (WRC-19)
5.429	*Additional allocation: in Saudi Arabia, Bahrain, Bangladesh, Benin, Brunei Darussalam, Cambodia,Cameroon, China, Congo (Rep. of the), Korea (Rep. of), Côte d'Ivoire, Djibouti, Egypt, the United Arab Emirates, India, Indonesia, Iran (Islamic Republic of), Iraq, Japan, Jordan, Kenya, Kuwait, Lao P.D.R., Lebanon, Libya, Malaysia, Mongolia, Myanmar, New Zealand, Oman, Uganda, Pakistan, Palestine*, Qatar, the Syrian Arab Republic, the Dem. Rep.of the Congo, the Dem. People's Rep. of Korea, Singapore, Somalia, Sudan, Thailand, Viet Nam and Yemen, the frequency band 3 300-3 400 MHz is also allocated to the fixed and mobile services on a primary basis. Mongolia, New Zealand and the countries bordering the Mediterranean shall not claim protection for their fixed and mobile services from the radiolocation service. (WRC-23)*~~*Additional allocation:* in Saudi Arabia, Bahrain, Bangladesh, Benin, Brunei Darussalam, Cambodia, Cameroon, China, Congo (Rep. of the), Korea (Rep. of), Côte d'Ivoire, Egypt, the United Arab Emirates, India, Indonesia, Iran (Islamic Republic of), Iraq, Japan, Jordan, Kenya, Kuwait, Lebanon, Libya, Malaysia, New Zealand, Oman, Uganda, Pakistan,Qatar, the Syrian Arab Republic, the Dem. Rep. of the Congo, the Dem. People's Rep. of Korea, Sudan and Yemen, the frequency band 3 300-3 400 MHz is also allocated to the fixed and~~

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	~~mobile services on a primary basis. New Zealand and the countries bordering the Mediterranean shall not claim protection for their fixed and mobile services from the radiolocation service. (WRC-19)~~
5.429A	*Additional allocation: in Angola, Botswana, Burkina Faso, Burundi, Cabo Verde, Central African Republic, Comoros, Djibouti, Eritrea, Eswatini, Ethiopia, Gambia, Ghana, Guinea, Guinea-Bissau, Equatorial Guinea,L esotho, Liberia, Madagascar, Malawi, Mauritius, Mauritania, Mozambique, Namibia, Niger, Nigeria, Palestine*, the Dem. Rep. of the Congo, Rwanda, Sao Tomé and Principe, Senegal, Seychelles, Sierra Leone, Somalia, South Sudan, South Africa, Tanzania, Chad, Togo, Zambia and Zimbabwe, the frequency band 3 300-3 400 MHz is allocated to the mobile, except aeronautical mobile, service on a primary basis. Stations in the mobile service operating in the frequency band 3 300-3 400 MHz shall not cause harmful interference to, or claim protection from, stations operating in the radiolocation service. (WRC-23)*~~*Additional allocation:* in Angola, Benin, Botswana, Burkina Faso, Burundi, Djibouti, Eswatini, Ghana, Guinea, Guinea- Bissau, Lesotho, Liberia, Malawi, Mauritania, Mozambique, Namibia, Niger, Nigeria, Rwanda, Sudan, South Sudan, South Africa, Tanzania, Chad, Togo, Zambia and Zimbabwe, the frequency band 3 300-3 400 MHz is allocated to the mobile, except aeronautical mobile, service on a primary basis. Stations in the mobile service operating in the frequency band 3 300-3 400 MHz shall not cause harmful interference to, or claim protection from, stations operating in the radiolocation service. (WRC-19)~~
5.429B	In the following countries of Region 1: Angola, Benin, Botswana, Burkina Faso, Burundi, Cabo Verde, Cameroon, Central African Republic, Comoros, Congo (Rep. of the), Côte d'Ivoire, Djibouti, Egypt, Eritrea, Eswatini, Ethiopia, Gambia, Ghana, Guinea, Guinea-Bissau, Equatorial Guinea, Kenya, Lesotho, Liberia, Madagascar, Malawi, Mauritius, Mauritania, Mongolia, Mozambique, Namibia, Niger, Nigeria, Uganda, the Dem. Rep. of the Congo, Rwanda, Sao Tome and Principe, Senegal, Seychelles, Sierra Leone, Somalia, Sudan, South Sudan, South Africa, Tanzania, Chad, Togo, Zambia and Zimbabwe, the frequency band 3 300-3 400 MHz is identified for the implementation of International Mobile Telecommunications (IMT). The use of this frequency band shall be in accordance with Resolution **223 (Rev.WRC-23)**. The use of the frequency band 3 300-3 400 MHz by IMT stations in the mobile service shall not cause harmful interference to, or claim protection from, systems in the radiolocation service, and administrations wishing to implement IMT shall obtain the agreement of neighbouring countries to protect operations within the radiolocation service. This identification does not preclude the use of this frequency band by any application of the services to which it is allocated and does not establish priority in the Radio Regulations. (WRC-23)~~In the following countries of Region 1 south of 30° parallel north: Angola, Benin, Botswana, Burkina Faso, Burundi, Cameroon, Congo (Rep. of the), Côte d'Ivoire, Egypt, Eswatini, Ghana, Guinea, Guinea-Bissau, Kenya, Lesotho, Liberia, Malawi, Mauritania, Mozambique, Namibia, Niger, Nigeria, Uganda, the Dem. Rep. of the Congo, Rwanda, Sudan, South Sudan, South Africa, Tanzania, Chad, Togo, Zambia and Zimbabwe, the frequency band 3 300-3 400 MHz is identified for the implementation of International Mobile Telecommunications (IMT). The use of this frequency band shall be in accordance with Resolution **223 (Rev.WRC-15)**. The use of the frequency band 3 300-3 400 MHz by IMT stations in the mobile service shall not cause harmful interference to, or claim protection from, systems in the radiolocation service, and administrations wishing to implement IMT shall obtain the agreement of neighbouring countries to protect operations within the radiolocation service. This identification does not preclude the use of this frequency band by any application of the services to which it is allocated and does not establish priority in the Radio Regulations. (WRC-19)~~

5.429C	*Different category of service: in Argentina, Brazil, Cuba, the Dominican Republic, Guatemala, Mexico, Paraguay and Uruguay, the frequency band 3 300-3 400 MHz is allocated to the fixed service on a primary basis. Stations in the fixed service operating in the frequency band 3 300-3 400 MHz shall not cause harmful interference to, or claim protection from, stations operating in the radiolocation service. (WRC-23)*~~*Different category of service*: in Argentina, Belize, Brazil, Chile, Colombia, Costa Rica, the Dominican Republic, El Salvador, Ecuador, Guatemala, Mexico, Paraguay and Uruguay, the frequency band 3 300-3 400 MHz is allocated to the mobile, except aeronautical mobile, service on a primary basis. In Argentina, Brazil, the Dominican Republic, Guatemala, Mexico, Paraguay and Uruguay, the frequency band 3 300-3 400 MHz is also allocated to the fixed service on a primary basis. Stations in the fixed and mobile services operating in the frequency band 3 300-3 400 MHz shall not cause harmful interference to, or claim protection from, stations operating in the radiolocation service. (WRC-19)~~
5.429D	In Region 2, the use of the mobile, except aeronautical mobile, service in the frequency band 3 300-3 400 MHz is identified for the implementation of International Mobile Telecommunications (IMT). Such use shall be in accordance with Resolution **223 (Rev.WRC-23)**. The use of the frequency band 3 300-3 400 MHz by IMT stations in the mobile service shall not cause harmful interference to, or claim protection from, systems in the radiolocation service, and administrations wishing to implement IMT shall obtain the agreement of neighbouring countries to protect operations within the radiolocation service. This identification does not preclude the use of this frequency band by any application of the services to which it is allocated and does not establish priority in the Radio Regulations. (WRC-23)~~In the following countries in Region 2: Argentina, Belize, Brazil, Chile, Colombia, Costa Rica, the Dominican Republic, El Salvador, Ecuador, Guatemala, Mexico, Paraguay and Uruguay, the use of the frequency band 3 300-3 400 MHz is identified for the implementation of International Mobile Telecommunications (IMT). Such use shall be in accordance with Resolution **223 (Rev.WRC-15)**. This use in Argentina, Paraguay and Uruguay is subject to the application of **No.9.21**. The use of the frequency band 3 300-3 400 MHz by IMT stations in the mobile service shall not cause harmful interference to, or claim protection from, systems in the radiolocation service, and administrations wishing to implement IMT shall obtain the agreement of neighbouring countries to protect operations within the radiolocation service. This identification does not preclude the use of this frequency band by any application of the services to which it is allocated and does not establish priority in the Radio Regulations. (WRC-19)~~
5.429E	*Additional allocation*: in Papua New Guinea, the frequency band 3 300-3 400 MHz is allocated to the mobile, except aeronautical mobile, service on a primary basis. Stations in the mobile service operating in the frequency band 3 300-3 400 MHz shall not cause harmful interference to, or claim protection from, stations operating in the radiolocation service. (WRC-15)
5.429F	In the following countries in Region 3: Cambodia, India, Indonesia, Lao P.D.R., Pakistan, the Philippines, Singapore and Viet Nam, the use of the frequency band 3 300-3 400 MHz is identified for the implementation of International Mobile Telecommunications (IMT). Such use shall be in accordance with Resolution **223 (Rev.WRC-23)**. The use of the frequency band 3 300-3 400 MHz by IMT stations in the mobile service shall not cause harmful interference to, or claim protection from, systems in the radiolocation service. Before an administration brings into use a base or mobile station of an IMT system in this frequency band, it shall seek agreement under No. **9.21** with neighbouring countries to protect the radiolocation service. This identification does not preclude the use of this frequency band by any application of the services to which it is allocated and does not establish priority in the Radio Regulations. (WRC-23)~~In the following countries in Region 3: Cambodia, India, Indonesia, Lao P.D.R., Pakistan, the Philippines and Viet Nam, the use of the~~

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	~~frequency band 3 300-3 400 MHz is identified for the implementation of International Mobile Telecommunications (IMT). Such use shall be in accordance with Resolution **223 (Rev.WRC-15)**. The use of the frequency band 3 300-3 400 MHz by IMT stations in the mobile service shall not cause harmful interference to, or claim protection from, systems in the radiolocation service. Before an administration brings into use a base or mobile station of an IMT system in this frequency band, it shall seek agreement under No. **9.21** with neighbouring countries to protect the radiolocation service. This identification does not preclude the use of this frequency band by any application of the services to which it is allocated and does not establish priority in the Radio Regulations. (WRC-19)~~
5.429G	Stations in the mobile, except aeronautical mobile, service operating in the frequency band 3 300-3 400 MHz in Region 2 shall not cause harmful interference to, or claim protection from, systems operating in theradiolocation service. (WRC-23)
5.430	*Additional allocation:* in Kyrgyzstan and Turkmenistan, the frequency band 3 300-3 400 MHz is also allocated to the radionavigation service on a primary basis. (WRC-19)
5.430A	The allocation of the frequency band 3 400-3 600 MHz to the mobile, except aeronautical mobile, service is subject to agreement obtained under No. 9.21. This frequency band is identified for International Mobile Telecommunications (IMT). This identification does not preclude the use of this frequency band by any application of the services to which it is allocated and does not establish priority in the Radio Regulations. The provisions of Nos. 9.17 and 9.18 shall also apply in the coordination phase. Before an administration brings into use a (base or mobile) station of the mobile service in this frequency band, it shall ensure that the power flux-density (pfd) produced at 3 m above ground does not exceed -154.5 dB(W/(m2 · 4 kHz)) for more than 20% of time at the border of the territory of any other administration. This limit may be exceeded on the territory of any country whose administration has so agreed. In order to ensure that the pfd limit at the border of the territory of any other administration is met, the calculations and verification shall be made, taking into account all relevant information, with the mutual agreement of both administrations (the administration responsible for the terrestrial station and the administration responsible for the earth station) and with the assistance of the Bureau if so requested. In case of disagreement, calculation and verification of the pfd shall be made by the Bureau, taking into account the information referred to above. Stations of the mobile service in the frequency band 3 400-3 600 MHz shall not claim more protection from space stations than that provided in Table 21-4 of the Radio Regulations (Edition of 2004). (WRC-15)
5.431	*Additional allocation:* in Germany, the frequency band 3 400-3 475 MHz is also allocated to the amateur service on a secondary basis. (WRC-19)
5.431A	In Region 2, the allocation of the frequency band 3 400-3 500 MHz to the mobile, except aeronautical mobile, service on a primary basis is subject to agreement obtained under No. 9.21. (WRC-15)

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5.431B	In Region 2, the frequency band 3 400-3 600 MHz is identified for use by administrations wishing to implement International Mobile Telecommunications (IMT). This identification does not preclude the use of this frequency band by any application of the services to which it is allocated and does not establish priority in the Radio Regulations. At the stage of coordination the provisions of Nos. **9.17** and **9.18** also apply. Before an administration brings into use a base or mobile station of an IMT system, it shall seek agreement under No. **9.21** with other administrations and ensure that the power flux-density (pfd) produced at 3 m above ground does not exceed +154.5 dB(W/(m2 · 4 kHz)) for more than 20% of time at the border of the territory of any other administration. This limit may be exceeded on the territory of any country whose administration has so agreed. In order to ensure that the pfd limit at the border of the territory of any other administration is met, the calculations and verification shall be made, taking into account all relevant information, with the mutual agreement of both administrations (the administration responsible for the terrestrial station and the administration responsible for the earth station), with the assistance of the Bureau if so requested. In case of disagreement, the calculation and verification of the pfd shall be made by the Bureau, taking into account the information referred to above. Stations of the mobile service, including IMT systems, in the frequency band 3 400-3 600 MHz shall not claim more protection from space stations than that provided in Table **21-4** of the Radio Regulations (Edition of 2004). (WRC-15) (Edition of 2004). (WRC-15)
5.432	*Different category of service:* in Korea (Rep. of), Japan, Pakistan and the Dem.People's Rep. of Korea, the allocation of the frequency band 3 400-3 500 MHz to the mobile,except aeronautical mobile, service is on a primary basis (see No. **5.33**). (WRC-19)
5.432A	In Korea (Rep. of), Japan, Pakistan and the Dem. People's Rep. of Korea, the frequency band 3 400-3 500 MHz is identified for International Mobile Telecommunications (IMT). This identification does not preclude the use of this frequency band by any application of the services to which it is allocated and does not establish priority in the Radio Regulations. At the stage of coordination the provisions of Nos. **9.17** and **9.18** also apply. Before an administration brings into use a (base or mobile) station of the mobile service in this frequency band it shall ensure that the power flux-density (pfd) produced at 3 m above ground does not exceed −154.5 dB(W/(m2 · 4 kHz)) for more than 20% of time at the border of the territory of any other administration. This limit may be exceeded on the territory of any country whose administration has so agreed. In order to ensure that the pfd limit at the border of the territory of any other administration is met, the calculations and verification shall be made, taking into account all relevant information, with the mutual agreement of both administrations (the administration responsible for the terrestrial station and the administration responsible for the earth station), with the assistance of the Bureau if so requested. In case of disagreement, the calculation and verification of the pfd shall be made by the Bureau, taking into account the information referred to above. Stations of the mobile service in the frequency band 3 400-3 500 MHz shall not claim more protection from space stations than that provided in Table 21-4 of the Radio Regulations (Edition of 2004). (WRC- 19)

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5.432B	*Different category of service:* in Australia, Bangladesh, Brunei Darussalam, China, French overseas communities of Region 3, India, Indonesia, Iran (Islamic Republic of), Malaysia, New Zealand, the Philippines, Singapore and Thailand, the frequency band 3 400-3 500 MHz is allocated to the mobile, except aeronautical mobile, service on a primary basis, subject to agreement obtained under No. **9.21** with other administrations and is identified for International Mobile Telecommunications (IMT). This identification does not preclude the use of this frequency band by any application of the services to which it is allocated and does not establish priority in the Radio Regulations. At the stage of coordination the provisions of Nos. **9.17** and **9.18** also apply. Before an administration brings into use a (base or mobile) station of the mobile service in this frequency band it shall ensure that the power flux-density (pfd) produced at 3 m above ground does not exceed −154.5 dB(W/(m2 · 4 kHz)) for more than 20% of time at the border of the territory of any other administration. This limit may be exceeded on the territory of any country whose administration has so agreed. In order to ensure that the pfd limit at the border of the territory of any other administration is met, the calculations and verification shall be made, taking into account all relevant information, with the mutual agreement of both administrations (the administration responsible for the terrestrial station and the administration responsible for the earth station), with the assistance of the Bureau if so requested. In case of disagreement, the calculation and verification of the pfd shall be made by the Bureau, taking into account the information referred to above. Stations of the mobile service in the frequency band 3 400-3 500 MHz shall not claim more protection from space stations than that provided in Table 21-4 of the Radio Regulations (Edition of 2004). (WRC-19)
5.433	In Regions 2 and 3, in the band 3 400-3 600 MHz the radiolocation service is allocated on a primary basis. However, all administrations operating radiolocation systems in this band are urged to cease operations by 1985. Thereafter, administrations shall take all practicable steps to protect the fixed-satellite service and coordination requirements shall not be imposed on the fixed-satellite service.
5.433A	In Australia, Bangladesh, Brunei Darussalam, China, French overseas communities of Region 3, Korea (Rep. of), India, Indonesia, Iran (Islamic Republic of), Japan, New Zealand, Pakistan, the Philippines, the Dem. People's Rep. of Korea and Singapore, the frequency band 3 500-3 600 MHz is identified for International Mobile Telecommunications (IMT). This identification does not preclude the use of this frequency band by any application of the services to which it is allocated and does not establish priority in the Radio Regulations. At the stage of coordination the provisions of Nos. **9.17** and **9.18** also apply. Before an administration brings into use a (base or mobile) station of the mobile service in this frequency band it shall ensure that the power flux-density (pfd) produced at 3 m above ground does not exceed −154.5 dB(W/(m2 □ 4 kHz)) for more than 20% of time at the border of the territory of any other administration. This limit may be exceeded on the territory of any country whose administration has so agreed. In order to ensure that the pfd limit at the border of the territory of any other administration is met, the calculations and verification shall be made, taking into account all relevant information, with the mutual agreement of both administrations (the administration responsible for the terrestrial station and the administration responsible for the earth station), with the assistance of the Bureau if so requested. In case of disagreement, the calculation and verification of the pfd shall be made by the Bureau, taking into account the information referred to above. Stations of the mobile service in the frequency band 3 500-3 600 MHz shall not claim more protection from space stations than that provided in Table **21-4** of the Radio Regulations(Edition of 2004). (WRC-23)~~In Australia, Bangladesh, Brunei Darussalam, China, French overseas communities of Region 3, Korea (Rep. of), India, Indonesia, Iran (Islamic Republic of), Japan, New Zealand, Pakistan, the Philippines and the Dem. People's~~

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	~~Rep. of Korea, the frequency band 3 500-3 600 MHz is identified for International Mobile Telecommunications (IMT). This identification does not preclude the use of this frequency band by any application of the services to which it is allocated and does not establish priority in the Radio Regulations. At the stage of coordination the provisions of Nos. **9.17** and **9.18** also apply. Before an administration brings into use a (base or mobile) station of the mobile service in this frequency band it shall ensure that the power fluxdensity (pfd) produced at 3 m above ground does not exceed −154.5 dB(W/(m2 · 4 kHz)) for more than 20% of time at the border of the territory of any other administration. This limit may be exceeded on the territory of any country whose administration has so agreed. In order to ensure that the pfd limit at the border of the territory of any other administration is met, the calculations and verification shall be made, taking into account all relevant information, with the mutual agreement of both administrations (the administration responsible for the terrestrial station and the administration responsible for the earth station), with the assistance of the Bureau if so requested. In case of disagreement, the calculation and verification of the pfd shall be made by the Bureau, taking into account the information referred to above. Stations of the mobile service in the frequency band 3 500-3 600 MHz shall not claim more protection from space stations than that provided in Table 21-4 of the Radio Regulations (Edition of 2004). (WRC-19).~~
5.433B	In Angola, Botswana, Guinea, Lesotho, Malawi and South Sudan, the frequency band 3 600-3 700 MHz is identified for International Mobile Telecommunications (IMT). This identification does not preclude the use of the frequency band by any application of the services to which it is allocated and does not establish priority in the Radio Regulations. The conditions of No. **5.434A** shall apply. (WRC-23)
5.434	In Region 2, the frequency band 3 600-3 700 MHz is identified for use by administrations wishing to implement International Mobile Telecommunications (IMT). This identification does not preclude the use of this frequency band by any application of the services to which it is allocated and does not establish priority in the Radio Regulations. Administrations wishing to implement IMT shall obtain the agreement of neighbouring countries to ensure the protection of the fixed-satellite service (space-to-Earth). (WRC-23)~~In Canada, Chile, Colombia, Costa Rica, El Salvador, the United States and Paraguay, the frequency band 3 600-3 700 MHz, or portions thereof, is identified for use by these administrations wishing to implement International Mobile Telecommunications (IMT). This identification does not preclude the use of this frequency band by any application of the services to which it is allocated and does not establish priority in the Radio Regulations. At the stage of coordination the provisions of Nos. **9.17** and **9.18** also apply. Before an administration brings into use a base or mobile station of an IMT system, it shall seek agreement under No. **9.21** with other administrations and ensure that the power flux-density (pfd) produced at 3 m above ground does not exceed −154.5 dB(W/(m2 · 4 kHz)) for more than 20% of time at the border of the territory of any other administration. This limit may be exceeded on the territory of any country whose administration has so agreed. In order to ensure that the pfd limit at the border of the territory of any other administration is met, the calculations and verification shall be made, taking into account all relevant information, with the mutual agreement of both administrations (the administration responsible for the terrestrial station and the administration responsible for the earth station), with the assistance of the Bureau if so requested. In case of disagreement, the calculation and verification of the pfd shall be made by the Bureau, taking into account the information referred to above. Stations of the mobile service, including IMT systems, in the frequency band 3 600-3 700 MHz shall not claim more protection from space stations than that provided in Table **21-4** of the Radio Regulations (Edition of 2004). (WRC-19)~~

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5.434A	The use of the frequency band 3 600-3 800 MHz by the mobile, except aeronautical mobile, service on a primary basis in Region 1 is subject to agreement obtained under No. **9.21** if the power flux-density (pfd) limit below is exceeded. The provisions of Nos. **9.17** and **9.18** shall also apply in the coordination phase. Before an administration in Region 1 brings into use a station in the mobile service in the frequency band 3 600-3 800 MHz, for the protection of stations in the fixed and fixed-satellite services, it shall ensure that the pfd produced at 3 m above ground does not exceed −154.5 dB(W/(m2 □ 4 kHz)) for more than 20% of the time at the border of the territory of any other administration. Stations in the mobile service operating in the frequency band 3 600-3 800 MHz shall not claim more protection from space stations than that provided in Table **21-4** of the Radio Regulations. (WRC-23)
5.434B	In Algeria, Saudi Arabia, Azerbaijan, Bahrain, Belarus, Benin, Burkina Faso, Burundi, Cameroon, Central African Rep., Comoros, Congo (Rep. of the), Côte d'Ivoire, Djibouti, Egypt, United Arab Emirates, Eswatini, Gabon, Gambia, Ghana, Guinea, Iraq, Jordan, Kazakhstan, Kenya, Kuwait, Lebanon, Liberia, Libya, Madagascar, Mali, Morocco, Mauritius, Mauritania, Mozambique, Namibia, Niger, Nigeria, Oman, Uganda, Uzbekistan, Palestine*, Qatar, the Syrian Arab Republic, the Dem. Rep. of the Congo, Rwanda, Sao Tome and Principe, Senegal, Sierra Leone, Somalia, Sudan, South Africa, Tanzania, Chad, Togo, Tunisia, Yemen, Zambia and Zimbabwe, the frequency band 3 600-3 800 MHz is identified for International Mobile Telecommunications (IMT). This identification does not preclude the use of the frequency band by any application of the services to which it is allocated and does not establish priority in the Radio Regulations. The conditions of No. **5.434A** shall apply. (WRC-23)
5.435A	*Different category of service:* In Angola, Botswana, Guinea, Lesotho, Malawi and South Sudan, the frequency band 3 700-3 800 MHz is allocated to the mobile service on a secondary basis. (WRC-23)
5.435B	In the Bahamas, Belize, Brazil, Canada, Colombia, Costa Rica, United States, Guatemala, the French overseas departments and communities in Region 2, Greenland, the overseas countries and territories within the Kingdom of the Netherlands in Region 2, Paraguay, Peru, Trinidad and Tobago and Uruguay, the frequency band 3 700-3 800 MHz is identified for use by any of these administrations wishing to implement International Mobile Telecommunications (IMT). This identification does not preclude the use of this frequency band by any application of the services to which it is allocated and does not establish priority in the Radio Regulations. Administrations wishing to implement IMT shall obtain the agreement of neighbouring countries to ensure the protection of the fixed-satellite service (space-to-Earth). (WRC-23)
5.436	Use of the frequency band 4 200-4 400 MHz by stations in the aeronautical mobile (R) service is reserv edexclusively for wireless avionics intra-communication systems that operate in accordance with recognized international aeronautical standards. Such use shall be in accordance with Resolution **424 (Rev.WRC-23)**. (WRC-23)~~Use of the frequency band 4 200-4 400 MHz by stations in the aeronautical mobile (R) service is reserved exclusively for wireless avionics~~

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	~~intra-communication systems that operate in accordance with recognized international aeronautical standards. Such use shall be in accordance with Resolution **424 (WRC-15)**. (WRC-15)~~
5.437	Passive sensing in the Earth exploration-satellite and space research services may be authorized in the frequency band 4 200-4 400 MHz on a secondary basis. (WRC-15)
5.438	Use of the frequency band 4 200-4 400 MHz by the aeronautical radionavigation service is reserved exclusively for radio altimeters installed on board aircraft and for the associated transponders on the ground. (WRC-15)
5.439	*Additional allocation:* in Iran (Islamic Republic of), the band 4 200-4 400 MHz is also allocated to the fixed service on a secondary basis. (WRC-12)
5.440	The standard frequency and time signal-satellite service may be authorized to use the frequency 4 202 MHz for space- to-Earth transmissions and the frequency 6 427 MHz for Earth-to-space transmissions. Such transmissions shall be confined within the limits of ± 2 MHz of these frequencies, subject to agreement obtained under No. **9.21**.
5.440A	In Region 2 (except Brazil, Cuba, French overseas departments and communities, Guatemala, Paraguay, Uruguay and Venezuela), and in Australia, the band 4 400-4 940 MHz may be used for aeronautical mobile telemetry for flight testing by aircraft stations (see No. **1.83**). Such use shall be in accordance with Resolution **416 (WRC-07)** and shall not cause harmful interference to, nor claim protection from, the fixed-satellite and fixed services. Any such use does not preclude the use of these bands by other mobile service applications or by other services to which these bands are allocated on a co-primary basis and does not establish priority in the Radio Regulations. (WRC-07)
5.441	The use of the bands 4 500-4 800 MHz (space-to-Earth), 6 725-7 025 MHz (Earth-to-space) by the fixed-satellite service shall be in accordance with the provisions of Appendix **30B**. The use of the bands 10.7-10.95 GHz (space-to-Earth), 11.2- 11.45 GHz (space-to-Earth) and 12.75-13.25 GHz (Earth-to-space) by geostationary-satellite systems in the fixed- satellite service shall be in accordance with the provisions of Appendix **30B**. The use of the bands 10.7-10.95 GHz (space- to-Earth), 11.2-11.45 GHz (space-to-Earth) and 12.75-13.25 GHz (Earth-to-space) by a non-geostationary-satellite system in the fixed-satellite service is subject to application of the provisions of No. **9.12** for coordination with other non-geostationary-satellite systems in the fixed-satellite service. Non-geostationary-satellite systems in the fixed-satellite service shall not claim protection from geostationary-satellite networks in the fixed-satellite service operating in accordance with the Radio Regulations, irrespective of the dates of receipt by the Bureau of the complete coordination or notification information, as appropriate, for the non-geostationary-satellite systems in the fixed- satellite service and of the complete coordination or notification information, as appropriate, for the geostationary- satellite networks, and No. **5.43A** does not apply. Non-geostationary-satellite systems in the fixed-satellite service in the above bands shall be operated in such a way that any unacceptable interference that may occur during their operation shall be rapidly eliminated. (WRC-2000)
5.441A	In Brazil, Paraguay and Uruguay, the frequency band 4 800-4 900 MHz, or portions thereof, is identified for the implementation of International Mobile Telecommunications (IMT). This identification does not preclude the use of this frequency band by any application of the services to which it is allocated and does not establish priority in the Radio Regulations. The use of this frequency band for the implementation of IMT is subject to agreement obtained with neighbouring countries, and IMT stations shall not claim protection from stations of other applications of the mobile service. Such use shall be in accordance with Resolution **223 (Rev.WRC-19)**. (WRC-19)

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5.441B	In Angola, Argentina, Armenia, Azerbaijan, Benin, Botswana, Brazil, Burkina Faso, Burundi, Cabo Verde, Cambodia, Cameroon, Chile, China, Colombia, Congo (Rep. of the), Côte d'Ivoire, Djibouti, Eswatini, Russian Federation, Gabon, Ghana, Guinea, Iran (Islamic Republic of), Iraq, Kazakhstan, Lao P.D.R., Lesotho, Liberia, Madagascar, Malawi, Mali, Mongolia, Namibia, Niger, Uganda, Uzbekistan, the Dem. Rep. of the Congo, Kyrgyzstan, the Dem. People's Rep. of Korea, South Sudan, South Africa, Chad, Togo, Viet Nam, Zambia and Zimbabwe, the frequency band 4 800-4 990 MHz, or portions thereof, is identified for use by administrations wishing to implement International Mobile Telecommunications (IMT). This identification does not preclude the use of this frequency band by any application of the services to which it is allocated and does not establish priority in the Radio Regulations. The use of IMT stations is subject to agreement obtained under No. **9.21** with concerned administrations, and IMT stations shall not claim protection from stations of other applications of the mobile service. In addition, before an administration brings into use an IMT station in the mobile service, it shall ensure that the power flux-density (pfd) produced by this station does not exceed −155 dB(W/(m2 · 1 MHz)) produced up to 19 km above sea level at 20 km from the coast, defined as the low-water mark, as officially recognized by the coastal State. Resolution **223 (Rev.WRC-23)** applies. (WRC-23)~~In Angola, Armenia, Azerbaijan, Benin, Botswana, Brazil, Burkina Faso, Burundi, Cambodia, Cameroon, China, Côte d'Ivoire, Djibouti, Eswatini, Russian Federation, Gambia, Guinea, Iran (Islamic Republic of), Kazakhstan, Kenya, Lao P.D.R., Lesotho, Liberia, Malawi, Mauritius, Mongolia, Mozambique, Nigeria, Uganda, Uzbekistan, the Dem. Rep. of the Congo, Kyrgyzstan, the Dem. People's Rep. of Korea, Sudan, South Africa, Tanzania, Togo, Viet Nam, Zambia and Zimbabwe, the frequency band 4 800-4 990 MHz, or portions thereof, is identified for use by administrations wishing to implement International Mobile Telecommunications (IMT). This identification does not preclude the use of this frequency band by any application of the services to which it is allocated and does not establish priority in the Radio Regulations. The use of IMT stations is subject to agreement obtained under No. 9.21 with concerned administrations, and IMT stations shall not claim protection from stations of other applications of the mobile service. In addition, before an administration brings into use an IMT station in the mobile service, it shall ensure that the power flux-density (pfd) produced by this station does not exceed −155 dB(W/(m2 · 1 MHz)) produced up to 19 km above sea level at 20 km from the coast, defined as the low-water mark, as officially recognized by the coastal State. This pfd criterion is subject to review at WRC-23. Resolution **223 (Rev.WRC-19)** applies. This identification shall be effective after WRC-19. (WRC-19)~~
5.442	In the frequency bands 4 825-4 835 MHz and 4 950-4 990 MHz, the allocation to the mobile service is restricted to the mobile, except aeronautical mobile, service. In Region 2 (except Brazil, Cuba, Guatemala, Mexico, Paraguay, Uruguay and Venezuela), and in Australia, the frequency band 4 825-4 835 MHz is also allocated to the aeronautical mobile service, limited to aeronautical mobile telemetry for flight testing by aircraft stations. Such use shall be in accordance with Resolution **416 (WRC-07)** and shall not cause harmful interference to the fixed service. (WRC-15)
5.443	Different category of service: in Argentina, Australia and Canada, the allocation of the bands 4 825-4 835 MHz and 4 950-4 990 MHz to the radio astronomy service is on a primary basis (see No. 5.33).
5.443A	SUP (WRC-0#)
5.443AA	In the frequency bands 5 000-5 030 MHz and 5 091-5 150 MHz, the aeronautical mobile-satellite (R) service is subject to agreement obtained under No. 9.21. The use of these bands by the aeronautical mobile-satellite (R) service is limited to internationally standardized aeronautical systems. (WRC-12)

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5.443B	In order not to cause harmful interference to the microwave landing system operating above 5 030 MHz, the aggregate power flux-density produced at the Earth's surface in the frequency band 5 030-5 150 MHz by all the space stations within any radionavigation-satellite service system (space-to-Earth) operating in the frequency band 5 010-5 030 MHz shall not exceed -124.5 dB(W/m2) in a 150 kHz band. In order not to cause harmful interference to the radio astronomy service in the frequency band 4 990-5 000 MHz, radionavigation-satellite service systems operating in the frequency band 5 010-5 030 MHz shall comply with the limits in the frequency band 4 990-5 000 MHz defined in Resolution **741 (Rev.WRC-15)**. (WRC-15)
5.443C	The use of the frequency band 5 030-5 091 MHz by the aeronautical mobile (R) service is limited to internationally standardized aeronautical systems. Unwanted emissions from the aeronautical mobile (R) service in the frequency band 5 030-5 091 MHz shall be limited to protect RNSS system downlinks in the adjacent 5 010-5 030 MHz band. Until such time that an appropriate value is established in a relevant ITU-R Recommendation, the e.i.r.p. density limit of −75 dBW/MHz in the frequency band 5 010-5 030 MHz for any AM(R)S station unwanted emission should be used. (WRC-12)
5.443D	In the frequency band 5 030-5 091 MHz, the aeronautical mobile-satellite (R) service is subject to coordination under No. **9.11A**. The use of this frequency band by the aeronautical mobile-satellite (R) service is limited to internationally standardized aeronautical systems. (WRC-12)
5.444	The frequency band 5 030-5 150 MHz is to be used for the operation of the international standard system (microwave landing system) for precision approach and landing. In the frequency band 5 030-5 091 MHz, the requirements of this system shall have priority over other uses of this frequency band. For the use of the frequency band 5 091-5 150 MHz, No. **5.444A** and Resolution **114 (Rev.WRC-15)** apply. (WRC-15)
5.444A	The use of the allocation to the fixed-satellite service (Earth-to-space) in the frequency band 5 091-5 150 MHz is limited to feeder links of non-geostationary satellite systems in the mobile-satellite service and is subject to coordination under No. **9.11A**. The use of the frequency band 5 091-5 150 MHz by feeder links of non-geostationary satellite systems in the mobile-satellite service shall be subject to application of Resolution **114 (Rev.WRC-15)**. Moreover, to ensure that the aeronautical radionavigation service is protected from harmful interference, coordination is required for feeder-link earth stations of the non-geostationary satellite systems in the mobile-satellite service which are separated by less than 450 km from the territory of an administration operating ground stations in the aeronautical radionavigation service. (WRC-15)
5.444B	The use of the frequency band 5 091-5 150 MHz by the aeronautical mobile service is limited to: – systems operating in the aeronautical mobile (R) service and in accordance with international aeronautical standards, limited to surface applications at airports. Such use shall be in accordance with Resolution **748 (Rev.WRC-19)**; – aeronautical telemetry transmissions from aircraft stations (see No. **1.83**) in accordance with Resolution **418 (Rev.WRC-19)**. (WRC-19)
5.446	*Additional allocation:* in the countries listed in No. **5.369**, the frequency band 5 150-5 216 MHz is also allocated to the radiodetermination-satellite service (space-to-Earth) on a primary basis, subject to agreement obtained under No. **9.21**. In Region 2 (except in Mexico), the frequency band is also allocated to the radiodetermination-satellite service (space- to-Earth) on a primary basis. In Regions 1 and 3, except those countries listed in No. **5.369** and Bangladesh, the frequency band is also allocated to the radiodetermination-satellite service (space-to-Earth) on a secondary basis. The use by the radiodetermination-satellite service is limited to feeder links in conjunction with the radiodeterminationsatellite service operating in the frequency bands 1 610-1

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	626.5 MHz and/or 2 483.5-2 500 MHz. The total power fluxdensity at the Earth's surface shall in no case exceed -159 dB(W/m2) in any 4 kHz band for all angles of arrival. (WRC-15)
5.446A	The use of the frequency bands 5 150-5 350 MHz and 5 470-5 725 MHz by the stations in the mobile,except aeronautical mobile, service shall be in accordance with Resolution **229 (Rev.WRC-23)**. (WRC-23)~~The use of the bands 5 150-5 350 MHz and 5 470-5 725 MHz by the stations in the mobile, except aeronautical mobile, service shall be in accordance with Resolution **229 (Rev.WRC-19)**. (WRC-19)~~
5.446B	In the band 5 150-5 250 MHz, stations in the mobile service shall not claim protection from earth stations in the fixed- satellite service. No. **5.43A** does not apply to the mobile service with respect to fixed-satellite service earth stations. (WRC-03)
5.446C	Additional allocation: in Region 1 (except in Algeria, Saudi Arabia, Bahrain, Egypt, United Arab Emirates, Iraq, Jordan, Kuwait, Lebanon, Morocco, Oman, Qatar, Syrian Arab Republic, Sudan, South Sudan and Tunisia), the frequency band 5 150-5 250 MHz is also allocated to the aeronautical mobile service on a primary basis, limited to aeronautical telemetry transmissions from aircraft stations (see No. 1.83), in accordance with Resolution 418 (Rev.WRC-19). These stations shall not claim protection from other stations operating in accordance with Article 5. No. 5.43A does not apply. (WRC-19)
5.446D	Additional allocation: in Brazil, the band 5 150-5 250 MHz is also allocated to the aeronautical mobile service on a primary basis, limited to aeronautical telemetry transmissions from aircraft stations (see No. 1.83), in accordance with Resolution 418 (Rev.WRC-19). (WRC-19)
5.447	Additional allocation: in Côte d'Ivoire, Egypt, Lebanon, the Syrian Arab Republic and Tunisia, the frequency band 5 150-5 250 MHz is also allocated to the mobile service, on a primary basis, subject to agreement obtained under No. 9.21. In this case, the provisions of Resolution 229 (Rev.WRC-23) do not apply. (WRC-23)~~*Additional allocation:* in Côte d'Ivoire, Egypt, Lebanon, the Syrian Arab Republic and Tunisia, the frequency band 5 150- 5 250 MHz is also allocated to the mobile service, on a primary basis, subject to agreement obtained under No. **9.21**. In this case, the provisions of Resolution **229 (Rev.WRC-19)** do not apply. (WRC-19)~~
5.447A	The allocation to the fixed-satellite service (Earth-to-space) is limited to feeder links of non-geostationary-satellite systems in the mobile-satellite service and is subject to coordination under No. **9.11A**.
5.447B	*Additional allocation*: the band 5 150-5 216 MHz is also allocated to the fixed-satellite service (space-to-Earth) on a primary basis. This allocation is limited to feeder links of non-geostationary-satellite systems in the mobile-satellite service and is subject to provisions of No. **9.11A**. The power flux-density at the Earth's surface produced by space stations of the fixed-satellite service operating in the space-to-Earth direction in the band 5 150-5 216 MHz shall in no case exceed –164 dB(W/m2) in any 4 kHz band for all angles of arrival.

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5.447C	Administrations responsible for fixed-satellite service networks in the band 5 150-5 250 MHz operated under Nos. **5.447A** and **5.447B** shall coordinate on an equal basis in accordance with No. **9.11A** with administrations responsible for non-geostationary-satellite networks operated under No. **5.446** and brought into use prior to 17 November 1995. Satellite networks operated under No. **5.446** brought into use after 17 November 1995 shall not claim protection from, and shall not cause harmful interference to, stations of the fixed-satellite service operated under Nos. **5.447A** and **5.447B**.
5.447D	The allocation of the band 5 250-5 255 MHz to the space research service on a primary basis is limited to active spaceborne sensors. Other uses of the band by the space research service are on a secondary basis. (WRC-97)
5.447E	Additional allocation: The frequency band 5 250-5 350 MHz is also allocated to the fixed service on a primary basis in the following countries in Region 3: Australia, Korea (Rep. of), India, Indonesia, Iran (Islamic Republic of), Japan, Malaysia, Papua New Guinea, the Philippines, Dem. People's Rep. of Korea, Sri Lanka, Thailand and Viet Nam. The use of this frequency band by the fixed service is intended for the implementation of fixed wireless access systems and shall comply with Recommendation ITU-R F.1613-0. In addition, the fixed service shall not claim protection from the radiodetermination, Earth exploration-satellite (active) and space research (active) services, but the provisions of No. 5.43A do not apply to the fixed service with respect to the Earth exploration-satellite (active) and space research (active) services. After implementation of fixed wireless access systems in the fixed service with protection for the existing radiodetermination systems, no more stringent constraints should be imposed on the fixed wireless access systems by future radiodetermination implementations. (WRC-15)
5.447F	In the frequency band 5 250-5 350 MHz, stations in the mobile service shall not claim protection from the radiolocation service, the Earth exploration-satellite service (active) and the space research service (active). Theradio location service, the Earth exploration-satellite service (active) and the space research service (active) shall not impose more stringent conditions upon the mobile service than those stipulated in Resolution **229 (Rev.WRC-23)**. (WRC-23)~~In the frequency band 5 250-5 350 MHz, stations in the mobile service shall not claim protection from the radiolocation service, the Earth exploration-satellite service (active) and the space research service (active). The radiolocation service, the Earth exploration-satellite service (active) and the space research service (active) shall not impose more stringent conditions upon the mobile service than those stipulated in Resolution **229 (Rev.WRC-19)**. (WRC-19)~~
5.448	Additional allocation: in Kyrgyzstan, Romania and Turkmenistan, the frequency band 5 250-5 350 MHz is also allocated to the radionavigation service on a primary basis. (WRC-19)
5.448A	The Earth exploration-satellite (active) and space research (active) services in the frequency band 5 250-5 350 MHz shall not claim protection from the radiolocation service. **No. 5.43A** does not apply. (WRC-03)
5.448B	The Earth exploration-satellite service (active) operating in the band 5 350-5 570 MHz and space research service (active) operating in the band 5 460-5 570 MHz shall not cause harmful interference to the aeronautical radionavigation service in the band 5 350-5 460 MHz, the radionavigation service in the band 5 460-5 470 MHz and the maritime radionavigation service in the band 5 470-5 570 MHz. (WRC-03)
5.448C	The space research service (active) operating in the band 5 350-5 460 MHz shall not cause harmful interference to nor claim protection from other services to which this band is allocated. (WRC-03
5.448D	In the frequency band 5 350-5 470 MHz, stations in the radiolocation service shall not cause harmful interference to, nor claim protection from, radar systems in the aeronautical radionavigation service operating in accordance with No. **5.449.** (WRC-03)

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5.449	The use of the band 5 350-5 470 MHz by the aeronautical radionavigation service is limited to airborne radars and associated airborne beacons.
5.450	*Additional allocation:* in Austria, Azerbaijan, Iran (Islamic Republic of), Kyrgyzstan, Romania, Turkmenistan and Ukraine, the band 5 470-5 650 MHz is also allocated to the aeronautical radionavigation service on a primary basis. (WRC-12)
5.450A	In the frequency band 5 470-5 725 MHz, stations in the mobile service shall not claim protection from radiodetermination services. The radiodetermination services shall not impose more stringent conditions upon the mobile service than those stipulated in Resolution **229 (Rev.WRC-23)**. (WRC-23)~~the frequency band 5 470-5 725 MHz, stations in the mobile service shall not claim protection from radiodetermination services. The radiodetermination services shall not impose more stringent conditions upon the mobile service than those stipulated in Resolution **229 (Rev.WRC-19)**. (WRC-19)~~
5.450B	In the frequency band 5 470-5 650 MHz, stations in the radiolocation service, except ground-based radars used for meteorological purposes in the band 5 600-5 650 MHz, shall not cause harmful interference to, nor claim protection from, radar systems in the maritime radionavigation service. (WRC-03)
5.451	Additional allocation: in the United Kingdom, the band 5470-5 850 MHz is also allocated to the land mobile service on a secondary basis. The power limits specified in Nos. **21.2, 21.3, 21.4** and **21.5** shall apply in the band 5 725-5 850 MHz.
5.452	Between 5 600 MHz and 5 650 MHz, ground-based radars used for meteorological purposes are authorized to operate on a basis of equality with stations of the maritime radionavigation service.
5.453	*Additional allocation:* in Saudi Arabia, Bahrain, Bangladesh, Brunei Darussalam, Cameroon, China, Congo (Rep. of the), Korea (Rep. of), Côte d'Ivoire, Djibouti, Egypt, the United Arab Emirates, Eswatini, Gabon, Guinea, Equatorial Guinea, India, Indonesia, Iran (Islamic Republic of), Iraq, Japan, Jordan, Kenya, Kuwait, Lebanon, Libya, Madagascar, Malaysia, Niger, Nigeria, Oman, Uganda, Pakistan, the Philippines, Qatar, the Syrian Arab Republic, the Dem. People's Rep. of Korea, Singapore, Somalia, Sri Lanka, Tanzania, Chad, Thailand, Togo, Viet Nam and Yemen, the frequency band 5 650-5 850 MHz is also allocated to the fixed and mobile services on a primary basis. In this case, the provisions of Resolution **229** (**Rev.WRC-23**) do not apply. In addition, in Afghanistan, Angola, Benin, Bhutan, Botswana, Burkina Faso, Burundi, Dem. Rep. of the Congo, Fiji, Ghana, Kiribati, Lesotho, Malawi, Maldives, Mauritius, Micronesia, Mongolia, Mozambique, Myanmar, Namibia, Nauru, New Zealand, Papua New Guinea, Rwanda, Solomon Islands, South Sudan, South Africa, Tonga, Vanuatu, Zambia and Zimbabwe, the frequency band 5 725-5 850 MHz is allocated to the fixed service on a primary basis, and stations operating in the fixed service shall not cause harmful interference to and shall not claim protection from other primary services in the frequency band. (WRC-23)
5.454	*Different category of service:* in Azerbaijan, the Russian Federation, Georgia, Kyrgyzstan, Tajikistan and Turkmenistan, the allocation of the band 5 670-5 725 MHz to the space research service is on a primary basis (see No. **5.33**). (WRC-12)
5.455	*Additional allocation:* in Armenia, Azerbaijan, Belarus, Cuba, the Russian Federation, Georgia, Hungary, Kazakhstan, Moldova, Uzbekistan, Kyrgyzstan, Romania, Tajikistan, Turkmenistan and Ukraine, the frequency band 5 670-5 850 MHz is also allocated to the fixed service on a primary basis. (WRC-19)
5.456	SUP (WRC-15)

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5.457	In Australia, Burkina Faso, Cote d'Ivoire, Mali and Nigeria, the allocation to the fixed service in the bands 6 440-6 520 MHz (HAPS-to-ground direction) and 6 560-6 640 MHz (ground-to- HAPS direction) may also be used by gateway links for high-altitude platform stations (HAPS) within the territory of these countries. Such use is limited to operation in HAPS gateway links and shall not cause harmful interference to, and shall not claim protection from, existing services, and shall be in compliance with Resolution **150 (WRC-12)**. Existing services shall not be constrained in future development by HAPS gateway links. The use of HAPS gateway links in these bands requires explicit agreement with other administrations whose territories are located within 1 000 kilometres from the border of an administration intending to use the HAPS gateway links. (WRC-12)
5.457A	~~In~~ In the frequency bands 5 925-6 425 MHz and 14-14.5 GHz, earth stations located on board vessels may communicate with space stations of the fixed-satellite service. Such use shall be in accordance with Resolution **902 (Rev.WRC-23)**. In the frequency band 5 925-6 425 MHz, earth stations located on board vessels and communicating with space stations of the fixed-satellite service may employ transmit antennas with minimum diameter of 1.2 m and operate without prior agreement of any administration if located at least 330 km away from the low-water mark as officially recognized by the coastal State. All other provisions of Resolution **902 (Rev.WRC-23)** shall apply. (WRC-23)~~the frequency bands 5 925-6 425 MHz and 14-14.5 GHz, earth stations located on board vessels may communicate with space stations of the fixed-satellite service. Such use shall be in accordance with Resolution **902 (WRC-03)**. In the frequency band 5 925-6 425 MHz, earth stations located on board vessels and communicating with space stations of the fixed-satellite service may employ transmit antennas with minimum diameter of 1.2 m and operate without prior agreement of any administration if located at least 330 km away from the low-water mark as officially recognized by the coastal State. All other provisions of Resolution **902 (WRC-03)** shall apply. (WRC-15)~~
5.457B	~~In~~ In the frequency bands 5 925-6 425 MHz and 14-14.5 GHz, earth stations located on board vessels may operate with the characteristics and under the conditions contained in Resolution **902 (Rev.WRC-23)** in Algeria, Saudi Arabia, Bahrain, Comoros, Djibouti, Egypt, United Arab Emirates, Jordan, Kuwait, Libya, Morocco, Mauritania, Oman, Qatar, the Syrian Arab Republic, Sudan, Tunisia and Yemen, in the maritime mobile-satellite service on a secondary basis. Such use shall be in accordance with Resolution **902 (Rev.WRC-23)**. (WRC-23)~~the frequency bands 5 925-6 425 MHz and 14-14.5 GHz, earth stations located on board vessels may operate with the characteristics and under the conditions contained in Resolution **902 (WRC-03)** in Algeria, Saudi Arabia, Bahrain, Comoros, Djibouti, Egypt, United Arab Emirates, Jordan, Kuwait, Libya, Morocco, Mauritania, Oman, Qatar, the Syrian Arab Republic, Sudan, Tunisia and Yemen, in the maritime mobile-satellite service on a secondary basis. Such use shall be in accordance with Resolution **902 (WRC-03)**. (WRC-15)~~
5.457C	In Region 2 (except Brazil, Cuba, French overseas departments and communities, Guatemala, Mexico, Paraguay, Uruguay and Venezuela), the frequency band 5 925-6 700 MHz may be used for aeronautical mobile telemetry for flight testing by aircraft stations (see No. **1.83**). Such use shall be in accordance with Resolution **416 (WRC-07)** and shall not cause harmful interference to, or claim protection from, the fixed-satellite and fixed services. Any such use does not preclude the use of this frequency band by other mobile service applications or by other services to which this frequency band is allocated on a co-primary basis and does not establish priority in the Radio Regulations. (WRC-15)

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5.457D	In Cambodia, Lao P.D.R. and the Maldives, the frequency band 6 425-7 025 MHz is identified for the terrestrial component of International Mobile Telecommunications (IMT). This identification does not preclude the use of this frequency band by any application of the services to which it is allocated and does not establish priority in the Radio Regulations. Resolution **220 (WRC-23)** applies. (WRC-23)
5.457E	The frequency bands 6 425-7 125 MHz in Region 1 and 7 025-7 125 MHz in Region 3 are identified for use by administrations wishing to implement the terrestrial component of International Mobile Telecommunications (IMT). This identification does not preclude the use of these frequency bands by any application of the services to which they are allocated and does not establish priority in the Radio Regulations. Resolution **220 (WRC-23)** applies. The frequency bands are also used for the implementation of wireless access systems (WAS), including radio local area networks (RLANs). (WRC-23)
5.457F	In Brazil and Mexico, the frequency band 6 425-7 125 MHz is identified for the terrestrial component of International Mobile Telecommunications (IMT). The use of this frequency band for the implementation of IMT is subject to seeking agreement under No. **9.21** with neighbouring countries. This identification does not preclude the use of this frequency band by any application of the services to which it is allocated and does not establish priority in the Radio Regulations. Resolution **220 (WRC-23)** applies. The frequency band is also used for the implementation of wireless access systems (WAS), including radio local area networks (RLANs). (WRC-23)
5.458	In the band 6 425-7 075 MHz, passive microwave sensor measurements are carried out over the oceans. In the band 7 075-7 250 MHz, passive microwave sensor measurements are carried out. Administrations should bear in mind the needs of the Earth exploration-satellite (passive) and space research (passive) services in their future planning of the bands 6 425-7 025 MHz and 7 075-7 250 MHz.
5.458A	In making assignments in the band 6 700-7 075 MHz to space stations of the fixed-satellite service, administrations are urged to take all practicable steps to protect spectral line observations of the radio astronomy service in the band 6 650- 6 675.2 MHz from harmful interference from unwanted emissions.
5.458B	The space-to-Earth allocation to the fixed-satellite service in the band 6 700-7 075 MHz is limited to feeder links for non- geostationary satellite systems of the mobile-satellite service and is subject to coordination under No. **9.11A**. The use of the band 6 700-7 075 MHz (space-to-Earth) by feeder links for non-geostationary satellite systems in the mobile- satellite service is not subject to No. **22.2**.
5.458C	SUP (WRC-15)
5.459	*Additional allocation:* in the Russian Federation, the frequency bands 7 100-7 155 MHz and 7 190-7 235 MHz are also allocated to the space operation service (Earth-to-space) on a primary basis, subject to agreement obtained under **No.9.21**. In the frequency band 7 190-7 235 MHz, with respect to the Earth exploration satellite service (Earth-to-space), **No. 9.21** does not apply. (WRC-15)
5.460	No emissions from space research service (Earth-to-space) systems intended for deep space shall be effected in the frequency band 7 190-7 235 MHz. Geostationary satellites in the space research service operating in the frequency band 7 190-7 235 MHz shall not claim protection from existing and future stations of the fixed and mobile services and No. **5.43A** does not apply. (WRC-15)

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5.460A	The use of the frequency band 7 190-7 250 MHz (Earth-to-space) by the Earth exploration-satellite service shall be limited to tracking, telemetry and command for the operation of spacecraft. Space stations operating in the Earth exploration-satellite service (Earth-to-space) in the frequency band 7 190-7 250 MHz shall not claim protection from existing and future stations in the fixed and mobile services, and No. **5.43A** does not apply. No. **9.17** applies. Additionally, to ensure protection of the existing and future deployment of fixed and mobile services, the location of earth stations supporting spacecraft in the Earth exploration-satellite service in non-geostationary orbits or geostationary orbit shall maintain a separation distance of at least 10 km and 50 km, respectively, from the respective border(s) of neighbouring countries, unless a shorter distance is otherwise agreed between the corresponding administrations. (WRC-15)
5.460B	Space stations on the geostationary orbit operating in the Earth exploration-satellite service (Earth-to-space) in the frequency band 7 190-7 235 MHz shall not claim protection from existing and future stations of the space research service, and No. **5.43A** does not apply. (WRC-15)
5.461	~~*Additional allocation:*~~ *Additional allocation:* the frequency bands 7 250-7 375 MHz (space-to-Earth) and 7 900-8 025 MHz (Earth-to-space) are also allocated to the mobile-satellite service on a primary basis, subject to agreement obtained under No. **9.21**, with the exception that No. **9.21** shall not apply to the geostationary-satellite networks in the mobile-satellite service for which complete coordination information is received by the Bureau as of 1 January 2025 with respect to nongeostationary-satellite systems for which complete coordination or notification information, according to the case, is received by the Bureau as of 1 January 2025. Non-geostationary-satellite systems for which complete coordination or notification information, according to the case, is received by the Bureau as of 1 January 2025 shall not cause unacceptableinterference to and shall not claim protection from geostationary- satellite networks in the mobile-satellite service operating in accordance with these Regulations. No. **5.43A** does not apply. (WRC-23)~~the bands 7 250-7 375 MHz (space-to-Earth) and 7 900-8 025 MHz (Earth-to-space) are also allocated to the mobile-satellite service on a primary basis, subject to agreement obtained under No. **9.21**.~~
5.461A	The use of the band 7 450-7 550 MHz by the meteorological-satellite service (space-to-Earth) is limited to geostationary- satellite systems. Non-geostationary meteorological-satellite systems in this band notified before 30 November 1997 may continue to operate on a primary basis until the end of their lifetime. (WRC-97)
5.461AA	The use of the frequency band 7 375-7 750 MHz by the maritime mobile-satellite service is limited to geostationary- satellite networks. (WRC-15)
5.461AB	In the frequency band 7 375-7 750 MHz, earth stations in the maritime mobile-satellite service shall not claim protection from, nor constrain the use and development of, stations in the fixed and mobile, except aeronautical mobile, services. No. **5.43A** does not apply. (WRC-15)
5.461AC	In the frequency band 7 375-7 750 MHz, non-geostationary-satellite systems operating in the fixed-satellite service for which complete coordination or notification information, according to the case, is received by the Bureau as of 1 January 2025 shall not cause unacceptable interference to and shall not claim protection from geostationary-satellite networks in the maritime mobile-satellite service operating in accordance with these Regulations. No. **5.43A** does not apply. (WRC-23)
5.461B	The use of the band 7 750-7 900 MHz by the meteorological-satellite service (space-to-Earth) is limited to non- geostationary satellite systems. (WRC-12)
5.462	SUP (WRC-97)
5.462A	In Regions 1 and 3 (except for Japan), in the band 8 025-8 400 MHz, the Earth

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	exploration-satellite service using geostationary satellites shall not produce a power flux-density in excess of the following provisional values for angles of arrival (θ), without the consent of the affected administration: -135 dB(W/m^2) in a 4 kHz band for $0^o \leq \Theta < 5^o$ $-135 + 0.5\,(\Theta - 5)$ dB(W/m^2) in a 4 kHz for $5^o \leq \Theta < 25^o$ -125 dB(W/m^2) in a 1 MHz band for $25^o \leq \Theta \leq 90^o$
5.463	Aircraft stations are not permitted to transmit in the band 8025-8 400 MHz. (WRC-97)
5.465	In the space research service, the use of the band 8 400-8 450 MHz is limited to deep space.
5.466	*Different category of service:* in , Singapore and Sri Lanka, the allocation of the band 8 400-8 500 MHz to the space research service is on a secondary basis (see No. 5.32). (WRC-12)
5.468	*Additional allocation:* in Saudi Arabia, Bahrain, Bangladesh, Brunei Darussalam, Burundi, Cameroon, China, Congo (Rep. of the), Djibouti, Egypt, the United Arab Emirates, Eswatini, Gabon, Guyana, Indonesia, Iran (Islamic Republic of), Iraq, Jamaica, Jordan, Kenya, Kuwait, Lebanon, Libya, Malaysia, Mali, Morocco, Mauritania, Nepal, Nigeria, Oman, Uganda, Pakistan, Qatar, Syrian Arab Republic, the Dem. People's Rep. of Korea, Senegal, Singapore, Somalia, Sudan, Chad, Togo, Tunisia and Yemen, the frequency band 8 500-8 750 MHz is also allocated to the fixed and mobile services on a primary basis. (WRC-19)
5.469	~~*Additional allocation:*~~ *Additional allocation:* in Armenia, Azerbaijan, Belarus, the Russian Federation, Georgia, Hungary, Lithuania, Uzbekistan, Poland, Kyrgyzstan, the Czech Rep., Romania, Tajikistan, Turkmenistan and Ukraine, the frequency band 8 500-8 750 MHz is also allocated to the land mobile and radionavigation services on a primary basis. (WRC-23)~~in Armenia, Azerbaijan, Belarus, the Russian Federation, Georgia, Hungary, Lithuania, Mongolia, Uzbekistan, Poland, Kyrgyzstan, the Czech Rep., Romania, Tajikistan, Turkmenistan and Ukraine, the band 8 500-8 750 MHz is also allocated to the land mobile and radionavigation services on a primary basis. (WRC-12)~~
5.469A	In the band 8 550-8 650 MHz, stations in the Earth exploration-satellite service (active) and space research service (active) shall not cause harmful interference to, or constrain the use and development of, stations of the radiolocation service. (WRC-97)
5.470	The use of the band 8 750-8 850 MHz by the aeronautical radionavigation service is limited to airborne Doppler navigation aids on a centre frequency of 8 800 MHz.
5.471	Additional allocation: in Algeria, Germany, Bahrain, Belgium, China, Egypt, the United Arab Emirates, France, Greece, Indonesia, Iran (Islamic Republic of), Libya, the Netherlands, Qatar and Sudan, the frequency bands 8 825-8 850 MHz and 9 000-9 200 MHz are also allocated to the maritime radionavigation service, on a primary basis, for use by shore- based radars only. (WRC-15)
5.472	In the bands 8 850-9 000 MHz and 9 200-9 225 MHz, the maritime radionavigation service is limited to shore-based radars.
5.473	*Additional allocation:* in Armenia, Austria, Azerbaijan, Belarus, Cuba, the Russian Federation, Georgia, Hungary, Mongolia, Uzbekistan, Poland, Kyrgyzstan, Romania, Tajikistan, Turkmenistan and Ukraine, the bands 8 850-9 000 MHz and 9 200-9 300 MHz are also allocated to the radionavigation service on a primary basis. (WRC-07)

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5.473A	*Additional allocation:* in Armenia, Austria, Azerbaijan, Belarus, Cuba, the Russian Federation, Georgia, Hungary, Uzbekistan, Poland, Kyrgyzstan, Romania, Tajikistan, Turkmenistan and Ukraine, the frequency bands 8 850-9 000 MHz and 9 200-9 300 MHz are also allocated to the radionavigation service on a primary basis. (WRC-19)
5.474	In the band 9 200-9 500 MHz, search and rescue transponders (SART) may be used, having due regard to the appropriate ITU-R Recommendation (see also Article **31**).
5.474A	The use of the frequency bands 9 200-9 300 MHz and 9 900-10 400 MHz by the Earth exploration-satellite service (active) is limited to systems requiring necessary bandwidth greater than 600 MHz that cannot be fully accommodated within the frequency band 9 300-9 900 MHz. Such use is subject to agreement to be obtained under No. **9.21** from Algeria, Saudi Arabia, Bahrain, Egypt, Indonesia, Iran (Islamic Republic of), Lebanon and Tunisia. An administration that has not replied under No. 9.52 is considered as not having agreed to the coordination request. In this case, the notifying administration of the satellite system operating in the Earth exploration-satellite service (active) may request the assistance of the Bureau under Sub-Section IID of Article 9. (WRC-15)
5.474B	Stations operating in the Earth exploration-satellite (active) service shall comply with Recommendation ITU-R RS.2066- 0. (WRC-15)
5.474C	Stations operating in the Earth exploration-satellite (active) service shall comply with Recommendation ITU-R RS.2065- 0. (WRC-15)
5.474D	Stations in the Earth exploration-satellite service (active) shall not cause harmful interference to, or claim protection from, stations of the maritime radionavigation and radiolocation services in the frequency band 9 200-9 300 MHz, the radionavigation and radiolocation services in the frequency band 9 900-10 000 MHz and the radiolocation service in the frequency band 10.0-10.4 GHz. (WRC-15)
5.475	The use of the band 9 300-9 500 MHz by the aeronautical radionavigation service is limited to airborne weather radars and ground-based radars. In addition, ground-based radar beacons in the aeronautical radionavigation service are permitted in the band 9 300-9 320 MHz on condition that harmful interference is not caused to the maritime radionavigation service. (WRC-07)
5.475A	The use of the band 9 300-9 500 MHz by the Earth exploration-satellite service (active) and the space research service (active) is limited to systems requiring necessary bandwidth greater than 300 MHz that cannot be fully accommodated within the 9 500-9 800 MHz band. (WRC-07)
5.475B	In the band 9 300-9 500 MHz, stations operating in the radiolocation service shall not cause harmful interference to, nor claim protection from, radars operating in the radionavigation service in conformity with the Radio Regulations. Ground-based radars used for meteorological purposes have priority over other radiolocation uses. (WRC-07)
5.476	SUP (WRC-07)
5.476A	In the band 9 300-9 800 MHz, stations in the Earth exploration-satellite service (active) and space research service (active) shall not cause harmful interference to, nor claim protection from, stations of the radionavigation and radiolocation services. (WRC-07)
5.477	*Different category of service:* in Algeria, Saudi Arabia, Bahrain, Bangladesh, Brunei Darussalam, Cameroon, Djibouti, Egypt, the United Arab Emirates, Eritrea, Ethiopia, Guyana, India, Indonesia, Iran (Islamic Republic of), Iraq, Jamaica, Japan, Jordan, Kuwait, Lebanon, Liberia, Malaysia, Nigeria, Oman, Uganda, Pakistan, Qatar, Syrian Arab Republic, the Dem. People's Rep. of Korea, Singapore, Somalia, Sudan, South Sudan, Trinidad and Tobago, and Yemen, the allocation of the frequency band 9 800-10 000 MHz to the fixed service is on a primary basis (see No. **5.33**). (WRC-15)

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5.478	*Additional allocation:* in Azerbaijan, Kyrgyzstan, Romania, Turkmenistan and Ukraine, the frequency band 9 800-10 000 MHz is also allocated to the radionavigation service on a primary basis. (WRC-19)
5.478A	The use of the band 9 800-9 900 MHz by the Earth exploration-satellite service (active) and the space research service (active) is limited to systems requiring necessary bandwidth greater than 500 MHz that cannot be fully accommodated within the 9 300-9 800 MHz band. (WRC-07)
5.478B	In the band 9 800-9 900 MHz, stations in the Earth exploration-satellite service (active) and space research service (active) shall not cause harmful interference to, nor claim protection from stations of the fixed service to which this band is allocated on a secondary basis. (WRC-07)
5.479	The band 9 975-10 025 MHz is also allocated to the meteorological-satellite service on a secondary basis for use by weather radars.
5.480	~~*Additional allocation:*~~ *Additional allocation:* in Argentina, Brazil, Chile, Colombia, Costa Rica, Cuba, the Dominican Republic, El Salvador, Ecuador, Guatemala, Honduras, Jamaica, Mexico, Paraguay, the overseas countries and territories within the Kingdom of the Netherlands in Region 2, Peru, Suriname and Uruguay, the frequency band 10-10.45 GHz is also allocated to the fixed and mobile services on a primary basis. In Venezuela, the frequency band 10-10.45 GHz is also allocated to the fixed service on a primary basis. (WRC-23)~~in Argentina, Brazil, Chile, Cuba, El Salvador, Ecuador, Guatemala, Honduras, Paraguay, the overseas countries and territories within the Kingdom of the Netherlands in Region 2, Peru and Uruguay, the frequency band 10-10.45 GHz is also allocated to the fixed and mobile services on a primary basis. In Colombia, Costa Rica, Mexico and Venezuela, the frequency band 10-10.45 GHz is also allocated to the fixed service on a primary basis. (WRC-19)~~
5.480A	In the following countries in Region 2: Brazil, Colombia, Costa Rica, Cuba, the Dominican Republic, Ecuador, Guatemala, Jamaica, Mexico, Paraguay, Peru and Uruguay, the frequency band 10-10.5 GHz is identified for the implementation of the terrestrial component of International Mobile Telecommunications (IMT). The implementation of this identification in Mexico is subject to seeking agreement with the United States under No. 9.21. The use of the frequency band 10-10.5 GHz by IMT stations in the mobile service shall not claim protection from systems in the radiolocation service. This identification does not preclude the use of this frequency band by any application of the services to which it is allocated and does not establish priority in the Radio Regulations. Resolution 219 (WRC-23) applies. (WRC-23)
5.481	~~*Additional allocation:*~~ *Additional allocation*: in Algeria, Germany, Angola, Brazil, China, Colombia, Costa Rica, Côte d'Ivoire, Cuba, Djibouti, the Dominican Republic, Egypt, El Salvador, Ecuador, Spain, Guatemala, Hungary, Jamaica, Japan, Kenya, Morocco, Mexico, Nigeria, Oman, Uzbekistan, Pakistan, Palestine*, Paraguay, Peru, the Dem. People's Rep. of Korea, Romania, Somalia, Suriname, Tunisia and Uruguay, the frequency band 10.45-10.5 GHz is also allocated to the fixed and mobile services on a primary basis. (WRC-23)~~in Algeria, Germany, Angola, Brazil, China, Côte d'Ivoire, Egypt, El Salvador, Ecuador, Spain, Guatemala, Hungary, Japan, Kenya, Morocco, Nigeria, Oman, Uzbekistan, Pakistan, Paraguay, Peru, the Dem. People's Rep. of Korea, Romania, Tunisia and Uruguay, the frequency band 10.45-10.5 GHz is also allocated to the fixed and mobile services on a primary basis. In Costa Rica, the frequency band 10.45-10.5 GHz is also allocated to the fixed service on a primary basis. (WRC-19)~~

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5.482	In the band 10.6-10.68 GHz, the power delivered to the antenna of stations of the fixed and mobile, except aeronautical mobile, services shall not exceed −3 dBW. This limit may be exceeded, subject to agreement obtained under No. **9.21**. However, in Algeria, Saudi Arabia, Armenia, Azerbaijan, Bahrain, Bangladesh, Belarus, Egypt, United Arab Emirates, Georgia, India, Indonesia, Iran (Islamic Republic of), Iraq, Jordan, Libyan Arab Jamahiriya, Kazakhstan, Kuwait, Lebanon, Morocco, Mauritania, Moldova, Nigeria, Oman, Uzbekistan, Pakistan, Philippines, Qatar, Syrian Arab Republic, Kyrgyzstan, Singapore, Tajikistan, Tunisia, Turkmenistan and Viet Nam, this restriction on the fixed and mobile, except aeronautical mobile, service is not applicable. (WRC-07)
5.482A	For sharing of the band 10.6-10.68 GHz between the Earth exploration-satellite (passive) service and the fixed and mobile, except aeronautical mobile, services, Resolution 751 (WRC-07) applies. (WRC-07)
5.483	*Additional allocation:* in Saudi Arabia, Armenia, Azerbaijan, Bahrain, Belarus, China Colombia, Korea (Rep. of), Egypt, the United Arab Emirates, Georgia, Iran (Islamic Republic of) Iraq, Israel, Jordan, Kazakhstan, Kuwait, Lebanon, Mongolia, Qatar, Kyrgyzstan, the Dem People's Rep. of Korea, Tajikistan, Turkmenistan and Yemen, the frequency band 10.68-10.7 GHz is also allocated to the fixed and mobile, except aeronautical mobile, services on a primary basis. Such use is limited to equipment in operation by 1 January 1985. (WRC-19)
5.484	In Region 1, the use of the band 10.7-11.7 GHz by the fixed-satellite service (Earth-to-space) is limited to feeder links for the broadcasting-satellite service.
5.484A	The use of the frequency bands 10.95-11.2 GHz (space-to-Earth), 11.45-11.7 GHz (space-to-Earth), 11.7- 12.2 GHz (space-to-Earth) in Region 2, 12.2-12.75 GHz (space-to-Earth) in Region 3, 12.5-12.75 GHz (space-to-Earth) in Region 1, 13.75-14.5 GHz (Earth-to-space), 17.3-17.7 GHz (space-to-Earth) in Region 2, 17.8-18.6 GHz (space-to- Earth), 19.7-20.2 GHz (space-to-Earth), 27.5-28.6 GHz (Earth-to-space), 29.5-30 GHz (Earth-to-space) by a nongeostationary- satellite system in the fixed-satellite service is subject to application of the provisions of No. **9.12** for coordination with other non-geostationary-satellite systems in the fixed-satellite service. Non-geostationary-satellites systems in the fixed-satellite service shall not claim protection from geostationary-satellite networks in the fixed-satellite service operating in accordance with the Radio Regulations, irrespective of the dates of receipt by the Bureau of the complete coordination or notification information, as appropriate, for the non-geostationary-satellite systems in the fixed satellite service and of the complete coordination or notification information, as appropriate, for the geostationary-satellite networks, and No. **5.43A** does not apply. Non-geostationary-satellite systems in the fixed-satellite service in the above bands shall be operated in such a way that any unacceptable interference that may occur during their operation shall be rapidly eliminated. In Region 2, No. **22.2** shall continue to apply in the frequency band 17.3-17.7 GHz. (WRC-23)~~The use of the bands 10.95-11.2 GHz (space-to-Earth), 11.45-11.7 GHz (space-to-Earth), 11.7-12.2 GHz (space-to-Earth) in Region 2, 12.2-12.75 GHz (space-to-Earth) in Region 3, 12.5-12.75 GHz (space-to-Earth) in Region 1, 13.75-14.5 GHz (Earth-to-space), 17.8-18.6 GHz (space-to-Earth), 19.7-20.2 GHz (space-to-Earth), 27.5-28.6 GHz (Earth-to-space), 29.5- 30 GHz (Earth-to-space) by a non-geostationary-satellite system in the fixed-satellite service is subject to application of the provisions of No. 9.12 for coordination with other non-geostationary-satellite systems in the fixed-satellite service. Non-geostationary-satellite systems in the fixed-satellite service shall not claim protection from geostationary-satellite networks in the fixed-satellite service operating in accordance with the Radio Regulations, irrespective of the dates of receipt by the Bureau of the complete coordination or notification information, as appropriate, for the non-geostationary-satellite systems in the fixed-satellite service and of the complete coordination or notification information, as appropriate, for the geostationary-satellite~~

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	~~networks, and No. 5.43A does not apply. Non-geostationary- satellite systems in the fixed-satellite service in the above bands shall be operated in such a way that any unacceptable interference that may occur during their operation shall be rapidly eliminated. (WRC-2000)~~
5.484B	Resolution **155 (WRC-15)** shall apply. (WRC-15)
5.485	In Region 2, in the band 11.7-12.2 GHz, transponders on space stations in the fixed-satellite service may be used additionally for transmissions in the broadcasting-satellite service, provided that such transmissions do not have a maximum e.i.r.p. greater than 53 dBW per television channel and do not cause greater interference or require more protection from interference than the coordinated fixed-satellite service frequency assignments. With respect to the space services, this band shall be used principally for the fixed-satellite service.
5.486	*Different category of service:* in the United States, the allocation of the frequency band 11.7-12.1 GHz to the fixed service is on a secondary basis (see No. 5.32). (WRC-15)
5.487	In the band 11.7-12.5 GHz in Regions 1 and 3, the fixed, fixed-satellite, mobile, except aeronautical mobile, and broadcasting services, in accordance with their respective allocations, shall not cause harmful interference to, or claim protection from, broadcasting-satellite stations operating in accordance with the Regions 1 and 3 Plan in Appendix **30**. (WRC-03)
5.487A	*Additional allocation:* in Region 1, the band 11.7-12.5 GHz, in Region 2, the band 12.2-12.7 GHz and, in Region 3, the band 11.7-12.2 GHz, are also allocated to the fixed-satellite service (space-to-Earth) on a primary basis, limited to non-geostationary systems and subject to application of the provisions of No. **9.12** for coordination with other non- geostationary-satellite systems in the fixed-satellite service. Non-geostationary-satellite systems in the fixed-satellite service shall not claim protection from geostationary-satellite networks in the broadcasting-satellite service operating in accordance with the Radio Regulations, irrespective of the dates of receipt by the Bureau of the complete coordination or notification information, as appropriate, for the non-geostationary-satellite systems in the fixed- satellite service and of the complete coordination or notification information, as appropriate, for the geostationary- satellite networks, and No. **5.43A** does not apply. Non-geostationary-satellite systems in the fixed-satellite service in the above bands shall be operated in such a way that any unacceptable interference that may occur during their operation shall be rapidly eliminated. (WRC-03)
5.488	The use of the band 11.7-12.2 GHz by geostationary-satellite networks in the fixed-satellite service in Region 2 is subject to application of the provisions of No. **9.14** for coordination with stations of terrestrial services in Regions 1, 2 and 3. For the use of the band 12.2-12.7 GHz by the broadcasting-satellite service in Region 2, see Appendix **30**. (WRC-03)
5.489	*Additional allocation:* in Peru, the band 12.1-12.2 GHz is also allocated to the fixed service on a primary basis.

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5.490	In Region 2, in the band 12.2-12.7 GHz, existing and future terrestrial radiocommunication services shall not cause harmful interference to the space services operating in conformity with the broadcasting-satellite Plan for Region 2 contained in Appendix **30**.
5.492	Assignments to stations of the broadcasting-satellite service which are in conformity with the appropriate regional Plan or included in the Regions 1 and 3 List in Appendix **30** may also be used for transmissions in the fixed-satellite service (space-to-Earth), provided that such transmissions do not cause more interference, or require more protection from interference, than the broadcasting-satellite service transmissions operating in conformity with the Plan or the List, as appropriate. (WRC-2000)
5.493	The broadcasting-satellite service in the band 12.5-12.75 GHz in Region 3 is limited to a power flux-density not exceeding –111 dB(W/(m2 · 27 MHz)) for all conditions and for all methods of modulation at the edge of the service area. (WRC-97)
5.494	~~*Additional allocation:*~~ *Additional allocation:* in Algeria, Saudi Arabia, Bahrain, Cameroon, the Central African Rep., Congo (Rep. of the), Côte d'Ivoire, Djibouti, Egypt, the United Arab Emirates, Eritrea, Ethiopia, Gabon, Ghana, Guinea, Iraq, Israel, Jordan, Kuwait, Lebanon, Libya, Madagascar, Mali, Morocco, Mongolia, Nigeria, Oman, Palestine*, Qatar, the Syrian Arab Republic, the Dem. Rep. of the Congo, Somalia, Sudan, South Sudan, Chad, Togo and Yemen, the frequency band 12.5-12.75 GHz is also allocated to the fixed and mobile, except aeronautical mobile, services on a primary basis. (WRC-23)~~in Algeria, Saudi Arabia, Bahrain, Cameroon, the Central African Rep., Congo (Rep. of the), Côte d'Ivoire, Djibouti, Egypt, the United Arab Emirates, Eritrea, Ethiopia, Gabon, Ghana, Guinea, Iraq, Israel, Jordan, Kuwait, Lebanon, Libya, Madagascar, Mali, Morocco, Mongolia, Nigeria, Oman, Qatar, the Syrian Arab Republic, the Dem. Rep. of the Congo, Somalia, Sudan, South Sudan, Chad, Togo and Yemen, the frequency band 12.5-12.75 GHz is also allocated to the fixed and mobile, except aeronautical mobile, services on a primary basis. (WRC-15)~~
5.495	*Additional allocation:* in Greece, Monaco, Montenegro, Uganda and Tunisia, the frequency band 12.5-12.75 GHz is also allocated to the fixed and mobile, except aeronautical mobile, services on a secondary basis. (WRC-19)
5.496	*Additional allocation:* in Austria, Azerbaijan, Kyrgyzstan and Turkmenistan, the band 12.5-12.75 GHz is also allocated to the fixed service and the mobile, except aeronautical mobile, service on a primary basis. However, stations in these services shall not cause harmful interference to fixed-satellite service earth stations of countries in Region 1 other than those listed in this footnote. Coordination of these earth stations is not required with stations of the fixed and mobile services of the countries listed in this footnote. The power flux-density limit at the Earth's surface given in Table **21-4** of Article **21**, for the fixed-satellite service shall apply on the territory of the countries listed in this footnote. (WRC-2000)
5.496A	The frequency band 12.75-13.25 GHz (Earth-to-space) may be used by earth stations in motion, limited to earth stations on aircraft and vessels, communicating with geostationary space stations in the fixed-satellite service. Resolution **121 (WRC-23)** shall apply. (WRC-23)
5.497	The use of the band 13.25-13.4 GHz by the aeronautical radionavigation service is limited to Doppler navigation aids.
5.498	SUP (WRC-97)
5.498A	The Earth exploration-satellite (active) and space research (active) services operating in the band 13.25-13.4 GHz shall not cause harmful interference to, or constrain the use and development of, the aeronautical radionavigation service. (WRC-97)
5.499	*Additional allocation:* in Bangladesh, and India , the band 13.25-14 GHz is also

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	allocated to the fixed service on a primary basis. In Pakistan, the band 13.25-13.75 GHz is allocated to the fixed service on a primary basis. (WRC 12)
5.499A	The use of the frequency band 13.4-13.65 GHz by the fixed-satellite service (space-to-Earth) is limited to geostationary- satellite systems and is subject to agreement obtained under No. **9.21** with respect to satellite systems operating in the space research service (space-to-space) to relay data from space stations in the geostationary-satellite orbit to associated space stations in non-geostationary satellite orbits for which advance publication information has been received by the Bureau by 27 November 2015. (WRC-15)
5.499B	Administrations shall not preclude the deployment and operation of transmitting earth stations in the standard frequency and time signal-satellite service (Earth-to-space) allocated on a secondary basis in the frequency band 13.4-13.65 GHz due to the primary allocation to FSS (space-to-Earth). (WRC-15)
5.499C	The allocation of the frequency band 13.4-13.65 GHz to the space research service on a primary basis is limited to: – satellite systems operating in the space research service (space-to-space) to relay data from space stations in the geostationary-satellite orbit to associated space stations in non-geostationary satellite orbits for which advance publication information has been received by the Bureau by 27 November 2015, – active spaceborne sensors, – satellite systems operating in the space research service (space-to-Earth) to relay data from space stations in the geostationary-satellite orbit to associated earth stations. Other uses of the frequency band by the space research service are on a secondary basis. (WRC-15)
5.499D	In the frequency band 13.4-13.65 GHz, satellite systems in the space research service (space-to-Earth) and/or the space research service (space-to-space) shall not cause harmful interference to, nor claim protection from, stations in the fixed, mobile, radiolocation and Earth exploration-satellite (active) services. (WRC-15)
5.499E	In the frequency band 13.4-13.65 GHz, geostationary-satellite networks in the fixed-satellite service (spaceto- Earth) shall not claim protection from space stations in the Earth exploration-satellite service (active) operating in accordance with these Regulations, and No. **5.43A** does not apply. The provisions of No. **22.2** do not apply to the Earth exploration- satellite service (active) with respect to the fixed-satellite service (space-to-Earth) in this frequency band. (WRC-15)
5.500	~~*Additional allocation:*~~ *Additional allocation:* in Algeria, Saudi Arabia, Bahrain, Brunei Darussalam, Cameroon, Djibouti, Egypt, the United Arab Emirates, Gabon, Indonesia, Iran (Islamic Republic of), Iraq, Israel, Jordan, Kuwait, Lebanon, Madagascar, Malaysia, Mali, Morocco, Mauritania, Niger, Nigeria, Oman, Qatar, the Syrian Arab Republic, Singapore, Somalia, Sudan, South Sudan, Chad and Tunisia, the frequency band 13.4-14 GHz is also allocated to the fixed and mobile services on a primary basis. In Pakistan, the frequency band 13.4-13.75 GHz is also allocated to the fixed and mobile services on a primary basis. (WRC-23)~~in Algeria, Saudi Arabia, Bahrain, Brunei Darussalam, Cameroon, Egypt, the United Arab Emirates, Gabon, Indonesia, Iran (Islamic Republic of), Iraq, Israel, Jordan, Kuwait, Lebanon, Madagascar, Malaysia, Mali, Morocco, Mauritania, Niger, Nigeria, Oman, Qatar, the Syrian Arab Republic, Singapore, Sudan, South Sudan, Chad and Tunisia, the frequency band 13.4-14 GHz is also allocated to the fixed and mobile services on a primary basis. In Pakistan, the frequency band 13.4-13.75 GHz is also allocated to the fixed and mobile services on a primary basis. (WRC-15)~~
5.501	~~*Additional allocation:*~~ *Additional allocation:* in Hungary, Japan, Kyrgyzstan, Romania and Turkmenistan, the frequency band 13.4-14 GHz is also allocated to the radionavigation service on a primary basis. (WRC-23)~~in Azerbaijan, Hungary, Japan,~~

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	~~Mongolia, Kyrgyzstan, Romania and Turkmenistan, the band 13.4–14 GHz is also allocated to the radionavigation service on a primary basis. (WRC-12)~~
5.501A	The allocation of the frequency band 13.65-13.75 GHz to the space research service on a primary basis is limited to active spaceborne sensors. Other uses of the frequency band by the space research service are on a secondary basis. (WRC-15)
5.501B	In the band 13.4-13.75 GHz, the Earth exploration-satellite (active) and space research (active) services shall not cause harmful interference to, or constrain the use and development of, the radiolocation service. (WRC-97)
5.502	In the band 13.75-14 GHz, an earth station of a geostationary fixed-satellite service network shall have a minimum antenna diameter of 1.2 m and an earth station of a non-geostationary fixed-satellite service system shall have a minimum antenna diameter of 4.5 m. In addition, the e.i.r.p., averaged over one second, radiated by a station in the radiolocation or radionavigation services shall not exceed 59 dBW for elevation angles above 2° and 65 dBW at lower angles. Before an administration brings into use an earth station in a geostationary-satellite network in the fixed-satellite service in this band with an antenna diameter smaller than 4.5 m, it shall ensure that the power flux-density produced by this earth station does not exceed: – –115 dB(W/(m^2 · 10 MHz)) for more than 1% of the time produced at 36 m above sea level at the low water mark, as officially recognized by the coastal State; – –115 dB(W/(m^2 · 10 MHz)) for more than 1% of the time produced 3 m above ground at the border of the territory of an administration deploying or planning to deploy land mobile radars in this band, unless prior agreement has been obtained. For earth stations within the fixed-satellite service having an antenna diameter greater than or equal to 4.5 m, the e.i.r.p. of any emission should be at least 68 dBW and should not exceed 85 dBW. (WRC-03)
5.503	In the band 13.75-14 GHz, geostationary space stations in the space research service for which information for advance publication has been received by the Bureau prior to 31 January 1992 shall operate on an equal basis with stations in the fixed-satellite service; after that date, new geostationary space stations in the space research service will operate on a secondary basis. Until those geostationary space stations in the space research service for which information for advance publication has been received by the Bureau prior to 31 January 1992 cease to operate in this band: – in the band 13.77-13.78 GHz, the e.i.r.p. density of emissions from any earth station in the fixed-satellite service operating with a space station in geostationary-satellite orbit shall not exceed: i) 4.7D + 28 dB(W/40 kHz), where D is the fixed-satellite service earth station antenna diameter (m) for antenna diameters equal to or greater than 1.2 m and less than 4.5 m; ii) 49.2 + 20 log(D/4.5) dB(W/40 kHz), where D is the fixed-satellite service earth station antenna diameter (m) for antenna diameters equal to or greater than 4.5 m and less than 31.9 m; iii) 66.2 dB(W/40 kHz) for any fixed-satellite service earth station for antenna diameters (m) equal to or greater

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	than 31.9 m; iv) 56.2 dB(W/4 kHz) for narrow-band (less than 40 kHz of necessary bandwidth) fixed-satellite service earth station emissions from any fixed-satellite service earth station having an antenna diameter of 4.5 m or greater; – the e.i.r.p. density of emissions from any earth station in the fixed-satellite service operating with a space station in non-geostationary-satellite orbit shall not exceed 51 dBW in the 6 MHz band from 13.772 to 13.778 GHz. Automatic power control may be used to increase the e.i.r.p. density in these frequency ranges to compensate for rain attenuation, to the extent that the power flux-density at the fixed-satellite service space station does not exceed the value resulting from use by an earth station of an e.i.r.p. meeting the above limits in clear-sky conditions. (WRC-03)
5.504	The use of the band 14-14.3 GHz by the radionavigation service shall be such as to provide sufficient protection to space stations of the fixed-satellite service.
5.504A	In the band 14-14.5 GHz, aircraft earth stations in the secondary aeronautical mobile-satellite service may also communicate with space stations in the fixed-satellite service. The provisions of Nos. **5.29**, **5.30** and **5.31** apply. (WRC- 03)
5.504B	Aircraft earth stations operating in the aeronautical mobile-satellite service in the frequency band 14-14.5 GHz shall comply with the provisions of Annex 1, Part C of Recommendation ITU-R M.1643-0, with respect to any radio astronomy station performing observations in the 14.47-14.5 GHz frequency band located on the territory of Spain, France, India, Italy, the United Kingdom and South Africa. (WRC-15)
5.504C	In the frequency band 14-14.25 GHz, the power flux-density produced on the territory of the countries of Saudi Arabia, Bahrain, Botswana, Côte d'Ivoire, Egypt, Guinea, India, Iran (Islamic Republic of), Kuwait, Nigeria, Oman, the Syrian Arab Republic and Tunisia by any aircraft earth station in the aeronautical mobile-satellite service shall not exceed the limits given in Annex 1, Part B of Recommendation ITU-R M.1643-0, unless otherwise specifically agreed by the affected administration(s). The provisions of this footnote in no way derogate the obligations of the aeronautical mobile-satellite service to operate as a secondary service in accordance with No. **5.29**. (WRC-15)
5.505	*Additional allocation:* in Algeria, Saudi Arabia, Bahrain, Botswana, Brunei, Darussalam, Cameroon, China, Congo (Rep. of the), Korea (Rep. of), Djibouti, Egypt, the United Arab Emirates, Eswatini, Gabon, Guinea, India, Indonesia, Iran (Islamic Republic of), Iraq, Israel, Japan, Jordan, Kuwait, Lebanon, Malaysia, Mali, Morocco, Mauritania, Oman, the Philippines, Qatar, the Syrian Arab Republic, the Dem. People's Rep. of Korea, Singapore, Somalia, Sudan, South Sudan, Chad, Viet Nam and Yemen, the frequency band 14-14.3 GHz is also allocated to the fixed service on a primary basis. (WRC-19)
5.506	The band 14-14.5 GHz may be used, within the fixed-satellite service (Earth-to-space), for feeder links for the broadcasting-satellite service, subject to coordination with other networks in the fixed-satellite service. Such use of feeder links is reserved for countries outside Europe.
5.506A	In the frequency band 14-14.5 GHz, ship earth stations with an equivalent isotropically radiated power (e.i.r.p.) greater than 21 dBW shall operate under the same conditions as earth stations located on board vessels, as provided in Resolution **902 (Rev.WRC-23)**. This footnote shall not apply to ship earth stations for which the complete Appendix **4** information has been received by the Bureau prior to 5 July 2003. (WRC-23)~~In the band 14-14.5 GHz, ship earth stations with an e.i.r.p. greater than 21 dBW shall operate under the same conditions as earth stations located on board vessels, as~~

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	~~provided in Resolution **902 (WRC-03)**. This footnote shall not apply to ship earth stations for which the complete Appendix **4** information has been received by the Bureau prior to 5 July 2003. (WRC-03)~~
5.506B	Earth stations located on board vessels communicating with space stations in the fixed-satellite service may operate in the frequency band 14-14.5 GHz without the need for prior agreement from Cyprus and Malta, within the minimum distance given in Resolution **902 (Rev.WRC-23)** from these countries. (WRC-23)~~Earth stations located on board vessels communicating with space stations in the fixed-satellite service may operate in the frequency band 14-14.5 GHz without the need for prior agreement from Cyprus and Malta, within the minimum distance given in Resolution 902 (WRC-03) from these countries. (WRC-15)~~
5.508	~~*Additional allocation:*~~*Additional allocation: in Germany, Italy, Libya, North Macedonia and the United Kingdom, the frequencyband 14.25-14.3 GHz is also allocated to the fixed service on a primary basis. (WRC-23)*~~in Germany, France, Italy, Libya, North Macedonia and the United Kingdom, the frequency band 14.25-14.3 GHz is also allocated to the fixed service on a primary basis. (WRC-19)~~
5.508A	~~In~~ In the frequency band 14.25-14.3 GHz, the power flux-density produced on the territory of the countries of Saudi Arabia, Bahrain, Botswana, China, Côte d'Ivoire, Egypt, Guinea, India, Iran (Islamic Republic of), Italy, Kuwait, Nigeria, Oman, the Syrian Arab Republic, the United Kingdom and Tunisia by any aircraft earth station in the aeronautical mobile-satellite service shall not exceed the limits given in Annex 1, Part B of Recommendation ITU-R M.1643-0, unless otherwise specifically agreed by the affected administration(s). The provisions of this footnote in no way derogate the obligations of the aeronautical mobile-satellite service to operate as a secondary service in accordance with No. **5.29**. (WRC-23)~~the frequency band 14.25-14.3 GHz, the power flux-density produced on the territory of the countries of Saudi Arabia, Bahrain, Botswana, China, Côte d'Ivoire, Egypt, France, Guinea, India, Iran (Islamic Republic of), Italy, Kuwait, Nigeria, Oman, the Syrian Arab Republic, the United Kingdom and Tunisia by any aircraft earth station in the aeronautical mobile-satellite service shall not exceed the limits given in Annex 1, Part B of Recommendation ITU-R M.1643-0, unless otherwise specifically agreed by the affected administration(s). The provisions of this footnote in no way derogate the obligations of the aeronautical mobile-satellite service to operate as a secondary service in accordance with No. **5.29**.(WRC-15)~~
5.509	SUP (WRC-07)
5.509A	In the frequency band 14.3-14.5 GHz, the power flux-density produced on the territory of the countries of Saudi Arabia, Bahrain, Botswana, Cameroon, China, Côte d'Ivoire, Egypt, Gabon, Guinea, India, Iran (Islamic Republic of), Italy, Kuwait, Morocco, Nigeria, Oman, the Syrian Arab Republic, the United Kingdom, Sri Lanka, Tunisia and Viet Nam by any aircraft earth station in the aeronautical mobile-satellite service shall not exceed the limits given in Annex 1, Part B of Recommendation ITU-R M.1643-0, unless otherwise specifically agreed by the affected administration(s). The provisions of this footnote in no way derogate the obligations of the aeronautical mobile-satellite service to operate as a secondary service in accordance with No. **5.29**. (WRC-23)~~In the frequency band 14.3-14.5 GHz, the power flux-density produced on the territory of the countries of Saudi Arabia, Bahrain, Botswana, Cameroon, China, Côte d'Ivoire, Egypt, France, Gabon, Guinea, India, Iran (Islamic Republic of), Italy, Kuwait, Morocco, Nigeria, Oman, the Syrian Arab Republic, the United Kingdom, Sri Lanka, Tunisia and Viet Nam by any aircraft earth station in the aeronautical mobile-satellite service shall not exceed the limits given in Annex 1, Part B of Recommendation ITU-R M.1643-0, unless otherwise specifically agreed by the affected administration(s). The provisions of this footnote in no way derogate the~~

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	~~obligations of the aeronautical mobile-satellite service to operate as a secondary service in accordance with No. **5.29**. (WRC-15)~~
5.509B	The use of the frequency bands 14.5-14.75 GHz in countries listed in Resolution **163 (WRC-15)** and 14.5-14.8 GHz in countries listed in Resolution **164 (WRC-15)** by the fixed-satellite service (Earth-to-space) not for feeder links for the broadcasting-satellite service is limited to geostationary-satellites. (WRC-15)
5.509C	For the use of the frequency bands 14.5-14.75 GHz in countries listed in Resolution 163 (WRC-15) and 14.5-14.8 GHz in countries listed in Resolution 164 (WRC-15) by the fixed-satellite service (Earth-to-space) not for feeder links for the broadcasting-satellite service, the fixed-satellite service earth stations shall have a minimum antenna diameter of 6 m and a maximum power spectral density of -44.5 dBW/Hz at the input of the antenna. The earth stations shall be notified at known locations on land. (WRC-15)
5.509D	Before an administration brings into use an earth station in the fixed-satellite service (Earth-to-space) not for feeder links for the broadcasting-satellite service in the frequency bands 14.5-14.75 GHz (in countries listed in Resolution 163 (WRC-15)) and 14.5-14.8 GHz (in countries listed in Resolution 164 (WRC-15)), it shall ensure that the power flux-density produced by this earth station does not exceed -151.5 dB(W/(m2 · 4 kHz)) produced at all altitudes from 0 m to 19 000 m above sea level at 22 km seaward from all coasts, defined as the low-water mark, as officially recognized by each coastal State. (WRC-15)
5.509E	In the frequency bands 14.50-14.75 GHz in countries listed in Resolution **163 (WRC-15)** and 14.50-14.8 GHz in countries listed in Resolution **164 (WRC-15)**, the location of earth stations in the fixed-satellite service (Earth-to-space) not for feeder links for the broadcasting-satellite service shall maintain a separation distance of at least 500 km from the border(s) of other countries unless shorter distances are explicitly agreed by those administrations. No. **9.17** does not apply. When applying this provision, administrations should consider the relevant parts of these Regulations and the latest relevant ITU-R Recommendations. (WRC-15)
5.509F	In the frequency bands 14.50-14.75 GHz in countries listed in Resolution 163 (WRC-15) and 14.50-14.8 GHz in countries listed in Resolution 164 (WRC-15), earth stations in the fixed-satellite service (Earth-to-space) not for feeder links for the broadcasting-satellite service shall not constrain the future deployment of the fixed and mobile services. (WRC-15)
5.509G	The frequency band 14.5-14.8 GHz is also allocated to the space research service on a primary basis. However, such use is limited to the satellite systems operating in the space research service (Earth-to-space) to relay data to space stations in the geostationary-satellite orbit from associated earth stations. Stations in the space research service shall not cause harmful interference to, or claim protection from, stations in the fixed and mobile services and in the fixed satellite service limited to feeder links for the broadcasting-satellite service and associated space operations functions using the guardbands under Appendix 30A and feeder links for the broadcasting-satellite service in Region 2. Other uses of this frequency band by the space research service are on a secondary basis. (WRC-15)
5.510	Except for use in accordance with Resolution **163 (WRC-15)** and Resolution **164 (WRC-15)**, the use of the frequency band 14.5-14.8 GHz by the fixed-satellite service (Earth-to-space) is limited to feeder links for the broadcasting-satellite service. This use is reserved for countries outside Europe. Uses other than feeder links for the broadcasting-satellite service are not authorized in Regions 1 and 2 in the frequency band 14.75-14.8 GHz. (WRC-15)

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5.510A	The allocation of the frequency band 14.8-15.35 GHz to the space research service on a primary basis is limited to satellite systems operating in the space-to-space, space-to-Earth and Earth-to-space directions at distances from the Earth of less than 2 × 106 km in accordance with Resolution **678 (WRC-23)**. Other uses of the frequency band by the space research service are on a secondary basis. The use of the frequency band 14.8-15.35 GHz by the space research service (space-to-Earth) (Earth-to-space) is on a secondary basis with respect to the terrestrial services in Algeria, Saudi Arabia, Bahrain, Korea (Rep. of), Egypt, the United Arab Emirates, the United States, India, Iraq, Japan, Kuwait, Libya, Morocco, Mauritania, Oman, Qatar, the Syrian Arab Republic, Tunisia and Yemen. (WRC-23)
5.511	*Additional allocation:* in Saudi Arabia, Bahrain, Cameroon, Djibouti, Egypt, the United Arab Emirates, Guinea, Iran (Islamic Republic of), Iraq, Israel, Kuwait, Lebanon, Oman, Pakistan, Qatar, the Syrian Arab Republic and Somalia, the frequency band 15.35-15.4 GHz is also allocated to the fixed and mobile services on a secondary basis. (WRC-23)~~in Saudi Arabia, Bahrain, Cameroon, Egypt, the United Arab Emirates, Guinea, Iran (Islamic Republic of), Iraq, Israel, , Kuwait, Lebanon, Pakistan, Qatar, the Syrian Arab R- epublic and Somalia, the band 15.35-15.4 GHz is also allocated to the fixed and mobile services on a secondary basis. (WRC-12)~~
5.511A	Use of the frequency band 15.43-15.63 GHz by the fixed-satellite service (Earth-to-space) is limited to feeder links of non-geostationary systems in the mobile-satellite service, subject to coordination under No. **9.11A**. (WRC-15)
5.511C	Stations operating in the aeronautical radionavigation service shall limit the effective e.i.r.p. in accordance with Recommendation ITU-R S.1340-0. The minimum coordination distance required to protect the aeronautical radionavigation stations (No. 4.10 applies) from harmful interference from feeder-link earth stations and the maximum e.i.r.p. transmitted towards the local horizontal plane by a feeder-link earth station shall be in accordance with Recommendation ITU-R S.1340-0. (WRC-15)
5.511D	SUP (WRC-12)
5.511E	In the frequency band 15.4-15.7 GHz, stations operating in the radiolocation service shall not cause harmful interference to, or claim protection from, stations operating in the aeronautical radionavigation service. (WRC-12)
5.511F	In order to protect the radio astronomy service in the frequency band 15.35-15.4 GHz, radiolocation stations operating in the frequency band 15.4-15.7 GHz shall not exceed the power flux-density level of −156 dB(W/m2) in a 50 MHz bandwidth in the frequency band 15.35-15.4 GHz, at any radio astronomy observatory site for more than 2 per cent of the time. (WRC-12)
5.511G	Stations in the aeronautical mobile (OR) service operating in the frequency band 15.41-15.7 GHz shall not cause harmful interference to the radio astronomy service operating in the frequency band 15.35-15.4 GHz. The aggregat epower flux-density (pfd) received from stations in the aeronautical mobile (OR) service operating in the frequency band 15.41-15.7 GHz at any radio astronomy station operating in the frequency band 15.35-15.4 GHz shall be in compliance with the protection criteria provided in Recommendations ITU-R RA.769-2 and ITU-R RA.1513-2, unless specifically agreed by the affected administration(s). (WRC-23)
5.511H	*Additional allocation*: in Indonesia, the frequency band 15.41-15.7 GHz is also allocated to the aeronautical mobile (OR) service on a secondary basis. Stations in the aeronautical mobile (OR) service operating in the frequency band 15.41-15.7 GHz shall not cause harmful interference to the radio astronomy service operating in the frequency band 15.35-15.4 GHz. The aggregate power flux-density (pfd) received from stations in the aeronautical mobile (OR) service operating in the frequency band 15.41-15.7 GHz at any radio astronomy station operating in the frequency band 15.35-15.4 GHz shall be in compliance with the protection criteria provided in

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	Recommendations ITU-R RA.769-2 and ITU-R RA.1513-2, unless specifically agreed by the affected administration(s). (WRC-23)
5.512	*Additional allocation:* in Algeria, Saudi Arabia, Austria, Bahrain, Bangladesh, Brunei Darussalam, Cameroon, Congo (Rep. of the), Egypt, El Salvador, the United Arab Emirates, Eritrea, Finland, Guatemala, India, Indonesia, Iran (Islamic Republic of), Jordan, Kenya, Kuwait, Lebanon, Libya, Malaysia, Mali, Morocco, Mauritania, Montenegro, Nepal, Nicaragua, Niger, Oman, Pakistan, Qatar, Syrian Arab Republic, the Dem. Rep. of the Congo, Singapore, Somalia, Sudan, South Sudan, Chad, Togo and Yemen, the frequency band 15.7-17.3 GHz is also allocated to the fixed and mobile services on a primary basis. (WRC-15)
5.513	*Additional allocation:* in Israel, the band 15.7-17.3 GHz is also allocated to the fixed and mobile services on a primary basis. These services shall not claim protection from or cause harmful interference to services operating in accordance with the Table in countries other than those included in No. **5.512**.
5.513A	Spaceborne active sensors operating in the band 17.2-17.3 GHz shall not cause harmful interference to, or constrain the development of, the radiolocation and other services allocated on a primary basis. (WRC-97)
5.514	~~*Additional allocation:*~~ *Additional allocation:* in Algeria, Saudi Arabia, Bahrain, Bangladesh, Cameroon, Djibouti, El Salvador, the United Arab Emirates, Guatemala, India, Iran (Islamic Republic of), Iraq, Israel, Italy, Japan, Jordan, Kuwait, Libya, Lithuania, Nepal, Nicaragua, Nigeria, Oman, Uzbekistan, Pakistan, Qatar, Kyrgyzstan, Somalia, Sudan and South Sudan, the frequency band 17.3-17.7 GHz is also allocated to the fixed and mobile services on a secondary basis. The power limits given in Nos. **21.3** and **21.5** shall apply. (WRC-23)~~in Algeria, Saudi Arabia, Bahrain, Bangladesh, Cameroon, El Salvador, the United Arab Emirates, Guatemala, India, Iran (Islamic Republic of), Iraq, Israel, Italy, Japan, Jordan, Kuwait, Libya, Lithuania, Nepal, Nicaragua, Nigeria, Oman, Uzbekistan, Pakistan, Qatar, Kyrgyzstan, Sudan and South Sudan, the frequency band 17.3-17.7 GHz is also allocated to the fixed and mobile services on a secondary basis. The power limits given in Nos. **21.3** and **21.5** shall apply. (WRC-15)~~
5.515	In the band 17.3-17.8 GHz, sharing between the fixed-satellite service (Earth-to-space) and the broadcasting-satellite service shall also be in accordance with the provisions of § 1 of Annex 4 of Appendix **30A**.
5.515A	In addition to the need to comply with the coordination criteria in Annex 4 to Appendix **30A**, under assumed free-space propagation conditions, the power flux-density of an assignment in the fixed-satellite service (space to-Earth) of a geostationary-satellite network in the frequency band 17.3-17.7 GHz in Region 2 shall not exceed the value of −98 dB(W/(m2 · 27 MHz)) at points in the geostationary-satellite orbit with geocentric orbital separation angles between 152.6° and 162.6°. (WRC-23)
5.515B	In the frequency band 17.3-17.7 GHz, the use of the fixed-satellite service (space-to-Earth) by geostationary-satellite space stations in Region 2 shall not cause harmful interference to space station receivers nor claim protection from the broadcasting-satellite service feeder-link earth stations operating under Appendix **30A** in all three Regions, nor put any limitations or restrictions on the locations of the broadcasting-satellite service feeder-link earth stations anywhere within the service area of the feeder link. The notifying administration for the fixed-satellite service (space-to-Earth), when submitting Appendix **4** information elements, shall provide a firm, objective, actionable, measurable and enforceable commitment that, in the event of harmful interference being reported to space station receivers in Appendix **30A**, it shall take immediate action to eliminate the interference or reduce it to an acceptable level. (WRC-23)

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5.516	The use of the band 17.3-18.1 GHz by geostationary-satellite systems in the fixed-satellite service (Earth-to-space) is limited to feeder links for the broadcasting-satellite service. The use of the band 17.3-17.8 GHz in Region 2 by systems in the fixed-satellite service (Earth-to-space) is limited to geostationary satellites. For the use of the band 17.3-17.8 GHz in Region 2 by feeder links for the broadcasting-satellite service in the band 12.2-12.7 GHz, see Article **11**. The use of the bands 17.3-18.1 GHz (Earth-to-space) in Regions 1 and 3 and 17.8-18.1 GHz (Earth-to-space) in Region 2 by non-geostationary-satellite systems in the fixed-satellite service is subject to application of the provisions of No. **9.12** for coordination with other non-geostationary-satellite systems in the fixed-satellite service. Non-geostationary-satellite systems in the fixed-satellite service shall not claim protection from geostationary-satellite networks in the fixed-satellite service operating in accordance with the Radio Regulations, irrespective of the dates of receipt by the Bureau of the complete coordination or notification information, as appropriate, for the non-geostationary-satellite systems in the fixed-satellite service and of the complete coordination or notification information, as appropriate, for the geostationary-satellite networks, and No. **5.43A** does not apply. Non-geostationary-satellite systems in the fixed- satellite service in the above bands shall be operated in such a way that any unacceptable interference that may occur during their operation shall be rapidly eliminated. (WRC-2000)
5.516A	In the band 17.3-17.7 GHz, earth stations of the fixed-satellite service (space-to-Earth) in Region 1 shall not claim protection from the broadcasting-satellite service feeder-link earth stations operating under Appendix **30A**, nor put any limitations or restrictions on the locations of the broadcasting-satellite service feeder-link earth stations anywhere within the service area of the feeder link. (WRC-03)
5.516B	The following bands are identified for use by high-density applications in the fixed-satellite service: 17.3-17.7 GHz (space-to-Earth) in Region 1, 18.3-19.3 GHz (space-to-Earth) in Region 2, 19.7-20.2 GHz (space-to-Earth) in all Regions, 39.5-40 GHz (space-to-Earth) in Region 1, 40-40.5 GHz (space-to-Earth) in all Regions, 40.5-42 GHz (space-to-Earth) in Region 2, 47.5-47.9 GHz (space-to-Earth) in Region 1, 48.2-48.54 GHz (space-to-Earth) in Region 1 49.44-50.2 GHz (space-to-Earth) in Region 1, and 27.5-27.82 GHz (Earth-to-space) in Region 1, 28.35-28.45 GHz (Earth-to-space) in Region 2, 28.45-28.94 GHz (Earth-to-space) in all Regions, 28.94-29.1 GHz (Earth-to-space) in Region 2 and 3, 29.25-29.46 GHz (Earth-to-space) in Region 2, 29.46-30 GHz (Earth-to-space) in all Regions, 48.2-50.2 GHz (Earth-to-space) in Region 2.

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	This identification does not preclude the use of these frequency bands by other fixed-satellite service applications or by other services to which these frequency bands are allocated on a co-primary basis and does not establish priority in these Radio Regulations among users of the frequency bands. Administrations should take this into account when considering regulatory provisions in relation to these frequency bands. See Resolution **143 (Rev.WRC-19)**. (WRC-19)
5.517	In Region 2, use of the fixed-satellite (space-to-Earth) service in the frequency band 17.3-17.8 GHz shall not cause harmful interference to nor claim protection from assignments in the broadcasting-satellite service operating in conformity with the Radio Regulations. (WRC-23)~~In Region 2, use of the fixed-satellite (space-to-Earth) service in the band 17.7-17.8 GHz shall not cause harmful interference to nor claim protection from assignments in the broadcasting-satellite service operating in conformity with the Radio Regulations. (WRC-07)~~
5.517A	The operation of earth stations in motion communicating with geostationary fixed-satellite service space stations within the frequency bands 17.7-19.7 GHz (space-to-Earth) and 27.5-29.5 GHz (Earth-to-space) shall be subject to the application of Resolution **169 (Rev.WRC-23)**. (WRC-23)~~The operation of earth stations in motion communicating with geostationary fixed-satellite service space stations within the frequency bands 17.7-19.7 GHz (space-to-Earth) and 27.5-29.5 GHz (Earth-to-space) shall be subject to the application of Resolution **169 (WRC-19)**. (WRC-19)~~
5.517B	The operation of aeronautical and maritime earth stations in motion communicating with non-geostationary space stations in the fixed-satellite service in the frequency bands 17.7-18.6 GHz, 18.8-19.3 GHz and 19.7-20.2 GHz (space-to-Earth) and 27.5-29.1 GHz and 29.5-30 GHz (Earth-to-space) shall be subject to the application of Resolution **123 (WRC-23)**.
5.518	SUP (WRC-07)
5.519	*Additional allocation:* the bands 18-18.3 GHz in Region 2 and 18.1-18.4 GHz in Regions 1 and 3 are also allocated to the meteorological-satellite service (space-to-Earth) on a primary basis. Their use is limited to geostationary satellites. (WRC-07)
5.520	The use of the band 18.1-18.4 GHz by the fixed-satellite service (Earth-to-space) is limited to feeder links of geostationary-satellite systems in the broadcasting-satellite service. (WRC-2000)
5.521	*Alternative allocation: in the United Arab Emirates, the frequency band 18.1-18.4 GHz is allocated to thefixed, fixed-satellite (space-to-Earth) and mobile services on a primary basis (see No. **5.33**). The provisions of No. **5.519** also apply. (WRC-23)*~~*Alternative allocation:* in the United Arab Emirates and Greece, the frequency band 18.1-18.4 GHz is allocated to the fixed, fixed-satellite (space-to-Earth) and mobile services on a primary basis (see No. **5.33**). The provisions of No. **5.519** also apply. (WRC-15)~~
5.521A	For use of the frequency bands 18.1-18.6 GHz, 18.8-20.2 GHz and 27.5-30 GHz, or parts thereof, by space stations in the inter-satellite service, Resolution **679 (WRC-23)** shall apply. Such use is limited to space research, space operation and/or Earth exploration-satellite applications, and also transmissions of data originating from industrial and medical activities in space. When using these frequencies, administrations shall ensure that this inter-satellite service is used only for the aforementioned purposes and is not subject to coordination under No. **9.11A**. For use of the frequency bands 18.1-18.6 GHz, 18.8-20.2 GHz, 27.5-29.1 GHz and 29.5-30 GHz by space stations, the allocation is limited to inter-satellite links between non-geostationary satellites or between non-geostationary satellites and geostationary satellites. For use of the frequency band 29.1-29.5 GHz by space stations, the allocation is limited to inter-satellite links between non-geostationary satellites and geostationary satellites. No. **4.10** does not apply. (WRC-23)

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5.522	SUP (WRC-2000)
5.522A	The emissions of the fixed service and the fixed-satellite service in the band 18.6-18.8 GHz are limited to the values given in Nos. **21.5A** and **21.16.2**, respectively. (WRC-2000)
5.522B	The use of the band 18.6-18.8 GHz by the fixed-satellite service is limited to geostationary systems and systems with an orbit of apogee greater than 20 000 km. (WRC-2000)
5.522C	In the band 18.6-18.8 GHz, in Algeria, Saudi Arabia, Bahrain, Egypt, the United Arab Emirates, the Libyan Arab Jamahiriya, Jordan, Lebanon, Morocco, Oman, Qatar, the Syrian Arab Republic, Tunisia and Yemen, fixed-service systems in operation at the date of entry into force of the Final Acts of WRC-2000 are not subject to the limits of No. **21.5A**. (WRC-2000)
5.523	SUP (WRC-2000)
5.523A	The use of the bands 18.8-19.3 GHz (space-to-Earth) and 28.6-29.1 GHz (Earth-to-space) by geostationary and non- geostationary fixed-satellite service networks is subject to the application of the provisions of No. **9.11A** and No. **22.2** does not apply. Administrations having geostationary-satellite networks under coordination prior to 18 November 1995 shall cooperate to the maximum extent possible to coordinate pursuant to No. **9.11A** with non-geostationary-satellite networks for which notification information has been received by the Bureau prior to that date, with a view to reaching results acceptable to all the parties concerned. Non-geostationary-satellite networks shall not cause unacceptable interference to geostationary fixed-satellite service networks for which complete Appendix **4** notification information is considered as having been received by the Bureau prior to 18 November 1995. (WRC-97)
5.523B	The use of the band 19.3-19.6 GHz (Earth-to-space) by the fixed-satellite service is limited to feeder links for non- geostationary-satellite systems in the mobile-satellite service. Such use is subject to the application of the provisions of No. **9.11A**, and No. **22.2** does not apply.
5.523C	No. **22.2** shall continue to apply in the bands 19.3-19.6 GHz and 29.1-29.4 GHz, between feeder links of non- geostationary mobile-satellite service networks and those fixed-satellite service networks for which complete Appendix **4** coordination information, or notification information, is considered as having been received by the Bureau prior to 18 November 1995. (WRC-97)
5.523D	The use of the band 19.3-19.7 GHz (space-to-Earth) by geostationary fixed-satellite service systems and by feeder links for non-geostationary-satellite systems in the mobile-satellite service is subject to the application of the provisions of No. 9.11A, but not subject to the provisions of No. 22.2. The use of this band for other non-geostationary fixed-satellite service systems, or for the cases indicated in Nos. 5.523C and 5.523E, is not subject to the provisions of No. 9.11A and shall continue to be subject to Articles 9 (except No. 9.11A) and 11 procedures, and to the provisions of No. 22.2. (WRC-97)
5.523DA	In order to protect feeder links of non-geostationary networks in the mobile-satellite service in the frequency band 19.3-19.7 GHz, the power flux-density values produced at the surface of the Earth for all angles of arrival by a space station in the inter-satellite service operating in this band in accordance with Resolution **679 (WRC-23)** shall not exceed −140 dB(W/m2) in any 1 MHz within 150 km of any of the above feeder-link earth stations recorded in the Master International Frequency Register. (WRC-23)
5.523E	No. **22.2** shall continue to apply in the bands 19.6-19.7 GHz and 29.4-29.5 GHz, between feeder links of non- geostationary mobile-satellite service networks and those fixed-satellite service networks for which complete Appendix **4** coordination information, or notification information, is considered as having been received by the Bureau by 21 November 1997. (WRC-97)

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5.524	~~*Additional allocation:*~~ *Additional allocation:* in Afghanistan, Algeria, Saudi Arabia, Bahrain, Brunei Darussalam, Cameroon, China, Congo (Rep. of the), Costa Rica, Djibouti, Egypt, the United Arab Emirates, Gabon, Guatemala, Guinea, India, Iran (Islamic Republic of), Iraq, Israel, Japan, Jordan, Kuwait, Lebanon, Malaysia, Mali, Morocco, Mauritania, Nepal, Nigeria, Oman, Pakistan, Palestine*, the Philippines, Qatar, the Syrian Arab Republic, the Dem. Rep. of the Congo, the Dem. People's Rep. of Korea, Singapore, Somalia, Sudan, South Sudan, Chad, Togo and Tunisia, the frequency band 19.7-21.2 GHz is also allocated to the fixed and mobile services on a primary basis. This additional use shall not impose any limitation on the power flux-density of space stations in the fixed-satellite service in the frequency band 19.7- 21.2 GHz and of space stations in the mobile-satellite service in the frequency band 19.7-20.2 GHz where the allocation to the mobile-satellite service is on a primary basis in the latter frequency band. (WRC-23)~~in Afghanistan, Algeria, Saudi Arabia, Bahrain, Brunei Darussalam, Cameroon, China, Congo (Rep. of the), Costa Rica, Egypt, the United Arab Emirates, Gabon, Guatemala, Guinea, India, Iran (Islamic Republic of), Iraq, Israel, Japan, Jordan, Kuwait, Lebanon, Malaysia, Mali, Morocco, Mauritania, Nepal, Nigeria, Oman, Pakistan, the Philippines, Qatar, the Syrian Arab Republic, the Dem. Rep. of the Congo, the Dem. People's Rep. of Korea, Singapore, Somalia, Sudan, South Sudan, Chad, Togo and Tunisia, the frequency band 19.7-21.2 GHz is also allocated to the fixed and mobile services on a primary basis. This additional use shall not impose any limitation on the power flux-density of space stations in the fixed-satellite service in the frequency band 19.7-21.2 GHz and of space stations in the mobile-satellite service in the frequency band 19.7-20.2 GHz where the allocation to the mobile-satellite service is on a primary basis in the latter frequency band. (WRC-15)~~
5.525	In order to facilitate interregional coordination between networks in the mobile-satellite and fixed-satellite services, carriers in the mobile-satellite service that are most susceptible to interference shall, to the extent practicable, be located in the higher parts of the bands 19.7-20.2 GHz and 29.5-30 GHz.
5.526	In the bands 19.7-20.2 GHz and 29.5-30 GHz in Region 2, and in the bands 20.1-20.2 GHz and 29.9-30 GHz in Regions 1 and 3, networks which are both in the fixed-satellite service and in the mobile-satellite service may include links between earth stations at specified or unspecified points or while in motion, through one or more satellites for point- to-point and point-to-multipoint communications.
5.527	In the bands 19.7-20.2 GHz and 29.5-30 GHz, the provisions of No. **4.10** do not apply with respect to the mobile-satellite service.
5.527A	The operation of earth stations in motion communicating with the FSS is subject to Resolution **156 (Rev.WRC-23)**. (WRC-23)~~The operation of earth stations in motion communicating with the FSS is subject to Resolution **156 (WRC-15)**. (WRC-15)~~
5.528	The allocation to the mobile-satellite service is intended for use by networks which use narrow spot-beam antennas and other advanced technology at the space stations. Administrations operating systems in the mobile-satellite service in the band 19.7-20.1 GHz in Region 2 and in the band 20.1-20.2 GHz shall take all practicable steps to ensure the continued availability of these bands for administrations operating fixed and mobile systems in accordance with the provisions of No. **5.524**.
5.529	The use of the bands 19.7-20.1 GHz and 29.5-29.9 GHz by the mobile-satellite service in Region 2 is limited to satellite networks which are both in the fixed-satellite service and in the mobile-satellite service as described in No. **5.526**.
5.529A	In the frequency bands 20.2-21.2 GHz and 30-31 GHz, non-geostationary-satellite systems for which complete coordination or notification information, according to the case, is received by the Bureau as of 1 January 2025 shall not cause unacceptable interference to and shall not claim protection from geostationary-satellite networks in the mobile-satellite service operating in accordance with these Regulations. No. **5.43A** does not apply. (WRC-23)

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5.530	SUP (WRC-12)
5.530A	Unless otherwise agreed between the administrations concerned, any station in the fixed or mobile services of an administration shall not produce a power flux-density in excess of -120.4 dB(W/(m2 · MHz)) at 3 m above the ground of any point of the territory of any other administration in Regions 1 and 3 for more than 20% of the time. In conducting the calculations, administrations should use the most recent version of Recommendation ITU-R P.452 (see also the most recent version of Recommendation ITU-R BO.1898). (WRC-15)
5.530B	In the band 21.4-22 GHz, in order to facilitate the development of the broadcasting satellite service, administrations in Regions 1 and 3 are encouraged not to deploy stations in the mobile service and are encouraged to limit the deployment of stations in the fixed service to point to-point links. (WRC-12)
5.530C	SUP (WRC-15)
5.530D	SUP (WRC-19)
5.530E	The allocation to the fixed service in the frequency band 21.4-22 GHz is identified for use in Region 2 by high-altitude platform stations (HAPS). This identification does not preclude the use of this frequency band by other fixed-service applications or by other services to which it is allocated on a co-primary basis, and does not establish priority in the Radio Regulations. Such use of the fixed-service allocation by HAPS is limited to the HAPS-to-ground direction, and shall be in accordance with the provisions of Resolution **165 (Rev.WRC-23)**. (WRC-23)~~The allocation to the fixed service in the frequency band 21.4-22 GHz is identified for use in Region 2 by high-altitude platform stations (HAPS). This identification does not preclude the use of this frequency band by other fixed-service applications or by other services to which it is allocated on a co-primary basis, and does not establish priority in the Radio Regulations. Such use of the fixed-service allocation by HAPS is limited to the HAPS-to-ground direction, and shall be in accordance with the provisions of Resolution **165 (WRC-19)**. (WRC-19)~~
5.531	*Additional allocation:* in Japan, the band 21.4-22 GHz is also allocated to the broadcasting service on a primary basis.
5.531A	The use of the aeronautical mobile (OR) service in the frequency band 22-22.2 GHz is limited to non-safety applications. (WRC-23)
5.531B	Aircraft stations in the aeronautical mobile (OR) service operating in the frequency band 22-22.2 GHz are subject to agreement obtained under No. **9.21** with respect to the fixed service and shall not cause harmful interference to, nor claim protection from, the fixed service. The following power flux-density values shall be used as a threshold for coordination under No. **9.21**: −110 dB(W/(m2 · MHz)) for $0° \le \theta \le 12.6°$ $2.86\ \theta - 146$ dB(W/(m2 · MHz)) for $12.6° < \theta \le 15°$ $0.87\ \theta - 116$ dB(W/(m2 · MHz)) for $15° < \theta \le 30°$ $0.067\ \theta - 92$ dB(W/(m2 · MHz)) for $30° < \theta \le 90°$ where θ is the angle of arrival of the incident wave above the horizontal plane, in degrees. This criterion should be applied at the border of the territory of another administration for any aircraft station located at an altitude of up to 15 km above the ground. In conducting the calculations, the most recent version of RecommendationITU-R P.525 should be used. (WRC-23)
5.531C	Stations in the aeronautical mobile (OR) service operating in the frequency band 22-22.2 GHz shall not cause harmful interference to the radio astronomy service operating in the frequency band 22.21-22.5 GHz. The aggregate power flux-density (pfd) received from these stations at any radio astronomy station operating in the frequency band 22.21-22.5 GHz shall be in compliance with the protection criteria provided in Recommendations ITU-R RA.769-2 and ITU-R RA.1513-2, unless specifically agreed by the affected administration(s). (WRC-23)

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5.531D	The use of the aeronautical mobile (OR) service in the frequency band 22-22.2 GHz outside nationalboundaries shall not cause harmful interference to, or claim protection from, services in other countries operating inaccordance with the Table of Frequency Allocations. (WRC-23)
5.531E	*Alternative allocation*: in Brunei Darussalam, Iran (Islamic Republic of), Malaysia, Singapore and Thailand, the frequency band 22-22.2 GHz is allocated to the mobile, except aeronautical mobile (R), service on a primary basis. The use of the service is limited to non-safety applications within national boundaries. The use of the aeronautical mobile (OR) service in the frequency band 22-22.2 GHz shall not cause harmful interference to, or claim protection from, services in other countries operating in accordance with the Table of Frequency Allocations. Furthermore, stations in the aeronautical mobile (OR) service operating in the frequency band 22-22.2 GHz shall not cause harmful interference to the radio astronomy service operating in the frequency band 22.21-22.5 GHz in other countries in accordance with the Table of Frequency Allocations. The aggregate power flux-density (pfd) received from these stations at any radio astronomy station operating in the frequency band 22.21-22.5 GHz shall be in compliance with the protection criteria provided in Recommendations ITU-R RA.769-2 and ITU-R RA.1513-2, unless specifically agreed by the affected administration(s). In order to protect stations of the Earth exploration-satellite service (passive) operating in the frequency band 22.21-22.5 GHz, the unwanted equivalent isotropically radiated power (e.i.r.p.) of stations operating in the aeronautical mobile (OR) service shall not exceed −23 dBW in any 100 MHz band in the frequency band 22.21-22.5 GHz. Aircraft stations in the aeronautical mobile (OR) service operating in the frequency band 22-22.2 GHz are subject to agreement obtained under No. **9.21** with respect to the fixed service and shall not cause harmful interference to, nor claim protection from, the fixed service. The following pfd values shall be used as a threshold for coordination under No. **9.21**: −110 dB(W/(m2 · MHz)) for $0° \le \theta \le 12.6°$ $2.86\ \theta - 146$ dB(W/(m2 · MHz)) for $12.6° < \theta \le 15°$ $0.87\ \theta - 116$ dB(W/(m2 · MHz)) for $15° < \theta \le 30°$ $0.067\ \theta - 92$ dB(W/(m2 · MHz)) for $30° < \theta \le 90°$ where θ is the angle of arrival of the incident wave above the horizontal plane, in degrees. This criterion should be applied at the border of the territory of another administration for any aircraft station located at an altitude of up to 15 km above the ground. In conducting the calculations, the most recent version of Recommendation ITU-R P.525 should be used. (WRC-23)
5.531F	In order to protect stations of the Earth exploration-satellite service (passive) operating in the frequency band 22.21-22.5 GHz, the unwanted equivalent isotropically radiated power (e.i.r.p.) of stations operating in the aeronautical mobile (OR) service shall not exceed −23 dBW in any 100 MHz band in the frequency band 22.21-22.5 GHz. (WRC-23)
5.532	The use of the band 22.21-22.5 GHz by the Earth exploration-satellite (passive) and space research (passive) services shall not impose constraints upon the fixed and mobile, except aeronautical mobile, services.
5.532A	The location of earth stations in the space research service shall maintain a separation distance of at least 54 km from the respective border(s) of neighbouring countries to protect the existing and future deployment of fixed and mobile services unless a shorter distance is otherwise agreed between the corresponding administrations. Nos. **9.17** and **9.18** do not apply. (WRC 12)

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5.532AA	The allocation to the fixed service in the frequency band 24.25-25.25 GHz is identified for use in Region 2 by high-altitude platform stations (HAPS). This identification does not preclude the use of this frequency band by other fixed-service applications or by other services to which this frequency band is allocated on a co-primary basis, and does not establish priority in the Radio Regulations. Such use of the fixed-service allocation by HAPS is limited to the HAPS to- ground direction and shall be in accordance with the provisions of Resolution **166 (Rev.WRC-23)**. (WRC-23)~~The allocation to the fixed service in the frequency band 24.25-25.25 GHz is identified for use in Region 2 by high- altitude platform stations (HAPS). This identification does not preclude the use of this frequency band by other fixed- service applications or by other services to which this frequency band is allocated on a co-primary basis, and does not establish priority in the Radio Regulations. Such use of the fixed-service allocation by HAPS is limited to the HAPS to- ground direction and shall be in accordance with the provisions of Resolution 166 (WRC-19). (WRC-19)~~
5.532AB	The frequency band 24.25-27.5 GHz is identified for use by administrations wishing to implement the terrestrial component of International Mobile Telecommunications (IMT). This identification does not preclude the use of this frequency band by any application of the services to which it is allocated and does not establish priority in theRadio Regulati ons. Resolution **242 (Rev.WRC-23)** applies. (WRC-23)~~The frequency band 24.25-27.5 GHz is identified for use by administrations wishing to implement the terrestrial component of International Mobile Telecommunications (IMT). This identification does not preclude the use of this frequency band by any application of the services to which it is allocated and does not establish priority in the Radio Regulations. Resolution **242 (WRC-19)** applies. (WRC-19)~~
5.532B	Use of the band 24.65-25.25 GHz in Region 1 and the band 24.65-24.75 GHz in Region 3 by the fixed-satellite service (Earth-to-space) is limited to earth stations using a minimum antenna diameter of 4.5m. (WRC-12)
5.533	The inter-satellite service shall not claim protection from harmful interference from airport surface detection equipment stations of the radionavigation service.
5.534	SUP (WRC-03)
5.534A	The allocation to the fixed service in the frequency band 25.25-27.5 GHz is identified in Region 2 for use by high-altitude platform stations (HAPS) in accordance with the provisions of Resolution **166 (Rev.WRC-23)**. Such useof the fixed-service allocation by HAPS shall be limited to the ground-to-HAPS direction in the frequency band 25.25- 27.0 GHz and to the HAPS-to-ground direction in the frequency band 27.0-27.5 GHz. Furthermore, the use of thefrequency band 25.5-27.0 GHz by HAPS shall be limited to gateway links. This identification does not preclude the useof this frequency band by other fixed-service applications or by other services to which this band is allocated on a coprimarybasis, and does not establish priority in the Radio Regulations. (WRC-23)~~The allocation to the fixed service in the frequency band 25.25-27.5 GHz is identified in Region 2 for use by high-altitude platform stations (HAPS) in accordance with the provisions of Resolution **166 (WRC-19)**. Such use of the fixed-service allocation by HAPS shall be limited to the ground-to-HAPS direction in the frequency band 25.25-27.0 GHz and to the HAPS-to-ground direction in the frequency band 27.0-27.5 GHz. Furthermore, the use of the frequency band 25.5-27.0 GHz by HAPS shall be limited to gateway links. This identification does not preclude the use of this frequency band by other fixed-service applications or by other services to which this band is allocated on a co-primary basis, and does not establish priority in the Radio Regulations. (WRC-19)~~
5.535	In the band 24.75-25.25 GHz, feeder links to stations of the broadcasting-satellite service shall have priority over other uses in the fixed-satellite service (Earth-to-space). Such other uses shall protect and shall not claim protection from existing and future operating feeder-link networks to such broadcasting satellite stations.

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5.535A	The use of the band 29.1-29.5 GHz (Earth-to-space) by the fixed-satellite service is limited to geostationary-satellite systems and feeder links to non-geostationary-satellite systems in the mobile-satellite service. Such use is subject to the application of the provisions of No. **9.11A**, but not subject to the provisions of No. **22.2**, except as indicated in Nos. **5.523C** and **5.523E** where such use is not subject to the provisions of No. **9.11A** and shall continue to be subject to Articles **9** (except No. **9.11A**) and **11** procedures, and to the provisions of No. **22.2**. (WRC-97)
5.536	Use of the 25.25-27.5 GHz band by the inter-satellite service is limited to space research and Earth exploration-satellite applications, and also transmissions of data originating from industrial and medical activities in space.
5.536A	Administrations operating earth stations in the Earth exploration-satellite service or the space research service shall not claim protection from stations in the fixed and mobile services operated by other administrations. In addition, earth stations in the Earth exploration-satellite service or in the space research service should be operated taking into account the most recen version of Recommendation ITU-R SA.1862. Resolution **242 (Rev.WRC-23)** applies. (WRC-23)~~Administrations operating earth stations in the Earth exploration-satellite service or the space research service shall not claim protection from stations in the fixed and mobile services operated by other administrations. In addition, earth stations in the Earth exploration-satellite service or in the space research service should be operated taking into account the most recent version of Recommendation ITU-R SA.1862. Resolution **242 (WRC-19)** applies. (WRC-19)~~
5.536B	In Algeria, Saudi Arabia, Austria, Bahrain, Belgium, Brazil, China, Korea (Rep. of), Denmark, Egypt, United Arab Emirates, Estonia, Finland, Hungary, India, Iran (Islamic Republic of), Iraq, Ireland, Israel, Italy, Jordan, Kenya, Kuwait, Lebanon, Libya, Lithuania, Moldova, Norway, Oman, Uganda, Pakistan, the Philippines, Poland, Portugal, Qatar, the Syrian Arab Republic, Türkiye, Dem. People's Rep. of Korea, Slovakia, the Czech Rep., Romania, the United Kingdom, Singapore, Slovenia, Somalia, Sudan, Sweden, Tanzania, Viet Nam and Zimbabwe, earth stations operating in the Earth exploration-satellite service in the frequency band 25.5-27 GHz shall not claim protection from, or constrain the use and deployment of, stations of the fixed and mobile services. Resolution **242 (Rev.WRC-23)** applies. (WRC-23)~~In Algeria, Saudi Arabia, Austria, Bahrain, Belgium, Brazil, China, Korea (Rep. of), Denmark, Egypt, United Arab Emirates, Estonia, Finland, Hungary, India, Iran (Islamic Republic of), Iraq, Ireland, Israel, Italy, Jordan, Kenya, Kuwait, Lebanon, Libya, Lithuania, Moldova, Norway, Oman, Uganda, Pakistan, the Philippines, Poland, Portugal, Qatar, the Syrian Arab Republic, Dem. People's Rep. of Korea, Slovakia, the Czech Rep., Romania, the United Kingdom, Singapore, Slovenia, Sudan, Sweden, Tanzania, Turkey, Viet Nam and Zimbabwe, earth stations operating in the Earth exploration-satellite service in the frequency band 25.5-27 GHz shall not claim protection from, or constrain the use and deployment of, stations of the fixed and mobile services. Resolution **242 (WRC-19)** applies. (WRC-19)~~
5.536C	In Algeria, Saudi Arabia, Bahrain, Botswana, Brazil, Cameroon, Comoros, Cuba, Djibouti, Egypt, United Arab Emirates, Estonia, Finland, Iran (Islamic Republic of), Israel, Jordan, Kenya, Kuwait, Lithuania, Malaysia, Morocco, Nigeria, Oman, Qatar, Syrian Arab Republic, Somalia, Sudan, South Sudan, Tanzania, Tunisia, Uruguay, Zambia and Zimbabwe, earth stations operating in the space research service in the band 25.5-27 GHz shall not claim protection from, or constrain the use and deployment of, stations of the fixed and mobile services. (WRC-12)
5.537	Space services using non-geostationary satellites operating in the inter-satellite service in the band 27-27.5 GHz are exempt from the provisions of No. **22.2**.

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5.537A	In Bhutan, Cameroon, China, Korea (Rep. of), the Russian Federation, India, Indonesia, Iran (Islamic Republic of), Iraq, Japan, Kazakhstan, Malaysia, Maldives, Mongolia, Myanmar, Uzbekistan, Pakistan, the Philippines, Kyrgyzstan, the Dem. People's Rep. of Korea, Sudan, Sri Lanka, Thailand and Viet Nam, the allocation to the fixed service in the band 27.9- 28.2 GHz may also be used by high altitude platform stations (HAPS) within the territory of these countries. Such use of 300 MHz of the fixed-service allocation by HAPS in the above countries is further limited to operation in the HAPS-to- ground direction and shall not cause harmful interference to, nor claim protection from, other types of fixed-service systems or other co-primary services. Furthermore, the development of these other services shall not be constrained by HAPS. See Resolution **145 (Rev.WRC-19)**. (WRC-19)
5.538	*Additional allocation:* the bands 27.500-27.501 GHz and 29.999-30.000 GHz are also allocated to the fixed-satellite service (space-to-Earth) on a primary basis for the beacon transmissions intended for up-link power control. Such space- to-Earth transmissions shall not exceed an equivalent isotropically radiated power (e.i.r.p.) of ±10 dBW in the direction of adjacent satellites on the geostationary-satellite orbit. (WRC-07)
5.539	The band 27.5-30 GHz may be used by the fixed-satellite service (Earth-to-space) for the provision of feeder links for the broadcasting-satellite service.
5.540	*Additional allocation:* the band 27.501-29.999 GHz is also allocated to the fixed-satellite service (space-to-Earth) on a secondary basis for beacon transmissions intended for up-link power control.
5.541	In the band 28.5-30 GHz, the earth exploration-satellite service is limited to the transfer of data between stations and not to the primary collection of information by means of active or passive sensors.
5.541A	Feeder links of non-geostationary networks in the mobile-satellite service and geostationary networks in the fixed- satellite service operating in the band 29.1-29.5 GHz (Earth-to-space) shall employ uplink adaptive power control or other methods of fade compensation, such that the earth station transmissions shall be conducted at the power level required to meet the desired link performance while reducing the level of mutual interference between both networks. These methods shall apply to networks for which Appendix **4** coordination information is considered as having been received by the Bureau after 17 May 1996 and until they are changed by a future competent world radiocommunication conference. Administrations submitting Appendix **4** information for coordination before this date are encouraged to utilize these techniques to the extent practicable. (WRC-2000)
5.542	~~*Additional allocation:*~~ *Additional allocation:* in Algeria, Saudi Arabia, Bahrain, Brunei Darussalam, Cameroon, China, Congo (Rep. of the), Djibouti, Egypt, the United Arab Emirates, Eritrea, Ethiopia, Guinea, India, Iran (Islamic Republic of), Iraq, Japan, Jordan, Kuwait, Lebanon, Malaysia, Mali, Morocco, Mauritania, Nepal, Oman, Pakistan, Palestine*, Philippines, Qatar, the Syrian Arab Republic, the Dem. People's Rep. of Korea, Somalia, Sudan, South Sudan, Sri Lanka and Chad, the frequency band 29.5-31 GHz is also allocated to the fixed and mobile services on a secondary basis. The power limitsspec ified in Nos. **21.3** and **21.5** shall apply. (WRC-23)~~in Algeria, Saudi Arabia, Bahrain, Brunei Darussalam, Cameroon, China, Congo (Rep. of the), Egypt, the United Arab Emirates, Eritrea, Ethiopia, Guinea, India, Iran (Islamic Republic of), Iraq, Japan, Jordan, Kuwait, Lebanon, Malaysia, Mali, Morocco, Mauritania, Nepal, Oman, Pakistan, Philippines, Qatar, the Syrian Arab Republic, the Dem. People's Rep. of Korea, Somalia, Sudan, South Sudan Sri Lanka and Chad, the band 29.5-31 GH to the fixed and mobile services on a secondary basis. The power limits specified in Nos. 21.3 and 21.5 shall apply. (WRC-12)z is also allocated~~

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5.543	The band 29.95-30 GHz may be used for space-to-space links in the Earth exploration-satellite service for telemetry, tracking, and control purposes, on a secondary basis.
5.543A	SUP (WRC-19)
5.543B	The allocation to the fixed service in the frequency band 31-31.3 GHz is identified for worldwide use by high-altitude platform stations (HAPS). This identification does not preclude the use of this frequency band by other fixed-service applications or by other services to which this frequency band is allocated on a co-primary basis, and does not establish priority in the Radio Regulations. Such use of the fixed-service allocation by HAPS shall be in accordance with the provisions of Resolution **167 (Rev.WRC-23)**. (WRC-23)~~The allocation to the fixed service in the frequency band 31-31.3 GHz is identified for worldwide use by high-altitude platform stations (HAPS). This identification does not preclude the use of this frequency band by other fixed-service applications or by other services to which this frequency band is allocated on a co-primary basis, and does not establish priority in the Radio Regulations. Such use of the fixed-service allocation by HAPS shall be in accordance with the provisions of Resolution **167 (WRC-19)**. (WRC-19)~~
5.544	In the band 31-31.3 GHz the power flux-density limits specified in Article **21**, Table **21-4** shall apply to the space research service.
5.545	*Different category of service:* in Armenia, Georgia, Mongolia, Kyrgyzstan, Tajikistan and Turkmenistan, the allocation of the band 31-31.3 GHz to the space research service is on a primary basis (see No. **5.33**). (WRC-07)
5.546	*Different category of service:* in Saudi Arabia, Armenia, Azerbaijan, Bahrain, Belarus, Djibouti, Egypt, the United Arab Emirates, Spain, Estonia, the Russian Federation, Georgia, Hungary, Iran (Islamic Republic of), Israel, Jordan, Lebanon, Moldova, Mongolia, Oman, Uzbekistan, Poland, the Syrian Arab Republic, Türkiye, Kyrgyzstan,Romania, the United Kingdom, Somalia, South Africa, Tajikistan and Turkmenistan, the allocation of the frequency band 31.5-31.8 GHz to the fixed and mobile, except aeronautical mobile, services is on a primary basis (see No. 5.33). (WRC-23)~~*Different category of service:* in Saudi Arabia, Armenia, Azerbaijan, Bahrain, Belarus, Egypt, the United Arab Emirates, Spain, Estonia, the Russian Federation, Georgia, Hungary, Iran (Islamic Republic of), Israel, Jordan, Lebanon, Moldova, Mongolia, Oman, Uzbekistan, Poland, the Arab Republic, Kyrgyzstan, Romania, the United Kingdom, South Africa, Tajikistan, Turkmenistan and Turkey, the allocation of the frequency band 31.5-31.8 GHz to the fixed and mobile, except aeronautical mobile, services is on a primary basis (see No. **5.33**). (WRC-19)~~
5.547	The frequency bands 31.8-33.4 GHz, 37-40 GHz, 40.5-43.5 GHz, 51.4-52.6 GHz, 55.78-59 GHz and 64-66 GHz are available for high-density applications in the fixed service. Administrations should take this into account when considering regulatory provisions in relation to these bands. Because of the potential deployment of high-density applications in the fixed-satellite service in the frequency bands 39.5-40 GHz and 40.5-42 GHz (see No. **5.516B**),administrations should further take into account potential constraints to high-density applications in the fixed service, asappropriate. (WRC-23)~~The bands 31.8-33.4 GHz, 37-40 GHz, 40.5-43.5 GHz, 51.4-52.6 GHz, 55.78-59 GHz and 64-66 GHz are available for high- density applications in the fixed service (see Resolution **75 (WRC-2000)**). Administrations should take this into account when considering regulatory provisions in relation to these bands. Because of the potential deployment of high-density applications in the fixed-satellite service in the bands 39.5-40 GHz and 40.5-42 GHz (see No. **5.516B**), administrations should further take into account potential constraints to high-density applications in the fixed service, as appropriate. (WRC-07)~~
5.547A	Administrations should take practical measures to minimize the potential interference between stations in the fixed service and airborne stations in the radionavigation

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	service in the 31.8-33.4 GHz band, taking into account the operational needs of the airborne radar systems. (WRC-2000)
5.547B	*Alternative allocation*: in the United States, the band 31.8-32 GHz is allocated to the radionavigation and space research (deep space) (space-to-Earth) services on a primary basis. (WRC-97)
5.547C	*Alternative allocation*: in the United States, the band 32-32.3 GHz is allocated to the radionavigation and space research (deep space) (space-to-Earth) services on a primary basis. (WRC-03)
5.547D	Alternative allocation: in the United States, the band 32.3-33 GHz is allocated to the inter-satellite and radionavigation services on a primary basis. (WRC-97)
5.547E	*Alternative allocation*: in the United States, the band 33-33.4 GHz is allocated to the radionavigation service on a primary basis. (WRC-97)
5.548	In designing systems for the inter-satellite service in the frequency band 32.3-33 GHz, for the radionavigation service in the frequency band 32-33 GHz, and for the space research service (deep space) in the frequency band 31.8-32.3 GHz, administrations shall take all necessary measures to prevent harmful interference between these services, bearing in mind the safety aspects of the radionavigation service (see Recommendation **707 (Rev.WRC-23)**). (WRC-23)~~In designing systems for the inter-satellite service in the band 32.3-33 GHz, for the radionavigation service in the band 32-33 GHz, and for the space research service (deep space) in the band 31.8-32.3 GHz, administrations shall take all necessary measures to prevent harmful interference between these services, bearing in mind the safety aspects of the radionavigation service (see Recommendation **707**). (WRC-03)~~
5.549	*Additional allocation:* in Saudi Arabia, Bahrain, Bangladesh, Egypt, the United Arab Emirates, Gabon, Indonesia, Iran (Islamic Republic of), Iraq, Israel, Jordan, Kuwait, Lebanon, Libya, Malaysia, Mali, , Morocco, Mauritania, Nepal, Nigeria, Oman, Pakistan, the Philippines, Qatar, the Syrian Arab Republic, the Dem. Rep. of the Congo, Singapore, Somalia, Sudan, South Sudan Sri Lanka, Togo, Tunisia and Yemen, the band 33.4-36 GHz is also allocated to the fixed and mobile services on a primary basis. (WRC-12)
5.549A	In the band 35.5-36.0 GHz, the mean power flux-density at the Earth's surface, generated by any spaceborne sensor in the Earth exploration-satellite service (active) or space research service (active), for any angle greater than 0.8° from the beam centre shall not exceed -73.3 dB(W/m2) in this band. (WRC-03)
5.550	*Different category of service:* in Armenia, Azerbaijan, Belarus, the Russian Federation, Georgia, , Kyrgyzstan, Tajikistan and Turkmenistan, the allocation of the band 34.7-35.2 GHz to the space research service is on a primary basis (see No. 5.33). (WRC-12)
5.550A	For sharing of the band 36-37 GHz between the Earth exploration-satellite (passive) service and the fixed and mobile services, Resolution **752 (WRC-07)** shall apply. (WRC-07)
5.550B	The frequency band 37-43.5 GHz, or portions thereof, is identified for use by administrations wishing to implement the terrestrial component of International Mobile Telecommunications (IMT). This identification does not preclude the use of this frequency band by any application of the services to which it is allocated and does not establish priority in the Radio Regulations. Because of the potential deployment of FSS earth stations within the frequency range 37.5-42.5 GHz and high-density applications in the fixed-satellite service in the frequency bands 39.5-40 GHz in Region 1, 40-40.5 GHz in all Regions and 40.5-42 GHz in Region 2 (see No. **5.516B**), administrations should further take into account potential constraints to IMT in these frequency bands, as appropriate. Resolution **243 (Rev.WRC-23)** applies. (WRC-23)~~The frequency band 37-43.5 GHz, or portions thereof, is identified for use by~~

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	~~administrations wishing to implement the terrestrial component of International Mobile Telecommunications (IMT). This identification does not preclude the use of this frequency band by any application of the services to which it is allocated and does not establish priority in the Radio Regulations. Because of the potential deployment of FSS earth stations within the frequency range 37.5-42.5 GHz and high density applications in the fixed-satellite service in the frequency bands 39.5-40 GHz in Region 1, 40-40.5 GHz in all Regions and 40.5-42 GHz in Region 2 (see No. **5.516B**), administrations should further take into account potential constraints to IMT in these frequency bands, as appropriate. Resolution **243 (WRC-19)** applies. (WRC-19)~~
5.550C	The use of the frequency bands 37.5-39.5 GHz (space-to-Earth), 39.5-42.5 GHz (space-to-Earth), 47.2-50.2 GHz (Earth- to-space) and 50.4-51.4 GHz (Earth-to-space) by a non-geostationary-satellite system in the fixed-satellite service is subject to the application of the provisions of No. **9.12** for coordination with other non-geostationary-satellite systems in the fixed-satellite service but not with non-geostationary-satellite systems in other services. Resolution **770 (WRC- 19) shall also apply, and No. 22.2** shall continue to apply. (WRC-19)
5.550CA	Non-geostationary-satellite systems in the fixed-satellite service operating with an apogee altitude above 407 km and below 2 000 km in the frequency band 37.5-38 GHz shall not exceed an unwanted emission e.i.r.p. density of −21 dB(W/100 MHz) per space station for angles greater than 65.0° from nadir relative to the space station in the fixedsatellite service in the frequency band 36-37 GHz in order to protect the Earth exploration-satellite service (passive) operating in the latter frequency band. (WRC-23)
5.550D	The allocation to the fixed service in the frequency band 38-39.5 GHz is identified for worldwide use by administrations wishing to implement high-altitude platform stations (HAPS). In the HAPS-to-ground direction, the HAPS ground station shall not claim protection from stations in the fixed, mobile and fixed-satellite services; and No. **5.43A** does not apply. This identification does not preclude the use of this frequency band by other fixed-service applications or by other services to which this frequency band is allocated on a co-primary basis and does not establish priority in the Radio Regulations. Furthermore, the development of the fixed-satellite, fixed and mobile services shall not be unduly constrained by HAPS. Such use of the fixed-service allocation by HAPS shall be in accordance with the provisions of Resolution **168 (Rev.WRC-23)**. (WRC-23)~~The allocation to the fixed service in the frequency band 38-39.5 GHz is identified for worldwide use by administrations wishing to implement high-altitude platform stations (HAPS). In the HAPS-to-ground direction, the HAPS ground station shall not claim protection from stations in the fixed, mobile and fixed-satellite services; and No. **5.43A** does not apply. This identification does not preclude the use of this frequency band by other fixed-service applications or by other services to which this frequency band is allocated on a co-primary basis and does not establish priority in the Radio Regulations. Furthermore, the development of the fixed-satellite, fixed and mobile services shall not be unduly constrained by HAPS. Such use of the fixed-service allocation by HAPS shall be in accordance with the provisions of Resolution **168 (WRC-19).** (WRC-19)~~
5.550E	The use of the frequency bands 39.5-40 GHz and 40-40.5 GHz by non-geostationary-satellite systems in the mobile- satellite service (space-to-Earth) and by non-geostationary-satellite systems in the fixed-satellite service (space-to- Earth) is subject to the application of the provisions of No. **9.12** for coordination with other non-geostationary-satellite systems in the fixed-satellite and mobile-satellite services but not with non-geostationary-satellite systems in other services. No. **22.2** shall continue to apply for non-geostationary-satellite-systems. (WRC-19)
5.551B	SUP (WRC-2000)
5.551C	SUP (WRC-2000)
5.551D	SUP (WRC-2000)

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5.551E	SUP (WRC-2000)
5.551F	*Different category of service*: in Japan, the allocation of the band 41.5-42.5 GHz to the mobile service is on a primary basis (see No. **5.33**). (WRC-97)
5.551G	SUP (WRC-03)
5.551H	The equivalent power flux-density (epfd) produced in the frequency band 42.5-43.5 GHz by all space stations in any non-geostationary-satellite system in the fixed-satellite service (space-to-Earth), or in the broadcasting-satellite service operating in the frequency band 42-42.5 GHz, shall not exceed the following values at the site of any radio astronomy station for more than 2% of the time: − 230 dB(W/m^2) in 1 GHz and –246 dB(W/m^2) in any 500 kHz of the 42.5-43.5 GHz band at the site of any radio astronomy station registered as a single-dish telescope; and − 209 dB(W/m^2) in any 500 kHz of the 42.5-43.5 GHz band at the site of any radio astronomy station registered as a very long baseline interferometry station. These epfd values shall be evaluated using the methodology given in Recommendation ITU-R S.1586-1 and the reference antenna pattern and the maximum gain of an antenna in the radio astronomy service given in Recommendation ITU-R RA.1631-0 and shall apply over the whole sky and for elevation angles higher than the minimum operating angle θ_{min} of the radiotelescope (for which a default value of 5° should be adopted in the absence of notified information). These values shall apply at any radio astronomy station that either: − was in operation prior to 5 July 2003 and has been notified to the Bureau before 4 January 2004; or − was notified before the date of receipt of the complete Appendix **4** information for coordination or notification, as appropriate, for the space station to which the limits apply. Other radio astronomy stations notified after these dates may seek an agreement with administrations that have authorized the space stations. In Region 2, Resolution **743 (WRC-03)** shall apply. The limits in this footnote may be exceeded at the site of a radio astronomy station of any country whose administration so agreed. (WRC-15)
5.551I	The power flux-density in the band 42.5-43.5 GHz produced by any geostationary space station in the fixed-satellite service (space-to-Earth), or the broadcasting-satellite service operating in the 42-42.5 GHz band, shall not exceed the following values at the site of any radio astronomy station: – 137 dB(W/m^2) in 1 GHz and –153 dB(W/m^2) in any 500 kHz of the 42.5-43.5 GHz band at the site of any radio astronomy station registered as a single-dish telescope; and – 116 dB(W/m^2) in any 500 kHz of the 42.5-43.5 GHz band at the site of any radio astronomy station registered as a very long baseline interferometry station. These values shall apply at the site of any radio astronomy station that either: – was in operation prior to 5 July 2003 and has been notified to the Bureau before 4 January 2004; or – was notified before the date of receipt of the complete Appendix **4**

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	information for coordination or notification, as appropriate, for the space station to which the limits apply. Other radio astronomy stations notified after these dates may seek an agreement with administrations that have authorized the space stations. In Region 2, Resolution **743 (WRC-03)** shall apply. The limits in this footnote may be exceeded at the site of a radio astronomy station of any country whose administration so agreed. (WRC-03)
5.552	The allocation of the spectrum for the fixed-satellite service in the bands 42.5-43.5 GHz and 47.2-50.2 GHz for Earth-to- space transmission is greater than that in the band 37.5-39.5 GHz for space-to-Earth transmission in order to accommodate feeder links to broadcasting satellites. Administrations are urged to take all practicable steps to reserve the band 47.2-49.2 GHz for feeder links for the broadcasting-satellite service operating in the band 40.5-42.5 GHz.
5.552A	The allocation to the fixed service in the frequency bands 47.2-47.5 GHz and 47.9-48.2 GHz is identified for use by high- altitude platform stations (HAPS). This identification does not preclude the use of this frequency band by any application of the services to which it is allocated on a co-primary basis, and does not establish priority in the Radio Regulations. Such use of the fixed-service allocation in the frequency bands 47.2-47.5 GHz and 47.9-48.2 GHz by HAPS shall be in accordance with the provisions of Resolution **122 (Rev.WRC-19)**. (WRC-19)
5.553	In the bands 43.5-47 GHz and 66-71 GHz, stations in the land mobile service may be operated subject to not causing harmful interference to the space radiocommunication services to which these bands are allocated (see No. **5.43**). (WRC-2000)
5.553A	In Algeria, Angola, Bahrain, Belarus, Benin, Botswana, Brazil, Burkina Faso, Cabo Verde, Korea (Rep. of), Côte d'Ivoire, Croatia, Djibouti, Egypt, United Arab Emirates, Estonia, Eswatini, Gabon, Gambia, Ghana, Greece, Guinea, Guinea-Bissau, Hungary, Iran (Islamic Republic of), Iraq, Jordan, Kuwait, Lesotho, Latvia, Liberia, Lithuania, Madagascar, Malawi, Mali, Morocco, Mauritius, Mauritania, Mozambique, Namibia, Niger, Nigeria, Oman, Qatar, Senegal, Seychelles, Sierra Leone, Slovenia, Somalia, Sudan, South Africa, Sweden, Tanzania, Togo, Tunisia, Zambia and Zimbabwe, the frequency band 45.5-47 GHz is identified for use by administrations wishing to implement the terrestrial component of International Mobile Telecommunications (IMT), taking into account No. **5.553**. With respect to the aeronautical mobile service and radionavigation service, the use of this frequency band for the implementation of IMT is subject to agreement obtained under No. **9.21** with concerned administrations and shall not cause harmful interference to, or claim protection from these services. This identification does not preclude the use of this frequency band by any application of the services to which it is allocated and does not establish priority in the Radio Regulations. Resolution **244 (Rev.WRC-23**) applies. (WRC-23)~~In Algeria, Angola, Bahrain, Belarus, Benin, Botswana, Brazil, Burkina Faso, Cabo Verde, Korea (Rep. of), Côte d'Ivoire, Croatia, United Arab Emirates, Estonia, Eswatini, Gabon, Gambia, Ghana, Greece, Guinea, Guinea-Bissau, Hungary, Iran (Islamic Republic of), Iraq, Jordan, Kuwait, Lesotho, Latvia, Liberia, Lithuania, Madagascar, Malawi, Mali, Morocco, Mauritius, Mauritania, Mozambique, Namibia, Niger, Nigeria, Oman, Qatar, Senegal, Seychelles, Sierra Leone, Slovenia, Sudan, South Africa, Sweden, Tanzania, Togo, Tunisia, Zambia and Zimbabwe, the frequency band 45.5-47 GHz is identified for use by administrations wishing to implement the terrestrial component of International Mobile Telecommunications (IMT), taking into account No. **5.553**. With respect to the aeronautical mobile service and radionavigation service, the use of this frequency band for the implementation of IMT is subject to agreement obtained under No. **9.21** with concerned administrations and shall not cause harmful interference to, or claim protection from these services. This identification does not~~

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	~~preclude the use of this frequency band by any application of the services to which it is allocated and does not establish priority in the Radio Regulations. Resolution **244 (WRC-19)** applies. (WRC-19)~~
5.553B	In Region 2 and Algeria, Angola, Saudi Arabia, Australia, Bahrain, Benin, Botswana, Burkina Faso,Burundi, Cameroon, Central African Rep., Comoros, Congo (Rep. of the), Korea (Rep. of), Côte d'Ivoire, Djibouti, Egypt, United Arab Emirates, Eswatini, Ethiopia, Gabon, Gambia, Ghana, Guinea, Guinea-Bissau, Equatorial Guinea, India, Iran (Islamic Republic of), Iraq, Japan, Jordan, Kenya, Kuwait, Lesotho, Liberia, Libya, Lithuania, Madagascar, Malaysia, Malawi, Mali, Morocco, Mauritius, Mauritania, Mozambique, Namibia, Niger, Nigeria, Oman, Uganda, Qatar, the Syrian Arab Republic, the Dem. Rep. of the Congo, Rwanda, Sao Tome and Principe, Senegal, Seychelles, Sierra Leone,Singapore, Slovenia, Somalia, Sudan, South Sudan, South Africa, Sweden, Tanzania, Chad, Togo, Tunisia, Zambia and Zimbabwe, the frequency band 47.2-48.2 GHz is identified for use by administrations wishing to implement International Mobile Telecommunications (IMT). This identification does not preclude the use of this frequency band by any application of the services to which it is allocated, and does not establish any priority in the Radio Regulations. Resolution **243 (Rev.WRC-23)** applies. (WRC-23)~~In Region 2 and Algeria, Angola, Saudi Arabia, Australia, Bahrain, Benin, Botswana, Burkina Faso, Burundi, Cameroon, Central African Rep., Comoros, Congo (Rep. of the), Korea (Rep. of), Côte d'Ivoire, Djibouti, Egypt, United Arab Emirates, Eswatini, Ethiopia, Gabon, Gambia, Ghana, Guinea, Guinea-Bissau, Equatorial Guinea, India, Iran (Islamic Republic of), Iraq, Japan, Jordan, Kenya, Kuwait, Lesotho, Liberia, Libya, Lithuania, Madagascar, Malaysia, Malawi, Mali, Morocco, Mauritius, Mauritania, Mozambique, Namibia, Niger, Nigeria, Oman, Uganda, Qatar, the Syrian Arab Republic, the Dem. Rep. of the Congo, Rwanda, Sao Tome and Principe, Senegal, Seychelles, Sierra Leone, Singapore, Slovenia, Somalia, Sudan, South Sudan, South Africa, Sweden, Tanzania, Chad, Togo, Tunisia, Zambia and Zimbabwe, the frequency band 47.2-48.2 GHz is identified for use by administrations wishing to implement International Mobile Telecommunications (IMT). This identification does not preclude the use of this frequency band by any application of the services to which it is allocated, and does not establish any priority in the Radio Regulations. Resolution **243 (WRC-19)** applies.~~
5.554	In the bands 43.5-47 GHz, 66-71 GHz, 95-100 GHz, 123-130 GHz, 191.8-200 GHz and 252-265 GHz, satellite links connecting land stations at specified fixed points are also authorized when used in conjunction with the mobile-satellite service or the radionavigation-satellite service. (WRC-2000)
5.554A	The use of the bands 47.5-47.9 GHz, 48.2-48.54 GHz and 49.44-50.2 GHz by the fixed-satellite service (space-to-Earth) is limited to geostationary satellites. (WRC-03)
5.555	*Additional allocation:* the band 48.94-49.04 GHz is also allocated to the radio astronomy service on a primary basis. (WRC-2000)
5.555A	SUP (WRC-03)

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5.555B	The power flux-density in the band 48.94-49.04 GHz produced by any geostationary space station in the fixed-satellite service (space-to-Earth) operating in the bands 48.2-48.54 GHz and 49.44-50.2 GHz shall not exceed –151.8 dB(W/m2) in any 500 kHz band at the site of any radio astronomy station. (WRC-03)
5.555C	The use of the frequency band 51.4-52.4 GHz by the fixed-satellite service (Earth-to-space) is limited to geostationary- satellite networks. The earth stations shall be limited to gateway earth stations with a minimum antenna diameter of 2.4 metres. (WRC-19)
5.556	In the bands 51.4-54.25 GHz, 58.2-59 GHz and 64-65 GHz, radio astronomy observations may be carried out under national arrangements. (WRC-2000)
5.556A	Use of the bands 54.25-56.9 GHz, 57-58.2 GHz and 59-59.3 GHz by the inter-satellite service is limited to satellites in the geostationary-satellite orbit. The single-entry power flux-density at all altitudes from 0 km to 1 000 km above the Earth's surface produced by a station in the inter-satellite service, for all conditions and for all methods of modulation, shall not exceed –147 dB(W/(m2 Ill 100 MHz)) for all angles of arrival. (WRC-97)
5.556B	*Additional allocation:* in Japan, the band 54.25-55.78 GHz is also allocated to the mobile service on a primary basis for low-density use. (WRC-97)
5.557	*Additional allocation:* in Japan, the band 55.78-58.2 GHz is also allocated to the radiolocation service on a primary basis. (WRC-97)
5.557A	In the band 55.78-56.26 GHz, in order to protect stations in the Earth exploration-satellite service (passive), the maximum power density delivered by a transmitter to the antenna of a fixed service station is limited to – 26 dB(W/MHz). (WRC-2000)
5.558	In the bands 55.78-58.2 GHz, 59-64 GHz, 66-71 GHz, 122.25-123 GHz, 130-134 GHz, 167-174.8 GHz and 191.8-200 GHz, stations in the aeronautical mobile service may be operated subject to not causing harmful interference to the inter- satellite service (see **No. 5.43**). (WRC-2000)
5.558A	Use of the band 56.9-57 GHz by inter-satellite systems is limited to links between satellites in geostationary-satellite orbit and to transmissions from non-geostationary satellites in high-Earth orbit to those in low-Earth orbit. For links between satellites in the geostationary-satellite orbit, the single entry power flux-density at all altitudes from 0 km to 1 000 km above the Earth's surface, for all conditions and for all methods of modulation, shall not exceed –147 dB(W/(m2 Ill 100 MHz)) for all angles of arrival. (WRC-97)
5.559	In the band 59-64 GHz, airborne radars in the radiolocation service may be operated subject to not causing harmful interference to the inter-satellite service (see No. **5.43**). (WRC-2000)
5.559A	SUP (WRC-07)
5.559AA	The frequency band 66-71 GHz is identified for use by administrations wishing to implement the terrestrial component of International Mobile Telecommunications (IMT). This identification does not preclude the use of this frequency band by any application of the services to which this frequency band is allocated and does not establish priority in the Radio Regulations. Resolution **241 (Rev.WRC-23)** applies. (WRC-23)~~The frequency band 66-71 GHz is identified for use by administrations wishing to implement the terrestrial component of International Mobile Telecommunications (IMT). This identification does not preclude the use of this frequency band by any application of the services to which this frequency band is allocated and does not establish priority in the Radio Regulations. Resolution **241 (WRC-19)** applies. (WRC-19)~~

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5.559B	The use of the frequency band 77.5-78 GHz by the radiolocation service shall be limited to short-range radar for ground-based applications, including automotive radars. The technical characteristics of these radars are provided in the most recent version of Recommendation ITU-R M.2057. The provisions of No. **4.10** do not apply. (WRC-15)
5.560	In the band 78-79 GHz radars located on space stations may be operated on a primary basis in the Earth exploration- satellite service and in the space research service.
5.561	In the band 74-76 GHz, stations in the fixed, mobile and broadcasting services shall not cause harmful interference to stations of the fixed-satellite service or stations of the broadcasting-satellite service operating in accordance with the decisions of the appropriate frequency assignment planning conference for the broadcasting-satellite service. (WRC-2000)
5.561A	The 81-81.5 GHz band is also allocated to the amateur and amateur-satellite services on a secondary basis. (WRC-2000)
5.561B	In Japan, use of the band 84-86 GHz, by the fixed-satellite service (Earth-to-space) is limited to feeder links in the broadcasting-satellite service using the geostationary-satellite orbit. (WRC-2000)
5.562	The use of the band 94-94.1 GHz by the Earth exploration-satellite (active) and space research (active) services is limited to spaceborne cloud radars. (WRC-97)
5.562A	In the bands 94-94.1 GHz and 130-134 GHz, transmissions from space stations of the Earth exploration-satellite service (active) that are directed into the main beam of a radio astronomy antenna have the potential to damage some radio astronomy receivers. Space agencies operating the transmitters and the radio astronomy stations concerned should mutually plan their operations so as to avoid such occurrences to the maximum extent possible. (WRC-2000)
5.562B	In the bands 105-109.5 GHz, 111.8-114.25 GHz and 217-226 GHz, the use of this allocation is limited to space-based radio astronomy only. (WRC-19)
5.562C	Use of the band 116-122.25 GHz by the inter-satellite service is limited to satellites in the geostationary-satellite orbit. The single-entry power flux-density produced by a station in the inter-satellite service, for all conditions and for all methods of modulation, at all altitudes from 0 km to 1 000 km above the Earth's surface and in the vicinity of all geostationary orbital positions occupied by passive sensors, shall not exceed –148 dB(W/(m2 · MHz)) for all angles of arrival. (WRC-2000)
5.562D	Additional allocation: In Korea (Rep. of), the frequency bands 128-130 GHz, 171-171.6 GHz, 172.2-172.8 GHz and 173.3- 174 GHz are also allocated to the radio astronomy service on a primary basis. Radio astronomy stations in Korea (Rep. of) operating in the frequency bands referred to in this footnote shall not claim protection from, or constrain the use and development of, services in other countries operating in accordance with the Radio Regulations. (WRC-15)
5.562E	The allocation to the Earth exploration-satellite service (active) is limited to the band 133.5-134 GHz. (WRC-2000)
5.562F	SUP (WRC-19)
5.562G	SUP (WRC-19)
5.562H	Use of the bands 174.8-182 GHz and 185-190 GHz by the inter-satellite service is limited to satellites in the geostationary- satellite orbit. The single-entry power flux-density produced by a station in the inter-satellite service, for all conditions and for all methods of modulation, at all altitudes from 0 to 1 000 km above the Earth's surface and in the vicinity of all geostationary orbital positions occupied by passive sensors, shall not exceed−144 dB(W/(m2 · MHz)) for all angles of arrival. (WRC-2000)
5.563	SUP (WRC-03)

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5.563A	In the bands 200-209 GHz, 235-238 GHz, 250-252 GHz and 265-275 GHz, ground-based passive atmospheric sensing is carried out to monitor atmospheric constituents. (WRC-2000)
5.563AA	In the frequency band 235-238 GHz, stations in the Earth exploration-satellite service (passive) shall not claim protection from stations in the fixed and mobile services. (WRC-23)
5.563B	The band 237.9-238 GHz is also allocated to the Earth exploration-satellite service (active) and the space research service (active) for spaceborne cloud radars only. (WRC-2000)
5.564	SUP (WRC-2000)
5.564A	For the operation of fixed and land mobile service applications in frequency bands in the range 275-450 GHz:The frequency bands 275-296 GHz, 306-313 GHz, 318-333 GHz and 356-450 GHz are identified for use by administrations for the implementation of land mobile and fixed service applications, where no specific conditions are necessary to protect Earth exploration-satellite service (passive) applications.The frequency bands 296-306 GHz, 313-318 GHz and 333-356 GHz may only be used by fixed and land mobile service applications when specific conditions to ensure the protection of Earth exploration-satellite service (passive) applications are determined in accordance with Resolution **731 (Rev.WRC-23)**. In those portions of the frequency range 275-450 GHz where radio astronomy applications are used, specific conditions (e.g. minimum separation distances and/or avoidance angles) may be necessary to ensure protection of radio astronomy sites from land mobile and/or fixed service applications, on a case-by-case basis, in accordance with Resolution **731 (Rev.WRC-23)**. The use of the above-mentioned frequency bands by land mobile and fixed service applications does not preclude use by, and does not establish priority over, any other applications of radio services in the range of 275-450 GHz. (WRC-23)~~For the operation of fixed and land mobile service applications in frequency bands in the range 275-450 GHz: The frequency bands 275-296 GHz, 306-313 GHz, 318-333 GHz and 356-450 GHz are identified for use by administrations for the implementation of land mobile and fixed service applications, where no specific conditions are necessary to protect Earth exploration-satellite service (passive) applications.~~ ~~The frequency bands 296-306 GHz, 313-318 GHz and 333-356 GHz may only be used by fixed and land mobile service applications when specific conditions to ensure the protection of Earth exploration-satellite service (passive) applications are determined in accordance with Resolution **731 (Rev.WRC-19)**.~~ ~~In those portions of the frequency range 275-450 GHz where radio astronomy applications are used, specific conditions (e.g. minimum separation distances and/or avoidance angles) may be necessary to ensure protection of radio astronomy sites from land mobile and/or fixed service applications, on a case-by-case basis in accordance with Resolution **731 (Rev.WRC-19)**.~~ ~~The use of the above-mentioned frequency bands by land mobile and fixed service applications does not preclude use by, and does not establish priority over, any other applications of radio services in the range of 275-450 GHz. (WRC-19)~~

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5.565	The following frequency bands in the range 275-1 000 GHz are identified for use by administrations for passive service applications: – radio astronomy service: 275-323 GHz, 327-371 GHz, 388-424 GHz, 426-442 GHz, 453-510 GHz, 623-711 GHz, 795-909 GHz and 926-945 GHz; – Earth exploration-satellite service (passive) and space research service (passive): 275-286 GHz, 296-306 GHz, 313-356 GHz, 361-365 GHz, 369-392 GHz, 397-399 GHz, 409-411 GHz, 416-434 GHz, 439-467 GHz, 477-502 GHz, 523-527 GHz, 538-581 GHz, 611-630 GHz, 634-654 GHz, 657-692 GHz, 713-718 GHz, 729-733 GHz, 750-754 GHz, 771-776 GHz, 823-846 GHz, 850-854 GHz, 857-862 GHz, 866-882 GHz, 905-928 GHz, 951-956 GHz, 968-973 GHz and 985-990 GHz. The use of the range 275-1 000 GHz by the passive services does not preclude use of this range by active services. Administrations wishing to make frequencies in the 275-1 000 GHz range available for active service applications are urged to take all practicable steps to protect these passive services from harmful interference until the date when the Table of Frequency Allocations is established in the above-mentioned 275-1 000 GHz frequency range. All frequencies in the range 1 000-3 000 GHz may be used by both active and passive services. (WRC-12)

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8 LIST OF FREQUENCY BANDS USED FOR MARITIME SERVICES

Frequency Band	Frequency Used	Services
505-526.5 kHz	518 kHz	[Transmission of ~~Maritime Safety Information~~ MSI(Appendix 15 of ITU RR)[19] (Meteorological, navigational and other urgent information)
2 173.5-2 190.5 kHz	2 182 kHz	Distress, Urgency and Safety communications (traffic) by radio telephony (voice) (Appendix 15 of ITU RR)
	2 187 kHz	DSC Watchkeeping (Article 31) (Appendix 15 of ITU RR)
4 063-4 438 kHz		(Appendix 17)[20]
		(Appendix 17)
	4 125 kHz	Distress, Urgency and Safety communications (traffic) by radio telephony (voice) (Appendix 15 of ITU RR)
	4 207.5 kHz	DSC watchkeeping (Article 31) (Appendix 15 of ITU RR)
	4 369 kHz	(Appendix 17)
	4 375 kHz	Transmission of meteorological bulletins; notices to navigators; (Appendix 17)
	4 417 kHz	Coast Station duplex transmission of Channel 421.
6 200-6 525 kHz	6 203 kHz	(Appendix 17)
	6 215 kHz	Distress, Urgency and Safety communications (traffic) by radio telephony (voice) (Appendix 15 of ITU RR)
	6 312 kHz	DSC watchkeeping (Article 31) (Appendix 15 of ITU RR)
	6 504 kHz	(Appendix 17)
8 195-8 815 kHz	8 207 kHz	(Appendix 17)
	8 216 kHz	(Appendix 17)
	8 255 kHz	(Appendix 17)
	8 291 kHz	Distress, Urgency and Safety communications (traffic) by radio telephony (voice) (Appendix 15 of ITU RR)
	8 731 kHz	(Appendix 17)
	8 740 kHz	Transmission of meteorological bulletins; notices to navigators; (Appendix 17)

[19] Only distress and safety communications are provided, with MSI and Medical Assistance at sea. All MF/HF public correspondence ceased as it was no longer commercially viable and sustainable. Other technologies accommodate this type of communications. (Satellite, GSM, Trunked radio networks, etc.).

[20] Public Correspondence facilities with effect from 1 September 2014 has been discontinued.

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Frequency Band	Frequency Used	Services
	8 779 kHz	(Appendix 17)
	8 414.5 kHz	DSC watchkeeping (Article 31)
12 230-13 200 kHz	12 254 kHz	(Appendix 17)
	12 290 kHz	(Appendix 17)
	12 299 kHz	(Appendix 17)
	12 359 kHz	(Appendix 17)
	12 577 kHz	DSC watchkeeping (Article 31) (Appendix 15 of ITU RR)
	13 101 kHz	(Appendix 17)
	13 146 kHz	Transmission of meteorological bulletins; notices to navigators; (Appendix 17)
16 360-17 410 kHz	16 381 kHz	(Appendix 17)
	16 420 kHz	Distress, Urgency and Safety communications (traffic) by radio telephony (voice) (Appendix 15 of ITU RR)
	16 456 kHz	(Appendix 17)
	16 537 kHz	(Appendix 17)
	16 804.5 kHz	DSC watchkeeping (Appendix 15 of ITU RR)
	17 263 kHz	(Appendix 17)
	17 338 kHz	(Appendix 17)

Frequency Band as per NRFP	Frequency Used	Services
154-156.4875 MHz	Several channels used within this range in accordance with Appendix 18 of the ITU RR **Channel 2006 – 160.900 MHz**	APPENDIX 18 Channel 2006 allocated for Man Overboard Devices used for search and rescue operations. New AIS technologies.
156.7875-156.8125 MHz	Channel 16 in accordance with Appendix 18 of the ITU RR **156.7750** **156.8250**	**Appendix 18.** **Mobile Satellite Earth to Space for long range AIS broadcasts (ship stations)**
156.8375-162.0250 MHz	Several channels used within this range in accordance with Appendix 18 of the ITU RR	

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	Channel 28 in accordance with Appendix 18 of the ITU RR	**APPENDIX 18** services allocated: Coast Station Analogue Maritime Safety Information (MSI) transmissions using Simplex configurations - 01 to 05; and 60 to 65. Priority to digital transmissions as per Footnote w) from 1 January 2017. Protection of Channel 70 for DSC and Channel 16 distress communications, AIS1 (161.975MHz) and AIS2 (162.025) for navigational safety

Short Title

This document shall be called the "*National Radio Frequency Plan 2021~~8~~5"*

Repeals

1. The National Radio Frequency Plan 2021~~18~~ …

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9 REFERENCE INFORMATION SOURCES

ITU documents

- SM.2015: Methods for determining national long-term strategies for spectrum utilization
- Report ITU-R SM.2012-6 (06/2018)
- Final Acts from WRC-2023~~19~~
- Report ITU-R M.2290-0 (12/2013) Future spectrum requirements estimate for terrestrial IMT
- Report ITU-R M.2078, "Estimated Spectrum Bandwidth Requirements for the Future Development of IMT-2000 and IMT-Advanced," 2006
- The Radio Regulations from 2016
- The Radio Regulations from 2020
- The Radio Regulations 2024

The Authority ~~ICASA Published &~~published similar Documents

- SABRE I
- SABRE II
- SATFA 1997
- NRFP 2010
- NRFP 2013
- NRFP 2018
- NRFP 2021
- ~~CRASA/SADC Radio Frequency Spectrum Allocation Plan 2020.~~
- ECA and associated documents
- The ~~ICASA~~ Frequency Migration Plan 2013
- The ~~ICASA~~ Frequency Migration Plan 2019
- Reference RFSAPs will be included in the NRFP2025 ~~RFSAP's will be included in the NRFP~~ .
- IMT RoadMap 2014
- ~~ICASA Radio Frequency Migration Plans~~
- IMT Roadmaps ~~RoadMap~~ 2019

~~**Software Used during the project**~~

- ~~RR5 ITU software for extraction of Radio Regulation Navigation Tool version 5.0.4.0 RR 2020 Edition~~
- ~~Own developed software for SA NRFP comparison exercise~~

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NON-GOVERNMENTAL ORGANIZATION

NOTICE 3110 OF 2025

THE COUNCIL FOR QUALITY ASSURANCE IN GENERAL AND FURTHER EDUCATION AND TRAINING ("UMALUSI")

PUBLICATION OF THE UMALUSI ARTICULATION POLICY FOR QUALIFICATIONS IN THE GENERAL AND FURTHER EDUCATION AND TRAINING QUALIFICATIONS SUB-FRAMEWORK

(1) In 2001 Umalusi, the Council for Quality Assurance in General and Further Education and Training, was mandated by parliament, in its founding Act, the General and Further Education and Training Quality Assurance Act, 2001 (Act 58 of 2001) as amended, as the quality assurance body for qualifications at Levels 1 – 4 of the National Qualifications Framework (NQF)

(2) The NQF Act, (Act 67) of 2008 as amended, established Umalusi as one of the three Quality Councils responsible for the management and development of qualifications registered on their respective sub-frameworks. In terms of Section 24 of the NQF Act, each Quality Council is required, among other things, to develop policy and criteria to guide processes and protocols for the development of qualifications on its subframework and for registration with the South African Qualifications Authority on the NQF.

(3) The *Articulation Policy for Qualifications in the General and Further Education and Training Qualifications Sub-framework* has been developed in accordance with Section 8(2)(b) of the NQF Act, as amended, which mandates the Minister to determine and publish policy on NQF matters in the gazette. In line with the objectives of the NQF, this Articulation Policy is also issued under Section 27(b) of the NQF Act No. 67 of 2008, as amended, which requires Umalusi to adhere to any policy set by the Minister as outlined in Section 8(2)(b) of the NQF Act.

(4) Umalusi hereby publishes the *Articulation Policy for Qualifications in the General and Further Education and Training Qualifications Sub-framework* as it is applicable to the General and Further Education and Training Qualifications Sub-framework, for implementation.



PROFESSOR YUNUS BALLIM
CHAIRPERSON: UMALUSI COUNCIL
DATE: 25 FEBRUARY 2025

UMALUSI Council for Quality Assurance in General and Further Education and Training

THE ARTICULATION POLICY FOR QUALIFICATIONS IN THE GENERAL AND FURTHER EDUCATION AND TRAINING QUALIFICATIONS SUB-FRAMEWORK

Umalusi

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1. Definitions and glossary

Articulation	Refers to the process of forming systemic, specific, and individual connections between qualifications and/or part-qualifications to allow for the horizontal/lateral, vertical, and diagonal movement of learners through the formal education and training system, as well as its linkages with the world of work. It is used interchangeably with "Learning Pathways." i Horizontal articulation refers to articulation within and between NQF sub-frameworks at the same NQF level; ii. Vertical articulation refers to articulation between NQF levels within an NQF sub-framework; iii. Diagonal articulation refers to articulation between NQF levels and across NQF sub-frameworks; iv. Systemic articulation refers to a 'joined-up' system including qualifications, professional designations, policies, and various other official elements that support learning and career pathways; v. Specific articulation refers to aligning qualifications through inter- or intra-institutional agreements, such as memoranda of understanding, credit accumulation and transfer, and other mechanisms; and vi. Individual articulation refers to supporting learners in their learning and career pathways through flexible admission, curricula, teaching and learning, and learner support systems, such as the quality of qualifications and learning, career development services, and other mechanisms.
Assessment	For the purposes of this policy, assessment refers to the process of identifying, gathering, and interpreting information and evidence against the required competencies in a qualification, part-qualification, or professional designation. This process is used to make a judgement about a learner's achievement, and includes evaluations that lead to such judgements.

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Credit accumulation	Refers to the process of accumulating the necessary credits required to complete a qualification or part-qualification.
Credit Accumulation and Transfer (CAT)	Refers to the process of accumulating credits from one or more cognate learning programmes within a provider and transferring those credits for recognition towards a qualification or part-qualification, either within the same provider or across different providers. CAT is a method of recognising formal learning.
Credit transfer	Refers to the vertical, horizontal, or diagonal movement of credits towards a qualification or part-qualification, either within the same NQF level or across different levels, typically between different programmes, departments, or institutions.
Credits	Refer to the unit of measurement used to quantify the amount of learning in a qualification or part-qualification, where one (1) credit is equivalent to ten (10) notional hours of learning.
Formal learning	Refers to learning that takes place in an organised and structured education or training environment, and is explicitly recognised as part of a formal curriculum.
General Education and Training	Refers to all learning and training curricula that lead to a qualification at Level 1 of the NQF, which is the level below Further Education and Training.
General and Further Education and Training Qualifications Sub-framework (GFETQSF)	Refers to the sub-framework of qualifications on NQF Levels 1-4, developed and managed by the Umalusi Quality Council, as outlined in Sections 4-7 of the *National Qualifications Framework Act (Act No. 67 of 2008)*. The GFETQSF is a sub-system of the NQF that requires co-ordination with the sub-frameworks managed by the Quality Council for Higher Education and the Quality Council for Trades and Occupations (QCTO).
Informal learning	Refers to learning that occurs through daily activities related to paid or unpaid work, family or community life, or leisure. It may also include deliberate self-teaching.
Learner	Refers to any individual, regardless of age, engaged in learning at any level of the NQF and in any provider, work, or social context, including formal, informal, and non-formal learning. This term is used interchangeably with "Student."
Learning pathways	See "Articulation"

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Learning programme	Refers to a structured and purposeful set of learning experiences, including modules/subjects and other learning activities, which contribute to the achievement of specified learning outcomes.
Level descriptors	Refers to a statement that describes the learning achievements expected at a particular level of the NQF. These descriptors provide a broad indication of the types of learning outcomes and assessment criteria suitable for a qualification at that level.
Lifelong learning	Refers to learning that occurs throughout an individual's life, across all contexts—life-wide, life-deep, and lifelong. It encompasses acquiring knowledge, understanding, attitudes, values, and competencies that contribute to personal growth, social and economic well-being, democratic citizenship, cultural identity, and employability.
National Qualifications Framework (NQF)	Refers to the comprehensive ten-level framework and system, approved by the Minister of Higher Education, Science and Innovation, for the classification, co-ordination, registration, publication, and articulation of quality-assured national qualifications and part-qualifications.
Non-formal learning	Refers to planned learning activities that are not specifically aimed at achieving a qualification or part-qualification. It is often associated with learning that enhances workplace practice and may include intentional self-teaching.
NQF Act	Refers to the South African NQF Act No. 67 of 2008, as amended.
Outcomes	Refer to the contextually demonstrated end-products of specific learning processes. These outcomes encompass knowledge, skills, and values, and may be either generic or specific.
Parity of esteem	Refers to assigning equal value and status to qualifications at the same NQF Level, even if they have different routes of study. It is achieved when both qualifications provide equal opportunities for progression to employment and/or further studies.
Part-qualification	Refers to an assessed unit of learning that is registered as a component of a qualification on the NQF.
Qualification	Refers to a registered national qualification.
Recognition of Prior Learning (RPL)	RPL refers to the principles and processes used to make visible, assess, and acknowledge the knowledge and skills a person has acquired informally or non-formally. This

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	process facilitates alternative access and admission, recognition and certification, or further learning and development.
Registered qualification	A qualification listed on the GFETQSF of the NQF by SAQA, in accordance with *Section 13(1)(h)* of the *National Qualifications Framework Act (Act No. 67 of 2008)*.
Student	See "Learner"
Sub-framework of the NQF	Refers to one of the three co-ordinated qualifications sub-frameworks that collectively form the NQF as a single integrated system, namely, the General and Further Education and Training Qualifications Sub-framework (GFETQSF), the Higher Education Qualifications Sub-framework (HEQSF), and the Occupational Qualifications Sub-framework (OQSF).
Umalusi	The Council for Quality Assurance in General and Further Education and Training, established in terms of the *General and Further Education and Training Quality Assurance Act (Act No. 58 of 2001*).

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2. Acronyms and Abbreviations

CAT	Credit Accumulation and Transfer
CHE	Council on Higher Education
DHET	Department of Higher Education and Training
EC	Elementary Certificate
GC	General Certificate
GFETQSF	General and Further Education and Training Qualifications Sub-framework
HEQSF	Higher Education Qualifications Sub-framework
IC	Intermediate Certificate
MoA	Memoranda of Agreement
NC	National Certificate
NLRD	National Learners' Records Database
NQF	National Qualifications Framework
OQSF	Occupational Qualifications Sub-framework
QC	Quality Council
QCTO	Quality Council for Trades and Occupations
RPL	Recognition of Prior Learning
SAQA	South African Qualifications Authority

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THE ARTICULATION POLICY FOR QUALIFICATIONS IN THE GENERAL AND FURTHER EDUCATION AND TRAINING QUALIFICATIONS SUB-FRAMEWORK

3. Preamble

3.1 The National Qualifications Framework (NQF) Act No. 67 of 2008, as amended, establishes the NQF as a comprehensive system for the classification, registration, publication, and articulation of quality-assured national qualifications.

3.2 Articulation is a crucial component of an education and training system, providing a mechanism for enabling learning pathway possibilities that align with the human development skills required in a democratic society. Articulation serves both the needs of individual learners and the broader economy.

3.3 Articulation is achieved through various related policies, processes, and other mechanisms. This policy specifically addresses the relationship between learning pathways, Recognition of Prior Learning (RPL), and Credit Accumulation and Transfer (CAT).

3.4 The South African NQF comprises three articulated NQF Sub-frameworks: the General and Further Education and Training Qualifications Sub-Framework (GFETQSF), the Higher Education Qualifications Sub-Framework (HEQSF), and the Occupational Qualifications Sub-Framework (OQSF). Each of these is overseen by one of three Quality Councils (QCs), that is, the Council for Quality Assurance in General and Further Education and Training (GENFET), known as Umalusi; the Council on Higher Education (CHE); and Quality Council for Trades and Occupations (QCTO). NQF Levels 1-4 encompass general and further education qualifications (including schooling), while NQF Levels 5-10 pertain to higher education. Occupational qualifications are positioned on NQF Levels 1-8. Qualifications on the OQSF overlap with those on the GFETQSF (Levels 1-4) and the HEQSF (Levels 5-8).

3.5 Transitions between different education levels can occur *vertically* (across NQF levels within a Sub-framework), *horizontally* (within an NQF level, either in or across Sub-frameworks, or *diagonally* (across NQF levels *and* Sub-frameworks).

3.6 A well-articulated system is one in which there are connections between its various components. There should be no silos or dead ends. If a student completes a course at one institution and gains the relevant knowledge and skills at the required levels, this should be recognised by other institutions, provided the knowledge gained is sufficient to facilitate epistemological access to the programme(s) the student wishes to enter. Students should be supported in their individual learning and career pathways.

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4. Background

4.1 Umalusi is the QC for General and Further Education and Training, as outlined in the General and Further Education and Training Quality Assurance (GENFETQA) Act No. 58 of 2001, as amended in 2008.

4.2 Within the GFETQSF, RPL and CAT are key mechanisms that facilitate articulation in the national education and training system. CAT refers to the process of accumulating credits from one or more related learning programmes at a provider and transferring these credits for recognition towards a qualification or part-qualification, either at the same provider or a different one. Credits previously earned may be recognised as meeting the requirements for a different qualification, and, subject to identified limits, credits earned towards one qualification may count towards meeting part of the requirements of another qualification. Each credit directly correlates with notional hours required for a qualification or part-qualification, with one credit equivalent to 10 notional hours of learning. Additionally, credit accumulation refers to the total sum of credits necessary to complete a qualification or part-qualification.

4.3 CAT is a mechanism used to promote articulation between qualifications within a sub-framework of the NQF. The primary purpose of CAT is to enhance student mobility and improve their chances of completing qualifications. CAT also supports articulation across the sub-frameworks of the NQF, thereby facilitating lifelong learning and enhancing access to the workplace.

4.4 The relationship between credits accumulated through CAT is determined by research that assesses the degree of overlap and/or equivalence of curricula in the respective qualifications, allowing for credit transfer. Qualifications eligible for CAT may belong to the same or different sub-frameworks.

4.5 RPL processes and CAT are closely linked to assessment practices. Together, they form the mechanisms that support the movement of individuals both within and between completed and incomplete qualifications within the GFETQSF and across other sub-frameworks, as outlined in the NQF Act No. 67 of 2008, as amended.

5. The Purpose of the Policy

5.1 The purpose of the policy is to:

5.1.1 enable the implementation of articulation and strengthen the achievement of the NQF objectives, particularly by:

a) facilitating the mobility and progression of students within the General and Further Education and Training sector and between NQF Sub-frameworks;

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b) ensuring that students are supported in their individual pathways through RPL and CAT when entering higher education; and
c) accelerating the redress of unfair discrimination in education and training, including in the provision of learning and employment opportunities.

5.1.2 create an enabling environment within the General and Further Education and Training sector to ensure*, inter alia*, that:
a) articulation occurs within GFETQSF, between the GFETQSF and the OQSF, and between the GFETQSF and the HEQSF;
b) institutions collaborate to develop learning and career pathways; and
c) support is provided for learners as they follow their individual learning and career pathways.

5.1.3 effect functional articulation within the General and Further Education and Training sector in South Africa, with specific reference to the need to:
a) accelerate access to General and Further Education and Training, as well as career paths;
b) facilitate the mobility and progression of students within the General and Further Education and Training;
c) accelerate the redress of unfair discrimination in the provision of learning opportunities;
d) promote partnerships and collaborations between institutions through the development of, and adherence to, Memoranda of Agreement (MoA) to develop learning pathways and ensure that the learning they offer is linked to these larger pathways; and
e) ensure that students are supported in their individual pathways through articulation mechanisms such as CAT.

6. The Scope and Application of the Articulation Policy

6.1 This policy applies to:
a) all qualifications and part-qualifications registered on the GFETQSF that are designed to articulate with qualifications on the OQSF and/or HEQSF;
b) the specific policies for each qualification or part-qualification on the GFETQSF, as referenced in (a) above, which should be interpreted in relation to this policy; and
c) all public and accredited private institutions of education and training that offer qualifications and part-qualifications on the GFETQSF.

7. Legislative Mandate

7.1 The General and Further Education and Training Quality Assurance Act No. 58 of 2001, as amended, assigns the responsibility for quality assurance in General and

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Further Education and Training in South Africa to Umalusi, the QC for Quality Assurance in General and Further Education and Training. Umalusi was established to uphold norms and standards in General and Further Education and Training. Its mandate includes, among other responsibilities, the following:

7.1.1 developing and maintaining a sub-framework of qualifications for General and Further Education and Training;
7.1.2 quality assurance of all exit-point assessments for these qualifications; and
7.1.3 certification of learner achievements.

7.2 This Articulation Policy is governed by the legislative mandates outlined in the NQF Act No. 67 of 2008, as amended, including any revisions thereto, as well as the GENFETQA Act No. 58 of 2001, as amended.

8. Articulation Policy Principles

The following principles serve as the foundation for implementing articulation within the General and Further Education and Training sector.

8.1 Articulation addresses lifelong learning

Through clear articulation routes, access to lifelong learning should be provided to support holistic personal development and address social, community, and labour market needs. Citizens should have the opportunity to pursue multiple learning pathways to achieve their preferred educational goals. These pathways should enable individuals to work towards their desired learning and career outcomes.

8.2 Articulation should include credible and fair procedures and practices to validate learning

The criteria, procedures, and practices for quality—encompassing the assessment and validation of learning—should be credible, relevant, reliable, fair, and transparent.

8.3 Articulation should be done by design

a) the Post-School Education and Training system should be intentionally articulated, rather than occurring by default. The NQF provides a framework for articulation between and within the three NQF Sub-frameworks. For articulation to be effective, it should be integrated at the systemic, programmatic, and curricular levels. Curriculum design teams within institutions of learning—comprising representatives from employer and industry groups—should develop broad curriculum guidelines on a programme-by-programme basis. They should also engage in curriculum alignment efforts to optimise articulation. Programmes must be designed with horizontal, vertical, and diagonal articulation to ensure they do not lead to dead ends.

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b) progression pathways and articulation must be established during the design of new qualifications or part-qualifications for registration on the NQF, to facilitate the implementation of CAT once these qualifications are in place:
    i. systemic articulation should be ensured by aligning qualification and part-qualification development and implementation with NQF legislation and policy;
    ii. specific articulation should be based on formal agreements within the education and training system, as well as between two or more education and training sub-systems, specific institutional types or institutions, and the NQF Sub-frameworks, following NQF policies, principles, criteria, and guidelines; and
    iii. efforts should be made to support individual learning pathways by optimising diverse and flexible admission and progression processes, such as RPL, CAT, bridging courses, mentoring, and other forms of learner support.

8.4 Articulation is both systemic and specific

a) *systemic articulation* is grounded in legislation, national policies (such as this articulation policy), and formal requirements within the education and training system; and
b) *specific articulation* is based on both formal and informal agreements within the education and training system. This includes agreements between two or more education and training sub-systems, specific qualifications and learning programmes, institutional types, and is guided by policies and accreditation principles.

8.5 Articulation ensures redress, equity, social justice, and inclusiveness

This policy aims to ensure that every individual has the right to access and engage in learning opportunities that meet their personal, economic, and community needs. It seeks to make learning outcomes visible and valued. The policy actively promotes access to, and mobility within, learning opportunities, with a focus on overcoming barriers to access and progression while fostering success.

8.6 Articulation ensures programmatic rather than institutional articulation

The post-school education and training system should be flexible enough to support the movement of learners within and between different types of institutions, with a particular focus on the articulation of qualifications, part-qualifications, and learning programmes.

8.7 Articulation promoting the value of learning outcomes

a) the equal value (parity of esteem) of similar learning outcomes achieved through formal, non-formal, and/or informal learning is a result of a trusted

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and credible quality assurance system and praxis. Competencies assessed and accumulated through non-formal and informal learning should be treated on par with those obtained through formal learning towards achieving a qualification or part-qualification.

b) quality comparison based on credible methods:
   i. must enable adequate comparison mapping, which relies on the availability of the necessary information about accumulated credits—transcripts alone are insufficient;
   ii. should be based on credible methods that assess the extent to which the curriculum content and outcomes align, guided by the NQF Level Descriptors, and in conjunction with the quality standards developed and published by the QCs;
   iii. must consider the purpose, NQF level, and credits of each qualification/part-qualification, as well as the broader application of the qualification/part-qualification within the context for which it was designed, ensuring the validity of the credit content; and
   iv. should evaluate the degree of similarity between the content and outcomes for which credits have already been awarded and those in the qualification/part-qualification for which credits are being sought, ensuring that learners possess the necessary knowledge to succeed in further learning.

8.8 Fairness and transparency

Improved transparency, achieved through more effective communication and clear objectives, is desirable. For example, transparency can be further enhanced by scrutinising appeals processes against shared standards. Increased disclosure and a well-informed understanding of strategies to reduce potential liability should help the public better understand the roles and decisions of General and Further Education and Training institutions regarding articulation. This, in turn, will provide comparative information that supports informed decisions when selecting post-school education and training institutions. Additionally, rules, regulations, and any register of precedents that inform or govern decisions on articulation must be valid, fair, reliable, and transparent.

8.9 Fair procedures

All policies and procedures related to articulation should be clear, easily understood, and readily accessible to learners. These should be made known to learners before enrolment. Relevant, reliable, fair, and transparent criteria, procedures, and practices must be employed for validating learning.

8.10 Specificity

The recognition of credits for transfer between qualifications is determined based on the nature of the qualifications, their relationship to one another, the

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complexity and scope of the curricula related to the subjects for which exemption or inclusion is sought, as well as the nature of the assessment used.

8.11 Parity of esteem of qualifications on the same NQF levels

Parity of esteem among institutions requires the ability and commitment to communicate diplomatically, offer constructive suggestions, refrain from dictating terms, and provide clear justification where articulation cannot be achieved.

8.12 Supplementarity

Where the CAT comparison process identifies overlaps of less than 80% between the content and outcomes for which credits have been awarded and the modules/subjects for which CAT is sought, the relevant recognised provider may choose not to recognise any accumulated credits. In such cases, the provider must offer the candidate clear, practical advice, and guidance on alternative learning pathways.

9. Roles and Responsibilities of the Implementation of Articulation

This section outlines the guidelines that define the roles and responsibilities of various role-players and stakeholders, including the DHET, SAQA, and education and training providers.

9.1 Responsibilities of the DHET

The DHET will be responsible for:

(a) providing an enabling legislative and planning environments for articulation;
(b) developing the policy and guidelines to facilitate articulation across the post-school education and training system;
(c) monitoring and evaluating the implementation of the Minister's articulation policy by the relevant entities, with the goal of further developing and adapting articulation in an evolving post-school education and training system;
(d) providing overall leadership in the implementation of articulation according to the Minister's articulation policy;
(e) collaborating with other government departments to remove outdated policies and legislation that hinder articulation;
(f) considering advice from SAQA and the QCs on all aspects related to the further development and implementation of articulation, ensuring alignment with the objectives of the NQF Act; and
(g) receiving and responding to reports from SAQA and the QCs regarding the implementation of articulation.

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9.2 Responsibilities of SAQA

SAQA will be responsible for:

(a) determining, in terms of Section 13 ((h)(i) and (ii) and after consultation with the QCs, the criteria for articulation, and assessing whether these criteria have been applied in qualifications and part-qualifications submitted to SAQA for registration on the NQF;

(b) ensuring, in consultation with the Minister, that all new qualifications and those submitted for re-registration include statements about articulation. If no articulation possibilities exist, the QCs should provide reasons;

(c) providing leadership to the QCs regarding articulation processes and practices to ensure the creation of an integrated and articulated education and training system;

(d) providing annual reports to the Minister, after consultation with the QCs, on the implementation of articulation across the education and training system;

(e) resolving, in terms of Section 13(1)(a), (b), (e), and (f) of the NQF Act, as amended, any systemic challenges and incongruities, addressing deficiencies to ensure a well-articulated system that links its various parts;

(f) advising the Minister, where necessary, on potential amendments to legislation or the publication of regulations; and

(g) co-ordinating the work of the QCs to ensure that articulation conflicts are eliminated or effectively managed.

9.3 Responsibilities of Umalusi

Umalusi will be responsible for:

(a) collaborating with SAQA, on a date agreed upon in consultation with the Minister, to review all current qualifications and ensure they include clear articulation routes. If articulation is not possible, reasons should be provided;

(b) ensuring, in terms of Section 27 (h)(iii) and (iv) of the NQF Act, as amended, that all new qualifications and part-qualifications submitted to SAQA for registration contain clear articulation routes and determined statements on how articulation can be practically achieved. Where articulation is not possible, reasons should be provided;

(c) working towards simplifying the NQF by controlling the proliferation of institutional qualifications submitted for registration, aiming for more generic qualifications that support curriculum comparability based on NQF level descriptors, while allowing for some diversification of content;

(d) supporting General and Further Education and Training institutions in developing and implementing new progressive access, articulation, and CAT policies;

(e) identifying and eliminating dead ends in learning pathways for learners as they arise;

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(f) working directly with accredited education and training providers to ensure that they have, and are implementing, fair and credible articulation policies in line with this policy and its guidelines;
(g) collaborating with other QCs to identify opportunities for articulation and CAT; and
(h) supporting and monitoring the implementation of this policy.

9.4 Responsibilities of education and training providers

Education and training providers will be responsible for the following:
(a) adhering to the principles and responsibilities outlined in this policy;
(b) ensuring that their institutional policies enable articulation and are aligned with the Minister's Articulation Policy *["The Articulation Policy for the Post-School Education and Training System of South Africa (2017)"*], as well as with SAQA and Umalusi's articulation policies for qualifications within the GFETQSF;
(c) providing career advice services that include guidance on career pathways and articulation routes;
(d) promoting and implementing articulation, RPL, and CAT within the institution;
(e) where relevant, establishing inter-institutional partnerships and agreements that facilitate vertical, lateral, or diagonal articulation of qualifications and part-qualifications. These agreements will be guided by, and dependent on, principles of parity of esteem;
(f) ensuring that learning and career pathway opportunities are included in inter- and intra-institutional collaborative partnerships;
(g) providing timely, appropriate, and ongoing advice on articulation to learners, and offering support to those pursuing articulation opportunities;
(h) regularly reflecting on and reviewing their institutional articulation policies and practices, including obtaining and considering learner feedback on their experiences;
(i) ensuring that learners have access to, and are familiar with, institutional articulation policies, and are supported in utilising articulation routes when needed. Regular feedback should be gathered from learners on the efficacy of the articulation process;
(j) developing mechanisms to monitor the implementation of articulation and ensuring that exclusionary practices relating to articulation are avoided; and
(k) maintaining and submitting articulation-related records that are compatible with the data categories required for the National Learners' Records Database (NLRD).

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10. Policy Guidelines

10.1 Introductory Statements

10.1.1 the NQF Act No. 67 of 2008 established Umalusi as a Quality Council for General and Further Education and Training, as provided for in its founding legislation, the GENFETQA Act No. 58 of 2001, as amended. Umalusi is responsible for quality-assuring qualifications at NQF Levels 1–4 and developing policies to support these qualifications.

10.1.2 the *Articulation Policy for Qualifications in the General and Further Education and Training Qualifications Sub-framework* has been developed in accordance with Section 8(2)(b) of the NQF Act, as amended, which mandates the Minister to determine and publish policy on NQF matters in the gazette. In line with the objectives of the NQF, this articulation policy is also issued under Section 27(b) of the NQF Act No. 67 of 2008, as amended, which requires Umalusi to adhere to any policy set by the Minister as outlined in Section 8(2)(b) of the NQF Act.

10.1.3 this policy serves as the key mechanism for implementing the NQF objectives, which are to:

(a) establish a unified national framework for recognising learning achievements;
(b) promote access, mobility, and progression within education, training, and career paths;
(c) improve the quality of education and training; and
(d) expedite the redress of past unfair discrimination in education, training, and employment opportunities.

10.1.4 as a key mechanism, articulation plays a vital role in building a fully articulated education system that aligns with the human development skills needed in a democratic society.

10.1.5 articulation includes related policies such as RPL and CAT. It is a fundamental component of the education and training system.

10.1.6 Umalusi will collaborate with other sub-frameworks and education institutions to establish pathways between vocational or occupational programmes and academic programmes, promoting articulation and ensuring that learners do not encounter dead ends.

10.1.7 ensuring the articulation of qualifications or part-qualifications is a key priority for the Department of Education, SAQA, and the QCs.

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10.2 Regulatory Framework

10.2.1 this policy should be read in the context of the following legislative frameworks, policies, and documents that support the need for improved articulation:

a) the GENFETQA Act No. 58 of 2001, as amended in 2008;
b) the NQF Act No. 67 of 2008, as amended;
c) the Articulation Policy for the Post-School Education and Training System of South Africa;
d) the GFETQSF Policy;
e) Umalusi's Policy for the Management of Qualifications in the GFETQSF;
f) Umalusi's Policy and Criteria for the Development, Registration, and Publication of Qualifications for GFETQSF;
g) SAQA's Policy and Criteria for CAT within the NQF;
h) SAQA's Policy and Criteria for the Implementation of RPL;
i) Umalusi's Policy and Criteria for CAT;
j) Umalusi's Policy for the Implementation of RPL in the GFETQSF;
k) the Policy on Articulation into and within Higher Education;
l) the SAQA Principles of Articulation;
m) the White Paper for Post-school Education and Training: Building an Expanded, Effective, and Integrated Post-School System;
n) the National Development Plan (NDP); and
o) this policy is further informed by the following published SAQA Policies: *Policy and Criteria for the Registration of Qualifications and Part-Qualifications on the National Qualifications Framework* and *Policy for Implementing Recognition of Prior Learning in the Context of the National Qualifications Framework.*

10.3 Guiding Statements

a) the policy will apply nationally to all articulation arrangements by recognised education and training providers;
b) the legislative mandate provided by the NQF Act and the *Articulation Policy for the Post-School Education and Training System of South Africa* has been used to develop and gazette this policy;
c) articulation can be understood in various ways, including:
    i. joined-up qualifications and part-qualifications.
    ii. inter-institutional arrangements, such as curriculum alignment, Memoranda of Understanding, and CAT.
    iii. flexible institutions that support learners as they follow their pathways.
d) articulation must contribute to students' improved success beyond simply providing access to institutions and/or learning programmes;

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e) articulation arrangements must be equally accessible and beneficial to students entering courses and/or programmes of study with credit transfer, as well as those entering directly without credits for prior learning;
f) the act of recognising and transferring credit implies the acceptance of a course in place of a course offered at the receiving institution, or in place of an institutional or programme requirement. This means that the course from which the learner applies for transfer does not have to be identical to the course for which transfer credit is granted;
g) articulation must be by design rather than by default; and
h) Umalusi will ensure that qualifications and part-qualifications submitted to SAQA for recommendation for registration indicate articulation routes that underpin learning and career pathways.

11 Implementation and Review

a) Umalusi is the custodian of this policy, while the implementation of articulation is the responsibility of the institutions. This includes both inter- and intra-institutional articulation within education and training institutions. These institutions will carry out extensive advocacy and communication efforts to inform learners about the various learning pathway opportunities available;
b) consideration should be given to establishing standardised admission requirements for similar learning pathways and lifelong learning categories;
c) this policy shall become effective on the date of its publication by Umalusi;
d) the policy will be reviewed every five years, or earlier if deemed necessary; and
e) any comments or feedback regarding this policy should be submitted to Umalusi via the following email address: info@umalusi.org.za.

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RELATIONSHIP OF THE GFETQSF WITH OTHER SUB-FRAMEWORKS

NQF Sub-Framework/ Quality Council	NQF Level	NQF Sub-Framework and Qualification Type		NQF Sub-Framework/ Quality Council
Higher Education Qualifications Sub-Framework (HEQSF) Council on Higher Education (CHE)	10	Doctoral Degree Doctoral Degree (Professional)		
	9	Master's Degree Master's Degree (Professional)		
	8	Bachelor Honours Degree Postgraduate Diploma Bachelor's Degree	Specialised Occupational Diploma	Occupational Qualifications Sub-Framework (OQSF) Quality Council for Trades and Occupations (QCTO)
	7	Bachelor's Degree Advanced Diploma	Advanced Occupational Diploma	
	6	Diploma Advanced Certificate	Occupational Diploma Advanced Occupational Certificate	
	5	Higher Certificate	Higher Occupational Certificate	
General and Further Education and Training Qualifications Sub-Framework (GFETQSF) Umalusi	4	National Certificate	National Occupational Certificate	
	3	Intermediate Certificate	Intermediate Occupational Certificate	
	2	Elementary Certificate	Elementary Occupational Certificate	
	1	General Certificate	General Occupational Certificate	

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DEPARTMENT OF TRADE, INDUSTRY AND COMPETITION

NOTICE 3111 OF 2025

COMPETITION TRIBUNAL

Notification of Exemption Appeal

The Competition Tribunal gives notice in terms of Rule 38(6) of the Rules for the Conduct of Proceedings in the Competition Tribunal, that on 21 February 2025 it received a notice of appeal in terms of section 10(8) of the Competition Act (89 of 1998) ("the Act") from the Board of Healthcare Funders NPC ("the BHF"). The BHF is appealing against the Competition Commission's decision refusing to exempt it from the application of Chapter 2 of the Competition Act (89 of 1998) for a period of five years.

(Case number EA169Feb25)

The Chairperson
Competition Tribunal

COMPETITION TRIBUNAL

Notification of Exemption Appeal

The Competition Tribunal gives notice in terms of Rule 38(6) of the Rules for the Conduct of Proceedings in the Competition Tribunal, that on 3 March 2025 it received a notice of appeal in terms of section 10(8) of the Competition Act (89 of 1998) ("the Act") from the Commercial Producers Association of South Africa and the Association for Communication and Advertising NPC ("the Appellants"). The Appellants are appealing against the Competition Commission's decision granting an exemption submitted by the South African Guild of Actors NPC and the Personal Managers Association NPC in the application of Chapter 2 of the Competition Act (89 of 1998) for a period of five years.

(Case number EA185Mar25)

The Chairperson
Competition Tribunal

DEPARTMENT OF TRADE, INDUSTRY AND COMPETITION

NOTICE 3112 OF 2025

COMPETITION TRIBUNAL
NOTIFICATION OF DECISION TO APPROVE MERGER

The Competition Tribunal gives notice in terms of rules 34(b)(ii) and 35(5)(b)(ii) of the "Rules for the conduct of proceedings in the Competition Tribunal" as published in Government Gazette No. 22025 of 01 February 2001 that it approved the following mergers:

Case No.	Acquiring Firm	Target Firm	Date of Order	Decision
LM144Jan25	Amandlamanzi Resources (Pty) Ltd	Mylotex (Pty) Ltd (In Business Rescue)	03/03/2025	Approved Subject to Conditions
LM150Jan25	Old Mutual Life Assurance Company (South Africa) Ltd	Guardrisk Life	04/03/2025	Approved
LM154Jan25	AMKA Products (Pty) Ltd	The Wellbeing Segment	04/03/2025	Approved
LM136Dec24	Pepkor Trading	Choice Clothing	05/03/2025	Approved
LM148Jan25	FPG Holdings (Pty) Ltd	Shoprite Checkers (Pty) Ltd	05/03/2025	Approved
LM137Dec24	Bidvest Branded Products Holdings (Pty) Ltd	LK Plating Services (Pty) Ltd	05/03/2025	Approved Subject to Conditions
LM103Oct24	Slip Knot Investments 777 (Pty) Ltd	Sanlam Insurance Ltd	12/03/2025	Approved
LM145Jan25	Novus Holdings Ltd	Mustek Ltd	14/03/2025	Approved Subject to Conditions
LM140Dec24	Adnock International Germany Holding AG	Covestro AG	14/03/2025	Approved
LM146Jan25	Education Investment Impact Fund of South Africa (Pty) Ltd	Acudeo Kirkney (Pty) Ltd and Others	14/03/2025	Approved
LM147Jan25	Pick n Pay Retailers (Pty) Ltd	Plumstead Family Store	14/03/2025	Approved Subject to Conditions

The Chairperson Competition Tribunal

BOARD NOTICE 764 OF 2025

NATIONAL HOME BUILDERS REGISTRATION COUNCIL

THE WITHDRAWAL OF REGISTRATION OF A HOME BUILDER IN TERMS OF THE HOUSING CONSUMERS PROTECTION MEASURES ACT 1998 (ACT NO. 95 OF 1998)

In terms of Section 11(1) of the Housing Consumers Protection Measures Act No. 95 of 1998 ("the Act"), the National Home Builders Registration Council ("NHBRC") may withdraw the registration of a home builder where the home builder has been found guilty by the Disciplinary Committee.

Further, in terms of Regulation 6(6) of the Regulations Regarding NHBRC Disciplinary Proceedings No. 1409, the NHBRC must publish the name of a home builder whose registration has been withdrawn by the Disciplinary Committee in terms of section 11(1) of the Act, the names and identity numbers of the directors, members, trustees, or partners and the reasons for the withdrawal of registration. In light of the Protection of Personal Information Act No. 4 of 2013 (“POPI Act”), the names and identity numbers of the directors, members, trustees, or partners of the home builders have been withheld to protect the personal information of the said persons.

Therefore, the NHBRC hereby publish the particulars of home builders whose registration have been withdrawn by the Disciplinary Committee as stated in the Schedule hereto.



Tamlyn Bouwer
Acting Chief Executive Officer

Date: 20 March 2025

SCHEDULE

WITHDRAWAL OF REGISTRATION OF HOME BUILDERS

LIST OF HOME BUILDERS WHOSE REGISTRATION HAVE BEEN WITHDRAWN BY THE DISCIPLINARY COMMITTEE

	Name of Home Builder	Registration Number	Name and Identity Numbers of Directors, Members, Trustees or Partners	Contravention/ Reason for Withdrawal	Date of Hearing	Date of Withdrawal by the Disciplinary Committee
1.	NTS Construction and Civils (Pty) Ltd	4000000918	Withheld due to POPI Act	Failure to Rectify Defects	17 September 2024	23 September 2024
2.	Daan Moses	7128	Withheld due to POPI Act	NHBRC Technical Requirements	19 September 2024	19 September 2024
3.	Homely Property and BNB (Pty) Ltd	3000257401	Withheld due to POPI Act	Code of Conduct for Home Builders	20 November 2024	20 November 2024
4.	Stabonta Investments (Pty) Ltd	136705468	Withheld due to POPI Act	Commencement of Construction prior to Enrolment of a Home	04 December 2024	06 December 2024

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BOARD NOTICE 765 OF 2025

This Board Notice is effective as from 1 April 2025

SOUTH AFRICAN COUNCIL FOR NATURAL SCIENTIFIC PROFESSIONS

FEE STRUCTURE FOR 2025/2026

The South African Council for Natural Scientific Professions herewith retracts all Board Notices regarding the fee structure as published in Government Gazette.

1. NOTES

(a) "**application fee"** means the fee payable on submission of an application for registration. A fee is payable for each field of practice for which registration is requested and is not refundable, should an application not be successful.

(b) **"annual fee"** means the fee payable by the registered person within 60 days from the date on which he/she is informed (in writing) that his/her annual fee has become payable. Annual fees will become payable on the 1st of April of every year.

(c) **"qualifications assessment fee"** must be paid for evaluation of qualifications for registration purposes.

(d) **"re-instatement fee"** means the fee payable on submission of an application to reinstate a registration. A fee is payable for each field of practice for which re-instatement is required.

(e) **"appeal fee"** means the fee payable in terms of Section 25(1) of the Act when a person lodges a complaint against a Council decision.

2. FEES

Table 1: Annual Fees

Category/Type	2025/26 Fees
Professional	**R 1,840**
Certificated	**R 1,160**
Candidate	**R 590**
Pensioners	**R 360**

Table 2: Registration Fees

Category/Type	2025/26 Fees
Application Fee	**R 2,460**
Application Fee - **Candidate only**	**R 630**
Critical Skills visa fee	**R 5,200**
Upgrading fee	**R 1,950**
Reinstatement fee - **Professional**	**R 4,690**
Reinstatement fee - **Certificated**	**R 3,350**
Reinstatement fee - **Candidate**	**R 1,780**
Qualification assessment fee	**R 3,160**
Appeal fee	**R 3,260**

BOARD NOTICE 766 OF 2025

INTEGRITY I PUBLIC INTEREST I AUDIT QUALITY

BOARD NOTICE

CALL FOR NOMINATIONS TO SERVE ON THE IRBA'S EDUCATION, TRAINING AND PROFESSIONAL DEVELOPMENT COMMITTEE (EDCOM) APPOINTMENT OF TWO MEMBERS

The Independent Regulatory Board for Auditors (IRBA) is a statutory body established in terms of Section 3 of the Auditing Profession Act (Act No. 26 of 2005), as amended.

In terms of Section 20(2)(c) of the Auditing Profession Act, No. 26 of 2005, the IRBA Board must establish an education, training and professional development committee.

The duties of the EDCOM include making recommendations to the Board regarding the:

- Accreditation and monitoring of professional bodies,
- Requirements relating to continued education, training and professional development,
- Training and professional competency requirements,
- Registration of RAs where an assessment of their competence is required
- Objectives of transformation in the profession and
- Education and research relating to matters affecting the auditing profession.

The IRBA hereby calls for nominations for **two members** onto the EDCOM. In making its decision on who should serve on EDCOM, the IRBA shall consider, among others, the following:

- Independence in mind, fact and appearance.
- Qualifications.
- Professional affiliations.
- Skills and experience.
- Race and gender.

Applicants are required to have experience and interest in the field of education, training and the professional development of professional accountants and auditors.

EDCOM requires members who have experience in one or more of the following areas:

- Accreditation and monitoring of professional bodies/organisations;
- Training management experience at an auditing firm;
- Educational psychology;
- Professional development in a corporate role;
- Professional development in other industries;

- Strategic knowledge and experience; and
- Transformation strategy implementation.

In addition, the following experience is required for this appointment:

- One member with experience in academia, preferably an individual with experience in delivery of the ACCA academic programme; and
- One member from an auditing firm, with experience in the training and development of RAs, preferably a firm with trainees registered on the ACCA programme or with experience and exposure to trainees from both ACCA and SAICA.

A member of EDCOM, appointed in terms of Section 20(2)(c) of the Act, will hold office for a period not exceeding three years and may be reappointed. However, members may not serve more than two consecutive terms of office.

Eligible persons who meet the criteria, and who wish to be considered for appointment, are invited to submit their applications by email to:

Nadine Kater
Director: Education and Transformation
Independent Regulatory Board for Auditors
E-mail: nkater@irba.co.za and **cc mmoola@irba.co.za**
Tel: +27 10 496 0594

Each application must include a **curriculum vitae** detailing the applicant's knowledge, experience and suitability as a committee member and a **completed nomination form**, which can be downloaded from the IRBA website at Committee application/nomination form. Please include a copy of your **highest qualification** with your application as well.

After the closing date, applications that meet the criteria set out above will be evaluated for the final decision to be made by the IRBA Board, subject to background checks.

The closing date for applications is 14 April 2025.

(Subject to extension if the required membership is not fulfilled)

Nadine Kater

Director: Education and Transformation

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