INDEPENDENT COMMUNICATIONS AUTHORITY OF SOUTH AFRICA NOTICE 636 OF 2019



THE ELECTRONIC COMMUNICATIONS ACT 2005, (ACT NO. 36 OF 2005)

NOTICE INVITING COMMENTS REGARDING THE DRAFT RADIO FREQUENCY SPECTRUM ASSIGNMENT PLAN FOR THE FREQUENCY BAND 470 TO 694 MHz FOR DIRECT MIGRATION FROM ANALOGUE TELEVISION AND THE RELEASE OF THE BAND 694 TO 862 MHz

1. The Independent Communications Authority of South Africa ("the Authority"), hereby publishes the **Draft Radio Frequency Spectrum Assignment Plan for the frequency band 470 to 694 MHz for public consultation** in terms of sections 30, read with sections 2 (d), 2 (e), 4, 30, 31(4), and 33 of the Electronic Communications Act (Act No. 36 of 2005), read with the Terrestrial Broadcasting Frequency Plan 2013, published in Government Gazette number 36321 (Notice 298 of 2013), the Update to the Terrestrial Broadcasting Frequency Plan, published in Government Gazette Number 38005 (Notice 801 of 2014), Regulation 3 of the Radio Frequency Spectrum Regulations 2015 and the IMT Roadmap 2019.

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- 2. The goal of RFSAP is to implement the provisions as detailed in regulation 9 of the Radio Frequency Spectrum Assignment Plan published in Government Gazette 38640 (Notices 271, 272, 273 and 274 of 2015).
- 3. This Draft Radio Frequency Spectrum Assignment Plan will supersede any previous radio spectrum assignment arrangements for the same spectrum location once finalised.
- 4. Interested persons are hereby invited to submit written representations, including an electronic version of the representation in Microsoft Word, of their views on the draft Radio Frequency Spectrum Assignment Plan for the frequency band 470 to 694 MHz for public consultation by no later than 16h00 on Friday 31 January 2020. The Authority may conduct public hearings.
- 5. Written representations or enquiries may be directed to:

The Independent Communications Authority of South Africa (ICASA)

350 Witch-Hazel Avenue

Eco Point Business Park

Eco Park

Centurion

or

Private Bag X10

Highveld Park

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Attention:

Mr Manyaapelo Richard Makgotlho

e-mail: rmakgotlho@icasa.org.za

6. All written representations submitted to the Authority pursuant to this notice shall be made available for inspection by interested persons from 04 February 2020 at the ICASA Library or website and copies of such representations and documents will be obtainable on payment of a fee.

- 7. Where persons making representations require that their representation, or part thereof, be treated confidentially, then an application in terms of section 4D of the Independent Communications Authority of South Africa Act, 2000 (Act No. 13 of 2000) must be lodged with the Authority outlining reasons why such information should be treated as confidential in line with the provisions of section 4D (4) (a) to (e). Such an application must be submitted simultaneously with the representation on the draft regulations and plan. Respondents are requested to separate any confidential material into a clearly marked confidential annexure. If, however, the request for confidentiality is refused, the person making the request will be allowed to withdraw the representation or document in question.
- 8. The guidelines for confidentiality request are contained in Government Gazette Number 41839 (Notice 849 of 2018).

DR. KEABETSWE MODIMOENG

ACTING CHAIRPERSON



Draft Radio Frequency Spectrum Assignment Plan

Rules for Services operating in the Frequency Band from 470 to 694 MHz

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1. Glossary

In this Radio Frequency Spectrum Assignment Plan, terms used shall have the same meaning as in the Electronic Communications Act 2005 (no. 36 of 2005); unless the context indicates otherwise;

"Act" means the Electronic Communications Act, 2005 (Act No. 36 of 2005) as

amended

Administration means Members States of the International Telecommunications Union.

means Digital Terrestrial Television

"DTT"

"DVB-T2" means Digital Video Broadcasting – Second Generation Terrestrial

"IMT" means International Mobile Telecommunications

"ITA" means Invitation to Apply

"ITU" means the International Telecommunication Union

"ITU-R" means the International Telecommunication Union Radiocommunication

Sector

"NRFP" means the National Radio Frequency Plan 2013 for South Africa

"PCI" means Physical-Layer Cell Identities

"RFSAP" means Radio Frequency Spectrum Assignment Plan

"SFN" means Single Frequency Networks

"WRC-12" means World Radio Conference 2012 held in Geneva

"WRC-15" means the World Radio Conference 2015 held in Geneva

2. About

- 2.1 The Authority published the Terrestrial Broadcasting Frequency Plan 2013, in Government Gazette number 36321 (Notice 298 of 2013) on 02 April 2013 in terms of Sections 4(2) (b) and 30(1).
- 2.2 This draft Radio Frequency Spectrum Assignment Plan is to be read in conjunction with the National Radio Frequency Plan 2018 and the Radio Frequency Migration Plan 2019.

- 2.3 The Authority on 16 September 2014, further published the update to the Terrestrial Broadcasting Frequency Plan in Government Gazette 38005 (Notice 801 of 2014).
- This Draft Radio Frequency Spectrum Assignment Plan ("RFSAP") is published for the purposes of adding further detail to the assignment of broadcasting frequencies, with a specific emphasis on frequencies that have been coordinated within the Southern Development Community ("SADC") and notified to the International Telecommunications Union Radiocommunications ("ITU-R"). The Digital Terrestrial Television assignments have met the conformance Requirements of the Geneva Agreement of 2006 ("GE-06") and have been notified to the ITU-R Master International Frequency Register ("MIFR").
- 2.5 The aim of Draft RFSAP is to enable the implementation of the Single Frequency Network ("SFN") Assignments in Annexure J of the update to the Terrestrial Broadcasting Frequency Plan in the Government Gazette Number 38005 (Notice 801 of 2014) for the Digital Terrestrial Television ("DTT") Multiplexes one (1) and two (2) to ensure an expedited television analogue switch off in order to enable the early release of the IMT700 and IMT800.

3. Purpose

- 3.1 The purpose of this Draft RFSAP is:
- 3.1.1 to provide a plan for the phased approach in implementing the analogue television switch-off onto Digital Terrestrial Television through an SFN;
- 3.1.2 to implement the Transitional arrangements provisions set out in regulation 9 of the Radio Frequency Spectrum Assignment Plan published in Government Gazette 38640 (Notices 271, 272, 273 and 274 of 2015);
- 3.1.3 to provide information on the requirements attached to the use of a frequency band in line with the allocation and other information in the latest version of the National Radio Frequency Plan ("NRFP");
- 3.1.4 to provide information on technical characteristics of radio systems, frequency channelling, coordination and details on required migration of existing users of the band and the expected method of assignment;
- 3.1.5 to provide the requirements necessary for the utilisation of the frequency band between 470 to 694 MHz for DTT in order to release frequencies in the band 694 to 860 MHz for IMT immediately after analogue television switch-off in the affected areas;
- 3.1.6 to ensure that alignment of Annexure J of the Terrestrial Broadcasting Plan 2013, as with the notified frequencies of the ITU-R MIFR. The aim being to emphasise the ITU's recognition that stated that MT systems which are mobile systems that provide access to a wide range of telecommunication services including advanced mobile services, supported by mobile and fixed networks, which are increasingly packet-based; and
- 3.1.7 to speed-up the process to release 694 to 854 MHz for IMT as the Authority has decided on the early availability of the IMT700 and IMT800. The RFSAP is being consulted on to enable for immediate availability of the band 470 to 694 MHz at the time of analogue switch-off.
- 3.2 The key features of this RFSAP are:
- a high degree of commonality of functionality worldwide while retaining the flexibility to support a wide range of services and applications in a cost-efficient manner;
- 3.2.2 compatibility of services within IMT and with fixed broadcast networks;
- 3.2.3 capability of interworking with other radio access systems;

- 3.2.4 high quality DTT services;
- 3.2.5 user equipment suitable for worldwide use;
- 3.2.6 user-friendly applications, services and equipment; and
- 3.2.7 allow for the most efficient use of the spectrum using the DVB-T2 technology together with SFN networks.

4. General

- 4.1 South Africa adopted the DVB-T2 broadcast transmission standard for implementation. This said standard is a DVB European-based Consortium standard adopted by the ITU and its radio Regulations.
- 4.2 All installations to be used for purposes of transmission with the said standard must comply with safety rules as specified in applicable standards.
- 4.3 A further requirement will be that any equipment that will be used for purposes of transmission with the said standard shall be required to obtain certification under South African laws and Regulations.
- 4.4 The assignment of the frequency band 470 to 694 MHz and the channel arrangement as outlined in the Terrestrial Broadcasting Frequency Plan, 2013 Annexure J as updated in 2014, provides that the Terrestrial Broadcast Frequency Plan, 2013 does not allow for a direct migration from analogue to digital television but rather for a two-stage process which will first allow analogue television to be transmitted in parallel with DTT and thereafter there will be a restacking process of frequencies to release the digital dividend (694 to 854 MHz);
- 4.5 The said plan has however been overtaken by events since the deadline for analogue switch-off passed on 17 June 2015, furthermore, the analogue and digital assignments above 694 MHz are no longer protected and have been suppressed from the ITU-R MIFR.
- 4.6 In order to eliminate interference to existing analogue transmissions during the dual illumination period there will be frequency changes required to DTT frequencies within the band 470 to 694 MHz before analogue switch-off.
- Analogue switch-off also applies to Analogue Terrestrial Broadcast Self-Help stations ("Self-Help stations") which, in most cases, will have to migrate to Direct To Home (DTH) as there will not be DTT available in these areas including the provisions for Self-Help stations.

 Analogue switch-off for Self-Help stations shall be implemented in accordance with the provisions in section 2.4 on Self-Help stations in the Terrestrial Broadcasting Frequency Plan, 2013.
- 4.8 The requirement for the migration of Studio Transmitter Links within the 800 MHz band need to migrate immediately out of the band as per Terrestrial Broadcast Frequency Plan, 2013 and the NFRP 2018.

- 4.9 The Authority has managed the Liquid Telecom assignments in the bands 827.775 832.695 MHz paired with 872.775 877.695 MHz in order to ensure migration destination band through the publication on 29 March 2019, in Government Gazette: 42337 (Notice Number 165 of 2019). This guard band might not be adequate to resolve all interferences and additional filtering might be required depending on the deployment situation.
- 4.10 The Authority has studied SFN's which are registered with the ITU in the Radiocommunications Bureau (BR) International Frequency Information Circular (BRIFIC) database and noticed that numerous of them similar to the size of SFN's in the South African BRIFIC entries such as for instance:
- 4.11 The United Kingdom

In the United Kingdom, there are several SFN assignments that exceed 200 km.

4.12 Spain

In Spain, there are numerous SFN assignments that exceed 300 km in size.

4.13 France

In France, there are several SFN assignments that exceed the Gauteng SFN size.

4.14 Italy

In Italy, there are numerous SFN assignments that exceed 300 km.

4.15 Portugal

In Portugal, there is one national SFN for the whole country.

4.16 The Authority extracted and analysed the SFN's which are registered with the ITU in the BRIFIC database and noticed that many of them are similar to the size of SFN's in the South African BRIFIC entries. An example of these entries is attached as **Appendix E**.

4.17 The benchmark revealed that there are much larger SFN entries in the ITU-R MIFR as compared to the South African entries, such as those of Italy, United Kingdom, Spain, Portugal and numerous other countries that have implemented SFNs. The RFSAP allows for a guard band of 9 MHz above 694 MHz to limit possible interference between IMT 700 and the DTT services in accordance with footnote 5.296 and Resolution 235 (WRC-15) of the ITU Radio Regulations edition 2016.

5. ITU Recommendations, Resolutions and Reports

The ITU-R Recommendations constitute a set of international technical standards developed by the Radiocommunication Sector (formerly CCIR) of the ITU. They are the result of studies undertaken by Radiocommunication Study Groups on:

- 5.1 the use of a vast range of wireless services, including popular new mobile communication technologies:
- 5.2 the management of the radio-frequency spectrum and satellite orbits;
- 5.3 the efficient use of the radio-frequency spectrum by all radiocommunication services;
- 5.4 terrestrial and satellite radiocommunication broadcasting;
- 5.5 radio wave propagation;
- 5.6 systems and networks for the fixed-satellite service, for the fixed service and the mobile service;
- 5.7 space operation, Earth exploration-satellite, meteorological-satellite and radio astronomy services.
- 5.8 The ITU has provided Recommendations, Resolutions and Reports with respect to the utilisation of band 470 690 for purposes of advising Administrations the planning criteria, including protection ratios, for various methods of providing second generation digital terrestrial television broadcasting (DTTB) systems in the VHF/UHF bands as follows:
- 5.8.1 Recommendation ITU-R M.2012-1 (02/2014): Detailed specifications of the terrestrial radio interfaces of International Mobile Telecommunications-Advanced (IMT Advanced);
- 5.8.2 Report ITU-R2241-0 Compatibility studies in relation to Resolution 224 in the bands 698-806 MHz and 790-862 MHz;

- 5.8.3 Report ITU-R M.2074: Report on Radio Aspects for the terrestrial component of IMT-2000 and systems beyond IMT-2000;
- 5.8.4 Recommendation ITU-R M.1645 Framework and overall objectives of the future development of IMT-2000 and systems beyond IMT-2000;
- 5.8.5 Resolution 235 (WRC-15);
- 5.8.6 Resolution 5.549 (WRC-15);
- 5.8.7 The ITU Radio Regulations (RR), Provision Number 5.1.2 of the Geneva 2006 (GE06) Agreement, and the World Radiocommunications Conference (WRC) Resolution 224-4, Resolution 232 (WRC-12) and the results of activities undertaken by the within ITU Region 1 (African Region);
- 5.8.8 Recommendation ITU-R M.2090-0 incorporated by reference into the ITU Radio Regulations by WRC 15 with key emphasis on specific unwanted emission limit of International Mobile Telecommunication (IMT) mobile stations operating in the frequency band 694-790 MHz to facilitate the protection of existing services in the ITU Region 1 in the frequency band 470-694 MHz;
- 5.8.9 Recommendation ITU R M.1036-5 incorporated by reference into the ITU Radio Regulations by WRC 15 dealing with the lower duplexer of the Frequency arrangement A5 in Recommendation ITU R M.1036 (i.e. uplink in 703-733 MHz) and a maximum output power of 23 dBm, to provide for a nine (9) MHz guard band between Broadcasting and IMT; and
- 5.8.10 ITU Report ITU-R BT.2339-0, incorporated by reference into the ITU Radio Regulations by WRC 15, with respect to co-channel sharing and compatibility studies between digital terrestrial television broadcasting and IMT in the frequency band 694-790 MHz in the GE06 planning area were studied and ITU-R Reports was developed in this respect.

6. Transmit Configuration for DVB-T2

6.1 The DTT Frequency Plan in Annexure J of the Terrestrial Broadcasting Plan 2013, is designed with the Transmit Configuration for DVB-T2 (Fixed Reception). The Terrestrial DTT Frequency Plan which was developed for South Africa is based on the following transmit configuration:

Technology:	DVB-T2
Constellation:	256 QAM
FEC/Code Rate:	3/5
Guard Interval	1/8
Location Probability:	95%
FFT size	32Ke
Block length	64800
Effective minimum usable field strength (CH21):	49.873 dBuV/m
Capacity	30.01Mb/s
Pilot Pattern	PP2

- 6.2 This transmit configuration is the most optimum transition configuration preferred. However, if the guard interval is smaller than the specified GI, this will lead to self-interference in the network. The Authority therefore emphasise that the transmission parameters should comply to the specified transmission configuration above even though 3 Mbit/s may be compromised.
- 6.3 The following transmit configuration or similar is possible, however, caution should apply as self-interference may result on the network thus making the SFN(s) unimplementable. See below said transmit configuration:

Constellation:	256 QAM
FEC/Code Rate:	3/5
Guard Interval	1/16
Location Probability:	95%
FFT size	32Ke
Block length	64800

Effective minimum usable field strength (CH21): 49.375 dBuV/m

Capacity 33.27 Mb/s

Pilot Pattern PP4

- 7. Radio Frequency Spectrum Assignment Plan to clear the IMT 700 and IMT 800 spectrum of the Broadcasting Services after analogue television switch-off.
- 7.1 The Terrestrial Television Broadcasting Frequencies as registered and Coordinated with ITU and South Africa's six (6) neighbouring countries in accordance with the GE-06 Agreement. Further, South Africa's current DTT frequency plan is also registered with the ITU in accordance with the Geneva 06 and coordinated with South Africa's six (6) neighbouring countries.
- 7.2 The Terrestrial Television Plan contains 1257 frequencies for DTT implementation in the band 470 MHz to 694 MHz. This plan is commonly known as the seven (7) MUX plan since it provides for the deployment of seven multiplexes per transmission point I n an 8 MHz channels per province as per the diagram below. The Figures and maps below summarise the construction of the 7 MUX plan and the multiplex group combinations in the respective provinces.

No.	Group 1	Group 2	Group 3	Group 4
1	CH21	CH22	CH23	CH24
2	CH25	CH26	CH27	CH28
3	CH29	CH30	CH31	CH32
4	CH33	CH34	CH35	CH36
5	CH37	CH38	CH39	CH40
6	CH41	CH42	CH43	CH44
7	CH45	CH46	CH47	CH48

Figure 1

MUX	NC1	NC2	NW	LP1	LP2	MP	KZN	GP	wc	EC	FS
MX1	3 (CH23)	4 (CH24)	2 (CH22)	1 (CH21)	2 (CH22)	3 (CH23)	2 (CH22)	4 (CH24)	1 (CH21)	3 (CH23)	1 (CH21)
MX2	3 (CH27)	4 (CH28)	2 (CH26)	1 (CH25)	2 (CH26)	3 (CH27)	2 (CH26)	4 (CH28)	1 (CH25)	3 (CH27)	1 (CH25)
MX3	3 (CH31)	4 (CH32)	2 (CH30)	1 (CH29)	2 (CH30)	3 (CH31)	2 (CH30)	4 (CH32)	1 (CH29)	3 (CH31)	1 (CH29)
MX4	3 (CH35)	4 (CH36)	2 (CH34)	1 (CH33)	2 (CH34)	3 (CH35)	2 (CH34)	4 (CH36)	1 (CH33)	3 (CH35)	1 (CH33)
MX5	3 (CH39)	4 (CH40)	2 (CH38)	3 (CH39)	1 (CH37)	2 (CH38)	4 (CH40)	4 (CH40)	1 (CH37)	2 (CH38)	1 (CH37)
MX6	3 (CH43)	4 (CH44)	2 (CH42)	3 (CH43)	1 (CH41)	2 (CH42)	3 (CH43)	4 (CH44)	1 (CH41)	2 (CH42)	1 (CH41)
MX7	3 (CH47)	4 (CH48)	2 (CH46)	3 (CH47)	1 (CH45)	2 (CH46)	3 (CH47)	4 (CH48)	1 (CH45)	2 (CH46)	1 (CH45)

Figure 2

- 7.3 It should be noted that the frequency assignments were slightly distorted to reduce interference to broadcasting service licensees in other countries.
- 7.4 The Terrestrial Television Plan also allowed for eSwatini (Kingdom of) and Lesotho (Kingdom of) to be included in the Digital Frequency Network (DFN) structure. In contrasts, the conventional Multi Frequency Network (MFN) frequency plan approach would have provided only a maximum of four (4) national multiplexes for South Africa.
- 7.5 The maps below indicate the respective SFN's per province on a national basis and the channels that will be used per province. Theoretically it is also possible to create a national country wide SFN which would have created 28 national SFN's each offering an 8 MHz channel. The plan as it currently stands can be further expanded to include localised MFN services per site as and where required.

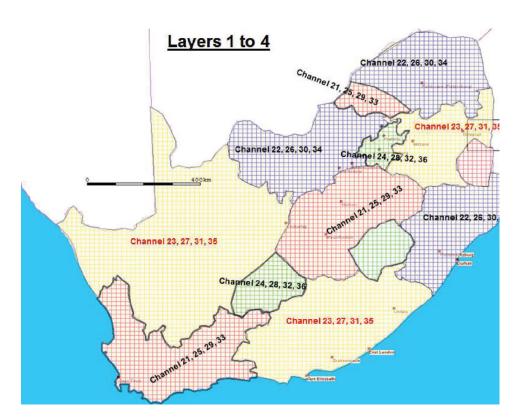


Figure 3

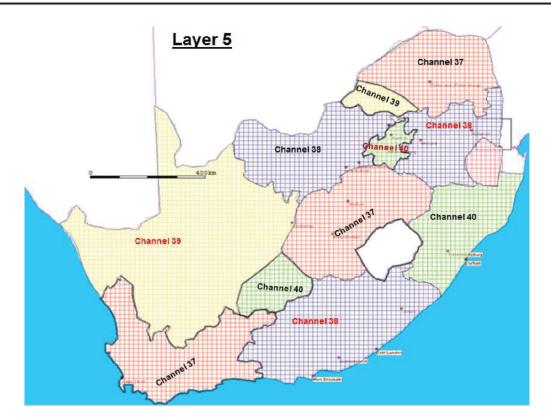


Figure 4

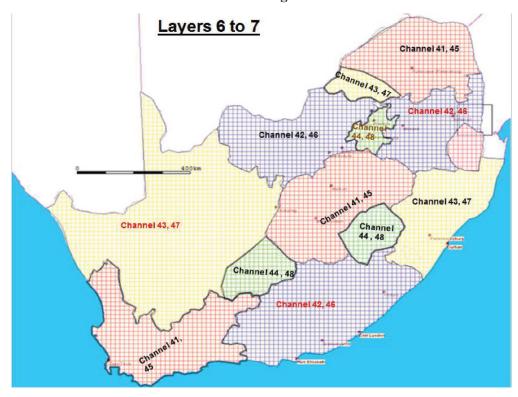


Figure 5

- The current plan for Analogue Switch Off (ASO) is to launch DTT on a MFN thus compelling a second migration phase before being able to release IMT700 and IMT800 spectrum. This approach also implies an extended dual illumination phase (where analogue and digital television operational in the band 470 MHz to 860 MHz) before releasing the IMT spectrum after the second migration phase and ASO.
- 7.7 It is currently envisaged that all analogue services will be switched off by 2020 after which the restacking process (anticipated to require an additional two (2) years) will start to fully release IMT700 and IMT800 spectrum by around 2022.
- 7.8 Whereas the Authority initially developed the coordinated 7MUX frequency plan for South Africa it now intends to develop an implementation strategy for this plan whereby the ASO process can be accelerated to ensure the earliest possible release of Dividend 1 and Dividend 2 spectrum for IMT use
- 7.9 The purpose of this approach is to describe and offer the compilation of this accelerated digital deployment and ASO plan. The scenario where the Guard Interval is smaller than the specified Guard Interval will lead to self-interference in the network. This RFSAP therefore emphasise that the transmission parameters must comply with the above specified transmission configuration. This is to ensure the envisaged optimised implementation of the DTT Plan in Annexure A and Annexure B is realised within the envisage immediate implementation.

8. Re-Alignment of DTT Multiplexes

- After analogue switch-off the operational frequencies will be re-aligned in accordance with Annexure J of the Terrestrial Broadcasting Plan 2013, as amended. In order to ensure re-alignment from analogue television switch to SFN, Annexure J of the Terrestrial Broadcasting Plan 2013, as amended, has been revised into **Annexure A** and **Annexure B** of this RFSAP.
- 8.2 To create a plan with the least possible interference the large SFN's were broken up into smaller SFN's in some provinces. In **Annexure A** and **Annexure B**.
- 8.3 The Freq (MHz) and CH are the frequency and associated channel number at which the service shall be implemented in transitional phase to ensure that the IMT 700 and IMT 800 frequencies

- can immediately be released after analogue switch-off. The Transitional Phase is the time period taken to Switch Analogue Frequencies directly to the Digital Single Frequency Network (SFN).
- 8.4 In the transitional phase there are no DTT assignments above 694 MHz. The final phase includes the frequencies and its associated final channel numbers which the station will operate in the provincial SFN network. The envisaged analogue switch-off dates per province to ensure the release IMT700 and IMT 800 frequencies are as follows:

Item	Province	Frequency Migration to channel below 694 MHz	Analogue Switch-off Date
1	Free State	Phase 1 Starts	Phase 1 Ends
		(0 Month)	(4 Months)
2	Northern Cape	Phase 2 starts	Phase 2 Ends
	•	(2 Months)	(4 Months)
3	Limpopo Province	Phase 3 Starts	Phase 3 Ends
	• •	(2 Months)	(4 Months)
4	North West	Phase 4 Starts	Phase 4 Ends
		(2 Months)	(4 Months)
5	Mpumalanga	Phase 5 Starts	Phase 5 Ends
		(2 Months)	(4 Months
6	Gauteng	Phase 6 Starts	Phase 6 Ends
	-	(2 Months)	(4 Months)
7	Western Cape	Phase 7 Starts	Phase 7 Ends
	_	(2 Months)	(4 Months)
8	Kwa-Zulu Natal	Phase 8 Starts	Phase 8 Ends
		(2 Months)	(4 Months)
9	Eastern Cape	Phase 9 Starts	Phase 9 Ends
	•	(2 Months)	(4 Months)

NB: The timelines are to be adjusted in accordance with the Policy imperatives and the representations from Industry based on a workable plan.

- 8.5 The Authority aim that the IMT700 and IMT800 shall be clear from the broadcaster by end of the first semester of 2021.
- 8.6 The main advantages of changing all Multi- Frequency Network (MFN) DTT assignments below CH49 Single Frequency Network (SFN) before starting the analogue switch-off are as following:

- 8.6.1 the first migration of all analogue stations interfered with by DTT stations can be initiated These transmitter stations affected is included in Appendix E;
- 8.6.2 South Africa can then initiate the migration of all Digital Dividend 1 ("DD1") analogue transmitters to Digital in order to clear the DD1 dividend (790 to 860 MHz);
- 8.6.3 South Africa can then initiate the migration all Digital Dividend 2 ("DD2") analogue transmitters to Digital in order to clear the DD2 dividend (694 to 790 MHz); and
- 8.6.4 broadcasting service licensees can then migrate all analogue TV services in the band (470 to 694 MHz) at a pace that will not impact negatively on the broadcasters.

9. Requirements for usage of Radio Frequency Spectrum

- 9.1 This section covers the minimum key characteristics considered necessary to make the best use of the available frequencies.
- 9.2 The use of the 470 TO 694 MHz Frequency band is limited for DTT services and only systems using digital technologies that promote spectral efficiency will be issued with an assignment. Capacity enhancing digital techniques are being rapidly developed and such techniques that promote efficient use of spectrum, without reducing quality of service are encouraged. In some cases, a radio system conforming to the requirements of this RFSAP may require modifications if harmful interference is caused to other radio stations or systems.
- 9.3 The allocation of spectrum and shared services within these bands are found in the NRFP and an extract of NRFP 2018 is shown in **Appendix A**.
- 9.4 While the maximum radiated power to be allowed is contained in Annexure A and Annexure B of this RFSAP.
- 9.5 In some cases, a radio system conforming to the requirements of this RFSAP may require modifications if harmful interference occurs.
- 9.6 The interference analysis results for digital on analogue transmission during the transitional phase are shown in Annexure C.
- 9.7 Lastly, Criteria and guidelines for interference mitigation are dealt by Joint Spectrum Advisory Group, established in terms of the Digital Migration Regulations, 2012.

10. Implementation

- 10.1 This RFSAP will come into effect upon publication in the Government Gazette
- 10.2 No new assignment in the frequency range 470 to 694 MHz shall be approved unless they comply with this RFSAP.
- The propagation model for use in contained in ITU-R Recommendation P.1546.

11. Co-ordination Requirements

All the frequencies used in this RFSAP have been coordinated and the assignment which have been included in the ITU-R BRIFIC database. All the frequencies used in this RFSAP are either coordinated or fall outside the coordination contour of the assignment which is registered in the BRIFIC ITU database. All coordination has been performed in line with the Geneva 2006 Agreement (GE06).

12. Assignment

The assignments in this frequency band are made in accordance with the procedure for Standard Applications in line with regulation 5 of the Radio Frequency Spectrum Regulations 2015, as amended.

13. Amendment

Existing Radio Frequency Spectrum Licences must be amended within the timelines in section 9 of this RFSAP, in accordance with regulation 9 of the Radio Frequency Spectrum Regulations 2015, as amended, read with regulation 12 (3) of the Digital Migration Regulations published in the Government Gazette Number 36000 (Notice 1070 of 2012).

14. Radio Frequency Migration

- 14.1 Specific Procedure
- Radio Frequency Spectrum Licensees in this band shall migrate in accordance with phases in Annexure A and Annexure B in line with timelines indicated in Section 9 of this RFSAP.
- 14.3 Affected licensees are to apply for an amendment of their spectrum licences where applicable.

Appendix A National Radio Frequency Plan

ITU Region 1 allocations and footnotes	South African allocations and footnotes	Typical Applications	Notes and Comments
470-694 MHz	470-694 MHz		
BROADCASTING	BROADCASTING RADIO ASTRONOMY 5.304	DTT Broadcasting (470-694 MHz)	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 W/W Applague
		(606 – 614 MHz)	2013. Band IV/V Analogue television is to be migrated
		SAP/SAB Applications	to digital television and ensure harmonisation with SADC. The use of 'White
			Spaces' in this band is under consideration
			(subject to Non Interference Non
			Protection basis to users
			under a primary allocation).470 - 606 MHz, max. 50 mW ERP
5.149 5.291A 5.294 5.296 5.300 5.304 5.306 5.311A 5.312	5.149 5.311A		606 - 614 MHz, max. 50 mW ERP

Appendix B Interference Resolution Process

When requesting coordination, the relevant characteristics of the base station and the code or PCI group number should be forwarded to the Administration that is members States of the ITU affected. All of the following characteristics should be Included:

- a) carrier frequency [MHz];
- b) name of transmitter station;
- c) country of location of transmitter station;
- d) geographical coordinates [latitude, longitude];

- e) effective antenna height [m];
- f) antenna polarisation;
- g) antenna azimuth [deg];
- h) antenna gain [dBd];
- i) effective radiated power [dBW];
- j) expected coverage zone or radius [km];
- k) date of entry into service [month, year];
- 1) code group number used; and
- m) antenna tilt [deg].

The Administration affected shall evaluate the request for coordination and shall within 30 days notify the result of the evaluation to the Administration requesting coordination. If in the course of the coordination procedure the Administration affected requires additional information, it may request such information.

If in the course of the coordination procedure, an Administration may request additional information.

If no reply is received by the Administration requesting coordination within 30 days, it may send a reminder to the Administration affected. An Administration not having responded within 30 days following communication of the reminder shall be deemed to have given its consent and the code co-ordination may be put into use with the characteristics given in the request for coordination.

The periods mentioned above may be extended by common consent.

Appendix C Interference cases per province

DTT frequencies selected from 7 Mux plan to minimize interference on existing analogue. See sections on frequency assignments/allotments.

Easter Cape CH 46 - MUX 1

Interference Herschel CH46 SBC3 - Confirm "on air" Consider Herschel as priority area for Analogue Switch-off

Sterkspruit - Large power difference on adjacent channel 47 - ensure same TX power levels - This will resolve the interference

Aliwal North Goedemoed - Co-Channel on CH46 - switch over to satellite reception

Eastern Cape CH 35- MUX2

Despatch Adjacent Channel with Despatch CH34 - slight interference - ensure same transmission power - This will resolve the interference

Barkley East co-channel CH 35 - slight interference - Increase the power on SBC1 Transmitter with 6 dB to overcome interference

Northern Cape CH31 - MUX 2

No interference predicted

Northern Cape CH24 & CH27 MUX 1

No interference predicted

Western Cape CH33 & CH38 MUX1

No Interference predicted

Western Cape CH29 MUX2

Graafwater interfered by Piketberg - Graafwater Self-help viewers to migrate to satellite immediately

Northern Province Mux 1 & 2 Area A

No interference CH21 & CH33

Northern Province Mux 1 Area B CH26

No Interference

Northern Province Mux 2 Area B CH30

No Interference

Mpumalanga Mux1 CH35

Slight Interference Davel etv CH34 on outskirts (complementary coverage available) and Steelpoort Legobo SBC3 Self-Help

Mpumalanga Mux 2 CH31

Light interference in Davel CH30 Coverage (SABC1)

North West Mux 1 CH34

No interference problems

North West Mux 2 CH46

No interference problems - Mux2 split not required

Gauteng Mux 1 CH 36

No interference predicted

Gauteng Mux 2 CH 44

There is some interference on the Potgietersrus etv transmission on CH44 near Nylstroom. Pretoria etv CH29 offer Complementary Coverage. Prioritize analogue switch-off in Potgietersrus coverage area near Nylstroom

KwaZulu-Natal Mux 1 CH 30

Interference on Maqabaqabeni SBC3 CH30 - Confirm "on air" If "On Air" treat as priority area for Analogue "switch off"

KwaZulu-Natal Mux 2 CH 40

No Interference

Free State Mux 1 CH21

Koffiefontein (CH21) SBC1, Phillipolis (CH21) SBC2, Marquard (CH21) SBC1, Manguzi (CH21) SBC1.

Free State Mux 2 CH25

Grootvlei Eskom (CH25) SBC2, Marquard (CH25) SBC1, Manguzi (CH25) SBC1.

Population in areas where interference is possible

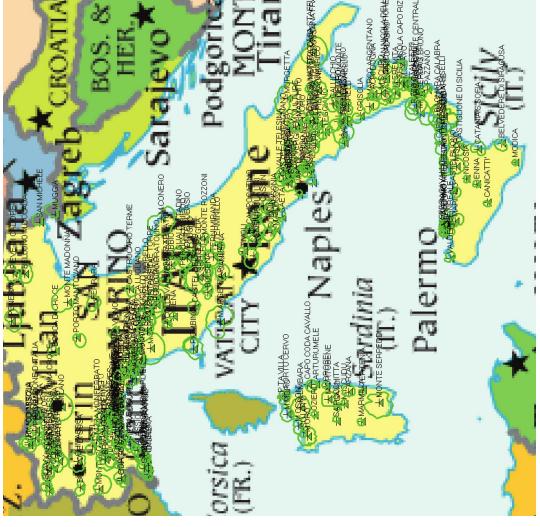
Item	Program	People located in area	Percentage people located in area
1	etv	56 724	0.10%
2	SABC1	260921	0.45%
3	SABC2	58305	0.10%
4	SABC3	96122	0.17%

Important remarks

Figures above reflects the maximum number of people located in the areas where interference is possible. Population figures do not include households that already migrated to DTT or DTH (indication is that 60%).

of television viewers already migrated to DTH or DTT). Most viewers affected will experience slight interference on analogue TV program. As such, Special efforts should be made to migrate affected viewers and others to DTT & DTH as soon as possible to avoid interference. Emphasis should be placed on migration of analogue television viewers who experience interference and where the frequency is transmitted above the 694 MHz to release the spectrum for IMT.

Appendix F Example of SFN Frequencies included in the ITU BRIFIC for Italy: Channel 26 with 230 SFN Transmitter Stations



(MHz)	+	44 46 46 46 46	1-1	10 0	028°48'31.000' 028°48'31.000'		-30°50°11.000° -31°37°15.000°	ECE	ΞН		94 94 9
MOUNT AYLIFF	_	674 46 498 24 674 46	\perp	Ť	2007124000	1 -1	10000	3	;	100	46
NGOELENI	1	Н		1	2007	٠.	0007/000	EC	>	1	7.
NOUPOORT	1 "	Н	L	10	024°56′01.000′	÷	.31°18'14.000"	EC	Н	EC1	46
+			-	0.05	024°49'43.000'		.33°45'37.000"	EC	>	EC1	46
PAUL SAUER DAM		674 46	1	1.0	024°33'43.000" 025°26'29.000"	-	33°45'13.000"	EC	> 1	EC1	46
ΤΥ		H	Ц	2 0	025°35'31.000"	+	33~55'28.000"	EC	>	EC1	46
+		674 46	4	10	329°31'39.000'	-	31°36'39.000"	EC	H	EC1	46
SOMERSET EAST		+	+	5	025°34'41.000'	-	32°42'45,000"	EC	: >	EC1	46
H		674 46	⊢	8	027°16'14.000'	+	30°41'44 000"	EC	>	EC1	46
		Н	Ц	10	029°50'53.000'		30°20'49.000"	EC	>	EC1	46
RG		+	4		025°34'29.000'	_	.33°14'55.000"	EC	H	EC1	46
		+	4	Ť	027°58'26.000'	_	-31°11'28.000"	EC	> ;	EC1	46
WILLOWMORE		674 46	+	2 -	723°27'36 000'	' - '	33*14'05 000"	H 2	I I	EC E	46
П				50	026°34'00.000'	+	30°47'05.000"	EC	н	EC1	46
T	O.	674 46	Н	0.1	024°42'35.000'	-	33°46'42.000"	EC	Λ	EC1	46
BARKLY EAST 6	V IO	674 46	4	0.5	027°26'00.000'	-1 -	-30°51'30.000"	EC	> :	EC1	46
ВЪ		+	+	1.	126 02 37 .000	4.	-31-00002 000"	7 7	u 2	171	40
	O) IC	+	+	10	028-12/25.000	_	32°16'35.000"	EC	н	EC1	46
		674 46	Ц	20	027°45'02.000"		31°33'15.000"	EC	Λ	EC1	46
+		+	5	20	025°32'27.000'	-	32°18'01.000"	EC	н	EC1	46
DESPATCH		674 46	4	Ť	025°25'29.000'	 -	-33°45'53.000"	EC	> ;	EC1	46
_			ļ.	3 00	028-07-10 000	-	30°47'44 000"	J. D.	G II	ECI	46
		H	L	ĭ	028°00'34.000"	-	-31°39'20.000"	EC	>	EC1	46
NGO	v	674 46	~	50	028°40'10.000'	-	.32°08'39.000"	EC	>	EC1	46
		+	4	Ĭ	024°27′04.000′		-32°04'44.000"	EC	Н	EC1	46
GRAHAMSTOWN		+	_		026°42'31.000"		-33°17'15.000"	EC	H	EC1	46
HOLY CROSS		674 46	+	30	029°38'25.000"		-31°07'56.000"	2 2	> >	EC1	46
Н		674 46	~	2	024°25'48.000'		.34°01'29.000"	EC	Н	EC1	46
KING WILLIAMS TOWN	-	674 46	4	Ĭ	027°15'36.000'		32°40'44.000"	EC	Н	EC1	46
K IRK WOOD ELL IOT		674 46 674 46	_	0.1	325°26'53.000" 327°51'57.000"		33°23'22.000"	EC	> >	ECI	46
PETRUS STEYN	1	474 21	Н	20	028°19'06.000'	-	27°30'51.000"	FS	Н	FS1	21
SENEKAL		474 21	\sqcup	10	027°30'26.000'	-	28°15'19.000"	FS	Н	FS1	21
SPRINGFONTEIN	"	+	+	Ĭ	025°46'08.000	_	30°16′14.000″	FS	Н	FS1	21
THEINISSEN	. 1 .	546 30	+	325	02/*14'16.000"	_	28-11-55-000"	FS	> 1	FSI	21
WITSESHOEK	1.1	+	1-	10	028~50'49.000	1	28°31'04.000"	FS	: >	FS1	21
ВЕТНІЕНЕМ	, " I	474 21	Н	Н	028°29'58.000'	-	-28°14'10.000"	FS	Н	FS1	21
BLOEMFONTEIN	4 1	474 21		_	026*13'50.000'	-	29°06'13.000"	FS	Ξ:	FSI	21
B OESMA NSK OP		4/4 21		10	02/*12/55.000	-	30-00'28'000"	FS	= >	FSI	21
2		474 21		: 5	000.7212.720	4	28 2 5 3 5 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	F. 2	> >	F21	21
TAD		474 21	+		027°11'10.000'	'	27°25'16.000"	FS	· =	FS1	21
_		+	╀	T	027°22'42.000'	+	29°10'18.000"	FS	Ξ	FS1	21
DEWETSDORP	1 "	474 21	0	0.01	026°39'37.000'	-	29°34'44.000"	FS	Λ	FS1	21
MONDEOR	l''I	594 36	Н	Ŭ	027°59'37.000"	-	-26°16'54.000"	GP	Λ	GP1	36
MULBARTON		594 36	Н	0.03	028°03'56.000'		26°17'36.000"	СЪ	Λ	GP1	36
DETABLA	- '	┪	9	70 0	027°59'03.000'		25°41'20.000"	G	Н	GP1	36
LIONIA	ļ	594 36	_	ĺ		÷	25°41'25 000"	ę	;	1	:
PRETORIA NORTH	1	t	1	5	028°10'07.000'	4	1123.000	3	>	GP1	36
SUNNY SIDE	1	\vdash	11	$\overline{}$)28°10'07.000)28°12'24.000)77°14'55.000		25°45'53.000"	3 6 6	> > ¤	GP 19	36
RETORIA NORTH SUNNY SIDE WELV ERDIEND BEZ VALLEY	1				028°10'07.000' 028°12'24.000' 027°14'55.000' 028°05'04.000'		-25 41 25 000 -25°45'53.000" -26°26'47.000" -26°11'41.000"	5 5 5	> > H >	GP1 GP1 GP1	36 36 36

Freq.	594	594	594	594	746	240	546	546	546	246	546	546	546	546	546	246	546	546	546	546	546	246	546	546	546	546	246	546	474	514	514	474	514	514	514	14	514	586	586	586	586	286	586	586	586	586	586	586	586	522
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SFN Id	GP1	GP1	GP1	GP1	KZ1	K21	KZ1	KZ1	KZ1	KZ1	KZ1	KZ1	KZ1	KZ1	KZ1	K21	KZ1	KZ1	KZ1	KZ1	KZ1	K 7.1	KZ1	KZ1	KZ1	KZ1	N.2.1	KZ1	LP1A	LP 1B	LP1B	LP1A	LP1B LP1B	LP1B	LP1B	LP1B	LPIB	MP1	MP1	MP1	MP1	MP1	MP1	MP1	MP1	MP1	MP1	MP1	MP1	NC1A
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Longitude	027°51'32.000'	028°00'26.000'	_	-	029°52'04'000'	029°5/'12.000'	030°40'42 000'	++	-	39'00.000"	-		031°00'45.000'	032°04'52.000'	031°23'38.000'	031-02/19:000	029°51'19.000'	-	031°53'31.000'	031°17'37.000'	029°51'56.000'	730-321000	030°36'48.000'	030°13'52.000'	_	029°47'19.000'	731916/32 000	_	028°25'59.000'	029°14'10.000'	030°26'54.000'	027°36'51.000'	030°00'17.000'	030°15'09.000'	028°27'29.000"	-	030°31'42 000'	++	-	030°46'33.000'	030°41'03.000'	120-12-51-000	' ' ' '	-	330°37'57.000'		030°11'17.000'	030°26'04.000"	-	118°56'75 000'
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Freq.	594	594	594	594	246	240	546	674	546	859	546	546	546	650	546	246	546	546	578	546	546	740 740	546	546	546	546	040	546	474	514	514	474	514	514	514	514	514	586	586	286	586	286	610	586	586	610	586	586	586	522
TX-Name	HELDERKRUIN	JOH ANNE SB URG	LINMEYER	MENLO PARK	MOOI RIVER	NEWCASTLE	NOUTU	OVERPORT	PIETERMA RITZB URG	PONGOLA	PORT SHEP STONE	QUDENI	THE BLUFF	UBOMBO	ULUNDI	VERULAM	DONNYBROOK	DURBAN	EMPANGENI	ESHOWE	ESTCOURT	GLENCOE	GREYTOWNDORP	HOWICK	KOKSTAD	LADY SMITH	LOSNOF	MATATIELE	NYLSTROOM	POTGIETERSRUS	SBASA	THABAZIMBI	GABA	MALAMBA	TOLWE	DZAMBA	TSHA MAVUDZI	HOEDSPRUIT	MIDDELBURG	NELSPRUIT	PIET RETIEF	STANDERTON	VOLK SRUST	BURGERSFORT	CAROLINA	DAVEL	DULLSTROOM	LYDENBURG	MBUZINI	POFADDER
DIT	DVB-T2	DVB-T2	DVB-T2	DVB-T2	DVB-T2	DVB-TZ	DVB-T2	DVB-T2	DVB-T2	DVB-T2	DVB-T2	DVB-T2	DVB-T2	DVB-T2	DVB-T2	DVB-TZ	DVB-T2	DVB-T2	DVB-T2	DVB-T2	DVB-T2	DVB-12	DVB-T2	DVB-T2	DVB-T2	DVB-T2	71-d VU	DVB-T2	DVB-T2	DVB-T2	DVB-T2	DVB-T2	DVB-T2 DVB-T2	DVB-T2	DVB-12	DVB-T2	DVB-T2	DVB-T2	DVB-T2	DVB-T2	DVB-T2	DVB-T2	DVB-T2							
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586 35 59 0.0219-120.000 28-25-256.000 NC H 498 35 0.1 0.2019-120.000 28-32-256.000 NC H 498 34 0.5 0.21-31.20.000 28-32-125.000 NC H 522 27 0.1 0.02-39-10.000 28-32-125.000 NC H 522 27 0.1 0.02-39-10.000 28-32-125.000 NC H 626 40 50 0.02-39-10.000 28-32-125.000 NC H 626 40 50 0.02-39-10.000 28-32-125.000 NC H 626 40 50 0.02-39-10.000 28-32-10.000 NC H 626 40 50 0.02-39-10.000 28-32-10.000 NC H 626 40 50 0.02-39-10.000 28-32-10.000 NC H 627 40 20 0.02-39-10.000 28-32-10.000 NC H 70 4	DTT		TX-Name	Freq.	СН	ERP (KW)	Longitude	Latitude	Province	Pol	SFN Id	СН	Freq.
386 35 0.4 0012/31/320.000 319/31/15.000 NC H 522 27 0.1 002/31/320.000 319/31/15.000 NC H 522 27 0.1 1016/31/31.000 NC H 408 2.4 0.5 0.023/31/30.000 319/31/30.00 NC H 408 2.4 0.5 0.023/31/30.000 319/31/30.00 NC H 408 2.4 0.5 0.023/31/40.000 20.000 NC H 410 2.7 10 0.023/31/40.000 20.000 NC H 470 2.7 10 0.023/31/40.000 20.000 NC H 470 3.4 10 0.024/40.000 20.000 NC H 578 3.4 10 0.024/40.000 20.000 NC H 578 3.4 10 0.024/40.000 20.000 NC H 578 3.4 10 0.024/40.000		UPI	UPINGTON	586	35	50	021°44'12.000"	-28°52'56.000"		н	NC1A	27	522
25.2 27 0.1 0.0257808.0007.2319.0000 237.2410.000 N.C. H 25.2 27 0.1 0.0672908.0007.2312.0000 N.C. H 48.8 2.2 2.7 0.1 0.0672908.0007.2312.0000 N.C. H 48.8 2.2 2.7 0.1 0.0257808.0007.2372.0000 N.C. H 52.2 2.7 0.1 0.0257808.0007.2372.0000 N.C. H 52.2 2.7 0.1 0.0257808.0007.2372.0000 N.C. H 52.2 2.7 0.0 0.0257808.0007.2372.0000 N.C. H 52.2 2.7 0.0 0.025780.000 N.C. H 52.2 2.7 0.0 0.0257818.000 2.0 H 57.8 3.4 0.0 0.027818.000 2.0 H H 57.8 3.4 1.0 0.027918.000 2.0 H H 57.8 3.4 1.0 0.027918.000 2.27920.000 N.W.	4	UPINGI	UPINGTON TOWN	586	35	0.4	021°12'00.000"	-28°30′25.000″	\perp	> ;	NC1A	27	522
2.2. 2.7. 0.1 0.62-294-0.00C-28-3-67-2.000 N.C. V. 4.52 2.7. 0.1 0.62-294-0.00C-28-3-67-2.000 N.C. V. 4.52 2.7 1.0 0.92-45-0.00C-30-27-49-0.00 N.C. V. 4.52 2.7 1.0 0.92-59-0.00C-30-27-49-0.00 N.C. V. 5.22 2.7 1.0 0.92-59-0.00C-30-27-49-0.00 N.C. H. 5.22 2.7 1.0 0.92-59-0.00C-30-27-49-0.00 N.C. H. 5.72 2.7 1.0 0.92-51-0.00C-30-27-49-0.00 N.C. H. 5.72 2.7 1.0 0.92-51-0.00C-30-27-49-0.00 N.C. H. 5.72 2.7 1.0 0.92-51-0.00C-30-27-49-0.00 N.C. H. 5.78 3.4 1.0 0.92-51-0.00C-32-31-0.00 N.C. H. 5.78 3.4 1.0 0.02-51-0.00C-32-31-0.00 N.C. H. 5.78 3.4 1.0 0.02-51-0.00C-32-31-0.00 N.C. H.	DVB-T2 VICTO	VICTO	RIA WEST	498	24	0.5	023°13'50.000"	-31°41′15.000″	NC	ΗП	NCIB	24	498
522 27 10 0199465700C 4312303000 NC H 498 24 65 025°946500C 43024000 NC H 522 27 10 023°3149 000 29°0414 000 NC H 522 27 20 023°5416 000 23°2749 000 NC H 572 27 20 023°5416 000 22°3414 000 NC H 573 34 5 023°41840 000 22°31450 000 NC H 578 34 10 024°4955 000 22°3450 000 NC H 578 34 10 024°4955 000 22°3450 000 NW H 578 34 10 024°4955 000 22°3450 000 NW H 578 34 10 024°4955 000 22°3450 000 NW H 578 34 10 024°4955 000 22°3450 000 NW H 578 34 10 024°4955 000 22°3450 000 NW H 578 34 10 024°4955 000 22°3450 000		ALFXA	NDFR BAY	222	27	0.1	020 33 08.000	1000 68.98.36	N.	: A	NC1A	77	522
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625 40 50 032537149 (0007-3027949) (0007 NC H 522 27 50 0187-0443 (0007-2027914) (0007 NC H 522 27 50 0187-0443 (0007-2027911) (0007) NC H 572 27 50 0187-0443 (0007-202791) (0007) NC H 578 34 1 025-5213 (0007-202791) (0007) NC H 578 34 1 025-5214 (0007-202791) (0007) NC H 578 34 1 025-32444 (0007-202791) (0007 NC H 578 34 1 025-4380 (0007-202791) (0007-20170) (0007-20170) NC H 578 34 1 026-480 (0007-2007-20070) (0007-0007) (0007-0007-0007) NW H 578 34 10 026-280 (0007-20070) (0007-0007-0007) (0007-0007-0007) NW H 578 34 10 026-280 (0007-20000-0007-0007-0007-0007-0007-000	-	COL	COLESBERG	498	24	0.5	025°03'28.000"	-30°42'30.000"	NC	^	NC1B	24	498
522 27 10 0.25.3179.00 23.414.00 NC H 578 24 5 0.82.5179.00 22.9119.00 NC H 578 34 5 0.82.5178.00 NC H 578 34 1 0.25.5218.00 22.915.00 NC H 578 34 1 0.25.5218.00 22.945.00 NC H 578 34 10 0.84942.00 0.25.4175.00 NC H 578 34 10 0.84942.00 0.25.4175.00 NW H 578 34 10 0.25.9179.00 22.945.00 NW H 578 34 10 0.26.9179.00 22.9479.00	DVB-T2 DI		DE AAR	626	40	50	023 59'16.000"	-30°27'49.000"	NC.	Η:	NC1B	24	498
474 21 68 024°5419.000°0.28°5114.00°0 NC H 578 34 5 022°3218.00°0.27°52113.00°0 NC H D 578 34 1 0 023°3244.00°0.27°52113.00°0 NC H D 578 34 10 023°3244.00°0.27°52113.00°0 NC H D 578 34 20 027°0706.00°0.24°47.20 NW H H 578 34 10 023°3244.00°0.25°276.50 NW H H 578 34 10 023°344.00°0.25°276.50 NW H H 578 34 10 023°344.00 20°2°5170.00°0 NW H H 578 34 10 023°344.00 20°2°5170.00°0 NW H H 578 34 10 024°3570.00°0 23°371.00°0 NW H H 578 34 10 024°3570.00°0 23°371.00°0 NW H H <td></td> <td>00</td> <td>UGLAS</td> <td>277</td> <td>77</td> <td>01 05</td> <td>023-31-49.000</td> <td>-29-04'14.000" -30°18'52 000"</td> <td>N Z</td> <td>= =</td> <td>NC1A</td> <td>27</td> <td>522</td>		00	UGLAS	277	77	01 05	023-31-49.000	-29-04'14.000" -30°18'52 000"	N Z	= =	NC1A	27	522
578 34 5 022°1849 000 27°2105 000 NC H 572 27 80 022°378 800 27°2105 000 NC H H 578 34 10 024°4955 000 22°4155 000 NC H H 578 34 10 024°4955 000 22°415 000 NC H H 578 34 10 024°3700 000 22°415 000 NW H H 578 34 10 026°176 000 22°36 6000 NW H H 578 34 10 026°178 000 22°37 600 NW H H 578 34 10 026°178 000 22°37 1000 NW H H 578 34 10 026°178 000 22°37 1000 NW H H 578 34 10 026°178 000 22°27 1000 NW H H 578 34 10 026°178 000 <	1 6	KIM	BERLEY	474	21	89	024°54'19.000"	-28°51'14.000"	NC	н	FS1	21	474
522 27 80 023*33*8 000 275*2113000 NC H 578 34 7 0024*9255000 25*61456000 NW V 578 34 20 023*3444000 25*4952000 NW V 578 34 20 023*3444000 25*4952000 NW V 578 34 10 024*9750000 25*4952000 NW V 578 34 11 026*913000 25*49720000 NW V 578 34 18 024*3700000 25*49720000 NW H 578 34 10 024*3750000 27*70813000 NW H 578 34 10 024*3750000 27*70813000 NW H 578 34 10 024*3750000 27*70813000 NW H 578 34 10 024*3500000 27*70813000 NW H 578 34 10 0		KUF	KURUMAN	578	34	5	023°18'49.000"	-27°21'05.000"	NC	Н	NW1	34	578
578 34 7 02552218 0007 -2551655.0007 NW H 578 34 10 02373444.0007 -253495.0007 NW H 578 34 20 023737446.0007 -253495.0007 NW H 578 34 10 026791766.0007 -253495.0007 NW H 578 34 11 026791766.0007 -253495.0007 NW H 578 34 10 026791760.0007 -273495.0007 NW H 578 34 10 02473700.0007 -27768130.007 NW H 578 34 10 02473700.0007 -27768130.007 NW H 578 34 10 0247370.0007 -27768130.007 NW H 578 34 61 0247370.0007 -2778130.007 NW H 578 34 61 0247370.0007 -27789130.007 NW H 578 34 61 0247370.0007 -27789130.007 NW H 578 34 61 0	- 1	KURUN	KURUMAN HILLS	522	27	80	023°33'38.000"	-27°53'13.000"	NC	Н	NC1A	27	522
578 34 10 024349255.000 2261492.0000 NW H 578 34 20 02023444.000 2254922.0000 NW H 578 34 10 02679126.000 224922.0000 NW H 578 34 10 02679126.000 2254922.0000 NW H 578 34 10 02679270.0000 2254922.000 NW H 578 34 10 02479270.0000 2254927.0000 NW H 578 34 10 0247926.0000 2254927.0000 NW H 578 34 10 0247900.000 2257371.000 NW H 578 34 10 0247900.000 2257371.000 NW H 578 34 20 0267260.000 2257371.000 NW H 578 34 50 0267260.000 2257370.000 NW H 578 34 50 0267260.000 2257370.000 NW H 570 33 0122 0267373.000 2257700.000 NW H 570 <th< td=""><td>- 1</td><td>MO</td><td>MOTSWEDI</td><td>578</td><td>34</td><td>7</td><td>025°52'18.000"</td><td>-25°16′55.000″</td><td>NC</td><td>Η</td><td>NW1</td><td>34</td><td>578</td></th<>	- 1	MO	MOTSWEDI	578	34	7	025°52'18.000"	-25°16′55.000″	NC	Η	NW1	34	578
578 34 20 023*3*4*1000*1-25*395*2000* NW V 578 34 10 026*3*9*000*1-25*395*2000* NW V 578 34 11 026*3*9*000*1-25*39*5*000* NW V 578 34 18 026*3*100*000*1-25*49*2000* NW V 578 34 18 026*3*100*000*1-25*13*1000* NW H 578 34 10 026*3*100*000*1-25*5*13*1000* NW H 578 34 10 026*3*100*000*1-25*5*13*1000* NW H 578 34 10 026*3*16*000*1-25*2*2*9*1000* NW H 578 34 10 026*3*16*000*1-25*2*2*9*1000* NW H 578 34 10 026*3*16*000*1-25*2*2*9*100*0 NW H 578 34 10 026*3*16*000*1-25*2*2*9*10*0 NW H 578 34 10 026*3*16*000*1-25*2*2*9*10*0 NW H 578 34 4 <td>6)</td> <td>PET</td> <td>PLESSIS</td> <td>578</td> <td>34</td> <td>10</td> <td>024°49′55.000″</td> <td>-26°14'56.000"</td> <td>NW</td> <td>H</td> <td>NW1</td> <td>34</td> <td>578</td>	6)	PET	PLESSIS	578	34	10	024°49′55.000″	-26°14'56.000"	NW	H	NW1	34	578
578 34 22 217707000 - 2534979.000 NW H 578 34 10 2027076.000 - 2544720.000 NW H 578 34 11 2024370.000 - 2544720.000 NW H 578 34 18 2024370.000 - 2544720.000 NW H 578 34 100 2024370.000 - 2754173.000 NW H 578 34 100 2024575.137.000 NW H 578 34 10 20245716.000 - 275417.000 NW H 578 34 10 20245716.000 - 275477.000 NW H 578 34 10 2025260.000 - 275471.000 NW H 578 34 10 20245716.000 - 275471.000 NW H 578 34 10 2025260.000 - 275471.000 NW H 578 34 10 2025260.000 - 275471.000 NW H 578 34 10 2025260.000 - 275471.000	DVB-T2 PO	POI	MFRET	578	34	20	023°34'44.000"	-25°49'52.000"	MN	> :	NWI	34	578
578 34 10 2024/31/2000 AVY V 578 34 18 2024/31/2000 2274/31/3000 NW H 578 34 16 2026/32/51/000 2275/31/3000 NW H 578 34 10 2024/37/2000 2775/31/3000 NW H 578 34 10 2024/37/2000 2775/31/3000 NW H 578 34 10 2024/37/2000 2775/31/3000 NW H 578 34 10 2024/37/2000 275/37/2000 NW H 578 34 40 2025/37/200 275/37/2000 NW H 570 33 10 2024/37/2000	DVB-12 KUSI	KUSI	ENBURG	578	34	10	027-0706.000	24°47'20 000"	NW.	Ξ >	NWI NIX71	34	578
578 34 18 2024*3700.000 225*197.000 NW H 578 34 63 2024*3700.000 225*197.000 NW H 578 34 10 2024*3700.000 275*3719.000 NW H 578 34 10 2024*3700.000 275*3719.000 NW H 578 34 10 2024*360.000 275*3719.000 NW H 578 34 61 2024*160.000 25*2570.000 NW H 578 34 61 2024*160.000 25*2570.000 NW H 578 34 60 2025*260.000 25*2570.000 NW H 578 34 61 202*1600.000 25*270.000 NW H 578 34 50 202*21600.000 25*270.000 NW H 570 33 0.12 0.25*1600.000 25*270.000 NW H 570 33 0.12	1 0	CTIVADE	PITCCENTS	570	2.4	10	020 01 30.000	25°40'50 000"	NIX.	> 2	NIXV1	2.4	570
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578 34 100 02551307.000 2776813.000 NW H 578 34 10 024552000.000 278200.000 NW H 578 34 61 02455200.000 27820.000 NW H 578 34 61 02452500.000 2252707.000 NW H 578 34 61 02452600.000 2624514.000 NW H 578 34 10 02652600.000 2624514.000 NW H 570 33 0.125 02000.224514.000 2624514.000 NW H 570 33 0.125 02000.2349716.000 NW H H 610 38 10 0225260.000 334716.000 NW H H 570 33 0.125 02000.23471.000 34703.000 NW H 610 38 0.12 018243.1000 34703.000 NW H 610 38	6	ZEE	RUST	578	34	63	026°02'51.000"	-25°51'37.000"	MM	н	NW1	34	578
578 34 10 024*5550.000° 277*530.000° NW H 578 34 2 026*13*16.000° 255*3510.000° NW H 578 34 10 026*24*29.000° 265*35\$10.000° NW H 578 34 10 026*24*29.000° 265*35\$10.000° NW H 578 34 10 026*24*29.00° 26*35\$11.00° NW H 570 33 10 026*24*29.00° 26*35\$11.00° NW H 570 33 10 026*24*29.00° 26*35\$11.00° NW H 570 33 10 026*24*29.00° 26*35*11.00° NW H 660 45 1 10 10*2*34*16.00° 30 NW H 570 33 10.12 020*0*17.00° 34*34*16.00° NW H 660 45 10 018*2*2*10.00° 34*34*16.00° NW H 670 33	172	SCHWEIZ	ER RENEKE	578	34	100	025°13'07.000"	-27°08'13.000"	MM	Н	NW1	34	578
578 34 2 2026*13*16.000° 252.507.000° NW H 578 34 61 0024*160.000° 262*267.000° NW H 578 34 61 0026*24/29.000° 264*11.000° NW H 578 34 50 0026*24/29.000° 264*511.000° NW H 570 33 0.12 0020*24/29.000° 264*514.000° NW H 660 45 10 0025*16*10.00° 264*514.000° NW H 660 45 10 0025*16*10.00° 364*514.00° NW H 660 45 10 0025*16*10.00° 374*21.00° WC V 660 45 16 002*216*00.00° 374*21.00° WC V 660 45 16 002*216*00.00° 374*24.00° WC V 660 38 0.1 002*216*00.00° 374*24.00° WC V 610 38	-	CHRI	STIANA	578	34	10	024°55'50.000"	-27°53'03.000"	WW	Н	NW1	34	578
578 34 61 0247160000C 2673612000C NW H 578 34 10 026272000C 2264511000C NW H 578 34 10 026272000C 2674511000C NW H 570 33 0.12 02007083700C 347916000 NW H 570 33 0.12 02007083700C 347916000 NW H 660 45 10 022151400C 262728000 NW H 610 38 0.12 020083700C 343116000 WC H 610 38 10 022160200C 347916000 WC H 610 38 1 01875273.00C 344916000 WC V 610 38 0.1 01875273.00C 34491000 WC V 610 38 0.4 01875273.00C 344911700 WC V 610 38 0.4 01875273.00C 344911700 WC V 610 38 0.1 01875277000 347117400	T2 ENZE	ENZE	ENZEL SB ERG	578	34	2	026°13'16.000"	-25°25'07.000"	MM	Н	NW1	34	578
578 34 10 2025/2608 000 - 253711,000° NW V 578 34 50 2025/24/20 000 - 2645/14,000° NW H 570 33 0.125 2026/24/20 000 - 2645/14,000° NW H 666 45 1 109 - 533/20 000 - 3347/16,000° WC V 610 38 4 018 - 56/20 000 - 3347/16,000° WC H 570 33 56 109 - 533/20 000 - 3347/16,000° WC V 610 38 4 018 - 56/20 000 - 3440/34,000° WC V 660 45 160 020 - 20/20 000 - 3440/34,000° WC V 610 38 0.4 018 - 27/20 000 - 3440/34,000° WC V 610 38 0.4 018 - 27/20 000 - 3440/34,000° WC V 610 38 0.4 018 - 27/20 000 - 3440/34,000° WC V 610 38 0.4 018 - 27/20 000 - 347/34,000° WC V 610 <	DVB-T2 GAN	GAD	IYESA	578	34	19	024°16'00.000"	-26°36'12.000"	MM	Н	NW1	34	578
578 34 50 0.025'2174,000°1-26'45'14,000° NW H 578 34 4 0.025'15'14,000°1-26'24'51,000° NW H 570 33 1.01 0.025'15'14,000°1-33'47'16,000° WC H 666 45 1 0.19'53'33.00°1-33'47'16,000° WC H 570 33 1.00 0.02'16'02.00°1-33'47'16,000° WC H 610 38 1.00 0.02'16'02.00°1-33'47'16,000° WC H 650 45 1.00 0.02'16'02.00°1-33'47'16,000° WC H 610 38 0.10 0.02'16'02.00°1-33'47'16,000° WC H 610 38 0.12 0.02'10'74'10'00°1-32'49'00'00' WC V 610 38 0.4 0.02'27'02'00°1-34'70'00°1-34'70'00' WC V 610 38 0.0 0.00 1.00 32'75'20'00°1 WC V 610 38 0.0 0.00 1.00 1.00 32'3'3'3'3'00'<	-2	GROOT	GROOTMARICO	578	34	10	026°26'08.000"	-25°37'11.000"	NW	>	NW1	34	578
578 34 4 025*15*10.00°1-26*27728.00°0 NW H 666 45 11 020°08*37.00°1 33*4716.00°0 WC H 660 45 11 019°5733.00°1 33*4716.00°0 WC H 610 38 4 018°5720.30°0 34°2421.00°0 WC H 610 38 0.125 018°2521.00°0 34°34251.00°0 WC H 660 38 0.125 013°2727.50°0° 34°374.00°0 WC H 661 38 0.125 013°274.10°0° 34°374.00°0 WC V 660 38 0.4 018°274.10°0° 34°374.00°0 WC V 610 38 0.4 018°273.10°0° 34°11.54.00° WC V 610 38 0.6 018°274.10°0° 34°11.54.00° WC V 610 38 0.0 018°274.00° 34°11.54.00° WC V 610 38 0.0	-	KLER	KSDORP	578	34	50	026°24'29.000"	-26°45′14.000″	MM	Η	NW1	34	578
570 33 0.12 0.000-083/10.000-1.3419145.0000 WC H 610 38 4 0.0221602.000-1.3449145.0000 WC H 610 38 4 0.0221602.000-1.3449145.0000 WC H 570 33 0.125 0.0221602.000-1.344921.000 WC H 666 45 1.60 0.021900.000-1.344921.000 WC V 610 38 0.1 0.018-2471.000 324900.000 WC V 610 38 0.4 1.000.0219741.000 324900.000 WC V 610 38 0.4 1.000.0219741.000 324900.00 WC V 610 38 0.4 1.000.000 33-24900.00 WC V 610 38 0.4 1.000.000 33-24900.00 WC V 610 38 0.4 1.000.000 33-24900.00 WC V 610 38 0.0 0.000 33-24900.00 WC	2)	MAI	BOGO	578	34	4	025°15′14.000″	-26°27'28.000"	NW	Ξ	NWI	34	578
570 33 10 0297-53.50.00 334-97.10.00 WC H 570 33 16 0297-53.50.00 334-97.10.00 WC H 570 33 5.6 0183-67.20.00 334-97.10.00 WC H 570 33 5.6 0183-97.20.00 334-97.10.00 WC H 570 33 0.115 0232-27.50.00 234-97.10.00 WC H 570 33 0.115 0232-27.50.00 234-97.10.00 WC H 570 33 0.12 023-97.10.00 237-97.30.00 WC V 510 38 0.8 0182-97.10.00 237-97.20.00 WC V 510 38 0.8 0182-97.10.00 237-97.20.00 WC V 510 38 0.8 0182-97.10.00 237-97.20.00 WC V 510 38 0.0 0182-97.10.00 237-97.20.00 WC V 520 33 0.0 0182-97.10.00 237-97.20.00 WC V 520 34 0.0 0182-97.10.00 237-97.20.00 WC V 520 34 0.0 0182-97.10.00 237-97.20.00 WC V 520 35 0.0 0182-97.20.00 237-97.20.00 WC V 520 38 0.0 0182-97.10.00 237-97.20.00 WC V 520 38 0.1 0182-97.10.00 237-97.20.00 WC V 520 38 0.1 0182-97.20.00 237-97.21.00 WC V 520 38 0.1 0182-97.20.00 237-97.21.00 WC V 520 39 0.1 0192-97.20.00 237	2) (MON	VTAGU	570	33	0.125	020°08'37.000"	-33°47′16.000″	MC	> :	WC1	33	570
570 33 40 022.102.00. 324.910.000 WC H 570 33 56 018°44'19.000 3249'09.000 WC H 570 33 0.105 023°22'50.000 34°9'09.000 WC H 660 38 0.4 018°23'51.000 34°9'09.000 WC V 6610 38 0.4 018°23'51.000 33°5'43'3.000 WC V 6610 38 0.4 018°23'10.000 33°5'43'3.000 WC V 6610 38 0.6 018°29'13.000 33°5'43'3.000 WC V 6610 38 0.0 018°29'13.000 33°5'43'3.000 WC V 6610 38 0.0 018°29'13.000 33°5'43'2.000 WC V 6610 38 0.0 018°3'5'40.000 33°3'5'2'2.000 WC V 670 33 0.05 020°0'1'12.000 33°3'3'3'2'3.000 WC V 670 33 0.05 018°3'5'40.000 33°3'3'3'3'0'0' WC V 670 33 0.05 018°3'3'0'0.000 33°3'3'3'3'0'0' WC V 670 38 0.1 019°3'0'2.000 33°3'3'3'3'0'0' WC V 670 38 0.1 019°2'3'1'0.000 33°5'3'3'0'0' WC V 670 38 0.1 018°2'3'1'0.000 33°5'3'0'0' WC V 670 38 0.1 019°3'3'0'0' 000°3'3'5'3'0'0' WC V 670 38 0.1 019°3'3'0'0' 000°3'3'5'0'0' WC V 670 38 0.1 019°3'1'0'0' 000°3'3'5'3'0'0' 000°0' 000°0' 000°0' 000°0' 000°0' 000°0' 000°0' 000°0' 000°0' 000°0' 000°0' 000°0' 000°0' 000°0' 000°0' 000°0' 000°0' 000°0' 0	DVB-12 NA		THEK	000	40	100	0195333.000	-34°31'45.000" 32°40'16.000"	NC M	п	WCI	33	0/6
570 33 56 01842521.000 324900.000 WC H 666 45 100 01207401.000 3470170.000 WC V 610 38 10 01822531.000 3471154.000 WC V 610 38 0.4 01822531.000 3471154.000 WC V 610 38 0.4 01822510.000 3471154.000 WC V 610 38 0.8 01825210.000 3471154.000 WC V 610 38 0.8 01825210.000 3471154.000 WC V 610 38 0.0 0182710.000 3471154.000 WC V 610 38 0.0 02070112.000 347174.000 WC V 666 45 2.5 02340756.000 3432572.000 WC V 670 33 0.0 01873756.000 3432732.000 WC V 670 33 0.0 <			AARI	610	38	4	022 16 02.000	-33 40 10:000 33°42'51 000"	W.C	4 >	WC1	33	570
570 33 0.125 033-22225.000 34-03/34.000 WC V 610 38 0.4 01822371.000 34-03/34.000 WC V 610 38 0.4 01823731.000 34-11/34.000 WC V 610 38 0.6 01822431.000 345-433.000 WC V 610 38 0.6 01822431.000 345-432.000 WC V 610 38 0.05 020-91/12.000 345-429.000 WC V 610 38 0.05 020-91/12.000 34-275.000 WC V 610 38 0.0 023-93/26.000 34-374.000 WC V 620 33 0.05 020-91/12.000 34-374.000 WC V 670 33 0.05 023-93/26.000 34-374.000 WC V 670 33 0.05 023-93/26.000 34-374.000 WC V 670 38 0.0 018-375.000 34-93/20.000 WC V 670 38 0.1 018-27/20.000 34-93/20.000 WC V 670 38 0.1 018-27/20.000 34-90/20.000 WC V 670 38 0.1 019-27/20.000 34-90/20.000 WC V 670 38 0.1 019-27/20.000 34-90/20.000 WC V 670 0.3 0.1 019-27/20.000 34-90/20.	10	PIK	FTRFRG	570	33	2,6	018°44'19 000"	-32°49'09 000"	MC	- 1	WC:	33	570
666 45 160 021'07'41.00C' 34'50'10'70'0' WC H 610 38 0.4 018"273'100C' 34'54'11'40'0' WC V 610 38 0.8 018"273'100C' 34'11'40'0' WC V 610 38 0.6 018"24'11'0'0' WC V 610 38 0.6 018"24'11'0' WC V 610 38 0.6 018"24'11'0' WC V 610 38 0.6 018"24'11'0' WC V 660 45 2.5 023"0'0' 33"220'50'0' WC V 660 45 2.5 023"0'0' 33"3"3"8"6'0' WC V 660 45 60 018"3"5"5"0' 33"3"8"8"6'0' WC V 610 38 0.2 018"3"5"5"0' 33"5"5"5"0' WC V 610 38 0.1 018"2"3"1'5"00C" 3"3"5"5"30'0' WC V 610 38 0.1<		PLETTE	NBERG BAY	570	33	0.125	023°22'25.000"	-34°03'34.000"	WC	>	WC1	33	570
610 38 0.4 018*23*51.00C -33*54*33.00C WC V 610 38 0.6 018*25*210.00C -33*54*29.00C WC V 610 38 0.6 018*25*210.00C -33*54*29.00C WC V 610 38 0.6 018*25*210.00C -33*54*29.00C WC V 620 38 0.6 018*35*46.00C -33*52*29.00C WC V 620 48 2.5 0.23*0970.00C -33*52*29.00C WC V 620 48 0.02 0.23*0970.00C -33*38*46.00C WC V 620 48 0.02 0.03*0970.00C -33*38*46.00C WC V 620 63 8 0.02 0.03*0970.00C -33*38*46.00C WC V 620 63 63 0.02 0.03*0970.00C -33*38*46.00C WC V 640 63 8 0.02 0.03*0970.00C -33*38*46.00C WC V 640 63 8 0.02*2972.00C -33*58*09.00C WC V 640 63 8 0.02*3972.00C -33*58*09.00C WC V 640 63 8 0.1 0.03*2972.00C -33*4939.00C WC V 640 63 8 0.1 0.03*2972.00C -33*4939.00C WC V 640 63 8 0.1 0.03*2972.00C -33*4939.00C WC V 640 38 0.1 0.03*2972.00C -33*4939.00C WC V 640 38 0.1 0.03*2972.00C -33*6930.00C WC V 640 0.3 0.1 0.03*2972.00C -33*6930.00C WC V 640 0.3 0.3 0.0 0.03*2972.00C -33*6930.00C WC V 640 0.3 0.3 0.0 0.03*2972.00C -33*6930.00C WC V 640 0.3 0.3 0.0 0.03*2972.00C -33*6930.00C -33*6930.00	Ш	RIVE	RIVERSDALE	999	45	160	021°07'41.000"	-34°01'07.000"	WC	Н	WC1	33	570
610 38 2 0182257.0007-3471794.0007 WC V 610 38 0.05 018725710.0007-3375725.0007 WC V 610 38 0.05 018725710.0007-3375725.0007 WC V 610 38 5.0 018735710.0007-3375725.0007 WC V 620 45 6.0 01873473.0007-3375725.0007 WC V 620 45 6.0 01873473.0007 WC V 620 45 6.0 01873473.0007 WC V 620 63 63 63 63 63 63 63 6	2	SE/	SEA POINT	610	38	0.4	018°23'51.000"	-33°54'33.000"	WC	Λ	WC1	33	570
610 38 0.8 0.8 0.852510.0007 335-54'59.0007 WC V 570 33 0.05 0.0812413.0007 335-54'59.0007 WC V 570 33 0.05 0.0290112.0007 335-252.0007 WC V 570 33 0.05 0.0290112.0007 335-252.0007 WC V 570 33 0.025 0.029007.80007 335-252.0007 WC V 570 33 0.025 0.029007.80007 337-84'90.0007 WC V 610 38 0.025 0.029007.80007 337-84'90.0007 WC W 610 38 0.029007.80007 337-84'90.0007 WC W 610 38 0.01 0.029007.80007 337-89'90.0007 WC W 610 38 0.1 0.029007.80007 337-89'80.0007 337-89'80.0007 337-89'80.0007 337-89'80.0007 337-89'80.0007 337-89'80.0007 337-89'80.0007 337-99'80.00	12	SIMC	SIMONSTOWN	610	38	2	5	-34°11'54.000"	WC	>	WC1	33	570
510 38 0.6 618/24/15.000 335/25.000 WC V 510 38 0.5 018/24/15.000 335/25.000 WC V 510 38 0.05 0203/91/12.000 335/25/29.000 WC V 570 33 0.025 0203/91/20.000 335/25/29.000 WC V 570 33 0.025 0203/91/20.000 335/84/20.00 WC V 570 33 0.025 0203/91/20.000 335/84/20.00 WC H 510 38 0.02 018/32/20.000 335/82/20.000 WC H 510 38 0.01 018/22/31/20.000 347/91/20.00 WC V 570 33 0.02 018/32/20.000 335/82/20.00 WC W 570 33 0.01 018/22/31/20.00 347/91/20.00 WC V 570 33 0.02 018/20/20.00 335/82/20.00 WC V 570 33 0.02 018/20/20.00 347/91/20.00 WC V 570 33 0.01 018/20/20.00 347/91/20.00 WC V 570 33 0.01 019/91/20.00 347/91/20.00 WC V 570	6)	STEL	LENBOSCH	610	38	0.8	018°52'10.000"	-33°54'59.000"	WC	>	WC1	33	570
570 33 0.05 2020*011200*0-33*26795,000° WC V 666 45 2.5 023*0372,000*33*262200° WC V 666 45 2.5 023*07302,000*33*35*2200° WC V 570 33 5.00 018*34*24.000° WC V 610 33 5.0 018*34*124.000° 313*35*2809.000° WC V 610 38 0.25 018*34*124.000° 313*58*09.000° WC V 610 38 0.25 018*27*15.000° 32*49*39.000° WC V 610 38 0.1 018*27*15.000° 34*97*15.000° V 610 38 0.1 018*27*15.000° 34*97*15.000° V 610 38 0.1 018*27*15.000° 33*5*4*26.000° V 570 33 3.4 022*27*10*00° 33*5*4*26.000° WC V 570 33 0.1 018*2*3*10*00° 34*0*6*0.00° WC V	6)	TABLE	TABLE MOUNTAIN	610	38	0.6	018°24'13.000"	-33°57'25.000"	WC	>	WC1	33	570
570 38 5.0 0.08*53*40.000* 37.522.000* WC V 570 33 0.025 0.03*973*0.00* 33*3*43*3.4.000* WC V 570 33 0.025 0.03*973*0.00* 33*3*8*46.000* WC V 666 45 6.60 0.08*41.24.000* 33*3*8*80.000* WC W 610 38 5.0 0.08*38*20.000* 33*493*0.00* WC W 610 38 5.0 0.08*38*20.000* 33*493*0.00* WC W 610 38 0.1 0.03*343*15.000* WC W 610 38 0.1 0.03*23*15.000* WC W 610 38 0.1 0.03*23*10.000* 33*5\$*38.000* WC W 610 38 1 0.03*23*10.000* 34*060.000* WC W 610 38 1 0.03*23*10.000* 34*060.000* WC V 610 38 1 0.03*23*10.000* 34*060.000* WC V 610 38 1 0.03*23*20*000* 34*060.000* WC V 610 38 1 0.03*23*20*000* 34*060.000* WC V 610 38 1 0.03*23*20*000* 34*044.000* WC V 610 610 610*00* 610*0	13	TOOL	WSRIVIER	570	33	0.05	020-01'12.000"	-33°20′59.000″	WC	> ;	WC1	33	570
570 33 0.025 0.024 0.024 0.024 0.027 0	2 (JAL	ERBERG	010	38	000	018°35'46.000"	-33~52'29.000"	NC NC	> ;	WC1	33	5/0
570 33 50.20 5	DVB-12 DVB TO TINTON	TINTON	TONDALE TONDALE	000	33	0.005	023 03 02.000	33°38'46 000"	W.C	> 1	WC1	33	570
666 45 60 01973/15.000 33.5809.000 WC H 610 38 0.25 01873/25.000 33.45/38.0000 WC V 610 38 0.25 01823/25.000 34.93/15.000 WC V 660 45 11 01922/31.500 34.90/31.500 WC V 610 38 0.1 0182/271.500 34.90/31.500 WC V 610 38 0.1 0182/273.000 34.90/31.500 WC V 570 33 0.1 0182/273.000 34.90/31.500 WC V 610 38 0.1 0182/273.000 34.55/30.000 WC V 570 33 34 022/2770.000 34.55/30.000 WC V 570 33 0.2 01970/20.000 34.90/50.000 WC V 570 33 0.1 01975/20.000 34.24.48.000 WC V 570 33 0.1		VANR	HVNSDORP	570	33	50	023 07 30.000	-33 38 40.000	MC W	> 1	WC1	33	570
570 38 0.25 018°28°29,000° 33°49°39,000° WC V 610 38 50 018°28°29,000° 33°49°39,000° WC H 610 38 50 018°28°23,000° 34°69°39,000° WC H 610 38 0.1 018°29°23,000° 34°59°39,000° WC V 610 38 0.1 018°29°12,000° 34°59°39,000° WC V 570 33 34 02°2°27°40,00° 33°59°39,000° WC V 570 33 34 02°2°27°49,000° 33°59°38,000° WC V 570 33 0.25 019°09°39°39°38°38,000° WC V 570 33 0.25 019°39°39°39°39°0° WC V 570 33 0.6 019°13°18,000° 34°20°49,000° WC V 570 33 0.6 019°13°18,000° 34°20°49,000° WC V 570 33 0.6 019°13°18,000° 34°20°49,000° WC V 570 33 0.6 019°19°39°30°0° 34°20°49,000° WC V 570 33 0.6 019°19°38,000° 34°07°41,000° WC V 570 33 0.6 03°39°38,000° 34°07°41,000° WC V 570 33 0.6 03°39°38,000° 34°07°41,000° WC V 570 33 0.6 03°39°38,000° 34°07°41,000° WC V 570 33 0.6 03°39°39°30°0° 34°07°41,000° WC V 570 33 0.6 03°39°39°30°0° WC V 570 33 0.6 03°39°39°30°0° WC V 570 33 0.6 03°39°30°0° 34°04°11,000° WC V 570 38 0.6 03°39°30°0° 34°04°10°0° WC V 570 38 0.6 03°39°30°0° 34°04°10°0° WC V 570 38 0.6 03°39°30°0° 34°04°10°0° WC V 570 38 0.6 03°39°30°0° 34°09°30°0° WC V 570 38 0.6 03°39°30°0° WC V 570 38 0.6 03°39°30°0° WC V 570 0.6 0	١.	VIII	TERSTORP	999	45	09	019°30'25 000"	-33°58'09 000"	MC	: =	WC:	33	570
570 33 60 022'39'25.000' 32'15'29.000' WC H 610 38 50 018'23'15.000' 32'15'29.000' WC V 666 43 0.1 019'27'32.000' 33'15'10.000' WC V 610 38 0.1 019'27'32.000' 33'15'10.000' WC V 570 33 2. 019'04'26.000' 33'5'5'38.000' WC V 570 33 40 022'27'10.000' 33'5'5'38.000' WC V 570 33 0.1 019'5'8'0'3.000' 34'0'6'0.00' WC V 570 33 0.25 022'13'0.000' 34'0'6'3.00' WC V 570 33 0.1 019'5'3'5'0'3'0' WC V 570 33 0.1 019'5'3'5'0' 000' 34'0'4'0'0' WC V 570 33 0.1 019'5'3'5'0'0' 34'0'4'1.00' WC V 570 33 0.1 019'5'3'5'0' 34'0'4'1.00' WC V 570 33 0.1 019'5'3'5'0' 000' 34'0'4'1.00' WC V 570 33 0.1 019'5'3'5'0' 000' 34'0'4'1.00' WC V 570 33 0.1 019'5'3'5'0' 000' 34'0'4'1.00' WC V 570 33 0.1 019'0'8'3'0' 000' 34'0'4'1.00' WC V 570		A	AURORA	610	38	0.25	018°38'29.000"	-33°49'39.000"	WC	>	WC1	33	570
610 38 50 01872315.000° 34°0315.000° WC V 666 45 11 0192773.200° 34°0315.000° WC V 610 38 0.1 0187273.000° 33°5530.000° WC V 610 38 0.1 0182273.000° 34°03510.000° WC V 670 33 2 019°04°0.00° 34°535.000° WC V 670 33 1 0182670.000° 34°5738.000° WC V 670 33 0.1 019°04°0.000° 34°5738.000° WC V 670 33 0.1 019°1318.000° 34°06°0.00° WC V 670 33 0.1 019°1318.000° 34°06°0.00° WC V 670 33 0.1 019°13923.000° 34°06°0.00° WC V 670 33 0.1 019°2923.000° 34°040.00° WC V 670 33 0.1 019°0828.00° 34°04°100° WC V 670 33 0.1 019°0828.00° 34°04°10°0° WC V 670 670 670 670 670 670 670 670 670 670	1.2	BEAU	FORT WEST	570	33	09	022°30′25.000″	-32°15'29.000"	WC	н	WC1	33	570
666 45 11 01927732.000° 33°15′10.000° WC V 610 38 0.1 018222/30.000° 33°55′30.000° WC H 570 33 2 019°09′26.000° 33°55′30.000° WC V 570 33 34 022°27/04.000° 33°55′38.000° WC V 610 38 1 018°58(03.000° 34°573.000° WC V 570 33 0.2 022°17'00.000° 34°07'00° WC V 570 33 0.6 019°13'18.000° 34°24'48.00° WC V 570 33 0.1 019°39'23.00° 33°3'54'00° WC V 610 38 4 018°29'23.00° 33°0'4-00° WC V 570 33 0.5 019°0'68'30°0° 33°3'5'20'00° WC V 570 33 2 019°0'82'80.00° 33°3'73'20'00° WC V 498 24 018°0'82'80.00° 34°0'41'10° WC V 570 33 </td <td>6)</td> <td>CAJ</td> <td>PE TOWN</td> <td>610</td> <td>38</td> <td>90</td> <td>018°23'15.000"</td> <td>-34°03'15.000"</td> <td>WC</td> <td>Λ</td> <td>WC1</td> <td>33</td> <td>570</td>	6)	CAJ	PE TOWN	610	38	90	018°23'15.000"	-34°03'15.000"	WC	Λ	WC1	33	570
610 38 0.1 018°22'37.00° 33°56'30.00° W°C H 610 38 0.1 018°26'1237.00° 33°56'30.00° W°C V 570 33 24 022°27'04.00° 33°55'4'26'00° W°C V 610 38 1 018°58'03.00° 34°56'53.00° W°C V 570 33 0.25 022°17'00° 34°56'38.00° W°C V 570 33 0.2 019°30'23'00° 34°24'48'00° W°C V 610 38 4 018°29'23.00° 33°30'34'04'100° W°C V 570 33 0.1 019°39'23.00° 33°30'34'04'100° W°C V 650 33 2 019°08'230° 34°24'48'00° W°C V 670 33 2 019°08'230° 34°40'41'00° W°C V 670 33 10 023°27'31.00° 33°37'35'30° W°C V 670 33 10 021°27'18.00° 33°37'55'00° W°C W 670	172)	CERES	999	45	11	019°27'32.000"	-33°15'10.000"	WC	Λ	WC1	33	570
610 38 0.1 018°26°12.00°0 34°08°59.00°0 W°C V 570 33 2.0 019°04°26.00°0 34°54°26.00°0 W°C V 570 33 3.4 022°2704.00°0 34°578.8.00°0 W°C V 570 33 0.2 018°13°18°00°0 34°06°10°0 W°C V 570 33 0.2 019°13°18.00°0 34°04°10°0 W°C V 570 33 0.1 019°13°18.00°0 34°04°10°0 W°C V 570 33 0.1 019°13°18.00°0 34°04°10°0 W°C V 570 33 0.1 019°13°13°10°14.00°0 W°C V 570 33 0.1 019°13°13°10°14.00°0 W°C V 570 33 0.1 019°10°18.80°0 34°04°11.00°0 W°C V 570 33 0.0 013°25°18.00°0 34°04°11.00°0 W°C V 570 33 0.0 013°25°18.00°0 34°04°11.00°0 W°C W 570 33 0.0 013°25°18.00°0 34°04°11.00°0 W°C W 570 33 0.0 013°25°18.00°0 34°04°11.00°0 W°C W 570 010°0°0 013°0°0 013°0°0 013°0°0 013°0°0 013°0°0 013°0°0 013°0°0 013°0°0 013°0°0 010°0		C	CLIFTON	610	38	0.1	018°22'37.000"	-33°56'30.000"	WC	Н	WC1	33	570
570 33 2 019°04′26.000°1-33°54′26.000° WC V 570 33 34 022°27/04.000°1-33°55′38.000° WC H 610 38 1 018°58′03.000°1-34°02′31.000° WC V 570 33 0.6 019°13′18.000°1-34°02′31.000° WC V 570 33 0.1 019°39′23.000°1-34°02′40.00° WC V 610 38 4 018°29′80.00°1-34°0741.00° WC V 570 33 2.0 1019°39′28.00°1-34°0741.00° WC V 498 24 0.5 0.23°02′31.00°1-34°041.00° WC V 498 24 0.5 0.23°02′31.00°1-34°041.00° WC V 498 24 0.5 0.22°02′31.00°1-34°041.00° WC V 498 24 0.5 0.25°02′31.00°1-34°041.00° WC V 498 24 0.5 0.25°02′31.00°1-33°3°3°3°3°3°3°3°3°3°3°3°3°3°3°3°3°3°	DVB-T2 FIS	EES	FISHHOEK	610	38	0.1	018°26'12.000"	-34°08'59.000"	WC	Λ	WC1	33	570
570 33 34 0222704.000° 33°55738.000° WC H 610 38 1 01855803.000° 34°0573.000° WC V 570 33 0.6 019°1318.000° 34°2474.000° WC V 570 33 0.1 019°39′23.000° 33°30′44.000° WC V 610 38 4 018°29′26.000° 33°30′24.00° WC V 570 33 2.0 1019°08′28.000° 34°37′20.00° WC V 498 24 0.5 0.23°02′31.00° 34°04′1.00° WC V 498 24 0.6 0.25°02′31.00° 34°04′1.00° WC V 570 33 1.0 0.00° 34°04′1.00° WC V 570 33 1.0 0.00° 33°3°755.00° WC V	2	FRAD	FRANSCHHOEK	570	33	2	019°04'26.000"	-33°54'26.000"	WC	Λ	WC1	33	570
610 38 1 018°58'03.00° 34°06'05.00° WC V 570 33 0.25 30.00° 143°24'80'00° WC V 570 33 0.1 019°39'23.00° 13°24'32'48'00° WC V 610 38 4 018°29'56.00° 13°30'54.00° WC V 570 33 2 019°08'28'00° 13°30'54.00° WC V 570 33 2 019°08'28'00° 13°30'54.00° WC V 650 34 018°20'56.00° 13°30'54.00° WC V 650 35 10 023°02'31.00° 13°47'6'41'00° WC V 670 33 10 021°25'18.00° 13°375'50.00° WC H	2	S	GEORGE	570	33	34	022°27'04.000"	-33°55'38.000"	WC	Н	WC1	33	570
570 33 0.25 022*13*00.000*-34*02*31.000* WC V 570 33 0.6 019*17*18.000*-34*40.000* WC V 570 33 0.1 019*27*38.000*-34*240.000* WC V 610 38 4 018*297*56.000*-34*04*0.000* WC V 570 33 2 019*08*38.000*-14*297*2.000* WC V 498 24 0.5 023*02*231.000*-34*04*17.000* WC V 70 33 1.0 021*25*18.000*-34*04*17.000* WC V	DVB-T2 GR	GR	GRABOUW	610	38	1	018°58'03.000"	-34°06'05.000"	WC	Λ	WC1	33	570
570 33 0.6 019°13'18.000'-44°24'8.000' WC V 570 33 0.1 019°29'23.000'-33°05'4.000' WC V 610 38 4 018°20'56.000'-34°0'04,000' WC V 570 570 33 2 019°0'82.000'-34°0'04,000' WC V 498 24 0.5 023°0'82.000'-34°0'41,000' WC V 570 33 10 021°2'518.000'-33°37'55.000' WC H	- 01	GROOT	GROOT BRAKRIVIER	570	33	0.25	022°13'00.000"	-34°02'31.000"	WC	>	WC1	33	570
570 33 0.1 019°39'23 000'-33°90'54,000' WC V 610 38 4 018°20'56,000'-34°00'44,000' WC V 570 33 4 018°20'55,000'-34°00'4,000' WC V 498 24 0.5 023°02'31,000'-34°04'17,000' WC V 570 33 10 021°25'18,000'-33°37'55,000' WC H	61	HE	HERMANUS	570	33	9.0	019°13′18.000″	-34°24'48.000"	WC	>	WC1	33	570
610 38 4 018-20-50.007-54-0041,000 WC V 570 33 10 021-25/18.0007-34-04/17.000 WC V 570 33 10 021-25/18.0007-33-37/55.000 WC H	2 5		HEXRIVIER	570	33	0.1	019°39′23.000″	-33°30′54.000″	WC	> ;	WC1	33	570
570 53 2 023°02310001-54-22.000 WC V 570 53 10 021°25/18.0001-33°3755.000 WC H	2 5	H	DUTBAY	010	38	4 (018°20'56.000"	-34 00 44 000"	NC AC	> ;	WC1	33	5/0
570 33 10 021°25′18.000°1-33°37′55.000°1 WC H	DVB-T2 KL	N.	EINMOND	0/5	33	2	019-08'28'000'			> 2	WCI	33	570
27 000 000 000 000 000 000 000	10	LADIS	MITH (CAPE)	570	33	10	023 02 31.000	-33°37'55 000"	L	- 1	WCI	33	570
666 45 30 000°20′20 000° 33°16′53 000° WY	1	MATH	MA THESEONTEIN	999	45	30	000-30-000	33°16'52 000"	Z M	1	W.C.1	33	570

Note 1: Freq (MHz) and CH are the frequency and associated channel number at which the service shall be implemented in order to ensure that the IMT 700 and IMT 800 frequencies in order to clear the Frequency Band after analogue switch-off.

Note 2: No DTT assignments are above 694 MHz.

Note 3: Final Frequency and the associated final channel number is the frequency at which the station will operate in the provincial SFN network.

Note 4: In order to create a plan with the least possible interference the large SFN's were broken up into smaller SFN's in some provinces.

ANNEXURE B

	DIT	TX-Name	MHZ)	CH	OKW	Longitude	Latitude	Prov ince	FOL.	Id	CH	MHZ
Ι,Η	DVB-T2	QUEENSTOWN	586	35	58	026°47'05.000"	-31°43'56.000"	EC	Н	EC2	35	586
	DVB-T2	GRAHAMSTOWN	286	35	9	026°42'31.000"	-33°17'15.000"	EC	Н	EC2	35	286
	DVB-T2	UMTATA	658	44	10	028°44'36.000"	-31°35'48.000"	EC	Н	EC2	35	586
	DVB-T2	KING WILLIAMS TOWN	658	44	18.02	027°15'36.000"	-32°40'44.000"	EC	Н	EC2	35	586
-	DVB-T2	BUTTER WORTH	658	44	10	028°12'25.000"	-32°16'35.000"	EC	Н	EC2	35	586
	DVB-T2	PORTST JOHNS	286	35	10	029°31'39.000"	-31°36'39.000"	EC	Н	EC2	35	286
	DVB-T2	ALIWAL NORTH	286	35	20	026°34'00.000"	-30°47'05.000"	EC	Н	EC2	35	586
ш.	DVB-T2	SUURBERG	286	35	40	025°34'29.000"	-33°14'55.000"	EC	Н	EC2	35	586
ш.	DVB-T2	MOUNT AYLIFF	490	23	50	029°23'41.000"	-30°50′11.000″	EC	Н	EC2	35	586
	DVB-T2	NGANGELIZWE	586	35	0.2	028°48'31.000"	-31°37'15.000"	EC	Н	EC2	35	586
	DVB-T2	STERKSPRUIT	286	35	20	027°16′14.000″	-30°41'44.000"	EC	Λ	EC2	35	286
	DVB-T2	EAST LONDON	859	44	63	027°48'58.000"	-32°56'20.000"	EC	Н	EC2	35	586
	DVB-T2	PORT ELIZABETH	286	35	72	025°26'29.000"	-33°56′10.000″	EC	Н	EC2	35	586
	DVB-T2	PORT ELIZABETH CITY	286	35	2	025°35'29.630"	-33°55'28.000"	EC	Λ	EC2	35	586
	DVB-T2	DESPATCH	586	35	2	025°25'29.000"	-33°45'53.000"	EC	Λ	EC2	35	586
	DVB-T2	THEUNISSEN	682	47	34	026°34'50.000"	-28°11'55.000"	FS	Н	FS2	25	206
	DVB-T2	SUIDRAND	909	25	0.25	027°14'16.000"	-27°41'18.000"	FS	Λ	FS2	25	909
	DVB-T2	BETHLEHEM	206	25	20	028°29'58.000"	-28°14'10.000"	FS	Н	FS2	25	206
	DVB-T2	SENEKAL	206	25	10	027°30′26.000″	-28°15'19.000"	FS	Н	FS2	25	206
	DVB-T2	LADYBRAND	206	25	10	027°22'42.000"	-29°10′18.000"	FS	Н	FS2	25	206
	DVB-T2	BOESMANSKOP	206	25	10	027°12'55.000"	-30°00′28.000"	FS	н	FS2	25	206
	DVB-T2	KROONSTAD	206	25	20	027°11'10.000"	-27°25'16.000"	FS	Н	FS2	25	206
	DVB-T2	PETRUS STEYN	206	25	20	028°19'06.000"	-27°30′51.000"	FS	н	FS2	25	206
	DVB-T2	WITSESHOEK	206	25	0.5	028°50'49.000"	-28°31'04.000"	FS	Λ	FS2	25	206
	DVB-T2	BLOEMFONTEIN	206	25	100	026°13'50.000"	-29°06'13.000"	FS	Н	FS2	25	206
	DVB-T2	WELVERDIEND	829	44	06	027°14'55.000"	-26°26'47.000"	GP	Н	GP2	44	859
	DVB-T2	BEZVALLEY	829	44	0.5	028°05'04.000"	-26°11'41.000"	GP	V	GP2	44	829
	DVB-T2	HEL DERKRUIN	658	44	20	027°51'32.000"	-26°06'05.000"	GP	Λ	GP2	44	658
_	DVB-T2	JOHANNESBURG	829	44	20	028°00′26.000″	-26°11'31.000"	GP	Н	GP2	44	859
_	DVB-T2	MENLO PARK	859	44	0.04	028°16'09.000"	-25°46'15.000"	GP	V	GP2	44	658
_	DVB-T2	MONDEOR	658	44	0.5	027°59'37.000"	-26°16'54.000"	GP	V	GP2	44	658
	DVB-T2	MULBARTON	829	44	0.03	028°03'56.000"	-26°17'36.000"	GP	V	GP2	44	829
_	DVB-T2	PRETORIA	829	44	0.2	027°59′03.000"	-25°41'20.000"	GЪ	н	GP2	44	859
	DVB-T2	PRETORIA NORTH	829	44	0.25	028°10'07.000"	-25°41'25.000"	GP	V	GP2	44	859
$\overline{}$	DVB-T2	SUNNYSIDE	658	44	20	028°12'24.000"	-25°45'53.000"	GP	Λ	GP2	44	658
	DVB-T2	LINMEYER	658	44	0.1	028°04'16.000"	-26°16'08.000"	GP	V	GP2	44	658
_	DVB-T2	HEIDELBERG	859	44	1	028°20'53.000"	-26°29'19.000"	GP	Λ	GP2	44	658
$\overline{}$	DVB-T2	PORT SHEPSTONE	626	40	74	030°17'17.000"	-30°44'07.000"	KN	Н	KZ2	40	626
\rightarrow	DVB-T2	DONNYBROOK	979	40	09	029°51'19.000"	-29°54'56.000"	KN	Н	KZ2	40	979
\rightarrow	DVB-T2	NEWCASTLE	626	40	1	029°57'12.000"	-27°43'07.000"	KN	Λ	KZ2	40	626
$\overline{}$	DVB-T2	VRYHEID	626	40	10	030°47'38.000"	-27°44′27.000″	KN	Н	KZ2	40	626
$\overline{}$	DVB-T2	GLENCOE	626	40	20	029°56′51.000″	-28°09'04.000"	KN	Н	KZ2	40	626
	DVB-T2	LADYSMITH	626	40	1	029°47'18.600"	-28°35'23.000"	KN	V	KZ2	40	626
_	DVB-T2	ESHOWE	626	40	63	031°17'37.000"	-28°51'29.000"	KN	Н	KZ2	40	626
$\overline{}$	DVB-T2	UBOMBO	626	40	20	032°04'52.000"	-27°33'42.000"	KN	Н	KZ2	40	626
_	DVB-T2	KOKSTAD	626	40	0.4	029°29′24.000″	-30°36'42.000"	KN	Λ	KZ2	40	626
_	DVB-T2	PONGOLA	626	40	1.5	031°39'00.000"	-27°31'34.000"	KN	V	KZ2	40	626
	DVB-T2	EMP ANGENI	979	40	0.25	031°53'31.000"	-28°44'38.000"	KN	Λ	KZ2	40	626
$\overline{}$	DVB-T2	GREYTOWN	626	40	10	030°32'10.000"	-29°00'46.000"	X	11	623	45	909
-									4	7	ì	070

1 DVB-17 NMOOI RIVER 668 41 10 GREATION OFFICE RN 4 10 GREATION OFFICE RN 4 10 GREATION OFFICE RN 4 RN 10 NA 1 RN	No.	MUX	TIG	TX-Name	Freq.	СН	ERP	Longitude	Latitude	Province	Pol	NEN	СН	Freq.
2 DYB-T1 NONGORAMA 62 63	51	2	DVB-T2	MOOI RIVIER	626	40	10	029°52'04.000"	-29°11'07.000"	KN	н	KZZ	40	626
2 DNB-TI PRINCEAL PRINCEARING 665 60 60 60 60 7	- 1	2	DVB-T2	NONGOMA	626	40	10	031°3927.000"	-27°54'18.000"	KN	н	KZZ	40	626
2 DUEBANY 626 40 100 00442000 28.845100 KN N I KN2 40 2 DUEBANY 626 40 0.01 0140215000 287825000 KN N N Z 40 2 DUEBAT VOERPORT 60 40 20 010000 287821000 KN N KN N KN 40 2 DUEBAT THEBURARD 50 20 010000 287410000 KN N KN N KN N KN A 10 10 A A 10 A A 10 A A 10 A		2	DVB-T2	PIETERMARITZBURG	626	40	20	030°19'49.000"	-29°34'47.000"	KN	Λ	K22	40	626
2 DVB-17 VERPORTLAM 656 40 01 01 01 02 02 03	\vdash	2	DVB-T2	DURBAN	626	40	100	030°43'00.000"	-29°46′11.000″	KN	Н	KZZ	40	626
2 DVB-T7 OVERPORT 656 40 20 010/975410000 RN V KZ 40 2 DVB-T7 THE BLUFF 60 40 23 0179410410000 23/29/240800 L H LPDB 40 10	Н	2	DVB-T2	VERULAM	626	40	0.01	031°02'19.000"	-29°38'25.000"	KN	Λ	KZZ	40	626
2 DVB-T7 THE BLUFF 656 40 20 0110041000 229-279-000 L V KZ 13 2 DVB-T3 1 CLOUE RICHARDT 546 36 30 21 01-00-00 1.0 V L V L D 2 DVB-T3 1 CLOUE RICHARDT 546 30 30 01 0	\dashv	2	DVB-T2	OVERPORT	979	40	26	030°59'44.000"	-29°50′12.000″	KN	Λ	KZ2	40	626
2 DVB-L7 THARAZAMBI 570 31 0 0.079-020-00 2.4 H LPA 3 2 DVB-L7 THARAZAMBI 546 30 0 0.079-020-00 L H L L H LPB 3 2 DVB-L7 TGLGR RREGARDY 546 30 6 0 0.079-000-0 LPB-000-0 L H LPB 30 2 DVB-L7 POTORITRESENCY 546 30 6 0 0.079-00 LPB H H LPB 30 2 DVB-L7 POTORITRESENCY 54 31 10 0 </td <td>\dashv</td> <td>2</td> <td>DVB-T2</td> <td>THE BLUFF</td> <td>979</td> <td>40</td> <td>2.5</td> <td>031°00′44.060″</td> <td>-29°54'40.880"</td> <td>KN</td> <td>Λ</td> <td>KZ</td> <td>40</td> <td>626</td>	\dashv	2	DVB-T2	THE BLUFF	979	40	2.5	031°00′44.060″	-29°54'40.880"	KN	Λ	KZ	40	626
2 DVB-17 LUCINSTREHARDI 546 30 30 030-9010-000 1 V IPDB 30 2 DVB-17 LUCARREN 546 30 60 030-9010-00 1 V IPDB 30 2 DVB-17 STRAREN 546 30 61 010-2651-000 1 V IPDB 30 2 DVB-17 POLDERRUIT 554 31 61 010-2651-000 1 H IPDB 30 2 DVB-17 POLDERRUIT 554 31 10 010-2651-000 1 H IPDB 31 2 DVB-17 POLDERRUIT 554 31 10 010-2750-00 1 H IPDB 31 2 DVB-17 POLDERRUIT 554 31 10 010-2750-00 1 H IPD 31 2 DVB-17 SACADERRO 54 42 1 000-2750-00 1 H IPD 31 2 DVB-17 SACADERRO 54	-	2	DVB-T2	THABAZIMBI	570	33	29	027°36'51.000"	-24°27'59.000"	Т	Н	LP2A	33	570
2 DVB-T3 TIZAMERN 346 30 6000001000 224-706.00 1 H L D 2 DVB-T3 TIZAMERN 346 30 60000010 224-706.00 1 N I N I D 2 DVB-T3 POLDERIRASRUS 346 30 60 0201410.000 1 N I N I D D D D D D N N N H N D	\dashv	2	DVB-T2	LOUIS TRICHARDT	546	30	23	029°45'26.000"	-23°00′02.000"	Т	Λ	LP2B	30	546
2 DVB-17 SURBARA 546 30 16 007-024-000 L V L LPB 30 2 DVB-17 POURBITS SERBARUST 544 30 10 007-020-00 1 H LPB 30 2 DVB-17 POUBLIZ POUBLIZ CACCATA 31 10 007-020-00 27-97-00 1 H NED 314 2 DVB-17 PURBLIZ PURBLIZ CACCATA 31 10 100-02-00 27-97-00 NB H NB 14 NB NB N NB N NB 14 NB NB N NB	\dashv	2	DVB-T2	TZANEEN	546	30	80	030°00'17.000"	-23°47'06.000"	Т	Н	LP2B	30	546
2 DVB-T2 POTORIERRENEUS 54.6 3.0 G97291410000 L H LP3B 5.0 2 DVB-T2 POTORIERRENEUS 54.6 3.0 G972916000 L H N.B. 54.0 2 DVB-T2 POTORIERRUST 63.2 4.2 </td <td>\dashv</td> <td>2</td> <td>DVB-T2</td> <td>SIBASA</td> <td>546</td> <td>30</td> <td>16</td> <td>030°2654.000"</td> <td>-22°56'57.000"</td> <td>Г</td> <td>Λ</td> <td>LP2B</td> <td>30</td> <td>546</td>	\dashv	2	DVB-T2	SIBASA	546	30	16	030°2654.000"	-22°56'57.000"	Г	Λ	LP2B	30	546
2 DVB-T2 HOEDSRUIT 554 31 10 090*2908000 27*2920000 L H NP 55 2 DVB-T2 HOEDSRUIT 554 31 16 090*29000 T H NP 14 NP 2 DVB-T2 DANE-T2 DANE-T2 SABIL 51 10 090*292000 27*9711000 NP H NP 55 2 DVB-T2 SABURT 51 10 090*292000 27*9711000 NP H NP 55 2 DVB-T2 SABURT 51 10 090*292000 27*9711000 NP H NP 55 2 DVB-T2 SARDERRICH 53 11 0 090*29200 27*97121000 NP H NP 55 2 DVB-T2 ALCARDRERICH 53 11 0 090*29200 27*97100 NP H NP NP 48 NP NP NP NP<	-	2	DVB-T2	POTGETERSRUS	546	30	62	029°14'10.000"	-24°09′24.000"	Т	н	LP2B	30	546
2 DVB-T2 VOLKSRUST 642 412 11 OP9-57148560 AB H AB 554 2 DVB-T2 PURB-T2 PRITRETRE 534 41 76 029-57146560 7-70/11000 AB H AB 554 2 DVB-T2 BAB-T2 SABE 31 0.0 029-473-000 AB H AB 554 2 DVB-T2 SABELLA 534 31 0.0 029-570-000 AB H AB 554 2 DVB-T2 CAROLINA 534 31 0.0 029-570-00 AB H AB 554 2 DVB-T2 CAROLINA 51 10 039-575-00 26-717-00 AB H AB 554 2 DVB-T2 CARROLLARA 51 10 039-575-00 AB H AB	Н	2	DVB-T2	HOEDSPRUIT	554	31	10	030°52'08.000"	-24°32'30.000"	Т	Н	MP2	554	31
2 DVB-T2 PHETREHIEF 354 31 36 05094103.00C 2277911100C MP H MP2 53 2 DVB-T2 SABIE 52 31 0.0 0297372600C 267730.00 MP H MP2 53 2 DVB-T2 SABIE 52 31 0.1 03094534.00 236797100 MP Y MP2 53 2 DVB-T2 CARDERTONA 534 31 0.0 03092734.00 22679737.00 MP Y MP2 53 2 DVB-T2 AKIDARIANIHILIS 534 31 0.0 03092734.00 22679730.00 MP H MP DR DR </td <td>\vdash</td> <td>2</td> <td>DVB-T2</td> <td>VOLKSRUST</td> <td>642</td> <td>42</td> <td>1.5</td> <td>029°53'14.630"</td> <td>-27°18'36.000"</td> <td>MP</td> <td>н</td> <td>MP2</td> <td>554</td> <td>31</td>	\vdash	2	DVB-T2	VOLKSRUST	642	42	1.5	029°53'14.630"	-27°18'36.000"	MP	н	MP2	554	31
2 DVNB-T2 DAVELL 31	Н	2	DVB-T2	PIET RETIEF	554	31	9/	030°41'03.000"	-27°01'11.000"	MP	н	MP2	554	31
2 NAB-T2 SABIE 534 31 0.1 Good-45 at 0000-7 25-0744 000 AP V AP 53-4 2 DVB-T2 SABIE 534 31 10 029-123-10000-7 AP V NP 53-4 2 DVB-T2 CAROLINAN 534 31 10 030-3757-000-7 AP H NP 53-5 2 DVB-T2 CARRIANAN HILLS 534 31 10 030-3757-000-7 AP H NP 14 NP 2 DVB-T2 ALEXANDER BAY 534 31 10 029-37-37-000 AP H NP		2	DVB-T2	DAVEL	522	27	20	029°37'26.000"	-26°27"30.000"	MP	Н	MP2	554	31
2 DVB-T2 STANDER ION 554 31 0.25 GP27151000° APP T5 N. MP D5 554 51 51 0.05 P17271000° APP T6 N. MP D5 554 51 10 0.0793771000° APP T6 N. MP D5 554 51 11 0.0793771000° APP T7 N. MELSPRUIT 534 31 1 0.099373400° 25-49541000° APP T6 N. MP D7 1 N. MP D7	_	2	DVB-T2	SABIE	554	31	0.1	030°45'34.000"	-25°07'44.000"	MP	Λ	MP2	554	31
2 DVB-T3 CAROLINAA 554 31 10 03092737000 AP H MPD 515 2 DVB-T3 MDB-EBURG 554 31 50 030927374000 AP H NPD 515 2 DVB-T3 MIDDELBURG 554 31 50 020927374000 AP H NPD 51 2 DVB-T3 ALEXANDER BAY 554 31 50 020927374000 AP H NPD 4 NPD 4 NPD 4 NPD H NPD H NPD H NPD H NPD H NPD H NPD NPD H NPD NPD H NPD NPD H NPD		2	DVB-T2	STANDERTON	554	31	0.25	029°12'51.000"	-26°57'37.000"	MP	Λ	MP2	554	31
2 DVB-T3 NEISERULIT 544 31 76 030-3453.000 78-355.000 MP H MP2 514 514 31 30 032-3753.000 NB H MP2 514 514 31 30 032-3753.000 NB H NB 514 51 01 012-3753.000 NB H NB 51 51 01 012-3753.000 NB H NB 51 51 01 012-3753.000 NB H NB 51 51 01 012-3759.000 NB H NB 72 51 51 01 012-3759.000 NB H NB NB 51 51 01 012-3759.000 NB H NB NB 74	_	2	DVB-T2	CAROLINA	554	31	10	030°37'57.000"	-26°10′37.000″	MP	Н	MP2	554	31
1 DNB-T2 MIDDELBURG 554 31 50 029-373-04000 APP H MPP 554 2 DVB-T2 ALLEXANDER BAY 534 31 60 0.23-3743000 NC H NC NC NC NC NC 1 154 31 0.0 0.03-37511000 NC H NC NC<	70	2	DVB-T2	NELSPRUIT	554	31	76	030°46'35.000"	-25°30′55.000″	MP	Н	MP2	554	31
1 DVB-TC KURUMAN HILLS 554 31 80 0.23-53-58.000 27-55/13000 NC H NC2A 5154 2 DVB-TC KIEKANDER BAY 554 31 0.1 016-579-50.000 NC H NC2A 51 2 DVB-TC KIEKANDER BAY 574 46 10 024-575-000 NW H NW 51 2 DVB-TC CRERESTIANA 674 46 10 024-575-000 NW H NW 674 2 DVB-TC CRERESTIANA 674 46 10 024-575-000 NW H NW 674 2 DVB-TC CRERESTIANT 674 46 10 024-955-000 NW H NW 674 2 DVB-TC RUSTENBERG 674 46 10 027-97-06-00 NW H NW 674 86 10 027-97-06-00 NW H NW 674 86	-	2	DVB-T2	MIDDELBURG	554	31	20	029°23'24.000"	-25°49′04.000"	MP	Н	MP2	554	31
2 DVB-T2 ALEXANDER BAY 554 31 0.1 016*3949000*** 28°*5632000** NC V NCZA 55 2 DVB-T2 KIMBERLEY 504 24 66 243*541000*** 28°*5114000** NW H NWC2A 51 2 DVB-T2 CHRIRITANA 674 46 63 263*5114000** NW H NWC 14 2 DVB-T2 CHRIRITANA 674 46 10 023*91000*** 27*913000** NW H NWC 674 2 DVB-T2 PIKETBERG 674 46 10 023*91000*** 27*913000** NW H NWC 674 2 DVB-T2 PIKETBERG 610 32 62*9000*** 27*9100 NW H NWC 67 2 DVB-T2 PIKETBERG 61 32 62*9000*** 32*91000*** NW H NWC 67 67 2 DVB-T2 PIKETBERG A		2	DVB-T2	KURUMAN HILLS	554	31	80	023°33'38.000"	-27°53'13.000"	NC	Н	NC2A	554	31
1 DUB-TO KIMBERLEY 506 25 68 0.24*5415.000° NN H FSD 504 2 DUB-TO CHRISTIANA 674 46 10 0.24*551000° NN H NND 674 2 DUB-TO ZERRERERERER 674 46 10 0.24*551000° NN H NND 674 2 DUB-TO PRICIATERRERERE 674 46 10 0.24*955000° NN H NND 674 2 DUB-TO PRICIATERRERERE 674 46 10 0.24*955000° 200 NN H NND 674 2 DUB-TO PRICIATERRERERE 674 46 10 0.24*95500° 200 MN H NND 674 2 DUB-TO PRICIATERRERERE 674 41 60 108*41400° NN H NND 674 MN MN MN MN MN 674 MN MN <td>\dashv</td> <td>2</td> <td>DVB-T2</td> <td>ALEXANDER BAY</td> <td>554</td> <td>31</td> <td>0.1</td> <td>016°29'49.000"</td> <td>-28°36'32.000"</td> <td>NC</td> <td>Λ</td> <td>NC2A</td> <td>554</td> <td>31</td>	\dashv	2	DVB-T2	ALEXANDER BAY	554	31	0.1	016°29'49.000"	-28°36'32.000"	NC	Λ	NC2A	554	31
1 DVB-T2 CHRISTIANA 674 46 10 0.24°55510.00° 27°55103.00° NW H NWD 674 2 DVB-T2 SCHWELZER RENEKE 674 46 63 0.26°02511.00° 23°511.00° NW H NWD 674 2 DVB-T2 SCHWELZER RENEKE 674 46 10 0.25°12010° 23°5131.00° NW H NWD 674 2 DVB-T2 PURETIBERG 674 46 10 0.25°1200° 23°56.00 NWD H NWD 674 67 67 10 0.25°1200° 23°575.00 NWD H NWD 674 67 67 10 0.25°1200° 23°575.00 NWD H NWD 674 67 10 0.25°1200° 23°575.00 NWD H NWD 674 67 10 0.25°1200° 23°575.00 NWD H NWD 67 67 67 67 67 67 67	\dashv	2	DVB-T2	KIMBERLEY	206	25	89	024°54'19.000"	-28°51'14.000"	NC	Н	FS2	506	25
1 DVB-T2 CAPERIORY 674 46 61 0.25°137,000° NW H NW2 674 2 DVB-T2 SCHWEIZERRENEKE 674 46 100 0.25°1367,000° 27°51750 NW H NW2 674 2 DVB-T2 RUNEITERRENEKE 610 38 5.0 0.27°07000° 27°956.000° NW H NW2 674 2 DVB-T2 PUREITERREG 610 38 5.0 0.27°07000° 27°956.000° NW H NW2 674 2 DVB-T2 PUREITERREGG 610 38 5.0 0.27°10000° 32°40°6 NW H NW2 538 2 DVB-T2 VULIERREGGBAY 538 29 6.0 0.22°1000° 33°40°6 NW H NW2 538 2 DVB-T2 HERMANUS 538 29 6.03 0.23°252300° NW H WC 1 NW2 1 NW2 <td< td=""><td>Н</td><td>2</td><td>DVB-T2</td><td>CHRISTIANA</td><td>674</td><td>46</td><td>10</td><td>024°55'50.000"</td><td>-27°53'03.000"</td><td>MM</td><td>н</td><td>NW2</td><td>674</td><td>46</td></td<>	Н	2	DVB-T2	CHRISTIANA	674	46	10	024°55'50.000"	-27°53'03.000"	MM	н	NW2	674	46
1 DVB-T2 SCHWEIZER RENEKE 674 46 100 024*1957000° Z7°08'13 000° NW H NWD 674 2 DVB-T2 PHET PIESSIS 674 46 10 024*4955000° Z6°14'56.000° NW H NWD 674 2 DVB-T2 PHET PIESSIS 674 45 52 10*2*0*000° 25*49*09.000° NW H NWD 674 2 DVB-T2 PHET BERG 614 41 100 022*16*0*0.00° WC H WC 35 50 10*2*0*0*0*0.00° WC H WC 35 50 10*0*0*0*0*0*0*0*0*0*0*0*0*0*0*0*0*0*0*	\dashv	2	DVB-T2	ZEERUST	674	46	63	026°02'51.000"	-25°51'37.000"	NW	Н	NW2	674	46
2 DVB-T2 PHET PILE SSIS 674 46 10 0.24*4955.000° -26*1456.000° NW H NWD 674 2 DVB-T2 PUNB-TBERDERG 610 38 56.1 0.27*0706.000° -23*9676.000° WC H NWD 674 2 DVB-T2 PURETBERG 610 38 56.1 0.18*4419.000° -23*9670.000° WC H WWD 518 2 DVB-T2 CUDTSHOORN 634 41 60 0.22*160.000° -33*800.000° WC H WC 318 50 10 0.22*160.000° -33*800.000° WC H WC 318 51 60 0.22*90250.000° -33*8208.000° WC H WC 318 51 60 0.22*90250.000° -33*8208.000° WC H WC 318 51 60 0.22*90250.000° -33*8208.000° WC H WC 318 318 51 51 51 51 51 5	\dashv	2	DVB-T2	_	674	46	100	025°13'07.000"	-27°08'13.000"	NW	Н	NW2	674	46
2 DVB-T2 RUSTENBURG 674 46 32 Q27°0706,000° 23°355000° NW H NWC 558 2 DVB-T2 PHEETBERG 610 38 56.1 Q18*4419,000° 32°4509,000° WC H WC 588 2 DVB-T2 VULLIERSDORP 634 41 100 Q22°3025,000° 33°4516,000° WC H WC 538 2 DVB-T2 BEAUFORT WEST 538 29 60 Q22°3025,000° WC H WC 33°4516,000° WC H WC 33°4516,000° WC H WC 338 30° 32°5725,000° 33°4514,000° WC H WC 338 30° 0.125 022°2704,000° 33°4514,000° WC H WC 338 30° 0.125 023°2725,000° 33°4514,000° WC H WC 33°8 30° 30° 10°802,310,000° 33°404,17,000° WC 40° 40° 30° <t< td=""><td>\dashv</td><td>2</td><td>DVB-T2</td><td>PIET PLESSIS</td><td>674</td><td>46</td><td>10</td><td>024°49'55.000"</td><td>-26°14'56.000"</td><td>NW</td><td>Н</td><td>NW2</td><td>674</td><td>46</td></t<>	\dashv	2	DVB-T2	PIET PLESSIS	674	46	10	024°49'55.000"	-26°14'56.000"	NW	Н	NW2	674	46
2 DVB-T2 PIKETBERG 610 38 56.1 018-419,0000 322-49/09,000 WC H WC 538 2 DVB-T2 VULLERSDORN 634 41 100 022-1602.000 335-49/16 6000 WC H WC 538 2 DVB-T2 DVB-T2 DLETRERSDORN 538 29 41 60 019-2270.000 335-538.000 WC H WC 538 2 DVB-T2 DLETRERNBERG BAY 538 29 60 012-22704.000 325-5175.000 WC H WC 338 2 DVB-T2 HERMANUS 538 29 0.20 010-1318.000 WC WC WC 338 2 DVB-T2 HERMANUS 538 29 0.50 019-1318.000 WC WC WC 338 2 DVB-T2 HERMANUS 538 29 0.50 019-132-522.000 WC WC WC 338 2	_	2	DVB-T2	RUSTENBURG	674	46	32	027°0706.000"	-25°36′56.000″	NW	Н	NW2	674	46
2 DVB-T2 OUDTISHOORN 634 41 10 022*160.2000* 33*40*16.000* WC H WC 538 2 DVB-T2 VIII.LERSDORP 634 41 60 019*30*25.000* 33*58*09.000* WC H WC 538 2 DVB-T2 BEAUFORI WEST 538 29 60 022*2025.000* 33*53*8000* WC H WC 538 2 DVB-T2 HERMANUS 538 29 6.01 023*22225.000* 33*54*26.000* WC W WC 538 2 DVB-T2 HERMANUS 538 29 6.03 03*2*0225.000* 34*24*1*000* WC W WC 358 2 DVB-T2 HERMANSCHHOEK 538 29 0.50 019*0*426.000* 33*54*26.000* WC WC WC 358 2 DVB-T2 TYGERBERGG 538 29 0.50 018*2*3*10.000* WC WC 358 2 <td>\dashv</td> <td>2</td> <td>DVB-T2</td> <td>PIKETBERG</td> <td>610</td> <td>38</td> <td>56.1</td> <td>018°44'19.000"</td> <td>-32°49′09.000"</td> <td>WC</td> <td>Н</td> <td>WC2</td> <td>538</td> <td>29</td>	\dashv	2	DVB-T2	PIKETBERG	610	38	56.1	018°44'19.000"	-32°49′09.000"	WC	Н	WC2	538	29
2 DVB-T2 VILLERSDORP 634 41 60 019°3 02.5000° WC H WC 538 2 DVB-T2 BEAUFORT WEST 538 29 60 0.22°30 5000° WC H WC 538 2 DVB-T2 GEORGE 538 29 6.0 0.22°37 04,000° WC H WC 538 2 DVB-T2 HERMANUS 538 29 0.403 0.92°27 25.000° 34°474/1,000° WC V WC 538 2 DVB-T2 HERMANSCHHOEK 538 29 0.403 0.93°27 24.000° 34°47/4/1,000° WC V WC 338 2 DVB-T2 HERMANSCHHOEK 538 29 0.50 0.93°27 24.000° 34°47/4/1,000° WC V WC 338 2 DVB-T2 TYGERBERGG 538 29 0.50 0.93°27 24.000° WC V WC 338 2 DVB-T2 TYGERBERGG <	\dashv	2	DVB-T2	OUDTSHOORN	634	41	100	022°16'02.000"	-33°40′16.000″	WC	Н	WC2	538	29
2 DVB-T2 DRB-T2 DRB-TD TABLE MEAUFORT WEST 538 29 64 0.223704.000° 325578.000° WC H WC 538 2 DVB-T2 PLETIENBERGBAY 538 29 6.03 0.125704.000° 3355738.000° WC H WC 538 2 DVB-T2 HERMANUS 538 29 0.403 019°1318.000° 34°247.000° WC V WC 538 2 DVB-T2 HERMANSCHHOEK 538 29 0.403 019°042.000° 34°241.000° WC V WC 538 2 DVB-T2 HANSCHHOEK 538 29 2 0.201 03°252.22 WC V WC 358 2 DVB-T2 HYGERBERGG 538 29 0.20 018°275.000° 33°542.000° WC V WC 538 2 DVB-T2 AURORA 538 29 0.20 018°27310.000° WC V WC	-	2	DVB-T2	VILLERSDORP	634	41	09	019°30'25.000"	-33°58'09.000"	WC	Н	WC2	538	29
2 DVB-T2 GEORGE 538 29 34 0.22-2704,000° 33-55/38,000° WC H WC 538 2 DVB-T2 HERNAANUS 538 29 0.135 0.23-2225,000° 34-03/34,000° WC V WC 538 2 DVB-T2 HERNAANUS 538 29 0.501 0.29-271,000° 34-04/11,000° WC V WC 538 2 DVB-T2 FRANSCHHOEK 538 29 0.501 0.29-0231,000° 34-04/11,000° WC V WC 338 2 DVB-T2 FYGERBERG 538 29 0.20 0.18-2744,000° WC V WC 338 2 DVB-T2 FYGERBERG 538 29 0.2 0.18-2749,000° WC V WC 338 2 DVB-T2 AURORA 538 29 0.2 0.18-273,000° 33-54,000° WC V WC 338 2 DVB-T2	\dashv	2	DVB-T2	BEAUFORT WEST	538	29	09	022°30'25.000"	-32°15'29.000"	WC	Н	WC2	538	29
2 DVB-T2 PLETIENBERG BAY 538 29 0.125 0.322225.0000 34°03'34,000° WC V WC 538 2 DVB-T2 HERMAANUS 538 29 0.603 019°1718.000° MC V WC 538 2 DVB-T2 FRANSCHHOEK 538 29 0.501 023°023.1000° 33°54'26.000° WC V WC 538 2 DVB-T2 TVGERBERG 538 29 0.501 018°3754'000° WC V WC 538 2 DVB-T2 TVGERBERG 538 29 0.20 018°3754'000° WC V WC 338 2 DVB-T2 TVGERBERG 538 29 0.2 018°375'000° 33°57'2000° WC V WC 338 2 DVB-T2 TCLIFTON 538 29 0.1 018°273'1000° 33°56'30.00° WC V WC 338 2 DVB-T2 TGRABOUW </td <td>\dashv</td> <td>2</td> <td>DVB-T2</td> <td>GEORGE</td> <td>538</td> <td>29</td> <td>34</td> <td>022°27'04.000"</td> <td>-33°55'38.000"</td> <td>WC</td> <td>Н</td> <td>WC2</td> <td>538</td> <td>29</td>	\dashv	2	DVB-T2	GEORGE	538	29	34	022°27'04.000"	-33°55'38.000"	WC	Н	WC2	538	29
2 DVB-T2 HERMANUS 538 29 0.603 01971718.0000 3472447.0000 WC V WC 538 2 DVB-T2 KINYSNA 538 29 0.501 023-02231.0000 347-2447.0000 WC V WC 538 2 DVB-T2 FRANSCHHOEK 538 29 0.5 0197-3546.000 335-5476.000 WC V WC 538 2 DVB-T2 TVGERBERG 538 29 0.5 0187-375.000 WC V WC 338 2 DVB-T2 TVGERDERC 538 29 0.5 0187-375.000 34-0515.000 WC V WC 358 2 DVB-T2 CLIFTON 538 29 0.1 0187-2515.000 34-0575.000 WC V WC 358 2 DVB-T2 CLIFTON 538 29 0.1 0187-2515.000 34-0575.000 WC V WC 358 2	_	2	DVB-T2		538	29	0.125	\rightarrow	-34°03'34.000"	WC	Λ	WC2	538	29
2 DVB-T2 KNYSNA 538 29 0.501 0.23°0231.000° 34°04'17.000° WC V WC 538 2 DVB-T2 FRANSCHHOEK 538 29 2 019°0426.000° 33°5476.000° WC V WC 538 2 DVB-T2 TYGERBERG 538 29 50 018°354.000° WC V WC 538 2 DVB-T2 AURORA 538 29 60 018°3755.000° WC V WC 538 2 DVB-T2 CAPE TOWN 538 29 60 018°2737.000° 34°075.000° WC V WC 538 2 DVB-T2 CLIFTON 538 29 01 018°2737.000° 34°076.000° WC V WC 538 2 DVB-T2 CRABOUW 538 29 1 018°580.000° 34°076.000° WC V WC 538 2 DVB-T2 CRABOUW	\dashv	2	DVB-T2	HERMANUS	538	29	0.603	\rightarrow	-34°24'47.000"	WC	Λ	WC2	538	29
2 DVB-T2 FRANSCHHOEK 538 29 2 019°04726,000° 33°54726,000° WC V WC 538 2 DVB-T2 TYGERBERG 538 29 50 018°35746,000° 33°52729,000° WC V WC 538 2 DVB-T2 AURORA 538 29 60 018°3574000° 33°5729,000° WC V WC 538 2 DVB-T2 CLIFTON 538 29 60 018°27315,000° 33°5630,000° WC W WC 538 2 DVB-T2 CLIFTON 538 29 61 018°27310,000° 34°6741000° WC 7 WC 538 2 DVB-T2 CRABOUW 538 29 1 018°27810,000° 34°67410,000° WC 7 WC 538 2 DVB-T2 CRABOUW 538 29 4 018°27810,000° 34°67410,000° WC 7 WC 538	\dashv	2	DVB-T2	KNYSNA	538	29	0.501	023°02'31.000"	-34°04'17.000"	WC	Λ	WC2	538	29
2 DVB-T2 TYGERBERG 538 29 30 018°3546,000° -33°52729,000° WC V WC 538 2 DVB-T2 AURORA 538 29 0.25 018°38'29,000° 33°49'39,000° WC V WC 538 2 DVB-T2 CLIFTON 538 29 0.1 018°2731,000° 33°49'39,000° WC V WC 538 2 DVB-T2 CLIFTON 538 29 0.1 018°2731,000° 33°49'39,000° WC H WC 538 2 DVB-T2 FARABOUW 538 29 0.1 018°278(0.00° WC V WC 538 2 DVB-T2 PAARI 538 29 4 018°278(0.00° 33°42/51.00° WC V WC 538 2 DVB-T2 PAARI 538 29 4 018°278(0.00° 33°41/51.00° WC V WC 538 2 DVB-		2	DVB-T2	FRANSCHHOEK	538	29	2	019°04'26.000"	-33°54'26.000"	WC	Λ	WC2	538	29
2 DVB-II2 AURORA 538 29 0.25 018°3829,000° -33°49/39,000° WC V WC 538 2 DVB-II2 CAPE TOWN 538 29 50 018°223/15,000° WC H WC 538 2 DVB-II2 CLIFTON 538 29 0.1 018°223/1000° 33°56/30 WC H WC 538 2 DVB-II2 FRABOUW 538 29 0.1 018°223/1000° 34°05/1000° WC V WC 538 2 DVB-II2 GRABOUW 538 29 0.1 018°223/5000° 34°05/1000° WC V WC 538 2 DVB-II HOUTBAY 538 29 4 018°5623/500° 33°42/51/600° WC V WC 338 2 DVB-II SEA POINT 538 29 0.4 018°5623/500° 33°54/51/600° WC V WC 338 2 <t< td=""><td>_</td><td>2</td><td>DVB-T2</td><td>TYGERBERG</td><td>538</td><td>29</td><td>20</td><td>018°35'46.000"</td><td>-33°52'29.000"</td><td>WC</td><td>Λ</td><td>WC2</td><td>538</td><td>29</td></t<>	_	2	DVB-T2	TYGERBERG	538	29	20	018°35'46.000"	-33°52'29.000"	WC	Λ	WC2	538	29
2 DVB-T2 CAPE TOWN 538 29 50 018°27515.000° 34°0715.000° WC H WC 538 2 DVB-T2 CLIFTON 538 29 0.1 018°2737.000° 33°56'30.000° WC H WC 538 2 DVB-T2 FISHHOEK 538 29 0.1 018°2761.000° 34°60'50.00° WC V WC 538 2 DVB-T2 GRABOUW 538 29 4 018°56'20.000° WC V WC 538 2 DVB-T2 PAARL 538 29 4 018°56'20.000° 34°0'60.500° WC V WC 538 2 DVB-T2 PAARL 538 29 4 018°56'20.000° 33°54'10.00° WC V WC 538 2 DVB-T2 SEA POINT 538 29 04 018°27'30.00° 33°54'13.00° WC V WC 538 2 DVB-T2		2	DVB-T2	AURORA	538	29	0.25	018°38'29.000"	-33°49′39.000″	WC	Λ	WC2	538	29
2 DVB-T2 CLIFTON 538 29 0.1 018°2237,000° -33°56/30,000° WC H WC 538 2 DVB-T2 FISHHOEK 538 29 0.1 018°26/12,000° -34°08/59,000° WC V WC 538 2 DVB-T2 GRABOUW 538 29 4 018°5205,000° -34°04/4,000° W V WC 538 2 DVB-T2 PAARL 538 29 4 018°295,300° -34°04/4,000° W V WC 538 2 DVB-T2 SEA POINT 538 29 4 018°295,300° -34°07/4,000° W V WC 538 2 DVB-T2 SIMONSTOWN 538 29 04 018°295,100° -34°11'54,000° W V WC 538 2 DVB-T2 SIMILIENBOSCH 538 29 0.4 018°295,100° -34°1'15,000° W V WC 538	Н	2	DVB-T2	CAPE TOWN	538	29	20	018°23'15.000"	-34°03'15.000"	WC	Н	WC2	538	29
2 DVB-T2 FISHHOEK 538 29 0.1 018°25612.000° 34°08′59.000° WC V WC 538 2 DVB-T2 GRABOUW 538 29 1 018°58'03.000° 34°06'05.000° WC V WC 538 2 DVB-T2 PAARL 538 29 4 018°258'03.000° 33°42'51.000° W V WC 538 2 DVB-T2 SARAPOINT 538 29 0.4 018°275'1000° 33°54'130' W V WC 538 2 DVB-T2 SIRONNSTOWN 538 29 0.4 018°275'1000° 33°54'150'00° WC V WC 538 2 DVB-T2 SIRLIENBOSCH 538 29 0.4 018°275'1000° 33°54'50'00° W V WC 538 2 DVB-T2 SIRLIENBOSCH 538 29 0.8 018°27'10'00° 33°54'50'00° W V WC 538	Н	2	DVB-T2	CLIFTON	538	29	0.1	018°22'37.000"	-33°56'30.000"	WC	н	WC2	538	29
2 DVB-T2 GRABOUW 538 29 1 018°5803.000° -34°60′60.000° WC V WC 538 2 DVB-T2 HOUT BAY 538 29 4 018°20′50.000° -34°00′44.000° WC V WC 538 2 DVB-T2 PAARL 538 29 0 018°50′23.000° -33°42′51.000° WC V WC 538 2 DVB-T2 SEA POINT 538 29 0 018°20′31.000° -33°54′33.000° WC V WC 538 2 DVB-T2 SIMONSTOWN 538 29 0 018°20′31.000° -33°54′33.00° WC V WC 538 2 DVB-T2 SILLENBOSCH 538 29 0 018°20′31.000° -33°54′50.00° WC V WC 538 2 DVB-T2 STELLENBONITAIN 538 29 0.8 018°20′10.00° -33°57′120.00° V V WC 538 2 DVB-T2 TABLE MOUNTAIN 538	Н	2	DVB-T2	FISHHOEK	538	29	0.1	018°2612.000"	-34°08'59.000"	WC	Λ	WC2	538	29
2 DVB-IT2 HOUT BAY 538 29 4 018°2056.000° -34°00'44,000° WC V WC2 538 2 DVB-IT2 PAARL 538 29 0.0 018°5613.000° -33°42'51.000° V V WC2 538 2 DVB-IT2 SEA POINT 538 29 0.4 018°253'1.000° -33°54'33.000° V V WC2 538 2 DVB-IT2 SIMONSTOWN 538 29 2 018°253'1.000° -33°54'39.000° WC V WC2 538 2 DVB-IT2 SILLENBOSCH 538 29 0.8 018°5210.000° -33°54'59.000° WC V WC2 538 2 DVB-IT2 TABLE MOUNTAIN 538 29 0.8 018°2413.000° -33°57'12.000° V V WC2 538	\dashv	2	DVB-T2	GRABOUW	538	29	1	018°58'03.000"	-34°06′05.000″	WC	Λ	WC2	538	29
2 DVB-II2 PAARL 538 29 20 018°5623.000°-33°42°51.000° WC V WC 538 2 DVB-II2 SEA POINT 538 29 0.4 018°2531.000°-33°54°33.000° WC V WC 538 2 DVB-II2 SIMONSTOWN 538 29 2 018°2531.000°-34°11′54.000° WC V WC 538 2 DVB-II2 SILLENBOSCH 538 29 0.8 018°5210.000°-33°54′59.000° WC V WC 538 2 DVB-II2 TABLE MOUNTAIN 538 29 0.6 018°2413.000°-33°57′25.000° WC V WC 538	\dashv	2	DVB-T2	HOUTBAY	538	29	4	018°20'56.000"	-34°00′44.000"	WC	Λ	WC2	538	29
2 DVB-T2 SEA POINT 538 29 0.4 018°2751.000° -33°54'33.000° WC V WC2 538 2 DVB-T2 SIMONSTOWN 538 29 2 018°2737.000° -34°11'54.000° WC V WC2 538 2 DVB-T2 SIELLENBOSCH 538 29 0.8 018°5210.000° -33°54'59.000° WC V WC2 538 2 DVB-T2 TABLE MOUNTAIN 538 29 0.6 018°2413.000° -33°57'12.000° V V WC2 538	\dashv	2	DVB-T2	PAARL	538	29	20	018°5623.000"	-33°42′51.000″	WC	Λ	WC2	538	29
2 DVB-T2 SIMONSTOWN 538 29 2 018°2537.000°-34°11'54.000° VC V WC2 538 2 DVB-T2 STELLENBOSCH 538 29 0.8 018°5Z10.000°-33°54'59.000° VC V WC2 538 2 DVB-T2 TABLE MOUNTAIN 538 29 0.6 018°24'13.000°-33°57'25.000° VC V WC2 538	\dashv	2	DVB-T2	SEA POINT	538	29	0.4	018°23'51.000"	-33°54'33.000"	WC	Λ	WC2	538	29
2 DVB-T2 STELLENBOSCH 538 29 0.8 018°5Z10.000"-33°54°59.000" WC V WC2 538 2 DVB-T2 TABLE MOUNTAIN 538 29 0.6 018°2Z413.000"-33°57°23.000" WC V WC2 538		2	DVB-T2	SIMONSTOWN	538	29	2	018°25'37.000"	-34°11′54.000″	WC	Λ	WC2	538	29
2 DVB-T2 TABLE MOUNTAIN 538 29 0.6 0.18°2#13.000"-33°57'25.000" WC V WC2 538	_	2	DVB-T2		538	29	8.0	018°52'10.000"	_	WC	Λ	WC2	538	29
	0	2	DVB-T2		538	29	9.0	018°24'13.000"		WC	Λ	WC2	538	29

Note 1: Freq (MHz) and CH are the frequency and associated channel number at which the service shall be implemented in order to ensure that the IMT 700 and IMT 800 frequencies in order to clear the Frequency Band after analogue switch-off.

Note 2: No DTT assignments are above 694 MHz.

Note 3: Final Frequency and the associated final channel number is the frequency at which the station will operate in the provincial SFN network.

Note 4: In order to create a plan with the least possible interference the large SFN's were broken up into smaller SFN's in some provinces.

