

ITU Region 1 allocations and footnotes	South African allocations and footnotes	Typical Applications	Notes and Comments
RADIONAVIGATION-SATELLITE (Earth-to-space)	RADIONAVIGATION-SATELLITE (Earth-to-space)		
<p>5 010-5 030 MHz</p> <p>AERONAUTICAL MOBILE-SATELLITE (R) 5.443AA AERONAUTICAL RADIONAVIGATION RADIONAVIGATION-SATELLITE (space-to-Earth) (space-to-space) 5.328B 5.443B</p>	<p>5 010-5 030 MHz</p> <p>AERONAUTICAL MOBILE-SATELLITE (R) 5.443AA AERONAUTICAL RADIONAVIGATION RADIONAVIGATION-SATELLITE (space-to-Earth) (space-to-space) 5.328B 5.443B</p>		
<p>5 030-5 091 MHz</p> <p>AERONAUTICAL MOBILE (R) 5.443C AERONAUTICAL MOBILE-SATELLITE (R) 5.443D AERONAUTICAL RADIONAVIGATION</p> <p>5.444</p>	<p>5 030-5 091 MHz</p> <p>AERONAUTICAL MOBILE (R) 5.443C AERONAUTICAL MOBILE-SATELLITE (R) 5.443D AERONAUTICAL RADIONAVIGATION</p> <p>5.444</p>	Microwave Landing System	
<p>5 091-5 150 MHz</p> <p>FIXED-SATELLITE (Earth-to-space) 5.444A</p>	<p>5 091-5 150 MHz</p> <p>FIXED-SATELLITE (Earth-to-space) 5.444A</p>		

ITU Region 1 allocations and footnotes	South African allocations and footnotes	Typical Applications	Notes and Comments
AERONAUTICAL MOBILE 5.444B AERONAUTICAL MOBILE-SATELLITE (R) 5.443AA AERONAUTICAL RADIONAVIGATION 5.444	AERONAUTICAL MOBILE 5.444B AERONAUTICAL MOBILE-SATELLITE (R) AERONAUTICAL RADIONAVIGATION FIXED-SATELLITE (Earth-to-space) 5.444	NGSO MSS feeder links (5091 – 5150 MHz)	
5 150-5 250 MHz AERONAUTICAL RADIONAVIGATION FIXED-SATELLITE (Earth-to-space) 5.447A MOBILE except aeronautical mobile 5.446A 5.446B 5.446 5.446C 5.447 5.447B 5.447C	5 150-5 250 MHz AERONAUTICAL RADIONAVIGATION FIXED-SATELLITE (Earth-to-space) 5.447A MOBILE except aeronautical mobile 5.446A 5.446B 5.446 5.446C 5.447B 5.447C	NGSO MSS feeder links (5091 – 5150 MHz) WAS / RLAN (5150 – 5350 MHz) (indoor use only)	Radio Frequency Spectrum Regulations as amended (Annex B) (GG. No. 38641, 30 March 2015).
5 250-5 255 MHz EARTH EXPLORATION-SATELLITE (active) RADIOLOCATION SPACE RESEARCH 5.447D MOBILE except aeronautical mobile 5.446A 5.447F	5 250-5 255 MHz SPACE RESEARCH 5.447D MOBILE except aeronautical mobile 5.446A 5.447F	WAS / RLAN (5150 – 5350 MHz) (indoor use only)	Radio Frequency Spectrum Regulations as amended (Annex B) (GG. No. 38641, 30 March 2015).

ITU Region 1 allocations and footnotes	South African allocations and footnotes	Typical Applications	Notes and Comments
5.447E 5.448 5.448A	5.448A		
5 255-5 350 MHz EARTH EXPLORATION-SATELLITE (active) RADIOLOCATION SPACE RESEARCH (active) MOBILE except aeronautical mobile 5.446A 5.447F 5.447E 5.448 5.448A	5 255-5 350 MHz EARTH EXPLORATION-SATELLITE (active) RADIOLOCATION SPACE RESEARCH (active) MOBILE except aeronautical mobile 5.446A 5.447F 5.448A	WAS / RLAN (5150 – 5350 MHz) (indoor use only)	Radio Frequency Spectrum Regulations as amended (Annex B) (GG. No. 38641, 30 March 2015).
5 350-5 460 MHz EARTH EXPLORATION-SATELLITE (active) 5.448B SPACE RESEARCH (active) 5.448C AERONAUTICAL RADIONAVIGATION 5.449 RADIOLOCATION 5.448D	5 350-5 460 MHz EARTH EXPLORATION-SATELLITE (active) 5.448B SPACE RESEARCH (active) 5.448C AERONAUTICAL RADIONAVIGATION 5.449 RADIOLOCATION 5.448D		
5 460-5 470 MHz RADIONAVIGATION 5.449 EARTH EXPLORATION-SATELLITE (active) SPACE RESEARCH (active) RADIOLOCATION 5.448D 5.448B	5 460-5 470 MHz RADIONAVIGATION 5.449 EARTH EXPLORATION-SATELLITE (active) SPACE RESEARCH (active) RADIOLOCATION 5.448D 5.448B		
5 470-5 570 MHz	5 470-5 570 MHz		

ITU Region 1 allocations and footnotes	South African allocations and footnotes	Typical Applications	Notes and Comments
MARITIME RADIONAVIGATION MOBILE except aeronautical mobile 5.446A 5.450A EARTH EXPLORATION-SATELLITE (active) SPACE RESEARCH (active) RADIOLOCATION 5.450B 5.448B 5.450 5.451	MARITIME RADIONAVIGATION MOBILE except aeronautical mobile 5.446A 5.450A EARTH EXPLORATION-SATELLITE (active) SPACE RESEARCH (active) RADIOLOCATION 5.450B 5.448B	WAS / RLAN (5470 – 5725 MHz)	Radio Frequency Spectrum Regulations as amended (Annex B) (GG. No. 38641, 30 March 2015).
5 570-5 650 MHz MARITIME RADIONAVIGATION MOBILE except aeronautical mobile 5.446A 5.450A RADIOLOCATION 5.450B 5.450 5.451 5.452	5 570-5 650 MHz MARITIME RADIONAVIGATION MOBILE except aeronautical mobile 5.446A 5.450A RADIOLOCATION 5.450B 5.452	Location Radar Ground based meteorological radars (5600 – 5650 MHz) WAS / RLAN (5470 – 5725 MHz) Weather Radars (5600 – 5650 MHz)	Radio Frequency Spectrum Regulations as amended (Annex B) (GG. No. 38641, 30 March 2015).
5 650-5 725 MHz RADIOLOCATION MOBILE except aeronautical mobile 5.446A 5.450A Amateur Space research (deep space) 5.282 5.451 5.453 5.454 5.455	5 650-5 725 MHz RADIOLOCATION MOBILE except aeronautical mobile 5.446A 5.450A Amateur Space research (deep space) 5.282	WAS / RLAN (5470 – 5725 MHz) (indoor use only)	Radio Frequency Spectrum Regulations as amended (Annex B) (GG. No. 38641, 30 March 2015).

ITU Region 1 allocations and footnotes	South African allocations and footnotes	Typical Applications	Notes and Comments
<p>5 725-5 830 MHz</p> <p>FIXED-SATELLITE (Earth-to-space) RADIOLOCATION Amateur</p>	<p>5 725-5 830 MHz</p> <p>FIXED-SATELLITE (Earth-to-space) RADIOLOCATION Amateur Fixed NF16</p>	<p>Fixed links (5725 – 5850 MHz) RTT data (5795 – 5815 MHz) ISM applications (5725 – 5875 MHz) BFWA (5725-5850 MHz) ISM (5725-5875 MHz) RTTT (Road Transport and Traffic Telematics) (5795-5815 MHz) SRD applications (5 725-5 875 MHz) SRD - Transport and information control systems (5 805-5 815 MHz)</p>	<p>Radio Frequency Spectrum Regulations as amended (Annex B) (GG. No. 38641, 30 March 2015).</p> <p>BFWA in some SADC countries is limited to below 5850 MHz in order to protect FSS in the band 5850-6425 MHz</p> <p>Common international SRD band; see ITU-R Rec. SM.1896 Transport information and control systems Recommendation ITU-R M.1453</p>
<p>5.150 5.451 5.453 5.455</p>	<p>5.150</p>		
<p>5 830-5 850 MHz</p> <p>FIXED-SATELLITE (Earth-to-space) RADIOLOCATION Amateur Amateur-satellite (space-to-Earth)</p>	<p>5 830-5 850 MHz</p> <p>FIXED-SATELLITE (Earth-to-space) RADIOLOCATION Amateur Amateur-satellite (space-to-Earth)</p>	<p>Fixed links BFWA (5725 – 5850 MHz) ISM applications (5725 – 5875 MHz)</p>	<p>Radio Frequency Spectrum Regulations as amended (Annex B) (GG. No. 3417238641, 3130 March 2015).</p>

ITU Region 1 allocations and footnotes	South African allocations and footnotes	Typical Applications	Notes and Comments
5.150 5.451 5.453 5.455	Fixed NF16 5.150		BFWA in some SADC countries is limited to below 5850 MHz in order to protect FSS in the band 5850-6425 MHz
5 850-5 925 MHz FIXED FIXED-SATELLITE (Earth-to-space) MOBILE	5 850-5 925 MHz FIXED FIXED-SATELLITE (Earth-to-space) MOBILE	C-band uplink (VSAT/SNG/PTP links) ISM applications (5725 – 5875 MHz) Fixed-satellite uplinks (PTP/VSAT/SNG) (5850-6425 MHz) FIXED links (5850-5925 MHz) ISM (5725-5875 MHz)	FS could be used for temporary OB links.
5.150	5.150		
5 925-6 700 MHz FIXED 5.457 FIXED-SATELLITE (Earth-to-space) 5.457A 5.457B MOBILE 5.457C	5 925-6 700 MHz FIXED NF14 FIXED-SATELLITE (Earth-to-space) 5.457A 5.457B	Fixed links - Lower 6 GHz (5925-6425 MHz) and Upper 6 GHz (6425-7110 MHz), BFWA Fixed-satellite uplinks (PTP/VSAT/SNG) (5850-6425 MHz) ESVs (5925 – 6425 MHz)	Channelling plan for L6 GHz band in accordance with ITU-R Rec. F.383. Channelling plan for U6 GHz band in accordance with ITU-R Rec. F.384. Earth Station onboard vessels (ESV) also allowed under FSS.

ITU Region 1 allocations and footnotes	South African allocations and footnotes	Typical Applications	Notes and Comments
5.149 5.440 5.458	5.149 5.440 5.458		
6 700-7 075 MHz FIXED FIXED-SATELLITE (Earth-to-space) (space-to-Earth) 5.441 MOBILE 5.458 5.458A 5.458B	6 700-7 075 MHz FIXED NF14 FIXED-SATELLITE (Earth-to-space) (space-to-Earth) 5.441 5.458 5.458A 5.458B	Fixed Links (U6) (6425 – 7110 MHz) S-DAB feeder links (uplinks) Fixed links - Upper 6 GHz (6425-7110 MHz)	Channelling plan for U6 GHz band in accordance with ITU-R Rec. F.384. The band 6 725-7 025 MHz is part of the APP30B Plan (FSS Earth-to-space); refer to Annex B.
7 075-7 145 MHz FIXED MOBILE 5.458 5.459	7 075-7 145 MHz FIXED NF14 5.458	Fixed Links (U6) (6425 – 7110 MHz) Fixed Links (L7) (7110 – 7425 MHz) Fixed links - Upper 6 GHz (6425-7110 MHz) and Lower 7 GHz (7110-7425 MHz)	Channelling plan for U6 band in accordance with ITU-R Rec. F.384. Channelling plan for L7 band is in accordance with ITU-R Rec. F.385 Annex 3.
7 145-7 190 MHz FIXED MOBILE SPACE RESEARCH (deep space) (Earth-to-space) 5.458 5.459	7 145-7 190 MHz FIXED MOBILE SPACE RESEARCH (deep space) (Earth-to-space) 5.458 5.459	Fixed links - Lower 7 GHz (7110-7425 MHz)	Channelling plan for L7 band in accordance with ITU-R Rec. F.385 Annex 3.
7 190-7 235 MHz	7 190-7 235 MHz		

ITU Region 1 allocations and footnotes	South African allocations and footnotes	Typical Applications	Notes and Comments
<p>EARTH EXPLORATION-SATELLITE (Earth-to-space) 5.460A 5.460B</p> <p>FIXED</p> <p>MOBILE</p> <p>SPACE RESEARCH (Earth-to-space) 5.460</p> <p>5.458 5.459</p>	<p>EARTH EXPLORATION-SATELLITE (Earth-to-space) 5.460A 5.460B</p> <p>FIXED NF14</p> <p>SPACE RESEARCH (Earth-to-space) 5.460</p> <p>5.458</p>	<p>Fixed Links (L7) (7110 – 7425 MHz)</p>	
<p>7 235-7 250 MHz</p> <p>EARTH EXPLORATION-SATELLITE (Earth-to-space) 5.460A</p> <p>FIXED</p> <p>MOBILE</p> <p>5.458</p>	<p>7 235-7 250 MHz</p> <p>FIXED NF14</p> <p>5.458</p>	<p>Fixed links - Lower 7 GHz (7110-7425 MHz)</p>	<p>Channelling plan for L7 band in accordance with ITU-R Rec. F.385 Annex 3.</p>
<p>7 250-7 300 MHz</p> <p>FIXED</p> <p>FIXED-SATELLITE (space-to-Earth)</p> <p>MOBILE</p> <p>5.461</p>	<p>7 250-7 300 MHz</p> <p>FIXED NF14</p> <p>5.461</p>	<p>Fixed links - Lower 7 GHz (7110-7425 MHz)</p>	<p>Channelling plan for L7 band in accordance with ITU-R Rec. F.385 Annex 3.</p>
<p>7 300-7 375 MHz</p>	<p>7 300-7 375 MHz</p>		

ITU Region 1 allocations and footnotes	South African allocations and footnotes	Typical Applications	Notes and Comments
<p>FIXED FIXED-SATELLITE (space-to-Earth) MOBILE except aeronautical mobile</p> <p>5.461</p>	<p>FIXED FIXED-SATELLITE (space-to-Earth) MOBILE except aeronautical mobile</p> <p>5.461</p>	<p>Fixed links - Lower 7 GHz (7110-7425 MHz) and Upper 7 GHz (7425-7750 MHz)</p>	<p>Channelling plan for L7 band in accordance with ITU-R Rec. F.385 Annex 3. Channelling plan for U7 band in accordance with ITU-R Rec. F.385 Annex 3.</p>
<p>7 375-7 450 MHz</p> <p>FIXED FIXED-SATELLITE (space-to-Earth) MOBILE except aeronautical mobile MARITIME MOBILE SATELLITE (space-to-Earth)</p> <p>5.461AA 5.461AB</p>	<p>7 375-7 450 MHzFIXED NF14</p> <p>FIXED-SATELLITE (space-to-Earth) MOBILE except aeronautical mobile MARITIME MOBILE SATELLITE (space-to-Earth)</p> <p>5.461AA 5.461AB</p>	<p>Fixed links - Lower 7 GHz (7110-7425 MHz) and Upper 7 GHz (7425-7750 MHz)</p>	<p>Channelling plan for L7 band in accordance with ITU-R Rec. F.385 Annex 3. Channelling plan for U7 band in accordance with ITU-R Rec. F.385 Annex 3.</p>
<p>7 450-7 550 MHz</p> <p>FIXED FIXED-SATELLITE (space-to-Earth) METEOROLOGICAL-SATELLITE (space-to-Earth) MOBILE except aeronautical mobile</p>	<p>7 450-7 550 MHz</p> <p>FIXED NF14 METEOROLOGICAL-SATELLITE (space-to-Earth) MARITIME MOBILE-SATELLITE (space-to-Earth) 5.461AA 5.461AB</p>	<p>Fixed links - Upper 7 GHz (7425-7750 MHz)</p>	<p>Channelling plan for U7 band in accordance with ITU-R Rec. F.385 Annex 3.</p>

ITU Region 1 allocations and footnotes	South African allocations and footnotes	Typical Applications	Notes and Comments
MARITIME MOBILE-SATELLITE (space-to-Earth) 5.461AA 5.461AB 5.461A	5.461A		
7 550-7 750 MHz FIXED FIXED-SATELLITE (space-to-Earth) MOBILE except aeronautical mobile MARITIME MOBILE-SATELLITE (space-to-Earth) 5.461AA 5.461AB	7 550-7 750 MHz FIXED NF14 MARITIME MOBILE-SATELLITE (space-to-Earth) 5.461AA 5.461AB	Fixed links - Upper 7 GHz (7425-7750 MHz)	Channelling plan for U7 band in accordance with ITU-R Rec. F.385 Annex 3.
7 750-7 900 MHz FIXED METEOROLOGICAL-SATELLITE (space-to-Earth) 5.461B MOBILE except aeronautical mobile	7 750-7 900 MHz FIXED NF14 METEOROLOGICAL-SATELLITE (space-to-Earth) 5.461B	Fixed Links (L8) (7725 – 8275 MHz) Fixed links - Lower 8 GHz (7725-8275 MHz)	Channelling plan for L8 band in accordance with ITU-R Rec. F.386 Annex 1.
7 900-8 025 MHz	7 900-8 025 MHz		

ITU Region 1 allocations and footnotes	South African allocations and footnotes	Typical Applications	Notes and Comments
FIXED FIXED-SATELLITE (Earth-to-space) MOBILE 5.461	FIXED NF14 5.461	Fixed Links (L8) (7725 – 8275 MHz) Fixed links - Lower 8 GHz (7725-8275 MHz)	Channelling plan for L8 band in accordance with ITU-R Rec. F.386 Annex 1.
8 025-8 175 MHz EARTH EXPLORATION-SATELLITE (space-to-Earth) FIXED FIXED-SATELLITE (Earth-to-space) MOBILE 5.463 5.462A	8 025-8 175 MHz EARTH EXPLORATION-SATELLITE (space-to-Earth) FIXED NF14 5.462A	Fixed Links (L8) (7725 – 8275 MHz) Fixed links - Lower 8 GHz (7725-8275 MHz)	Channelling plan for L8 band in accordance with ITU-R Rec. F.386 Annex 1.
8 175-8 215 MHz EARTH EXPLORATION-SATELLITE (space-to-Earth) FIXED FIXED-SATELLITE (Earth-to-space) METEOROLOGICAL-SATELLITE (Earth-to-space) MOBILE 5.463 5.462A	8 175-8 215 MHz EARTH EXPLORATION-SATELLITE (space-to-Earth) FIXED NF14 METEOROLOGICAL-SATELLITE (Earth-to-space) 5.462A	Fixed Links (L8) (7725 – 8275 MHz) Fixed links - Lower 8 GHz (7725-8275 MHz)	Channelling plan for L8 band in accordance with ITU-R Rec. F.386 Annex 1.

CONTINUES ON PAGE 386 - PART 4



Government Gazette Staatskoerant

REPUBLIC OF SOUTH AFRICA
REPUBLIEK VAN SUIDAFRIKA

Vol. 635 25 May 2018
Mei

No. 41650

PART 4 OF 8

N.B. The Government Printing Works will not be held responsible for the quality of "Hard Copies" or "Electronic Files" submitted for publication purposes



ISSN 1682-5843

41650

9 771682 584003



AIDS HELPLINE: 0800-0123-22 Prevention is the cure

ITU Region 1 allocations and footnotes	South African allocations and footnotes	Typical Applications	Notes and Comments
<p>8 215-8 400 MHz</p> <p>EARTH EXPLORATION-SATELLITE (space-to-Earth) FIXED</p> <p>FIXED-SATELLITE (Earth-to-space)</p> <p>MOBILE 5.463</p> <p>5.462A</p>	<p>8 215-8 400 MHz</p> <p>EARTH EXPLORATION-SATELLITE (space-to-Earth) FIXED NF14</p> <p>5.462A</p>	<p>Fixed Links (L8) (7725 – 8275 MHz)</p> <p>Fixed Links (U8) (8275 – 8500 MHz)</p> <p>Fixed links - Lower 8 GHz (7725-8275 MHz) and Upper 8 GHz (8275-8500 MHz)</p>	<p>Channelling plan for L8 band in accordance with ITU-R Rec. F.386 Annex 1.</p> <p>Channelling plan for U8 band in accordance with ITU-R Rec. F.386 Annex 1.</p>
<p>8 400-8 500 MHz</p> <p>FIXED</p> <p>MOBILE except aeronautical mobile</p> <p>SPACE RESEARCH (space-to-Earth) 5.465</p>	<p>8 400-8 500 MHz</p> <p>FIXED NF14</p> <p>SPACE RESEARCH (space-to-Earth) 5.465</p>	<p>Fixed Links (U8) (8275 – 8500 MHz)</p> <p>Fixed links - Upper 8 GHz (8275-8500 MHz)</p>	<p>Channelling plan for U8 band in accordance with ITU-R Rec. F.386 Annex 1.</p>
<p>8 500-8 550 MHz</p> <p>RADIOLOCATION</p> <p>5.468 5.469</p>	<p>8 500-8 550 MHz</p> <p>RADIOLOCATION</p>	<p>RADARS. aeronautical radio navigation e.g. precision airfield approach radars.</p>	
<p>8 550-8 650 MHz</p>	<p>8 550-8 650 MHz</p>		

ITU Region 1 allocations and footnotes	South African allocations and footnotes	Typical Applications	Notes and Comments
EARTH EXPLORATION-SATELLITE (active) RADIOLOCATION SPACE RESEARCH (active) 5.468 5.469 5.469A	ARTH EXPLORATION-SATELLITE (active) RADIOLOCATION SPACE RESEARCH (active) 5.469A	RADARS. aeronautical radionavigation e.g. precision airfield approach radars	
8 650-8 750 MHz RADIOLOCATION 5.468 5.469	8 650-8 750 MHz RADIOLOCATION	RADARS. aeronautical radio navigation e.g. precision airfield approach radars	
8 750-8 850 MHz RADIOLOCATION AERONAUTICAL RADIONAVIGATION 5.470 5.471	8 750-8 850 MHz RADIOLOCATION AERONAUTICAL RADIONAVIGATION 5.470	RADARS. aeronautical radionavigation e.g. precision airfield approach radars	
8 850-9 000 MHz RADIOLOCATION MARITIME RADIONAVIGATION 5.472 5.473	8 850-9 000 MHz RADIOLOCATION MARITIME RADIONAVIGATION 5.472	RADARS. aeronautical radionavigation e.g. precision airfield approach radars	
9 000-9 200 MHz AERONAUTICAL RADIONAVIGATION 5.337	9 000-9 200 MHz AERONAUTICAL RADIONAVIGATION 5.337	Approach radars	

ITU Region 1 allocations and footnotes	South African allocations and footnotes	Typical Applications	Notes and Comments
RADIOLOCATION 5.471 5.473A	RADIOLOCATION 5.473A	RADARS. aeronautical radionavigation e.g. precision airfield approach radars	
9 200-9 300 MHz EARTH EXPLORATION- SATELLITE (active) 5.474A 5.474B 5.474C RADIOLOCATION MARITIME RADIONAVIGATION 5.472 5.473 5.474 5.474D	9 200-9 300 MHz EARTH EXPLORATION- SATELLITE (active) 5.474A 5.474B 5.474C RADIOLOCATION MARITIME RADIONAVIGATION 5.472 5.474 5.474D	Field Disturbance and Doppler Apparatus (9200 – 9975 MHz) Harbour radars RADARS. aeronautical radionavigation e.g. precision airfield approach radars	Radio Frequency Spectrum Regulations as amended (Annex B) (GG. No. 38641, 30 March 2015).
9 300-9 500 MHz RADIONAVIGATION EARTH EXPLORATION- SATELLITE (active) SPACE RESEARCH (active) RADIOLOCATION 5.427 5.474 5.475 5.475A 5.475B 5.476A	9 300-9 500 MHz RADIONAVIGATION EARTH EXPLORATION- SATELLITE (active) SPACE RESEARCH (active) RADIOLOCATION 5.427 5.474 5.475 5.475A 5.475B 5.476A	Shore based radars (9380 – 9440 MHz) Field Disturbance and Doppler Apparatus (9200 – 9975 MHz) RADARS. aeronautical radionavigation e.g. precision airfield approach radars	Radio Frequency Spectrum Regulations as amended (Annex B) (GG. No. 38641, 30 March 2015).

ITU Region 1 allocations and footnotes	South African allocations and footnotes	Typical Applications	Notes and Comments
<p>9 500-9 800 MHz</p> <p>EARTH EXPLORATION-SATELLITE (active) RADIOLOCATION</p> <p>RADIONAVIGATION SPACE RESEARCH (active)</p> <p>5.476A</p>	<p>9 500-9 800 MHz</p> <p>EARTH EXPLORATION-SATELLITE (active) RADIOLOCATION</p> <p>RADIONAVIGATION SPACE RESEARCH (active)</p> <p>5.476A</p>	<p>Field Disturbance and Doppler Apparatus (9200 – 9975 MHz) RADARS. aeronautical radionavigation e.g. precision airfield approach radars</p>	<p>Radio Frequency Spectrum Regulations as amended (Annex B) (GG. No. 38641, 30 March 2015).</p>
<p>9 800-9 900 MHz</p> <p>RADIOLOCATION</p> <p>Earth exploration-satellite (active) Space research (active) Fixed</p> <p>5.477 5.478 5.478A 5.478B</p>	<p>9 800-9 900 MHz</p> <p>RADIOLOCATION</p> <p>Earth exploration-satellite (active) Space research (active)</p> <p>5.478A 5.478B</p>	<p>Field Disturbance and Doppler Apparatus (9200 – 9975 MHz)</p>	<p>Radio Frequency Spectrum Regulations as amended (Annex B) (GG. No. 38641, 30 March 2015).</p>
<p>9 900-10 000 MHz</p> <p>EARTH EXPLORATION-SATELLITE (active) 5.474A 5.474B 5.474C RADIOLOCATION Fixed</p>	<p>9 900-10 000 MHz</p> <p>EARTH EXPLORATION-SATELLITE (active) 5.474A 5.474B 5.474C RADIOLOCATION</p>	<p>Field Disturbance and Doppler Apparatus (9200 – 9975 MHz) RADARS. aeronautical radionavigation e.g. precision airfield approach radars</p>	<p>Radio Frequency Spectrum Regulations as amended (Annex B) (GG. No. 38641, 30 March 2015).</p>

ITU Region 1 allocations and footnotes	South African allocations and footnotes	Typical Applications	Notes and Comments
5.474D 5.477 5.478 5.479	5.474D 5.479		
10-10.4 GHz EARTH EXPLORATION-SATELLITE (active) 5.474A 5.474B 5.474C FIXED MOBILE RADIOLOCATION Amateur 5.474D 5.479	10-10.4 GHz EARTH EXPLORATION-SATELLITE (active) 5.474A 5.474B 5.474C FIXED NF14 MOBILE RADIOLOCATION Amateur 5.474D 5.479		
10.4-10.45 GHz FIXED MOBILE RADIOLOCATION Amateur	10.4-10.45 GHz FIXED NF14 RADIOLOCATION	Low power video links (10.0 – 10.15 GHz) BFWA (10.15 – 10.3 GHz) Motion sensors BFWA – 10.5 GHz (10.15-10.30 GHz)	Paired with 10.50-10.65 GHz Channelling plan for 10.5 GHz band in accordance with ITU-R Rec. F.1568 Annex 1.
10.45-10.5 GHz RADIOLOCATION Amateur Amateur-satellite 5.481	10.45-10.5 GHz RADIOLOCATION	Radars Motion Sensors	
10.5-10.55 GHz	10.5-10.55 GHz		

ITU Region 1 allocations and footnotes	South African allocations and footnotes	Typical Applications	Notes and Comments
FIXED MOBILE Radiolocation	FIXED NF14 MOBILE Radiolocation	BFWA (10.5 – 10.65 GHz) SAP/SAB Applications (Video connections) (10.5 – 10.68 GHz) FDDA (10.5 – 10.6 GHz)	Radio Frequency Spectrum Regulations as amended (Annex B) (GG. No. 38641, 30 March 2015). Paired with 10.15-10.30 GHz Channelling plan for 10.5 GHz band in accordance with ITU-R Rec. F.1568 Annex 1.
10.55-10.6 GHz FIXED MOBILE except aeronautical mobile Radiolocation	10.55-10.6 GHz FIXED NF14 Radiolocation	BFWA (10.5 – 10.65 GHz) SAP/SAB Applications (video connections) (10.5 – 10.68 GHz) FDDA (10.5 – 10.6 GHz)	Paired with 10.15 – 10.3 GHz Radio Frequency Spectrum Regulations as amended (Annex B) (GG. No. 38641, 30 March 2015). Paired with 10.15-10.30 GHz Channelling plan for 10.5 GHz band in accordance with ITU-R Rec. F.1568 Annex 1
10.6-10.68 GHz EARTH EXPLORATION-SATELLITE (passive) FIXED MOBILE except aeronautical mobile	10.6-10.68 GHz EARTH EXPLORATION-SATELLITE (passive) FIXED NF14 RADIO ASTRONOMY	BFWA (10.5 – 10.65 GHz) SAP/SAB Applications (video connections) (10.5 – 10.68 GHz)	Paired with 10.15 – 10.3 GHz Paired with 10.15-10.30 GHz

ITU Region 1 allocations and footnotes	South African allocations and footnotes	Typical Applications	Notes and Comments
RADIO ASTRONOMY SPACE RESEARCH (passive) Radiolocation 5.149 5.482 5.482A	SPACE RESEARCH (passive) Radiolocation 5.149 5.482 5.482A	Motion sensors	Channelling plan for 10.5 GHz band in accordance with ITU-R Rec. F.1568 Annex 1. For sharing between EESS (passive) and the fixed and mobile service Res.751 applies.
10.68-10.7 GHz EARTH EXPLORATION-SATELLITE (passive) RADIO ASTRONOMY SPACE RESEARCH (passive) 5.340 5.483	10.68-10.7 GHz EARTH EXPLORATION-SATELLITE (passive) RADIO ASTRONOMY SPACE RESEARCH (passive) 5.340		
10.7-10.95 GHz FIXED FIXED-SATELLITE (space-to-Earth) 5.441 (Earth-to-space) 5.484 MOBILE except aeronautical mobile	10.7-10.95 GHz FIXED FIXED-SATELLITE (space-to-Earth) 5.441 (Earth-to-space) 5.484 MOBILE except aeronautical mobile		This band is used for Fixed links (11 GHz) (10.7-11.7 GHz). The channeling plan for FS Links are in accordance with ITU-R Rec.F387. The band is also available for FSS Planned services (see Appendix 30B). The band can also be used for BSS feeder links (see 5.484).

ITU Region 1 allocations and footnotes	South African allocations and footnotes	Typical Applications	Notes and Comments
<p>10.95-11.2 GHz</p> <p>FIXED FIXED-SATELLITE (space-to-Earth) 5.484A 5.484B (Earth-to-space) 5.484 MOBILE except aeronautical mobile</p>	<p>10.95-11.2 GHz</p> <p>FIXED FIXED-SATELLITE (space-to-Earth) 5.484A 5.484B (Earth-to-space) 5.484 MOBILE except aeronautical mobile</p>		<p>This band is used for Fixed links (11 GHz) (10.7-11.7 GHz). The channeling plan for FS Links are in accordance with ITU-R Rec.F387.</p> <p>This band is also used for FSS (downlink) (VSAT/SNG/BSS feeder links). The band can also be used for BSS feeder links (see 5.484).</p>
<p>11.2-11.45 GHz</p> <p>FIXED FIXED-SATELLITE (space-to-Earth) 5.441 (Earth-to-space) 5.484 MOBILE except aeronautical mobile</p>	<p>11.2-11.45 GHz</p> <p>FIXED FIXED-SATELLITE (space-to-Earth) 5.441 (Earth-to-space) 5.484 MOBILE except aeronautical mobile</p>		<p>This band is used for Fixed links (11 GHz) (10.7-11.7 GHz). The channeling plan for FS Links are in accordance with ITU-R Rec.F387.</p> <p>The band is also available for FSS Planned services (see Appendix 30B).</p> <p>The band can also be used for BSS feeder links (see 5.484).</p>
<p>11.45-11.7 GHz</p> <p>FIXED FIXED-SATELLITE (space-to-Earth) 5.484A 5.484B (Earth-to-space) 5.484 MOBILE except aeronautical mobile</p>	<p>11.45-11.7 GHz</p> <p>FIXED NF14 FIXED-SATELLITE (space-to-Earth) 5.484A 5.484B (Earth-to-space) 5.484 MOBILE except aeronautical mobile</p>	<p>Fixed Links (11 GHz) (10.7 – 11.7 GHz) Ku-band downlink (VSAT/SNG/BSS feeder links) Fixed links - 11 GHz (10.7-11.7 GHz)</p>	<p>This band is used for Fixed links (11 GHz) (10.7-11.7 GHz). The channeling plan for FS Links are in accordance with ITU-R Rec.F387.</p>

ITU Region 1 allocations and footnotes	South African allocations and footnotes	Typical Applications	Notes and Comments
		Fixed-satellite downlinks (PTP/VSAT/SNG),	This band is also used for FSS (downlink) (VSAT/SNG/BSS feeder links). The band can also be used for BSS feeder links (see 5.484).
<p>11.7-12.5 GHz</p> <p>FIXED MOBILE except aeronautical mobile BROADCASTING BROADCASTING-SATELLITE 5.492</p> <p>5.487 5.487A</p>	<p>11.7-12.5 GHz</p> <p>FIXED MOBILE except aeronautical mobile BROADCASTING BROADCASTING-SATELLITE 5.492</p> <p>5.487 5.487A</p>	<p>OB links ENG</p> <p>BSS feeder links</p>	<p>Appendix 30 Plan This band is available for BSS in accordance with Appendix 30 of ITU RR. Refer to Annex B.</p>
<p>12.5-12.75 GHz</p> <p>FIXED-SATELLITE (space-to-Earth) 5.484A 5.484B (Earth-to-space)</p> <p>5.494 5.495 5.496</p>	<p>12.5-12.75 GHz</p> <p>FIXED-SATELLITE (space-to-Earth) 5.484A 5.484B (Earth-to-space)</p> <p>5.495</p>		
<p>12.75-13.25 GHz</p> <p>FIXED FIXED-SATELLITE (Earth-to-space) 5.441 MOBILE Space research (deep space) (space-to-Earth)</p>	<p>12.75-13.25 GHz</p> <p>FIXED NF14 FIXED-SATELLITE (Earth-to-space) 5.441</p>	<p>Fixed Links (13 GHz) (12.75 – 13.25 GHz)</p>	<p>Appendix 30B Plan Channelling plan for 13 GHz band in accordance with ITU-R Rec. F.497.</p>

ITU Region 1 allocations and footnotes	South African allocations and footnotes	Typical Applications	Notes and Comments
			The band 12.75-13.25 GHz is part of the APP30B Plan (FSS Earth-to-space); refer to Annex B.
<p>13.25-13.4 GHz</p> <p>EARTH EXPLORATION-SATELLITE (active) AERONAUTICAL RADIONAVIGATION 5.497 SPACE RESEARCH (active)</p> <p>5.498A 5.499</p>	<p>13.25-13.4 GHz</p> <p>EARTH EXPLORATION-SATELLITE (active) AERONAUTICAL RADIONAVIGATION 5.497 SPACE RESEARCH (active)</p> <p>5.498A</p>	Airborne Doppler Radar	
<p>13.4-13.65 GHz</p> <p>EARTH EXPLORATION-SATELLITE (active) FIXED SATELLITE (space-to-Earth) 5.499A 5.499B RADIOLOCATION SPACE RESEARCH 5.499C 5.499D Standard frequency and time signal-satellite (Earth-to-space)</p> <p>5.499 5.499E 5.500 5.501 5.501B</p>	<p>13.4-13.65 GHz</p> <p>EARTH EXPLORATION-SATELLITE (active) FIXED SATELLITE (space-to-Earth) 5.499A 5.499B RADIOLOCATION SPACE RESEARCH 5.499C 5.499D Standard frequency and time signal-satellite (Earth-to-space)</p> <p>5.499 5.499E 5.500 5.501 5.501B</p>		
<p>13.65-13.75 GHz</p> <p>EARTH EXPLORATION-SATELLITE (active)</p>	<p>13.65-13.75 GHz</p>	FDDA (13.4 – 14 GHz)	

ITU Region 1 allocations and footnotes	South African allocations and footnotes	Typical Applications	Notes and Comments
<p>RADIOLOCATION SPACE RESEARCH 5.501A Standard frequency and time signal-satellite (Earth-to-space)</p> <p>5.499 5.500 5.501 5.501B</p>	<p>RADIOLOCATION</p> <p>5.501B</p>	<p>RADIOLOCATION</p>	<p>Radio Frequency Spectrum Regulations as amended (Annex B) (GG. No. 38641, 30 March 2015).</p>
<p>13.75-14 GHz</p> <p>FIXED-SATELLITE (Earth-to-space) 5.484A RADIOLOCATION Earth exploration-satellite Standard frequency and time signal-satellite (Earth-to-space) Space research</p> <p>5.499 5.500 5.501 5.502 5.503</p>	<p>13.75-14 GHz</p> <p>FIXED-SATELLITE (Earth-to-space) 5.484A</p> <p>RADIOLOCATION</p> <p>5.502 5.503</p>	<p>Ku-band uplink (VSAT/SNG/FSS feeder links) FDDA (13.4 – 14 GHz) FSS uplinks (PTP/VSAT/SNG) (13.75-14.5 GHz) RADIOLOCATION</p>	<p>Radio Frequency Spectrum Regulations as amended (Annex B) (GG. No. 38641, 30 March 2015).</p>

ITU Region 1 allocations and footnotes	South African allocations and footnotes	Typical Applications	Notes and Comments
<p>14-14.25 GHz</p> <p>FIXED-SATELLITE (Earth-to-space) 5.457A 5.457B 5.484A 5.484B 5.506 5.506B RADIONAVIGATION 5.504 Mobile-satellite (Earth-to-space) 5.504B 5.504C 5.506A Space research</p> <p>5.504A 5.505</p>	<p>14-14.25 GHz</p> <p>FIXED-SATELLITE (Earth-to-space) 5.457A 5.457B 5.484A 5.484B 5.506 5.506B NF17 Mobile-satellite (Earth-to-space) 5.504B 5.504C 5.506A</p> <p>5.504A</p>	<p>Ku-band uplink (VSAT/SNG/FSS feeder links) FSS uplinks (PTP/VSAT/SNG) (13.75-14.5 GHz) ESVs (14 -14.5 GHz)</p>	<p>Earth Station onboard vessels (ESV) also allowed under FSS; Res. 902 applies. The band 14.0-14.5 GHz may also be used for AES (aircraft-to-space station).</p>
<p>14.25-14.3 GHz</p> <p>FIXED-SATELLITE (Earth-to-space) 5.457A 5.457B 5.484A 5.484B 5.506 5.506B RADIONAVIGATION 5.504 Mobile-satellite (Earth-to-space) 5.504B 5.506A 5.508A Space research</p> <p>5.504A 5.505 5.508</p>	<p>14.25-14.3 GHz</p> <p>FIXED-SATELLITE (Earth-to-space) 5.457A 5.457B 5.484A 5.484B 5.506 5.506B NF17 Mobile-satellite (Earth-to-space) 5.504B 5.506A</p> <p>5.504A</p>	<p>Ku-band uplink (VSAT/SNG/FSS feeder links) FSS uplinks (PTP/VSAT/SNG) (13.75-14.5 GHz) ESVs (14 -14.5 GHz)</p>	<p>Earth Station onboard vessels (ESV) also allowed under FSS; Res. 902 applies. The band 14.0-14.5 GHz may also be used for AES (aircraft-to-space station).</p>

ITU Region 1 allocations and footnotes	South African allocations and footnotes	Typical Applications	Notes and Comments
<p>14.3-14.4 GHz</p> <p>FIXED FIXED-SATELLITE (Earth-to-space) 5.457A 5.457B 5.484A 5.484B 5.506 5.506B MOBILE except aeronautical mobile Mobile-satellite (Earth-to-space) 5.504B 5.506A 5.509A Radionavigation-satellite</p> <p>5.504A</p>	<p>14.3-14.4 GHz</p> <p>FIXED-SATELLITE (Earth-to-space) 5.457A 5.457B 5.484A 5.484B 5.506 5.506B NF17 MOBILE except aeronautical mobile Mobile-satellite (Earth-to-space) 5.504B 5.506A 5.508A</p> <p>5.504A</p>	<p>Ku-band uplink (VSAT/SNG/FSS feeder links)</p> <p>FSS uplinks (PTP/VSAT/SNG) (13.75-14.5 GHz) ESVs (14 -14.5 GHz)</p>	<p>Earth Station on board vessels (ESV) also allowed under FSS; Res. 902 applies. The band 14.0-14.5 GHz may also be used for AES (aircraft-to-space station).</p>
<p>14.4-14.47 GHz</p> <p>FIXED FIXED-SATELLITE (Earth-to-space) 5.457A 5.457B 5.484A 5.484B 5.506 5.506B MOBILE except aeronautical mobile Mobile-satellite (Earth-to-space) 5.504B 5.506A 5.509A Space research (space-to-Earth)</p> <p>5.504A</p>	<p>14.4-14.47 GHz</p> <p>FIXED-SATELLITE (Earth-to-space) 5.457A 5.457B 5.484A 5.484B 5.506 5.506B NF17 MOBILE except aeronautical mobile Mobile-satellite (Earth-to-space) 5.504B 5.506A 5.508A</p> <p>5.504A</p>	<p>Ku-band uplink (VSAT/SNG/FSS feeder links)</p> <p>FSS uplinks (PTP/VSAT/SNG) (13.75-14.5 GHz) ESVs (14 -14.5 GHz)</p>	<p>Earth Station onboard vessels (ESV) also allowed under FSS; Res. 902 applies. The band 14.0-14.5 GHz may also be used for AES (aircraft-to-space station).</p>

ITU Region 1 allocations and footnotes	South African allocations and footnotes	Typical Applications	Notes and Comments
<p>14.47-14.5 GHz</p> <p>FIXED FIXED-SATELLITE (Earth-to-space) 5.457A 5.457B 5.484A 5.506 5.506B MOBILE except aeronautical mobile Mobile-satellite (Earth-to-space) 5.504B 5.506A 5.509A Radio astronomy</p> <p>5.149 5.504A</p>	<p>14.47-14.5 GHz</p> <p>FIXED-SATELLITE (Earth-to-space) 5.457A 5.457B 5.484A 5.506 5.506B NF17 Mobile-satellite (Earth-to-space) 5.504B 5.506A 5.508A Radio astronomy</p> <p>5.149 5.504A</p>	<p>Ku-band uplink (VSAT/SNG/FSS feeder links) FSS uplinks (PTP/VSAT/SNG) (13.75-14.5 GHz) ESVs (14 -14.5 GHz)</p>	<p>Earth Station onboard vessels (ESV) also allowed under FSS; Res. 902 applies. The band 14.0-14.5 GHz may also be used for AES (aircraft-to-space station).</p>
<p>14.5-14.75 GHz</p> <p>FIXED FIXED-SATELLITE (Earth-to-space) 5.509B 5.509C 5.509D 5.509E 5.509F 5.510 MOBILE Space research 5.509G</p>	<p>14.5-14.75 GHz</p> <p>FIXED FIXED-SATELLITE (Earth-to-space) 5.510 MOBILE Space research 5.509G</p>	<p>Fixed links - 15 GHz (14.5-15.35 GHz)</p>	<p>Channelling plan for 15 GHz band in accordance with ITU-R Rec. F.636. The band 14.5-14.8 GHz is part of the APP30A Plan (Feeder Links for BSS) for some SADC countries. Refer to Annex B.</p>
<p>14.75-14.8 GHz</p> <p>FIXED FIXED-SATELLITE (Earth-to-space) 5.510 MOBILE Space research 5.509G</p>	<p>14.5-14.8 GHz</p> <p>FIXED NF14 FIXED-SATELLITE (Earth-to-space) 5.510</p>	<p>Fixed Links (15 GHz) (14.5 – 15.35 GHz) BSS feeder links Fixed links - 15 GHz (14.5-15.35 GHz)</p>	<p>Channelling plan for 15 GHz band in accordance with ITU-R Rec. F.636.</p>

ITU Region 1 allocations and footnotes	South African allocations and footnotes	Typical Applications	Notes and Comments
			The band 14.5-14.8 GHz is part of the APP30A Plan (Feeder Links for BSS) for some SADC countries. Refer to Annex B.
14.8-15.35 GHz FIXED MOBILE Space research 5.339	14.8-15.35 GHz FIXED NF14 5.339	Fixed Links (15 GHz) (14.5 – 15.35 GHz)	Channelling plan for 15 GHz band in accordance with ITU-R Rec. F.636.
15.35-15.4 GHz EARTH EXPLORATION-SATELLITE (passive) RADIO ASTRONOMY SPACE RESEARCH (passive) 5.340 5.511	15.35-15.4 GHz EARTH EXPLORATION-SATELLITE (passive) SPACE RESEARCH (passive) 5.340	Very long base interferometry Observations Passive sensing	
15.4-15.43 GHz RADIOLOCATION 5.511E 5.511F AERONAUTICAL RADIONAVIGATION	15.4-15.43 GHz RADIOLOCATION 5.511E 5.511F AERONAUTICAL RADIONAVIGATION	Radio Altimeters Radars	ICAO: ASDE Annex 10
15.43-15.63 GHz	15.43-15.63 GHz		

ITU Region 1 allocations and footnotes	South African allocations and footnotes	Typical Applications	Notes and Comments
FIXED-SATELLITE (Earth-to-space) 5.511A RADIOLOCATION 5.511E 5.511F AERONAUTICAL RADIONAVIGATION 5.511C	RADIOLOCATION 5.511E 5.511F AERONAUTICAL RADIONAVIGATION 5.511C	Radio Altimeters Radars	ICAO: ASDE Annex 10
15.63-15.7 GHz RADIOLOCATION 5.511E 5.511F AERONAUTICAL RADIONAVIGATION	15.63-15.7 GHz RADIOLOCATION 5.511E 5.511F AERONAUTICAL RADIONAVIGATION	Radio Altimeters Radars	ICAO: ASDE Annex 10
15.7-16.6 GHz RADIOLOCATION 5.512 5.513	15.7-16.6 GHz RADIOLOCATION	Government Services	Altimeters / Distance measuring equipment
16.6-17.1 GHz RADIOLOCATION Space research (deep space) (Earth-to-space) 5.512 5.513	16.6-17.1 GHz RADIOLOCATION Space research (deep space) (Earth-to-space)		
17.1-17.2 GHz	17.1-17.2 GHz		

ITU Region 1 allocations and footnotes	South African allocations and footnotes	Typical Applications	Notes and Comments
RADIOLOCATION 5.512 5.513	RADIOLOCATION	WAS / RLAN	Radio Frequency Spectrum Regulations as amended (Annex B) (GG. No. 38641, 30 March 2015).
17.2-17.3 GHz EARTH EXPLORATION-SATELLITE (active) RADIOLOCATION SPACE RESEARCH (active) 5.512 5.513 5.513A	17.2-17.3 GHz EARTH EXPLORATION-SATELLITE (active) RADIOLOCATION SPACE RESEARCH (active) 5.513A	WAS / RLAN	Radio Frequency Spectrum Regulations as amended (Annex B) (GG. No. 38641, 30 March 2015).
17.3-17.7 GHz FIXED-SATELLITE (Earth-to-space) 5.516 (space-to-Earth) 5.516A 5.516B Radiolocation 5.514	17.3-17.7 GHz FIXED-SATELLITE (Earth-to-space) 5.516 (space-to-Earth) 5.516A 5.516B Radiolocation		The band 17.3-17.7 GHz is part of the APP30A Plan (Feeder Links for BSS) for many SADC countries; refer to Annex B. The band 17.3-17.7 GHz is identified for HDFSS; Res.143 applies.
17.7-18.1 GHz FIXED FIXED-SATELLITE (space-to-Earth) 5.484A (Earth-to-space) 5.516	17.7-18.1 GHz FIXED NF14 FIXED-SATELLITE (space-to-Earth) 5.484A (Earth-to-space) 5.516	Fixed Links (18 GHz) (17.7 – 19.7 GHz) BSS Feeder Links	Channelling plan for 18 GHz band in accordance with ITU-R Rec. F.595 Annex 1.

ITU Region 1 allocations and footnotes	South African allocations and footnotes	Typical Applications	Notes and Comments
MOBILE			
<p>18.1-18.4 GHz</p> <p>FIXED FIXED-SATELLITE (space-to-Earth) 5.484A 5.516B (Earth-to-space) 5.520 MOBILE</p> <p>5.519 5.521</p>	<p>18.1-18.4 GHz</p> <p>FIXED NF14 FIXED-SATELLITE (space-to-Earth) 5.484A 5.516B (Earth-to-space) 5.520</p> <p>5.519</p>	<p>Fixed Links (18 GHz) (17.7 – 19.7 GHz) BSS Feeder Links</p>	<p>Channelling plan for 18 GHz band in accordance with ITU-R Rec. F.595 Annex 1.</p>
<p>18.4-18.6 GHz</p> <p>FIXED FIXED-SATELLITE (space-to-Earth) 5.484A 5.516B MOBILE</p>	<p>18.4-18.6 GHz</p> <p>FIXED NF14 FIXED-SATELLITE (space-to-Earth) 5.484A 5.516B</p>	<p>Fixed Links (18 GHz) (17.7 – 19.7 GHz)</p>	<p>Channelling plan for 18 GHz band in accordance with ITU-R Rec. F.595 Annex 1.</p>
<p>18.6-18.8 GHz</p> <p>EARTH EXPLORATION-SATELLITE (passive) FIXED FIXED-SATELLITE (space-to-Earth) 5.522B</p>	<p>18.6-18.8 GHz</p> <p>EARTH EXPLORATION-SATELLITE (passive) FIXED NF14 FIXED-SATELLITE (space-to-Earth) 5.522B</p>	<p>Fixed Links (18 GHz) (17.7 – 19.7 GHz)</p>	<p>Channelling plan for 18 GHz band in accordance with ITU-R Rec. F.595 Annex 1</p>

ITU Region 1 allocations and footnotes	South African allocations and footnotes	Typical Applications	Notes and Comments
MOBILE except aeronautical mobile Space research (passive) 5.522A 5.522C	Space research (passive) 5.522A	Passive Sensing	
18.8-19.3 GHz FIXED FIXED-SATELLITE (space-to-Earth) 5.523A MOBILE	18.8-19.3 GHz FIXED NF14 FIXED-SATELLITE (space-to-Earth) 5.523A	Fixed Links (18 GHz) (17.7 – 19.7 GHz)	
19.3-19.7 GHz FIXED FIXED-SATELLITE (space-to-Earth) (Earth-to-space) 5.523B 5.523C 5.523D 5.523E MOBILE	19.3-19.7 GHz FIXED NF14 FIXED-SATELLITE (space-to-Earth) (Earth-to-space) 5.523B 5.523C 5.523D 5.523E	Fixed Links (18 GHz) (17.7 – 19.7 GHz) BSS Feeder Links	Channelling plan for 18 GHz band in accordance with ITU-R Rec. F.595 Annex 1.
19.7-20.1 GHz FIXED-SATELLITE (space-to-Earth) 5.484A 5.484B 5.516B 5.527A Mobile-satellite (space-to-Earth) 5.524	19.7-20.1 GHz FIXED-SATELLITE (space-to-Earth) 5.484A 5.484B 5.516B 5.527A	GSO/FSS	The band 19.7-20.2 GHz is identified for HDFSS; Res.143 applies.

ITU Region 1 allocations and footnotes	South African allocations and footnotes	Typical Applications	Notes and Comments
<p>20.1-20.2 GHz</p> <p>FIXED-SATELLITE (space-to-Earth) 5.484A 5.484B 5.516B 5.527A MOBILE-SATELLITE (space-to-Earth)</p> <p>5.524 5.525 5.526 5.527 5.528</p>	<p>20.1-20.2 GHz</p> <p>FIXED-SATELLITE (space-to-Earth) 5.484A 5.484B 5.516B 5.527A</p> <p>5.525 5.526 5.527 5.528</p>		<p>The band 19.7-20.2 GHz is identified for HDFSS; Res.143 applies.</p>
<p>20.2-21.2 GHz</p> <p>FIXED-SATELLITE (space-to-Earth) MOBILE-SATELLITE (space-to-Earth) Standard frequency and time signal-satellite (space-to-Earth)</p> <p>5.524</p>	<p>20.2-21.2 GHz</p> <p>FIXED-SATELLITE (space-to-Earth) MOBILE-SATELLITE (space-to-Earth) Standard frequency and time signal-satellite (space-to-Earth)</p>		
<p>21.2-21.4 GHz</p> <p>EARTH EXPLORATION-SATELLITE (passive) FIXED MOBILE SPACE RESEARCH (passive)</p>	<p>21.2-21.4 GHz</p> <p>EARTH EXPLORATION-SATELLITE (passive) FIXED NF14 SPACE RESEARCH (passive)</p>	<p>Passive Sensing Fixed Links (23 GHz) (21.2 – 23.6 GHz) Fixed links - 23 GHz (21.2-23.6 GHz or 22.0-23.6 GHz)</p>	<p>Channelling plan for 23 GHz band in accordance with ITU-R Rec. F.637 Annex 1 or Annex 3.</p>
<p>21.4-22 GHz</p> <p>FIXED</p>	<p>21.4-22 GHz</p> <p>FIXED NF14</p>		

ITU Region 1 allocations and footnotes	South African allocations and footnotes	Typical Applications	Notes and Comments
MOBILE BROADCASTING-SATELLITE 5.208B 5.530A 5.530B 5.530D	MOBILE BROADCASTING-SATELLITE 5.208B 5.530A 5.530B 5.530D	Fixed Links (23 GHz) (21.2 – 23.6 GHz) Fixed links - 23 GHz (21.2-23.6 GHz or 22.0-23.6 GHz)	Channelling plan for 23 GHz band in accordance with ITU-R Rec. F.637 Annex 1 or Annex 3. The use of BSS in this band is subject to the provisions of WRC - 15 Resolutions .552, 553 and 555.
22-22.21 GHz FIXED MOBILE except aeronautical mobile 5.149	22-22.21 GHz FIXED NF14 MOBILE except aeronautical mobile 5.149	Fixed Links (23 GHz) (21.2 – 23.6 GHz) Fixed links - 23 GHz (21.2-23.6 GHz or 22.0-23.6 GHz)	Channelling plan for 23 GHz band in accordance with ITU-R Rec. F.637 Annex 1 or Annex 3.
22.21-22.5 GHz EARTH EXPLORATION-SATELLITE (passive) FIXED MOBILE except aeronautical mobile RADIO ASTRONOMY SPACE RESEARCH (passive) 5.149 5.532	22.21-22.5 GHz EARTH EXPLORATION-SATELLITE (passive) FIXED NF14 RADIO ASTRONOMY SPACE RESEARCH (passive) 5.149 5.532	Fixed Links (23 GHz) (21.2 – 23.6 GHz) Fixed links - 23 GHz (21.2-23.6 GHz or 22.0-23.6 GHz) Passive Sensing	Channelling plan for 23 GHz band in accordance with ITU-R Rec. F.637 Annex 1 or Annex 3.
22.5-22.55 GHz	22.5-22.55 GHz		

ITU Region 1 allocations and footnotes	South African allocations and footnotes	Typical Applications	Notes and Comments
FIXED MOBILE	FIXED NF14 MOBILE	Fixed Links (23 GHz) (21.2 – 23.6 GHz) Fixed links - 23 GHz (21.2-23.6 GHz or 22.0-23.6 GHz)	Channelling plan for 23 GHz band in accordance with ITU-R Rec. F.637 Annex 1 or Annex 3.
22.55-23.15 GHz FIXED INTER-SATELLITE 5.338A MOBILE SPACE RESEARCH (Earth-to-space) 5.532A 5.149	22.55-23.15 GHz FIXED NF14 SPACE RESEARCH (Earth-to-space) 5.532A 5.149	Fixed Links (23 GHz) (21.2 – 23.6 GHz) Fixed links – 23 GHz (21.2-23.6 GHz or 22.0-23.6 GHz)	Channelling plan for 23 GHz band in accordance with ITU-R Rec. F.637 Annex 1 or Annex 3.
23.15-23.55 GHz FIXED INTER-SATELLITE 5.338A MOBILE	23.15-23.55 GHz FIXED NF14	Fixed Links (23 GHz) (21.2 – 23.6 GHz)	
23.55-23.6 GHz FIXED MOBILE	23.55-23.6 GHz FIXED NF14	Fixed Links (23 GHz) (21.2 – 23.6 GHz) Fixed links - 23 GHz (21.2-23.6 GHz or 22.0-23.6 GHz)	Channelling plan for 23 GHz band in accordance with ITU-R Rec. F.637 Annex 1 or Annex 3.
23.6-24 GHz	23.6-24 GHz		