

ITU Region 1 allocations and footnotes	South African allocations and footnotes	Typical Applications	Comments
<p>4 400-4 500 MHz FIXED</p> <p>MOBILE</p>	<p>4 400-4 500 MHz FIXED NF14</p> <p>MOBILE</p>	<p>Fixed links (4.8 GHz) (4400 – 5000 MHz)</p> <p>Outside Broadcast links</p> <p>Electronic News Gathering</p>	Government services
<p>4 500-4 800 MHz FIXED</p> <p>FIXED-SATELLITE (space-to-Earth) 5.441</p> <p>MOBILE 5.440A</p>	<p>4 500-4 800 MHz FIXED NF14</p> <p>FIXED-SATELLITE (space-to-Earth) 5.441</p> <p>MOBILE</p> <p>NF15</p>	<p>Fixed links (4.8 GHz) (4400 – 5000 MHz)</p> <p>Outside Broadcast links</p> <p>Electronic News Gathering</p>	<p>Government services</p> <p>Appendix 30B Plan</p>
<p>4 800-4 990 MHz FIXED</p> <p>MOBILE 5.440A 5.442</p> <p>Radio astronomy</p> <p>5.149 5.339 5.443</p>	<p>4 800-4 990 MHz FIXED NF14</p> <p>MOBILE 5.442</p> <p>Radio astronomy</p> <p>5.149 5.339 NF15</p>	<p>Fixed links (4.8 GHz) (4400 – 5000 MHz)</p> <p>Outside Broadcast links Electronic News Gathering</p> <p>Radio astronomy on 4825 – 4835 MHz and 4950 – 4990 MHz</p>	Government services
<p>4 990-5 000 MHz FIXED</p> <p>MOBILE except aeronautical mobile</p> <p>RADIO ASTRONOMY</p> <p>Space research (passive)</p> <p>5.149</p>	<p>4 990-5 000 MHz FIXED NF14</p> <p>MOBILE except aeronautical mobile</p> <p>RADIO ASTRONOMY</p> <p>5.149 NF15</p>	<p>Fixed links (4.8 GHz) (4400 – 5000 MHz)</p> <p>Outside Broadcast links</p> <p>Electronic News Gathering</p>	Government services
<p>5 000-5 010 MHz AERONAUTICAL MOBILE-SATELLITE (R)</p>	<p>5 000-5 010 MHz AERONAUTICAL MOBILE-SATELLITE (R)</p>		

ITU Region 1 allocations and footnotes	South African allocations and footnotes	Typical Applications	Comments
5.443AA AERONAUTICAL RADIONAVIGATION RADIONAVIGATION-SATELLITE (Earth-to-space)	5.443AA AERONAUTICAL RADIONAVIGATION RADIONAVIGATION-SATELLITE (Earth-to-space)		
5 010-5 030 MHz AERONAUTICAL MOBILE-SATELLITE (R) 5.443AA AERONAUTICAL RADIONAVIGATION RADIONAVIGATION-SATELLITE (space-to-Earth) (space-to-space) 5.328B 5.443B	5 010-5 030 MHz AERONAUTICAL MOBILE-SATELLITE (R) 5.443AA AERONAUTICAL RADIONAVIGATION RADIONAVIGATION-SATELLITE (space-to-Earth) (space-to-space) 5.328B 5.443B		
5 030-5 091 MHz AERONAUTICAL MOBILE (R) 5.443C AERONAUTICAL MOBILE-SATELLITE (R) 5.443D AERONAUTICAL RADIONAVIGATION 5.444	5 030-5 091 MHz AERONAUTICAL MOBILE (R) 5.443C AERONAUTICAL MOBILE-SATELLITE (R) 5.443D AERONAUTICAL RADIONAVIGATION 5.444	Microwave Landing System	
5 091-5 150 MHz AERONAUTICAL MOBILE 5.444B AERONAUTICAL MOBILE-SATELLITE (R) 5.443A AERONAUTICAL RADIONAVIGATION 5.444 5.444A	5 091-5 150 MHz AERONAUTICAL MOBILE 5.444B AERONAUTICAL MOBILE-SATELLITE (R) 5.443A AERONAUTICAL RADIONAVIGATION FIXED-SATELLITE (Earth-to-space) 5.444 5.444A	NGSO MSS feeder links (5091 – 5150 MHz)	
5 150-5 250 MHz AERONAUTICAL RADIONAVIGATION FIXED-SATELLITE (Earth-to-space) 5.447A	5 150-5 250 MHz AERONAUTICAL RADIONAVIGATION FIXED-SATELLITE (Earth-to-space) 5.447A	NGSO MSS feeder links (5091 – 5150 MHz)	

ITU Region 1 allocations and footnotes	South African allocations and footnotes	Typical Applications	Comments
MOBILE except aeronautical mobile 5.446A 5.446B 5.446 5.446C 5.447 5.447B 5.447C	MOBILE except aeronautical mobile 5.446A 5.446B 5.446 5.446C 5.447B 5.447C	WAS / RLAN (5150 – 5350 MHz) (indoor use only)	GG No.34172, dated 31 March 2011 (Annex B) as is or as amended
5 250-5 255 MHz EARTH EXPLORATION-SATELLITE (active) RADIOLOCATION SPACE RESEARCH 5.447D MOBILE except aeronautical mobile 5.446A 5.447F 5.447E 5.448 5.448A	5 250-5 255 MHz SPACE RESEARCH 5.447D MOBILE except aeronautical mobile 5.446A 5.447F 5.448A	WAS / RLAN (5150 – 5350 MHz) (indoor use only)	GG No.34172, dated 31 March 2011 (Annex B) as is or as amended
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)	GG No.34172, dated 31 March 2011 (Annex B) as is or as amended
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)	5 460-5 470 MHz RADIONAVIGATION 5.449 EARTH EXPLORATION-SATELLITE (active)		

ITU Region 1 allocations and footnotes	South African allocations and footnotes	Typical Applications	Comments
SPACE RESEARCH (active) RADIOLOCATION 5.448D 5.448B	SPACE RESEARCH (active) RADIOLOCATION 5.448D 5.448B		
5 470-5 570 MHz MARITIME RADIONAVIGATION MOBILE except aeronautical mobile 5.446A 5.450A EARTH EXPLORATION-SATELLITE (active) SPACE RESEARCH (active) RADIOLOCATION 5.450B 5.448B 5.450 5.451	5 470-5 570 MHz MARITIME RADIONAVIGATION MOBILE except aeronautical mobile 5.446A 5.450A EARTH EXPLORATION-SATELLITE (active) SPACE RESEARCH (active) RADIOLOCATION 5.450B 5.448B	WAS / RLAN (5470 – 5725 MHz)	GG No.34172, dated 31 March 2011 (Annex B) as is or as amended
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)	GG No.34172, dated 31 March 2011 (Annex B) as is or as amended
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)	GG No.34172, dated 31 March 2011 (Annex B) as is or as amended

ITU Region 1 allocations and footnotes	South African allocations and footnotes	Typical Applications	Comments
6 700-7 075 MHz FIXED FIXED-SATELLITE (Earth-to-space) (space-to-Earth) 5.441 MOBILE 5.458 5.458A 5.458B 5.458C	6 700-7 075 MHz FIXED NF14 FIXED-SATELLITE (Earth-to-space) (space-to-Earth) 5.441 5.458 5.458A 5.458B 5.458C	Fixed Links (U6) (6425 – 7110 MHz) S-DAB feeder links (uplinks)	
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 – 7443 MHz)	
7 145-7 235 MHz FIXED MOBILE SPACE RESEARCH (Earth-to-space) 5.460 5.458 5.459	7 145-7 235 MHz FIXED NF14 SPACE RESEARCH (Earth-to-space) 5.460 5.458	Fixed Links (L7) (7110 – 7443 MHz)	
7 235-7 250 MHz FIXED MOBILE 5.458	7 235-7 250 MHz FIXED NF14 5.458	Fixed Links (L7) (7110 – 7443 MHz)	
7 250-7 300 MHz FIXED FIXED-SATELLITE (space-to-Earth) MOBILE 5.461	7 250-7 300 MHz FIXED NF14 5.461	Fixed Links (L7) (7110 – 7443 MHz)	
7 300-7 450 MHz	7 300-7 450 MHz		

ITU Region 1 allocations and footnotes	South African allocations and footnotes	Typical Applications	Comments
FIXED FIXED-SATELLITE (space-to-Earth) MOBILE except aeronautical mobile 5.461	FIXED NF14 5.461	Fixed Links (L7) (7110 – 7443 MHz)	
7 450-7 550 MHz FIXED FIXED-SATELLITE (space-to-Earth) METEOROLOGICAL-SATELLITE (space-to-Earth) MOBILE except aeronautical mobile 5.461A	7 450-7 550 MHz FIXED NF14 METEOROLOGICAL-SATELLITE (space-to-Earth) 5.461A	Fixed Links (L7) (7110 – 7443 MHz) Fixed Links (U7) (7443 – 7750 MHz)	
7 550-7 750 MHz FIXED FIXED-SATELLITE (space-to-Earth) MOBILE except aeronautical mobile	7 550-7 750 MHz FIXED NF14	Fixed Links (U7) (7443 – 7750 MHz) Fixed Links (L8) (7725 – 8275 MHz)	
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)	
7 900-8 025 MHz FIXED FIXED-SATELLITE (Earth-to-space)	7 900-8 025 MHz FIXED NF14	Fixed Links (L8) (7725 – 8275 MHz)	

ITU Region 1 allocations and footnotes	South African allocations and footnotes	Typical Applications	Comments
MOBILE 5.461	5.461		
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)	
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)	
8 215-8 400 MHz EARTH EXPLORATION-SATELLITE (space-to-Earth) FIXED FIXED-SATELLITE (Earth-to-space) MOBILE 5.463 5.462A	8 215-8 400 MHz EARTH EXPLORATION-SATELLITE (space-to-Earth) FIXED NF14 5.462A	Fixed Links (L8) (7725 – 8275 MHz) Fixed Links (U8) (8275 – 8500 MHz)	

ITU Region 1 allocations and footnotes	South African allocations and footnotes	Typical Applications	Comments
8 400-8 500 MHz FIXED MOBILE except aeronautical mobile SPACE RESEARCH (space-to-Earth) 5.465	8 400-8 500 MHz FIXED NF14 SPACE RESEARCH (space-to-Earth) 5.465	Fixed Links (U8) (8275 – 8500 MHz)	
8 500-8 550 MHz RADIOLOCATION 5.468 5.469	8 500-8 550 MHz RADIOLOCATION		
8 550-8 650 MHz EARTH EXPLORATION-SATELLITE (active) RADIOLOCATION SPACE RESEARCH (active) 5.468 5.469 5.469A	8 550-8 650 MHz EARTH EXPLORATION-SATELLITE (active) RADIOLOCATION SPACE RESEARCH (active) 5.469A		
8 650-8 750 MHz RADIOLOCATION 5.468 5.469	8 650-8 750 MHz RADIOLOCATION		
8 750-8 850 MHz RADIOLOCATION AERONAUTICAL RADIONAVIGATION 5.470 5.471	8 750-8 850 MHz RADIOLOCATION AERONAUTICAL RADIONAVIGATION 5.470		
8 850-9 000 MHz RADIOLOCATION MARITIME RADIONAVIGATION 5.472 5.473	8 850-9 000 MHz RADIOLOCATION MARITIME RADIONAVIGATION 5.472		
9 000-9 200 MHz AERONAUTICAL RADIONAVIGATION 5.337 RADIOLOCATION	9 000-9 200 MHz AERONAUTICAL RADIONAVIGATION 5.337 RADIOLOCATION	Approach radars	

ITU Region 1 allocations and footnotes	South African allocations and footnotes	Typical Applications	Comments
5.471 5.473A	5.473A		
9 200-9 300 MHz RADIOLOCATION MARITIME RADIONAVIGATION 5.472 5.473 5.474	9 200-9 300 MHz RADIOLOCATION MARITIME RADIONAVIGATION 5.472 5.474	Field Disturbance and Doppler Apparatus (9200 – 9975 MHz) Harbour radars	GG No.34172, dated 31 March 2011 (Annex B)
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)	GG No.34172, dated 31 March 2011 (Annex B)
9 500-9 800 MHz EARTH EXPLORATION-SATELLITE (active) RADIOLOCATION RADIONAVIGATION SPACE RESEARCH (active) 5.476A	9 500-9 800 MHz EARTH EXPLORATION-SATELLITE (active) RADIOLOCATION RADIONAVIGATION SPACE RESEARCH (active) 5.476A	Field Disturbance and Doppler Apparatus (9200 – 9975 MHz)	GG No.34172, dated 31 March 2011 (Annex B)
9 800-9 900 MHz RADIOLOCATION Earth exploration-satellite (active) Space research (active) Fixed	9 800-9 900 MHz RADIOLOCATION Earth exploration-satellite (active) Space research (active)	Field Disturbance and Doppler Apparatus (9200 – 9975 MHz)	GG No.34172, dated 31 March 2011 (Annex B)

ITU Region 1 allocations and footnotes	South African allocations and footnotes	Typical Applications	Comments
5.477 5.478 5.478A 5.478B	5.478A 5.478B		
9 900-10 000 MHz RADIOLOCATION Fixed 5.477 5.478 5.479	9 900-10 000 MHz RADIOLOCATION 5.479	Field Disturbance and Doppler Apparatus (9200 – 9975 MHz)	GG No.34172, dated 31 March 2011 (Annex B)
10-10.45 GHz FIXED MOBILE RADIOLOCATION Amateur 5.479	10-10.45 GHz FIXED NF14 RADIOLOCATION 5.479	Low power video links (10.0 – 10.15 GHz) BFWA (10.15 – 10.3 GHz) Motion sensors	Paired with 10.5 – 10.65 GHz.
10.45-10.5 GHz RADIOLOCATION Amateur Amateur-satellite 5.481	10.45-10.5 GHz RADIOLOCATION	Motion Sensors	
10.5-10.55 GHz FIXED MOBILE Radiolocation	10.5-10.55 GHz FIXED NF14 Radiolocation	BFWA (10.5 – 10.65 GHz) FDDA (10.5 – 10.6 GHz)	Paired with 10.15 – 10.3 GHz GG No.34172, dated 31 March 2011 (Annex B)
10.55-10.6 GHz FIXED MOBILE except aeronautical mobile	10.55-10.6 GHz FIXED NF14	BFWA (10.5 – 10.65 GHz)	Paired with 10.15 – 10.3 GHz

ITU Region 1 allocations and footnotes	South African allocations and footnotes	Typical Applications	Comments
Radiolocation	Radiolocation	FDDA (10.5 – 10.6 GHz)	GG No.34172, dated 31 March 2011 (Annex B)
10.6-10.68 GHz EARTH EXPLORATION-SATELLITE (passive) FIXED MOBILE except aeronautical mobile RADIO ASTRONOMY SPACE RESEARCH (passive) Radiolocation 5.149 5.482 5.482A	10.6-10.68 GHz EARTH EXPLORATION-SATELLITE (passive) FIXED NF14 RADIO ASTRONOMY SPACE RESEARCH (passive) Radiolocation 5.149 5.482 5.482A	BFWA (10.5 – 10.65 GHz) Motion sensors	Paired with 10.15 – 10.3 GHz
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		
10.7-11.7 GHz FIXED FIXED-SATELLITE (space-to-Earth) 5.441 5.484A (Earth-to-space) 5.484 MOBILE except aeronautical mobile	10.7-11.7 GHz FIXED NF14 FIXED-SATELLITE (space-to-Earth) 5.441 5.484A (Earth-to-space) 5.484	Fixed Links (11 GHz) (10.7 – 11.7 GHz) Ku-band downlink (VSAT/SNG/BSS feeder links)	Band is also used for DTH broadcasting on secondary basis
11.7-12.5 GHz FIXED MOBILE except aeronautical mobile BROADCASTING BROADCASTING-SATELLITE 5.492 5.487 5.487A	11.7-12.5 GHz FIXED MOBILE except aeronautical mobile BROADCASTING BROADCASTING-SATELLITE 5.492 5.487 5.487A	OB links ENG BSS feeder links	Appendix 30 Plan

ITU Region 1 allocations and footnotes	South African allocations and footnotes	Typical Applications	Comments
12.5-12.75 GHz FIXED-SATELLITE (space-to-Earth) 5.484A (Earth-to-space) 5.494 5.495 5.496	12.5-12.75 GHz FIXED-SATELLITE (space-to-Earth) 5.484A (Earth-to-space) 5.494 5.495		
12.75-13.25 GHz FIXED FIXED-SATELLITE (Earth-to-space) 5.441 MOBILE Space research (deep space) (space-to-Earth)	12.75-13.25 GHz FIXED NF14 FIXED-SATELLITE (Earth-to-space) 5.441	Fixed Links (13 GHz) (12.75 – 13.25 GHz)	Appendix 30B Plan
13.25-13.4 GHz EARTH EXPLORATION-SATELLITE (active) AERONAUTICAL RADIONAVIGATION 5.497 SPACE RESEARCH (active) 5.498A 5.499	13.25-13.4 GHz EARTH EXPLORATION-SATELLITE (active) AERONAUTICAL RADIONAVIGATION 5.497 SPACE RESEARCH (active) 5.498A		
13.4-13.75 GHz EARTH EXPLORATION-SATELLITE (active) RADIOLOCATION SPACE RESEARCH 5.501A Standard frequency and time signal-satellite (Earth-to-space) 5.499 5.500 5.501 5.501B	13.4-13.75 GHz RADIOLOCATION 5.501B	FDDA (13.4 – 14 GHz)	GG No.34172, dated 31 March 2011 (Annex B)
13.75-14 GHz FIXED-SATELLITE (Earth-to-space) 5.484A RADIOLOCATION Earth exploration-satellite	13.75-14 GHz FIXED-SATELLITE (Earth-to-space) 5.484A RADIOLOCATION	Ku-band uplink (VSAT/SNG/FSS feeder links) FDDA (13.4 – 14 GHz)	GG No.34172, dated 31 March 2011 (Annex B)

ITU Region 1 allocations and footnotes	South African allocations and footnotes	Typical Applications	Comments
Standard frequency and time signal-satellite (Earth-to-space) Space research 5.499 5.500 5.501 5.502 5.503	5.502 5.503		

ITU Region 1 allocations and footnotes	South African allocations and footnotes	Typical Applications	Comments
14-14.25 GHz FIXED-SATELLITE (Earth-to-space) 5.457A 5.457B 5.484A 5.506 5.506B RADIONAVIGATION 5.504 Mobile-satellite (Earth-to-space) 5.504B 5.504C 5.506A Space research 5.504A 5.505	14-14.25 GHz FIXED-SATELLITE (Earth-to-space) 5.457A 5.457B 5.484A 5.506 5.506B NF17 Mobile-satellite (Earth-to-space) 5.504B 5.504C 5.506A 5.504A	Ku-band uplink (VSAT/SNG/FSS feeder links)	
14.25-14.3 GHz FIXED-SATELLITE (Earth-to-space) 5.457A 5.457B 5.484A 5.506 5.506B RADIONAVIGATION 5.504 Mobile-satellite (Earth-to-space) 5.504B 5.506A 5.508A Space research 5.504A 5.505 5.508	14.25-14.3 GHz 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 5.504A	Ku-band uplink (VSAT/SNG/FSS feeder links)	
14.3-14.4 GHz FIXED FIXED-SATELLITE (Earth-to-space) 5.457A 5.457B 5.484A 5.506 5.506B MOBILE except aeronautical mobile Mobile-satellite (Earth-to-space) 5.504B 5.506A 5.509A Radionavigation-satellite 5.504A	14.3-14.4 GHz 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 5.504A	Ku-band uplink (VSAT/SNG/FSS feeder links)	
14.4-14.47 GHz	14.4-14.47 GHz		

ITU Region 1 allocations and footnotes	South African allocations and footnotes	Typical Applications	Comments
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 Space research (space-to-Earth) 5.504A	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 5.504A	Ku-band uplink (VSAT/SNG/FSS feeder links)	
14.47-14.5 GHz FIXED FIXED-SATELLITE (Earth-to-space) 5.457A 5.457B 5.484A 5.506 5.506B MOBILE except aeronautical mobile Mobile-satellite (Earth-to-space) 5.504B 5.506A 5.509A Radio astronomy 5.149 5.504A	14.47-14.5 GHz FIXED-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 5.149 5.504A	Ku-band uplink (VSAT/SNG/FSS feeder links)	
14.5-14.8 GHz FIXED FIXED-SATELLITE (Earth-to-space) 5.510 MOBILE Space research	14.5-14.8 GHz FIXED NF14 FIXED-SATELLITE (Earth-to-space) 5.510	Fixed Links (15 GHz) (14.5 – 15.35 GHz) BSS feeder links	
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)	

ITU Region 1 allocations and footnotes	South African allocations and footnotes	Typical Applications	Comments
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	VILBIRA Observations Passive sensing	
15.4-15.43 GHz RADIOLOCATION 5.511E 5.511F AERONAUTICAL RADIONAVIGATION 5.511D	15.4-15.43 GHz RADIOLOCATION 5.511E 5.511F AERONAUTICAL RADIONAVIGATION 5.511D	Radio Altimeters	ICAO: ASDE Annex 10
15.43-15.63 GHz FIXED-SATELLITE (Earth-to-space) 5.511A RADIOLOCATION 5.511E 5.511F AERONAUTICAL RADIONAVIGATION 5.511C	15.43-15.63 GHz RADIOLOCATION 5.511E 5.511F AERONAUTICAL RADIONAVIGATION 5.511C	Radio Altimeters	ICAO: ASDE Annex 10
15.63-15.7 GHz RADIOLOCATION 5.511E 5.511F AERONAUTICAL RADIONAVIGATION 5.511D	15.63-15.7 GHz RADIOLOCATION 5.511E 5.511F AERONAUTICAL RADIONAVIGATION 5.511D	Radio Altimeters	ICAO: ASDE Annex 10
15.7-16.6 GHz RADIOLOCATION 5.512 5.513	15.7-16.6 GHz RADIOLOCATION		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	Comments
RADIOLOCATION 5.512 5.513	RADIOLOCATION	WAS / RLAN	GG No.34172, dated 31 March 2011 (Annex B)
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	GG No.34172, dated 31 March 2011 (Annex B)
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		
17.7-18.1 GHz FIXED FIXED-SATELLITE (space-to-Earth) 5.484A (Earth-to-space) 5.516 MOBILE	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 (17.7 – 19.7 GHz)	
18.1-18.4 GHz FIXED FIXED-SATELLITE (space-to-Earth) 5.484A 5.516B (Earth-to-space) 5.520 MOBILE 5.519 5.521	18.1-18.4 GHz FIXED NF14 FIXED-SATELLITE (space-to-Earth) 5.484A 5.516B (Earth-to-space) 5.520 5.519	Fixed Links (18 GHz) (17.7 – 19.7 GHz) BSS Feeder Links (17.7 – 19.7 GHz)	

ITU Region 1 allocations and footnotes	South African allocations and footnotes	Typical Applications	Comments
18.4-18.6 GHz FIXED FIXED-SATELLITE (space-to-Earth) 5.484A 5.516B MOBILE	18.4-18.6 GHz FIXED NF14 FIXED-SATELLITE (space-to-Earth) 5.484A 5.516B	Fixed Links (18 GHz) (17.7 – 19.7 GHz) BSS Feeder Links (17.7 – 19.7 GHz)	
18.6-18.8 GHz EARTH EXPLORATION-SATELLITE (passive) FIXED FIXED-SATELLITE (space-to-Earth) 5.522B MOBILE except aeronautical mobile Space research (passive) 5.522A 5.522C	18.6-18.8 GHz EARTH EXPLORATION-SATELLITE (passive) FIXED NF14 FIXED-SATELLITE (space-to-Earth) 5.522B Space research (passive) 5.522A	Fixed Links (18 GHz) (17.7 – 19.7 GHz) BSS Feeder Links (17.7 – 19.7 GHz) 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) BSS Feeder Links (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 (17.7 – 19.7 GHz)	
19.7-20.1 GHz FIXED-SATELLITE (space-to-Earth) 5.484A 5.516B	19.7-20.1 GHz FIXED-SATELLITE (space-to-Earth) 5.484A 5.516B	GSO/FSS	

ITU Region 1 allocations and footnotes	South African allocations and footnotes	Typical Applications	Comments
Mobile-satellite (space-to-Earth) 5.524			
20.1-20.2 GHz FIXED-SATELLITE (space-to-Earth) 5.484A 5.516B MOBILE-SATELLITE (space-to-Earth) 5.524 5.525 5.526 5.527 5.528	20.1-20.2 GHz FIXED-SATELLITE (space-to-Earth) 5.484A 5.516B 5.525 5.526 5.527 5.528		
20.2-21.2 GHz FIXED-SATELLITE (space-to-Earth) MOBILE-SATELLITE (space-to-Earth) Standard frequency and time signal-satellite (space-to-Earth) 5.524	20.2-21.2 GHz FIXED-SATELLITE (space-to-Earth) MOBILE-SATELLITE (space-to-Earth) Standard frequency and time signal-satellite (space-to-Earth)		
21.2-21.4 GHz EARTH EXPLORATION-SATELLITE (passive) FIXED MOBILE SPACE RESEARCH (passive)	21.2-21.4 GHz EARTH EXPLORATION-SATELLITE (passive) FIXED NF14 SPACE RESEARCH (passive)	Fixed Links (23 GHz) (21.2 – 23.6 GHz) Passive Sensing	
21.4-22 GHz FIXED MOBILE BROADCASTING-SATELLITE 5.208B 5.530A 5.530B 5.530C 5.530D	21.4-22 GHz FIXED NF14 MOBILE BROADCASTING-SATELLITE 5.208B 5.530A 5.530B 5.530C 5.530D	Fixed Links (23 GHz) (21.2 – 23.6 GHz)	[
22-22.21 GHz FIXED MOBILE except aeronautical mobile	22-22.21 GHz FIXED NF14 MOBILE except aeronautical mobile	Fixed Links (23 GHz) (21.2 – 23.6 GHz)	