

ITU Region 1 allocations and footnotes	South African allocations and footnotes	Typical Applications	Comments
FIXED			
MOBILE	MOBILE NF7		
Mobile-satellite (space-to-Earth) 5.208A 5.208B 5.254 5.255	Mobile-satellite (space-to-Earth) 5.208A 5.208B 5.254 5.255	Digital Trunking (387 – 390 MHz)	Paired with 397 – 399.9 MHz
390-399.9 MHz	390-399.9 MHz		
FIXED			
MOBILE	MOBILE NF7		
		Digital Trunking (Emergency) (390 – 397 MHz) Public Protection Digital Radio (PPDR) (390 – 395 MHz) Digital Trunking (397 – 399.9 MHz)	Paired with 380 – 387 MHz Paired with 380 – 385 MHz Paired with 387 – 390 MHz
5.254	5.254		
399.9-400.05 MHz	399.9-400.05 MHz		
MOBILE-SATELLITE (Earth-to-space) 5.209 5.224A	MOBILE-SATELLITE (Earth-to-space) 5.209 5.224A		
RADIONAVIGATION-SATELLITE 5.222 5.224B 5.260 5.220	RADIONAVIGATION-SATELLITE 5.222 5.224B 5.260 5.220		
400.05-400.15 MHz	400.05-400.15 MHz		
STANDARD FREQUENCY AND TIME SIGNAL-SATELLITE (400.1 MHz) 5.261 5.262	STANDARD FREQUENCY AND TIME SIGNAL- SATELLITE (400.1 MHz) 5.261		
400.15-401 MHz	400.15-401 MHz		
METEOROLOGICAL AIDS	METEOROLOGICAL AIDS		
METEOROLOGICAL-SATELLITE (space-to-Earth)	METEOROLOGICAL-SATELLITE (space-to-Earth)		
MOBILE-SATELLITE (space-to-Earth) 5.208A 5.208B 5.209	MOBILE-SATELLITE (space-to-Earth) 5.208A 5.208B 5.209	Radio Sounding	

ITU Region 1 allocations and footnotes	South African allocations and footnotes	Typical Applications	Comments
SPACE RESEARCH (space-to-Earth) 5.263 Space operation (space-to-Earth) 5.262 5.264	SPACE RESEARCH (space-to-Earth) 5.263 Space operation (space-to-Earth) 5.264		
401-402 MHz METEOROLOGICAL AIDS SPACE OPERATION (space-to-Earth) EARTH EXPLORATION-SATELLITE (Earth-to-space) METEOROLOGICAL-SATELLITE (Earth-to-space) Fixed Mobile except aeronautical mobile	401-402 MHz METEOROLOGICAL AIDS SPACE OPERATION (space-to-Earth)	Radio Sondes Data uplink to Geostationary Satellite orbit	
402-403 MHz METEOROLOGICAL AIDS EARTH EXPLORATION-SATELLITE (Earth-to-space) METEOROLOGICAL-SATELLITE (Earth-to-space) Fixed Mobile except aeronautical mobile	402-403 MHz METEOROLOGICAL AIDS Mobile except aeronautical mobile	Radio Sondes Medical implants (402 – 405 MHz) Various SRD's (402 – 406 MHz)	GG No. 34172, dated 31 March 2011 (Annex B) as is or as amended GG No. 34172, dated 31 March 2011 (Annex B) as is or as amended
403-406 MHz METEOROLOGICAL AIDS Fixed	403-406 MHz METEOROLOGICAL AIDS	Radio Sondes	

ITU Region 1 allocations and footnotes	South African allocations and footnotes	Typical Applications	Comments
Mobile except aeronautical mobile	Mobile except aeronautical mobile	Medical implants (402 – 405 MHz)	GG No. 34172, dated 31 March 2011 (Annex B) as is or as amended
406-406.1 MHz MOBILE-SATELLITE (Earth-to-space) 5.266 5.267	406-406.1 MHz MOBILE-SATELLITE (Earth-to-space) 5.266 5.267	Various SRD's (402 – 406 MHz)	GG No. 34172, dated 31 March 2011 (Annex B) as is or as amended
406.1-410 MHz FIXED MOBILE except aeronautical mobile	406.1-410 MHz FIXED MOBILE except aeronautical mobile	EPIRB (Emergency Position Indicating Radio Beacon)	Public Locator Beacon
RADIO ASTRONOMY 5.149	RADIO ASTRONOMY 5.149	Fixed Links (406.1 – 407.625 MHz) Fixed Links (407.625 – 410 MHz) Mobile MTX (406.1 – 407.625 MHz) Mobile MTX (407.625 – 410 MHz)	Paired with 416.1 – 417.625 MHz Paired with 417.625 – 420 MHz Paired with 416.1 – 417.625 MHz Paired with 417.625 – 420 MHz (Government use for public safety)
410-420 MHz FIXED MOBILE except aeronautical mobile	410-420 MHz FIXED MOBILE except aeronautical mobile	Fixed Links (413 – 416.1 MHz) Mobile MTX (407.625 – 413 MHz) Mobile MTX Digital Trunking (410 – 413 MHz) Mobile Data MTX (413.7625 – 416.1 MHz) Public Digital Trunking MTX (413.7625 – 416.1 MHz) Mobile BTX (416.1 – 417.625 MHz)	Paired with 423 – 426.1 MHz Paired with 417.625 – 423 MHz (Government Services) Paired with 420 – 423 MHz Paired with 423.7625 – 426.1 MHz Paired with 423.7625 – 426.1 MHz Paired with 406.1 – 407.625 MHz
SPACE RESEARCH (space-to-space) 5.268	SPACE RESEARCH (space-to-space) 5.268		

ITU Region 1 allocations and footnotes	South African allocations and footnotes	Typical Applications	Comments
420-430 MHz FIXED	420-430 MHz FIXED	Single Frequency Links (426.1 – 430 MHz)	Frequencies will only be assigned for SF links where migration above 1 GHz would be impractical
MOBILE except aeronautical mobile	MOBILE except aeronautical mobile	Digital Trunked Mobile BTX (420 – 423 MHz) Public Mobile Data BTX (423 – 423.7625 MHz) Digital Public Trunking BTX (423.7625 – 426.1 MHz)	Paired with 410 – 413 MHz (Government use) Paired with 413 – 413.7625 MHz Paired with 413.7626 – 416.1 MHz
Radiolocation 5.269 5.270 5.271	Radiolocation		
430-432 MHz AMATEUR RADIOLOCATION 5.271 5.274 5.275 5.276 5.277	430-432 MHz AMATEUR NF8 RADIOLOCATION	Licence Class A1, A2 and B	GG No. 34172, dated 31 March 2011 (Annex I) as is or as amended
432-438 MHz AMATEUR RADIOLOCATION Earth exploration-satellite (active) 5.279A 5.138 5.271 5.276 5.277 5.280 5.281 5.282	432-438 MHz AMATEUR NF8 Amateur satellite (435 – 438 MHz) RADIOLOCATION Earth exploration-satellite (active) 5.279A 5.138 5.282	Licence Class A1, A2 and B Non-Specific SRD's (433.05 – 434.79 MHz) ISM applications	GG No. 34172, dated 31 March 2011 (Annex I) as is or as amended Subject to conditions in 5.282 GG No. 34172, dated 31 March 2011 (Annex B) as is or as amended
438-440 MHz AMATEUR RADIOLOCATION 5.271 5.274 5.275 5.276 5.277 5.283	438-440 MHz AMATEUR NF8	Licence Class A1, A2 and B	... GG No. 34172, dated 31 March 2011 (Annex I) as is or as amended
440-450 MHz	440-450 MHz		

ITU Region 1 allocations and footnotes	South African allocations and footnotes	Typical Applications	Comments
FIXED	FIXED	5.269 5.270 5.271 5.284 5.285 5.286 5.286 5.269 5.270 5.271 5.284 5.285 5.286 5.286	Paired with 445 – 446 MHz (MTX) Channels 440.0125, 440.3625, 445.0125 and 445.3625 MHz are used for Agricultural Telemetry. Paired with 440 – 441 MHz (BTX) Channels 440 – 440.100 MHz and 445 – 445.1 MHz are used as simplex. Channels 440.275 MHz, 440.2875 MHz, 445.2750 MHz, 445.2875 MHz, 440.375 MHz and 445.375 MHz are roving simplex channels. Paired with 446.1 – 450 MHz (MTX) 8 channels are contained in GG No. 34172, dated 31 March 2011 (Annex B) Paired with 441.1 – 445 MHz
MOBILE except aeronautical mobile	MOBILE except aeronautical mobile	Telemetry / Data MTX (445 – 446 MHz) Single Frequency Mobile (441 – 441.1 MHz) Mobile BTX (441.1 – 445 MHz) PMR 446 (446 – 446.1 MHz) Mobile 446.1 – 450 MHz	
MOBILE except aeronautical mobile	MOBILE except aeronautical mobile	Fixed links (450 – 453 MHz) Single Frequency Mobile (453.025 – 453.975 MHz) Paging (453.975 – 454.425 MHz) Trunked Mobile BTX (454.425 – 460 MHz) IMT450 (450 – 470 MHz)	Paired with 460 – 463 MHz Government Services Paired with 464.425 – 470 MHz

ITU Region 1 allocations and footnotes	South African allocations and footnotes	Typical Applications	Comments
455-456 MHz FIXED MOBILE 5.286AA 5.209 5.271 5.286A 5.286B 5.286C 5.286E	455-456 MHz FIXED MOBILE 5.286AA NF9 5.209 5.286A	Trunked mobile BTX (454.425 – 460 MHz) IMT450 (450 – 470 MHz) Government Services	Paired with 464.425 – 470 MHz
456-459 MHz FIXED MOBILE 5.286AA 5.271 5.287 5.288	456-459 MHz FIXED MOBILE 5.286AA NF9 5.287	Trunked mobile BTX (454.425 – 460 MHz) IMT450 (450 – 470 MHz) Government Services	Paired with 464.425 – 470 MHz
459-460 MHz FIXED MOBILE 5.286AA 5.209 5.271 5.286A 5.286B 5.286C 5.286E	459-460 MHz FIXED MOBILE 5.286AA NF9 5.209 5.271 5.286A	Trunked Mobile BTX 454.425 – 460 MHz IMT450 (450 – 470 MHz) Government Services	Paired with 464.425 – 470 MHz
460-470 MHz FIXED MOBILE 5.286AA	460-470 MHz FIXED MOBILE 5.286AA NF9	Fixed Links (460 – 463 MHz) Single Frequency Mobile (463.025 – 463.975 MHz) Low Power Mobile Radio (463.975 MHz, 464.125 MHz, 464.175 MHz, 464.325 MHz, 464.375 MHz) Trunked Mobile MTX (464.425 – 470 MHz) IMT450 (450 – 470 MHz)	Paired with 450 – 453 MHz GG No. 34172, dated 31 March 2011 (Annex B) Paired with 454.425 – 460 MHz

ITU Region 1 allocations and footnotes	South African allocations and footnotes	Typical Applications	Comments
Meteorological-satellite (space-to-Earth) 5.287 5.288 5.289 5.290	5.287 5.289	Security Systems (464.5375 MHz) Non-specific SRDs (464.5 – 464.5875 MHz) Government Services	GG No. 34172, dated 31 March 2011 (Annex B) GG No. 34172, dated 31 March 2011 (Annex B)
470-790 MHz (694 – 790) BROADCASTING	470-790 MHz BROADCASTING	Television Broadcasting (470 – 854 MHz)	Broadcasting Allotments in accordance with GE89 plan in the process of conversion to GE06
5.149 5.291A 5.294 5.296 5.300 5.304 5.306 5.311A 5.312 5.312A	RADIO ASTRONOMY 5.304 MOBILE except aeronautical mobile NF9 5.149 5.311A 5.312A	Radio Astronomy (606 – 614 MHz) IMT700 (694 – 790 MHz)	
790-862 MHz FIXED	790-862 MHz FIXED	Fixed Links (856 – 864.1 MHz)	The fixed links will be migrated along with the broadcasting service after dual illumination period
MOBILE except aeronautical mobile 5.316B 5.317A BROADCASTING	MOBILE except aeronautical mobile 5.316B 5.317A NF9 BROADCASTING	IMT800 BTX (791 – 821 MHz) IMT800 MTX (832 – 862 MHz) Television Broadcasting (470 – 854 MHz)	Paired with 832 – 862 MHz Paired with 791 – 821 MHz Broadcasting Allotments in accordance with GE89 plan in the process of conversion to GE06
5.312 5.314 5.315 5.316 5.316A 5.319	5.316A		
862-990 MHz FIXED	862-990 MHz FIXED	Fixed Links (856 – 864.1 MHz)	Paired with 921 – 925 MHz Paired with 925 – 960 MHz
MOBILE except aeronautical mobile 5.317A	MOBILE except aeronautical mobile 5.317A NF9 NF10	Mobile (MTX) (876 – 880 MHz) IMT900 MTX (880 – 915 MHz)	

ITU Region 1 allocations and footnotes	South African allocations and footnotes	Typical Applications	Comments
BROADCASTING 5.322 5.319 5.323		Mobile Wireless Access (824 – 849 MHz) Wireless Audio systems and Wireless microphones (863 – 865 MHz) CT2 cordless phones (864.1 – 868.1 MHz) RFID (865 – 868 MHz) Non Specific SRDs (868 – 868.6 MHz, 868.7 – 869.2 MHz, 869.4 – 869.65 MHz, 869.7 – 870.0 MHz) Alarms (868.6 – 868.7 MHz, 869.25 – 869.3 MHz, 869.65 – 869.7 MHz)	Paired with 869 – 894 MHz GG No.34172, dated 31 March 2011 (Annex B) as is or as amended GG 34172, dated 31 March 2011 (Annex B) as is or as amended GG 34172, dated 31 March 2011 (Annex B) as is or as amended GG 34172, dated 31 March 2011 (Annex B) as is or as amended GG 34172, dated 31 March 2011 (Annex B) as is or as amended
890-942 MHz FIXED MOBILE except aeronautical mobile 5.317A	890-942 MHz MOBILE except aeronautical mobile 5.317A NF9 NF10 NF11	Mobile (MTX) (876 – 880 MHz) IMT900 MTX (880 – 915 MHz) IMT900 BTX (925 – 960 MHz) RFID, passive tag and vehicle location (915 – 921 MHz)	Paired with 921 – 925 MHz Paired with 925 – 960 MHz Paired with 880 – 915 MHz
BROADCASTING 5.322 Radiolocation 5.323			
942-960 MHz FIXED MOBILE except aeronautical mobile 5.317A BROADCASTING 5.322	942-960 MHz MOBILE except aeronautical mobile 5.317A NF9	IMT900 BTX (925 – 960 MHz)	Paired with 880 – 915 MHz

ITU Region 1 allocations and footnotes	South African allocations and footnotes	Typical Applications	Comments
5.323			
960-1 164 MHz AERONAUTICAL RADIONAVIGATION 5.328 AERONAUTICAL MOBILE (R) 5.327A	960-1 164 MHz AERONAUTICAL RADIONAVIGATION 5.328 AERONAUTICAL MOBILE (R) 5.327A	Distance measuring equipment / Secondary surveillance radar	
1 164-1 215 MHz AERONAUTICAL RADIONAVIGATION 5.328 RADIONAVIGATION-SATELLITE (space-to-Earth) (space-to-space) 5.328B 5.328A	1 164-1 215 MHz AERONAUTICAL RADIONAVIGATION 5.328 RADIONAVIGATION-SATELLITE (space-to-Earth) (space-to-space) 5.328B 5.328A		
1 215-1 240 MHz EARTH EXPLORATION-SATELLITE (active) RADIOLOCATION RADIONAVIGATION-SATELLITE (space-to-Earth) (space-to-space) 5.328B 5.329 5.329A SPACE RESEARCH (active) 5.330 5.331 5.332	1 215-1 240 MHz EARTH EXPLORATION-SATELLITE (active) RADIOLOCATION RADIONAVIGATION) RADIONAVIGATION-SATELLITE (space-to-Earth) (space-to-space) 5.328B 5.329 5.329A SPACE RESEARCH (active) 5.331 5.332	RADIONAVIGATION (1 215 – 1 300 MHz Global Positioning System (1 215 – 1 260 MHz)	
1 240-1 300 MHz EARTH EXPLORATION-SATELLITE (active) RADIOLOCATION RADIONAVIGATION-SATELLITE (space-to-Earth) (space-to-space) 5.328B 5.329 5.329A SPACE RESEARCH (active)	1 240-1 300 MHz EARTH EXPLORATION-SATELLITE (active) RADIOLOCATION RADIONAVIGATION RADIONAVIGATION-SATELLITE (space-to-Earth) (space-to-space) 5.328B 5.329 5.329A SPACE RESEARCH (active)	Air Traffic Control Radar (1 240 – 1 350 MHz) RADIONAVIGATION (1 215 – 1 300 MHz Global Positioning System L2 (1 215 – 1 260 MHz)	

ITU Region 1 allocations and footnotes	South African allocations and footnotes	Typical Applications	Comments
Amateur 5.282 5.330 5.331 5.332 5.335 5.335A	Amateur 5.282 5.331 5.332 5.335A	Amateur (1 240 – 1 300 MHz)	
1 300-1 350 MHz AERONAUTICAL RADIONAVIGATION 5.337 RADIOLOCATION RADIONAVIGATION-SATELLITE (Earth-to-space) 5.149 5.337A	1 300-1 350 MHz AERONAUTICAL RADIONAVIGATION 5.337 RADIOLOCATION RADIONAVIGATION-SATELLITE (Earth-to-space) Radio Astronomy 5.149 5.337A	Air Traffic Control Radar (1 240 – 1 350 MHz)	
1 350-1 400 MHz FIXED MOBILE RADIOLOCATION 5.149 5.338 5.338A 5.339	1 350-1 400 MHz FIXED MOBILE RADIOLOCATION Radio Astronomy 5.149 5.338A 5.339	Fixed links low capacity (1 350 – 1 375 MHz) Fixed links low capacity (1 375 – 1 400 MHz)	Paired with 1 492 – 1 517 MHz (CEPT/R 13-01 Annex A refers) Paired with 1 427 – 1 452 MHz (CEPT/R 13-01 Annex B refers)
1 400-1 427 MHz EARTH EXPLORATION-SATELLITE (passive) RADIO ASTRONOMY SPACE RESEARCH (passive)	1 400-1 427 MHz EARTH EXPLORATION-SATELLITE (passive) RADIO ASTRONOMY SPACE RESEARCH (passive)	Passive sensing	

ITU Region 1 allocations and footnotes	South African allocations and footnotes	Typical Applications	Comments
5.340 5.341	5.340 5.341		
1 427-1 429 MHz SPACE OPERATION (Earth-to-space) FIXED MOBILE except aeronautical mobile 5.338A 5.341	1 427-1 429 MHz SPACE OPERATION (Earth-to-space) FIXED MOBILE except aeronautical mobile 5.338A 5.341	Fixed links low capacity (1 427 – 1 452 MHz)	Paired with 1 375 – 1 400 MHz (CEPT/R 13-01 Annex B refers)
1 429-1 452 MHz FIXED MOBILE except aeronautical mobile 5.338A 5.341 5.342	1 429-1 452 MHz FIXED MOBILE except aeronautical mobile 5.338A 5.341	Fixed links low capacity (1 427 – 1 452 MHz)	Paired with 1 375 – 1 400 MHz (CEPT/R 13-01 Annex B refers)
1 452-1 492 MHz FIXED MOBILE except aeronautical mobile BROADCASTING 5.345 BROADCASTING-SATELLITE 5.208B 5.345 5.341 5.342	1 452-1 492 MHz FIXED MOBILE except aeronautical mobile BROADCASTING 5.345 BROADCASTING-SATELLITE 5.208B 5.345 5.341 NF12	Terrestrial Digital Audio Broadcasting (T-DAB) (1 452 – 1 479.5 MHz) Satellite Digital Audio Broadcasting (S-DAB) (1 479.5 – 1 492 MHz)	
1 492-1 518 MHz FIXED MOBILE except aeronautical mobile 5.341 5.342	1 492-1 518 MHz FIXED 5.341	Fixed Links (1 492 – 1 517 MHz) Single Frequency Links (1 517 – 1 525 MHz)	Paired with 1 350 – 1 375 MHz (CEPT/R 13-01 Annex A refers) CEPT T/R 13-01 refers

ITU Region 1 allocations and footnotes	South African allocations and footnotes	Typical Applications	Comments
1 518-1 525 MHz FIXED MOBILE except aeronautical mobile MOBILE-SATELLITE (space-to-Earth) 5.348 5.348A 5.348B 5.351A 5.341 5.342	1 518-1 525 MHz FIXED MOBILE-SATELLITE (space-to-Earth) 5.348 5.348A 5.351A 5.341	Single Frequency Links (1 517 – 1 525 MHz) IMT Satellite component	CEPT T/R 13-01 refers
1 525-1 530 MHz SPACE OPERATION (space-to-Earth) FIXED MOBILE-SATELLITE (space-to-Earth) 5.208B 5.351A	1 525-1 530 MHz SPACE OPERATION (space-to-Earth) FIXED MOBILE-SATELLITE (space-to-Earth) 5.208B 5.351A	GMDSS Maritime satellite (1 525 – 1 544 MHz) Mobile satellite (1544 – 1545 MHz) Aeronautical Mobile satellite (1545 – 1555 MHz) Land Mobile satellite (1555 – 1559 MHz)	Paired with 1 626.5 – 1 660.5 MHz
Earth exploration-satellite Mobile except aeronautical mobile 5.349 5.341 5.342 5.350 5.351 5.352A 5.354	Earth exploration-satellite Mobile except aeronautical mobile 5.341 5.351 5.354		
1 530-1 535 MHz SPACE OPERATION (space-to-Earth) MOBILE-SATELLITE (space-to-Earth) 5.208B 5.351A 5.353A	1 530-1 535 MHz SPACE OPERATION (space-to-Earth) MOBILE-SATELLITE (space-to-Earth) 5.208B 5.351A 5.353A	GMDSS Maritime satellite (1 525 – 1 544 MHz) Mobile satellite (1544 – 1545 MHz) Aeronautical Mobile satellite (1545 – 1555 MHz) Land Mobile satellite (1555 – 1559 MHz)	Paired with 1 626.5 – 1 660.5 MHz
Earth exploration-satellite Fixed	Earth exploration-satellite Fixed		

ITU Region 1 allocations and footnotes	South African allocations and footnotes	Typical Applications	Comments
Mobile except aeronautical mobile 5.341 5.342 5.351 5.354	Mobile except aeronautical mobile 5.341 5.351 5.354		
1 535-1 559 MHz MOBILE-SATELLITE (space-to-Earth) 5.208B 5.351A 5.341 5.351 5.353A 5.354 5.355 5.356 5.357 5.357A 5.359 5.362A	1 535-1 559 MHz MOBILE-SATELLITE (space-to-Earth) 5.208B 5.351A 5.341 5.351 5.353A 5.354 5.356 5.357 5.357A	GMDSS Maritime satellite (1 525 – 1 544 MHz) Mobile satellite (1544 – 1545 MHz) Aeronautical Mobile satellite (1545 – 1555 MHz) Land Mobile satellite (1555 – 1559 MHz)	Paired with 1 626.5 – 1 660.5 MHz
1 559-1 610 MHz AERONAUTICAL RADIONAVIGATION RADIONAVIGATION-SATELLITE (space-to-Earth) (space-to-space) 5.208B 5.328B 5.329A 5.341 5.362B 5.362C	1 559-1 610 MHz AERONAUTICAL RADIONAVIGATION RADIONAVIGATION-SATELLITE (space-to-Earth) (space-to-space) 5.208B 5.328B 5.329A 5.341	Aeronautical (R) (1 545 – 1 555 MHz) Global Positioning System (1 559 – 1 610 MHz)	Paired with 1 646.5 – 1 666.5 MHz
1 610-1 610.6 MHz MOBILE-SATELLITE (Earth-to-space) 5.351A AERONAUTICAL RADIONAVIGATION 5.341 5.355 5.359 5.364 5.366 5.367 5.368 5.369 5.371 5.372	1 610-1 610.6 MHz MOBILE-SATELLITE (Earth-to-space) 5.351A AERONAUTICAL RADIONAVIGATION 5.341 5.364 5.366 5.367 5.368 5.371 5.372	MSS (1 610 – 1 626.5 MHz)	Paired with 2 483.5 – 2 500 MHz for some systems

ITU Region 1 allocations and footnotes	South African allocations and footnotes	Typical Applications	Comments
1 610.6-1 613.8 MHz MOBILE-SATELLITE (Earth-to-space) 5.351A RADIO ASTRONOMY AERONAUTICAL RADIONAVIGATION 5.149 5.341 5.355 5.364 5.366 5.367 5.368 5.369 5.371 5.372	1 610.6-1 613.8 MHz MOBILE-SATELLITE (Earth-to-space) 5.351A RADIO ASTRONOMY AERONAUTICAL RADIONAVIGATION 5.149 5.341 5.364 5.366 5.367 5.368 5.371 5.372	MSS (1 610 – 1 626.5 MHz)	Paired with 2 483.5 – 2 500 MHz for some systems
1 613.8-1 626.5 MHz MOBILE-SATELLITE (Earth-to-space) 5.351A AERONAUTICAL RADIONAVIGATION Mobile-satellite (space-to-Earth) 5.208B 5.341 5.355 5.364 5.365 5.366 5.367 5.368 5.369 5.371 5.372	1 613.8-1 626.5 MHz MOBILE-SATELLITE (Earth-to-space) 5.351A AERONAUTICAL RADIONAVIGATION Mobile-satellite (space-to-Earth) 5.208B 5.341 5.364 5.365 5.366 5.367 5.368 5.371 5.372	MSS (1 610 – 1 626.5 MHz)	Paired with 2 483.5 – 2 500 MHz for some systems
1 626.5-1 660 MHz MOBILE-SATELLITE (Earth-to-space) 5.351A 5.341 5.351 5.363A 5.364 5.355 5.357A 5.359 5.374 5.375 5.376	1 626.5-1 660 MHz MOBILE-SATELLITE (Earth-to-space) 5.351A 5.341 5.351 5.353A 5.354 5.357A 5.374 5.375 5.376	GMDSS Maritime satellite (1 525 – 1 544 MHz) Mobile satellite (1544 – 1545 MHz) Aeronautical Mobile satellite (1545 – 1555 MHz) Land Mobile satellite (1555 – 1559 MHz)	Paired with 1 626.5 – 1 660.5 MHz
1 660-1 660.5 MHz MOBILE-SATELLITE (Earth-to-space) 5.351A	1 660-1 660.5 MHz MOBILE-SATELLITE (Earth-to-space) 5.351A	GMDSS Maritime satellite (1 525 – 1 544 MHz) Mobile satellite (1544 – 1545 MHz) Aeronautical Mobile satellite (1545 – 1555 MHz)	Paired with 1 626.5 – 1 660.5 MHz

ITU Region 1 allocations and footnotes	South African allocations and footnotes	Typical Applications	Comments
RADIO ASTRONOMY 5.149 5.341 5.351 5.354 5.376A	RADIO ASTRONOMY 5.149 5.341 5.351 5.354 5.376A	Land Mobile satellite (1555 – 1559 MHz)	...
1 660.5-1 668 MHz RADIO ASTRONOMY SPACE RESEARCH (passive) Fixed Mobile except aeronautical mobile 5.149 5.341 5.379 5.379A	1 660.5-1 668 MHz RADIO ASTRONOMY SPACE RESEARCH (passive) 5.149 5.341 5.379A		
1 668-1 668.4 MHz MOBILE-SATELLITE (Earth-to-space) 5.351A 5.379B 5.379C RADIO ASTRONOMY SPACE RESEARCH (passive) Fixed Mobile except aeronautical mobile 5.149 5.341 5.379 5.379A	1 668-1 668.4 MHz MOBILE-SATELLITE (Earth-to-space) 5.351A 5.379B 5.379C RADIO ASTRONOMY SPACE RESEARCH (passive) 5.149 5.341 5.379A	IMT satellite component (1 668 – 1 675 MHz)	
1 668.4-1 670 MHz METEOROLOGICAL AIDS FIXED MOBILE except aeronautical mobile MOBILE-SATELLITE (Earth-to-space) 5.351A 5.379B 5.379C RADIO ASTRONOMY 5.149 5.341 5.379D 5.379E	1 668.4-1 670 MHz METEOROLOGICAL AIDS MOBILE except aeronautical mobile MOBILE-SATELLITE (Earth-to-space) 5.351A 5.379B 5.379C RADIO ASTRONOMY 5.149 5.341 5.379D 5.379E	Radio Sondes (1 668 – 1 700 MHz) IMT satellite component (1 668 – 1 675 MHz)	
1 670-1 675 MHz METEOROLOGICAL AIDS	1 670-1 675 MHz METEOROLOGICAL AIDS	Radio Sondes (1 668 – 1 700 MHz)	

ITU Region 1 allocations and footnotes	South African allocations and footnotes	Typical Applications	Comments
FIXED METEOROLOGICAL-SATELLITE (space-to-Earth) MOBILE MOBILE-SATELLITE (Earth-to-space) 5.351A 5.379B 5.341 5.379D 5.379E 5.380A	METEOROLOGICAL-SATELLITE (space-to-Earth) MOBILE MOBILE-SATELLITE (Earth-to-space) 5.351A 5.379B 5.341 5.379D 5.379E 5.380A	IMT satellite component (1 668 – 1 675 MHz)	
1 675-1 690 MHz METEOROLOGICAL AIDS FIXED METEOROLOGICAL-SATELLITE (space-to-Earth) MOBILE except aeronautical mobile 5.341	1 675-1 690 MHz METEOROLOGICAL AIDS METEOROLOGICAL-SATELLITE (space-to-Earth) MOBILE except aeronautical mobile 5.341	Radio Sondes (1 668 – 1 700 MHz)	
1 690-1 700 MHz METEOROLOGICAL AIDS METEOROLOGICAL-SATELLITE (space-to-Earth) Fixed Mobile except aeronautical mobile 5.289 5.341 5.382	1 690-1 700 MHz METEOROLOGICAL AIDS METEOROLOGICAL-SATELLITE (space-to-Earth) 5.289 5.341	Radio Sondes (1 668 – 1 700 MHz)	Channels 1695.6938 MHz; 1695.7250 MHz; 1695.7562 MHz; 1695.7874 MHz; 1691 MHz and 1694.5 MHz

ITU Region 1 allocations and footnotes	South African allocations and footnotes	Typical Applications	Comments
1 700-1 710 MHz FIXED METEOROLOGICAL-SATELLITE (space-to-Earth) MOBILE except aeronautical mobile 5.289 5.341	1 700-1 710 MHz METEOROLOGICAL-SATELLITE (space-to-Earth) 5.289 5.341		
1 710-1 930 MHz FIXED MOBILE 5.384A 5.388A 5.388B 5.149 5.341 5.385 5.386 5.387 5.388	1 710-1 930 MHz FIXED MOBILE 5.384A 5.388A NF9 5.149 5.341 5.385 5.388	DECT FWA (1880 – 1900 MHz) FWA TDD (1900 – 1920 MHz) Fixed Broadband data applications (1 785 – 1 805 MHz) IMT1800 MTX (1710 – 1785 MHz) DECT Cordless telephones (1880 – 1900 MHz) IMT1900 TDD (1900 – 1920 MHz) IMT2100 MTX (1920 – 1980 MHz)	Paired with BTX 1805 – 1880 MHz. GG No.34172, dated 31 March 2011 (Annex B) as is or as amended IMT TDD applications (Future) Paired with BTX 2110 – 2170 MHz.
1 930-1 970 MHz FIXED MOBILE 5.388A 5.388B 5.388	1 930-1 970 MHz FIXED MOBILE 5.388A NF9 5.388	IMT2100 MTX (1920 – 1980 MHz)	Paired with 2110 – 2170 MHz.
1 970-1 980 MHz FIXED MOBILE 5.388A 5.388B 5.388	1 970-1 980 MHz FIXED MOBILE 5.388A NF9 5.388	IMT2100 MTX (1920 – 1980 MHz)	Paired with 2110 – 2170 MHz.
1 980-2 010 MHz FIXED	1 980-2 010 MHz FIXED	Fixed links (1980 – 2010 MHz)	Paired with 2170 – 2200 MHz

ITU Region 1 allocations and footnotes	South African allocations and footnotes	Typical Applications	Comments
MOBILE MOBILE-SATELLITE (Earth-to-space) 5.351A 5.388 5.389A 5.389B 5.389F	MOBILE MOBILE-SATELLITE (Earth-to-space) 5.351A 5.388 5.389A NF13	CGC/ATC fixed systems (1980 – 2010 MHz) IMT-satellite	Paired with 2170 – 2200 MHz (future)
2 010-2 025 MHz FIXED MOBILE 5.388A 5.388B 5.388	2 010-2 025 MHz FIXED MOBILE 5.388A NF9 5.388	IMT TDD (2010 – 2025 MHz)	IMT TDD applications (Future)
2 025-2 110 MHz SPACE OPERATION (Earth-to-space) (space-to-space) EARTH EXPLORATION-SATELLITE (Earth-to-space) (space-to-space) FIXED MOBILE 5.391 SPACE RESEARCH (Earth-to-space) (space-to-space) 5.392	2 025-2 110 MHz FIXED NF15 5.392	Fixed Links (2025 – 2110 MHz)	Paired with 2200 – 2285 MHz. ITU-R Rec. F.1098 refers.
2 110-2 120 MHz FIXED MOBILE 5.388A 5.388B SPACE RESEARCH (deep space) (Earth-to-space) 5.388	2 110-2 120 MHz FIXED MOBILE 5.388A NF9 5.388	IMT2100 BTX (2110 – 2170 MHz)	Paired with 1920 – 1980 MHz.
2 120-2 160 MHz FIXED MOBILE 5.388A 5.388B	2 120-2 160 MHz FIXED MOBILE 5.388A NF9	IMT-2100 BTX (2110 – 2170 MHz)	Paired with 1920 – 1980 MHz.

ITU Region 1 allocations and footnotes	South African allocations and footnotes	Typical Applications	Comments
5.388	5.388		
2 160-2 170 MHz FIXED MOBILE 5.388A 5.388B 5.388	2 160-2 170 MHz FIXED MOBILE 5.388A NF9 5.388	IMT2100 BTX (2110 – 2170 MHz)	Paired with 1920 – 1980 MHz.
2 170-2 200 MHz FIXED MOBILE MOBILE-SATELLITE (space-to-Earth) 5.351A 5.388 5.389A 5.389F	2 170-2 200 MHz FIXED MOBILE MOBILE-SATELLITE (space-to-Earth) 5.351A 5.388 5.389A 5.389F NF13	Fixed Links (2170 – 2200 MHz) CGC/ATC fixed systems (1980 – 2010 MHz) IMT-satellite	Paired with 1980 – 2010 MHz Paired with 2170 – 2200 MHz (future)
2 200-2 290 MHz SPACE OPERATION (space-to-Earth) (space-to-space) EARTH EXPLORATION-SATELLITE (space-to-Earth) (space-to-space) FIXED MOBILE 5.391 SPACE RESEARCH (space-to-Earth) (space-to-space) 5.392	2 200-2 290 MHz SPACE OPERATION (space-to-Earth) (space-to-space) FIXED MOBILE 5.391 5.392	TT&C received from space Fixed Links (2200 – 2285 MHz)	Paired with 2025 – 2110 MHz ITU-R Rec. F.1098 refers.
2 290-2 300 MHz FIXED MOBILE except aeronautical mobile SPACE RESEARCH (deep space) (space-to-Earth)	2 290-2 300 MHz FIXED MOBILE except aeronautical mobile SPACE RESEARCH (deep space) (space-to-Earth)	Fixed Links	

ITU Region 1 allocations and footnotes	South African allocations and footnotes	Typical Applications	Comments
2 300-2 450 MHz FIXED	2 300-2 450 MHz FIXED	FWA (PTP/PTMP) (2307-2387 MHz) Outside Broadcast Links	Paired with 2401 – 2481 MHz 28 MHz channels OB links. Frequency co-ordination with other systems operating in the band is mandatory on a case-by-case basis. Primary basis: 2377 MHz and 2471 MHz. Secondary basis: 2321 MHz, 2349 MHz, 2415 MHz and 2443 MHz Paired with 2307-2387 MHz
MOBILE 5.384A	MOBILE 5.384A NF9	FWA (PTP/PTMP) (2401 – 2481 MHz) IMT2300 TDD (2300 – 2400 MHz) WLAN, FDDA and model ctrl. (2400 – 2483.5 MHz) Non-Specific SRDs and low power video surveillance (2400 – 2483.5 MHz)	GG No.34172, dated 31 March 2011 (Annex B) as is or as amended GG No.34172, dated 31 March 2011 (Annex B) as is or as amended
Amateur Radiolocation 5.150 5.282 5.395	Amateur 5.150	ISM applications (2400 – 2500 MHz)	
2 450-2 483.5 MHz FIXED MOBILE	2 450-2 483.5 MHz FIXED MOBILE	FWA (PTP/PTMP) (2401 – 2481 MHz) WLAN and RFID (2400 – 2483.5 MHz) Non-Specific SRDs and low power video surveillance (2400 – 2483.5 MHz)	Paired with 2307-2387 MHz GG No.34172, dated 31 March 2011 (Annex B) as is or as amended GG No.34172, dated 31 March 2011 (Annex B) as is or as amended
Radiolocation 5.150	Radiolocation 5.150	ISM applications (2400 – 2500 MHz)	
2 483.5-2 500 MHz FIXED	2 483.5-2 500 MHz FIXED		

ITU Region 1 allocations and footnotes	South African allocations and footnotes	Typical Applications	Comments
MOBILE MOBILE-SATELLITE (space-to-Earth) 5.351A RADIODETERMINATION-SATELLITE (space-to-Earth) 5.398 Radiolocation 5.398A 5.150 5.399 5.401 5.402	MOBILE MOBILE-SATELLITE (space-to-Earth) 5.351A RADIODETERMINATION-SATELLITE (space-to-Earth) 5.398 5.150 5.399 5.402	Aeronautical Mobile Video surveillance MSS (2483.5 – 2500 MHz)	Unmanned aerial vehicles only Some systems are paired with 1610 – 1626.5 MHz
2 500-2 520 MHz FIXED 5.410 MOBILE except aeronautical mobile 5.384A 5.412	2 500-2 520 MHz FIXED 5.410 MOBILE except aeronautical mobile 5.384A NF9	IMT2600 MTX (2500 – 2570 MHz)	Paired with 2620 – 2690 MHz
2 520-2 655 MHz FIXED 5.410 MOBILE except aeronautical mobile 5.384A BROADCASTING-SATELLITE 5.413 5.416 5.339 5.412 5.417C 5.417D 5.418B 5.418C	2 520-2 655 MHz FIXED 5.410 MOBILE except aeronautical mobile 5.384A NF9 5.339	IMT2600 MTX (2500 – 2570 MHz) IMT2600 TDD (2570 – 2620 MHz) IMT2600 BTX (2620 – 2690 MHz)	Paired with 2620 – 2690 MHz Paired with 2500 – 2570 MHz

ITU Region 1 allocations and footnotes	South African allocations and footnotes	Typical Applications	Comments
2 655-2 670 MHz FIXED 5.410 MOBILE except aeronautical mobile 5.384A BROADCASTING-SATELLITE 5.208B 5.413 5.416 Earth exploration-satellite (passive) Radio astronomy Space research (passive) 5.149 5.412	2 655-2 670 MHz FIXED 5.410 MOBILE except aeronautical mobile 5.384A NF9 Radio astronomy 5.149	IMT2600 MTX (2620 – 2690 MHz)	Paired with 2500 – 2570 MHz
2 670-2 690 MHz FIXED 5.410 MOBILE except aeronautical mobile 5.384A Earth exploration-satellite (passive) Radio astronomy Space research (passive) 5.149 5.412	2 670-2 690 MHz FIXED 5.410 MOBILE except aeronautical mobile 5.384A Radio astronomy 5.149	IMT2600 MTX (2620 – 2690 MHz)	Paired with 2500 – 2570 MHz
2 690-2 700 MHz EARTH EXPLORATION-SATELLITE (passive) RADIO ASTRONOMY SPACE RESEARCH (passive) 5.340 5.422	2 690-2 700 MHz RADIO ASTRONOMY SPACE RESEARCH (passive) 5.340	Passive sensing	
2 700-2 900 MHz AERONAUTICAL RADIONAVIGATION 5.337 Radiolocation 5.423	2 700-2 900 MHz AERONAUTICAL RADIONAVIGATION 5.337 Radiolocation 5.423		

ITU Region 1 allocations and footnotes	South African allocations and footnotes	Typical Applications	Comments
2 900-3 100 MHz RADIOLOCATION 5.424A RADIONAVIGATION 5.426 5.425 5.427	2 900-3 100 MHz RADIOLOCATION 5.424A RADIONAVIGATION 5.426 5.425 5.427		
3 100-3 300 MHz RADIOLOCATION Earth exploration-satellite (active) Space research (active) 5.149 5.428	3 100-3 300 MHz RADIOLOCATION Earth exploration-satellite (active) Space research (active) 5.149	Government Services	
3 300-3 400 MHz RADIOLOCATION 5.149 5.429 5.430	3 300-3 400 MHz RADIOLOCATION 5.149	Government Services	
3 400-3 600 MHz FIXED FIXED-SATELLITE (space-to-Earth) Mobile 5.430A Radiolocation 5.431	3 400-3 600 MHz FIXED MOBILE 5.430A NF9	FWA (3400 – 3600 MHz) IMT3500 (3410 – 3490 MHz) IMT3500 (3510 – 3590 MHz)	Paired with 3510 – 3590 MHz Paired with 3410 – 3490 MHz
3 600-4 200 MHz FIXED FIXED-SATELLITE (space-to-Earth) Mobile	3 600-4 200 MHz FIXED FIXED-SATELLITE (space-to-Earth) NF14	Fixed links (4 GHz) (3600 – 4200 MHz) C-band downlink (VSAT/ISNG/PTP links)	
4 200-4 400 MHz AERONAUTICAL RADIONAVIGATION 5.438 5.439 5.440	4 200-4 400 MHz AERONAUTICAL RADIONAVIGATION 5.438 5.440	Altimeters	
4 400-4 500 MHz	4 400-4 500 MHz		

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

ITU Region 1 allocations and footnotes	South African allocations and footnotes	Typical Applications	Comments
RADIONAVIGATION-SATELLITE (Earth-to-space)	RADIONAVIGATION-SATELLITE (Earth-to-space)		
;	;		
5 030-5 091 MHz AERONAUTICAL MOBILE (R) 5.443C AERONAUTICAL MOBILE-SATELLITE (R) 5.443D AERONAUTICAL RADIONAVIGATION 5.444	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 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)	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
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) 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	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) (indoor use only)	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) (indoor use only)	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
5 725-5 830 MHz FIXED-SATELLITE (Earth-to-space) RADIOLOCATION Amateur	5 725-5 830 MHz FIXED-SATELLITE (Earth-to-space) RADIOLOCATION Amateur Fixed NF16	Fixed links (5725 – 5850 MHz)	GG No.34172, dated 31 March 2011 (Annex B)

ITU Region 1 allocations and footnotes	South African allocations and footnotes	Typical Applications	Comments
5.150 5.451 5.453 5.455 5.456	5.150	RTTA data (5795 – 5815 MHz) ISM applications (5725 – 5875 MHz)	as is or as amended GG No.34172, dated 31 March 2011 (Annex B) as is or as amended
5 830-5 850 MHz FIXED-SATELLITE (Earth-to-space) RADIOLOCATION Amateur Amateur-satellite (space-to-Earth)	5 830-5 850 MHz FIXED-SATELLITE (Earth-to-space) RADIOLOCATION Amateur Amateur-satellite (space-to-Earth) Fixed NF16 5.150	Fixed links (5725 – 5850 MHz) ISM applications (5725 – 5875 MHz)	GG No.34172, dated 31 March 2011 (Annex B) as is or as amended
5 850-5 925 MHz FIXED FIXED-SATELLITE (Earth-to-space) MOBILE 5.150	5 850-5 925 MHz FIXED FIXED-SATELLITE (Earth-to-space) MOBILE 5.150	C-band uplink (VSAT/ISNG/PTP links) ISM applications (5725 – 5875 MHz)	
5 925-6 700 MHz FIXED 5.457 FIXED-SATELLITE (Earth-to-space) 5.457A 5.457B MOBILE 5.457C 5.149 5.440 5.458	5 925-6 700 MHz FIXED NF14 FIXED-SATELLITE (Earth-to-space) 5.457A 5.457B 5.149 5.440 5.458	Fixed Links (L6) (5925 – 6425 MHz) Fixed Links (U6) (6425 – 7110 MHz) C-band uplink (VSAT/ISNG/PTP links)	
6 700-7 075 MHz FIXED FIXED-SATELLITE (Earth-to-space) (space-to-Earth) 5.441	6 700-7 075 MHz FIXED NF14 FIXED-SATELLITE (Earth-to-space) (space-to-Earth) 5.441	Fixed Links (U6) (6425 – 7110 MHz) S-DAB feeder links (uplinks)	

ITU Region 1 allocations and footnotes	South African allocations and footnotes	Typical Applications	Comments
MOBILE 5.458 5.458A 5.458B 5.458C	5.458 5.458A 5.458B 5.458C		
7 075-7 145 MHz FIXED	7 075-7 145 MHz FIXED NF14	Fixed Links (U6) (6425 – 7110 MHz) Fixed Links (L7) (7110 – 7443 MHz)	
MOBILE 5.458 5.459	5.458		
7 145-7 235 MHz FIXED	7 145-7 235 MHz FIXED NF14	Fixed Links (L7) (7110 – 7443 MHz)	
MOBILE SPACE RESEARCH (Earth-to-space) 5.460 5.458 5.459	SPACE RESEARCH (Earth-to-space) 5.460 5.458		
7 235-7 250 MHz FIXED	7 235-7 250 MHz FIXED NF14	Fixed Links (L7) (7110 – 7443 MHz)	
MOBILE 5.458	5.458		
7 250-7 300 MHz FIXED	7 250-7 300 MHz FIXED NF14	Fixed Links (L7) (7110 – 7443 MHz)	
FIXED-SATELLITE (space-to-Earth) MOBILE 5.461	5.461		
7 300-7 450 MHz FIXED	7 300-7 450 MHz FIXED NF14	Fixed Links (L7) (7110 – 7443 MHz)	
FIXED-SATELLITE (space-to-Earth) MOBILE except aeronautical mobile 5.461	5.461		
7 450-7 550 MHz	7 450-7 550 MHz		

ITU Region 1 allocations and footnotes	South African allocations and footnotes	Typical Applications	Comments
FIXED FIXED-SATELLITE (space-to-Earth) METEOROLOGICAL-SATELLITE (space-to-Earth) MOBILE except aeronautical mobile 5.461A	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-SATELLITE (space-to-Earth) MOBILE except aeronautical mobile	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) MOBILE 5.461	7 900-8 025 MHz FIXED NF14 5.461	Fixed Links (L8) (7725 – 8275 MHz)	
8 025-8 175 MHz EARTH EXPLORATION-SATELLITE (space-to-Earth) FIXED	8 025-8 175 MHz EARTH EXPLORATION-SATELLITE (space-to-Earth) FIXED NF14	Fixed Links (L8) (7725 – 8275 MHz)	

ITU Region 1 allocations and footnotes	South African allocations and footnotes	Typical Applications	Comments
FIXED-SATELLITE (Earth-to-space) MOBILE 5.463 5.462A	5.462A		
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)	
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		

ITU Region 1 allocations and footnotes	South African allocations and footnotes	Typical Applications	Comments
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 5.471 5.473A	9 000-9 200 MHz AERONAUTICAL RADIONAVIGATION 5.337 RADIOLOCATION 5.473A	Approach radars	
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	9 300-9 500 MHz RADIONAVIGATION	Shore based radars (9380 – 9440 MHz)	

ITU Region 1 allocations and footnotes	South African allocations and footnotes	Typical Applications	Comments
EARTH EXPLORATION-SATELLITE (active) SPACE RESEARCH (active) RADIOLOCATION 5.427 5.474 5.475 5.475A 5.475B 5.476A	EARTH EXPLORATION-SATELLITE (active) SPACE RESEARCH (active) RADIOLOCATION 5.427 5.474 5.475 5.475A 5.475B 5.476A	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 5.477 5.478 5.478A 5.478B	9 800-9 900 MHz RADIOLOCATION Earth exploration-satellite (active) Space research (active) 5.478A 5.478B	Field Disturbance and Doppler Apparatus (9200 – 9975 MHz)	GG No.34172, dated 31 March 2011 (Annex B)
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)

ITU Region 1 allocations and footnotes	South African allocations and footnotes	Typical Applications	Comments
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 Radiolocation	10.55-10.6 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)
10.6-10.68 GHz EARTH EXPLORATION-SATELLITE (passive) FIXED MOBILE except aeronautical mobile RADIO ASTRONOMY SPACE RESEARCH (passive)	10.6-10.68 GHz EARTH EXPLORATION-SATELLITE (passive) FIXED NF14 RADIO ASTRONOMY SPACE RESEARCH (passive)	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 5.149 5.482 5.482A	Radiolocation 5.149 5.482 5.482A	Motion sensors	
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
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	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

ITU Region 1 allocations and footnotes	South African allocations and footnotes	Typical Applications	Comments
MOBILE Space research (deep space) (space-to-Earth)			
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 Standard frequency and time signal-satellite (Earth-to-space) Space research 5.499 5.500 5.501 5.502 5.503	13.75-14 GHz FIXED-SATELLITE (Earth-to-space) 5.484A RADIOLOCATION 5.502 5.503	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
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 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 5.504A 14.47-14.5 GHz	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	FIXED-SATELLITE (Earth-to-space) 5.457A 5.457B 5.484A 5.506 5.506B NF17 5.149 5.504A 14.5-14.8 GHz	Ku-band uplink (VSAT/SNG/FSS feeder links)	
14.5-14.8 GHz FIXED FIXED-SATELLITE (Earth-to-space) 5.510 MOBILE Space research	FIXED NF14 FIXED-SATELLITE (Earth-to-space) 5.510 14.8-15.35 GHz	Fixed Links (15 GHz) (14.5 – 15.35 GHz) BSS feeder links	
14.8-15.35 GHz FIXED MOBILE Space research 5.339	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 RADIOLOCATION	17.1-17.2 GHz RADIOLOCATION		

ITU Region 1 allocations and footnotes	South African allocations and footnotes	Typical Applications	Comments
5.512 5.513		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		
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	WAS / RLAN	GG No.34172, dated 31 March 2011 (Annex B)
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)	
18.4-18.6 GHz FIXED	18.4-18.6 GHz FIXED NF14	Fixed Links (18 GHz) (17.7 – 19.7 GHz)	

ITU Region 1 allocations and footnotes	South African allocations and footnotes	Typical Applications	Comments
FIXED-SATELLITE (space-to-Earth) 5.484A 5.516B MOBILE	FIXED-SATELLITE (space-to-Earth) 5.484A 5.516B	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 Mobile-satellite (space-to-Earth) 5.524	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
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 MOBILE BROADCASTING-SATELLITE 5.208B 5.530A 5.530B 5.530C 5.530D NF14	Fixed Links (23 GHz) (21.2 – 23.6 GHz)	[
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)	
22.21-22.5 GHz EARTH EXPLORATION-SATELLITE (passive)	22.21-22.5 GHz EARTH EXPLORATION-SATELLITE (passive)		

ITU Region 1 allocations and footnotes	South African allocations and footnotes	Typical Applications	Comments
FIXED MOBILE except aeronautical mobile RADIO ASTRONOMY SPACE RESEARCH (passive) 5.149 5.532	FIXED NF14 RADIO ASTRONOMY SPACE RESEARCH (passive) 5.149 5.532	Fixed Links (23 GHz) (21.2 – 23.6 GHz) Passive Sensing	
22.5-22.55 GHz FIXED MOBILE	22.5-22.55 GHz FIXED NF14 MOBILE	Fixed Links (23 GHz) (21.2 – 23.6 GHz)	
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)	
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)	
23.6-24 GHz EARTH EXPLORATION-SATELLITE (passive) RADIO ASTRONOMY SPACE RESEARCH (passive) 5.340	23.6-24 GHz EARTH EXPLORATION-SATELLITE (passive) RADIO ASTRONOMY SPACE RESEARCH (passive) 5.340	Passive Sensing	
24-24.05 GHz	24-24.05 GHz		

ITU Region 1 allocations and footnotes	South African allocations and footnotes	Typical Applications	Comments
AMATEUR AMATEUR-SATELLITE 5.150	AMATEUR AMATEUR-SATELLITE 5.150	Non-specific SRDs (24-24.25 GHz)	GG No.34172, dated 31 March 2011 (Annex B) as is or as amended
24.05-24.25 GHz RADIOLOCATION Amateur Earth exploration-satellite (active) 5.150	24.05-24.25 GHz RADIOLOCATION Amateur Earth exploration-satellite (active) 5.150	FDDA (24.05 – 24.25 GHz) Non-specific SRDs (24-24.25 GHz)	GG No.34172, dated 31 March 2011 (Annex B) as is or as amended GG No.34172, dated 31 March 2011 (Annex B) as is or as amended
24.25-24.45 GHz FIXED	24.25-24.45 GHz FIXED NF14	Fixed Links (26 GHz) (24.5 – 26.5 GHz)	
24.45-24.65 GHz FIXED INTER-SATELLITE	24.45-24.65 GHz FIXED NF14	Fixed Links (26 GHz) (24.5 – 26.5 GHz)	
24.65-24.75 GHz FIXED FIXED-SATELLITE (Earth-to-space) 5.532B INTER-SATELLITE	24.65-24.75 GHz FIXED NF14	Fixed Links (26 GHz) (24.5 – 26.5 GHz)	
24.75-25.25 GHz FIXED FIXED-SATELLITE (Earth-to-space) 5.532B	24.75-25.25 GHz FIXED NF14 FIXED-SATELLITE (Earth-to-space) 5.532B	Fixed Links (26 GHz) (24.5 – 26.5 GHz)	
25.25-25.5 GHz FIXED INTER-SATELLITE 5.536 MOBILE	25.25-25.5 GHz FIXED NF14	Fixed Links (26 GHz) (24.5 – 26.5 GHz)	

ITU Region 1 allocations and footnotes	South African allocations and footnotes	Typical Applications	Comments
Standard frequency and time signal-satellite (Earth-to-space)			
25.5-27 GHz EARTH EXPLORATION-SATELLITE (space-to Earth) 5.536B FIXED INTER-SATELLITE 5.536 MOBILE SPACE RESEARCH (space-to-Earth) 5.536C Standard frequency and time signal-satellite (Earth-to-space) 5.536A	25.5-27 GHz EARTH EXPLORATION-SATELLITE (space-to Earth) 5.536B FIXED NF14 5.536A	National Polar-Orbiting Operational Environment Satellite System (NPOESS) Fixed Links (26 GHz) (24.5 – 26.5 GHz)	
27-27.5 GHz FIXED INTER-SATELLITE 5.536 MOBILE	27-27.5 GHz FIXED 		
27.5-28.5 GHz FIXED 5.537A FIXED-SATELLITE (Earth-to-space) 5.484A 5.516B 5.539 MOBILE 5.538 5.540	27.5-28.5 GHz FIXED 5.537A NF14 FIXED-SATELLITE (Earth-to-space) 5.484A 5.516B 5.539 5.538 5.540	Fixed Links (28 GHz) (27.5 – 29.5 GHz)	
28.5-29.1 GHz FIXED FIXED-SATELLITE (Earth-to-space) 5.484A 5.516B 5.523A 5.539 MOBILE	28.5-29.1 GHz FIXED NF14 FIXED-SATELLITE (Earth-to-space) 5.484A 5.516B 5.523A 5.539	Fixed Links (28 GHz) (27.5 – 29.5 GHz)	

ITU Region 1 allocations and footnotes	South African allocations and footnotes	Typical Applications	Comments
Earth exploration-satellite (Earth-to-space) 5.541 5.540	5.540		
29.1-29.5 GHz FIXED FIXED-SATELLITE (Earth-to-space) 5.516B 5.523C 5.523E 5.535A 5.539 5.541A MOBILE Earth exploration-satellite (Earth-to-space) 5.541 5.540	29.1-29.5 GHz FIXED NF14 FIXED-SATELLITE (Earth-to-space) 5.516B 5.523C 5.523E 5.535A 5.539 5.541A 5.540	Fixed Links (28 GHz) (27.5 – 29.5 GHz)	
29.5-29.9 GHz FIXED-SATELLITE (Earth-to-space) 5.484A 5.516B 5.539 Earth exploration-satellite (Earth-to-space) 5.541 Mobile-satellite (Earth-to-space) 5.540 5.542	29.5-29.9 GHz FIXED-SATELLITE (Earth-to-space) 5.484A 5.516B 5.539 5.540		
29.9-30 GHz FIXED-SATELLITE (Earth-to-space) 5.484A 5.516B 5.539 MOBILE-SATELLITE (Earth-to-space) Earth exploration-satellite (Earth-to-space) 5.541 5.543 5.525 5.526 5.527 5.538 5.540 5.542	29.9-30 GHz FIXED-SATELLITE (Earth-to-space) 5.484A 5.516B 5.539 MOBILE-SATELLITE (Earth-to-space) 5.525 5.526 5.527 5.538 5.540		
30-31 GHz FIXED-SATELLITE (Earth-to-space) 5.338A	30-31 GHz FIXED-SATELLITE (Earth-to-space) 5.338A		

ITU Region 1 allocations and footnotes	South African allocations and footnotes	Typical Applications	Comments
MOBILE-SATELLITE (Earth-to-space) Standard frequency and time signal-satellite (space-to-Earth) 5.542	MOBILE-SATELLITE (Earth-to-space)		
31-31.3 GHz FIXED 5.338A 5.543A MOBILE Standard frequency and time signal-satellite (space-to-Earth) Space research 5.544 5.545 5.149	31-31.3 GHz FIXED 5.338A 5.543A 5.149	LPVS (31.0 – 31.056 GHz)	GG No...
31.3-31.5 GHz EARTH EXPLORATION-SATELLITE (passive) RADIO ASTRONOMY SPACE RESEARCH (passive) 5.340	31.3-31.5 GHz EARTH EXPLORATION-SATELLITE (passive) RADIO ASTRONOMY 5.340		
31.5-31.8 GHz EARTH EXPLORATION-SATELLITE (passive) RADIO ASTRONOMY SPACE RESEARCH (passive) Fixed Mobile except aeronautical mobile 5.149 5.546	31.5-31.8 GHz RADIO ASTRONOMY SPACE RESEARCH (passive) FIXED 5.546 MOBILE except aeronautical mobile 5.546 5.149	Passive Sensing HPVS (31.5 – 31.8 GHz)	

ITU Region 1 allocations and footnotes	South African allocations and footnotes	Typical Applications	Comments
31.8-32 GHz FIXED 5.547A RADIONAVIGATION SPACE RESEARCH (deep space) (space-to-Earth) 5.547 5.548	31.8-32 GHz FIXED 5.547A NF14 RADIONAVIGATION 5.547 5.548	HDFS (31.8 – 33.4 GHz)	
32-32.3 GHz FIXED 5.547A RADIONAVIGATION SPACE RESEARCH (deep space) (space-to-Earth) 5.547 5.548	32-32.3 GHz FIXED 5.547A NF14 RADIONAVIGATION SPACE RESEARCH (deep space) (space-to-Earth) 5.547 5.548	HDFS (31.8 – 33.4 GHz)	
32.3-33 GHz FIXED 5.547A INTER-SATELLITE RADIONAVIGATION 5.547 5.548	32.3-33 GHz FIXED 5.547A NF14 INTER-SATELLITE RADIONAVIGATION 5.547 5.548	HDFS (31.8 – 33.4 GHz)	
33-33.4 GHz FIXED 5.547A RADIONAVIGATION 5.547	33-33.4 GHz FIXED 5.547A NF14 RADIONAVIGATION 5.547	HDFS (31.8 – 33.4 GHz)	
33.4-34.2 GHz RADIOLOCATION 5.549	33.4-34.2 GHz RADIOLOCATION		
34.2-34.7 GHz RADIOLOCATION SPACE RESEARCH (deep space) (Earth-to-	34.2-34.7 GHz RADIOLOCATION SPACE RESEARCH (deep space) (Earth-to-		

ITU Region 1 allocations and footnotes	South African allocations and footnotes	Typical Applications	Comments
space) 5.549	space)		
34.7-35.2 GHz RADIOLOCATION Space research 5.550 5.549	34.7-35.2 GHz RADIOLOCATION Space research 5.550		
35.2-35.5 GHz METEOROLOGICAL AIDS RADIOLOCATION 5.549	35.2-35.5 GHz METEOROLOGICAL AIDS RADIOLOCATION		
35.5-36 GHz METEOROLOGICAL AIDS EARTH EXPLORATION-SATELLITE (active) RADIOLOCATION SPACE RESEARCH (active) 5.549 5.549A	35.5-36 GHz METEOROLOGICAL AIDS EARTH EXPLORATION-SATELLITE (active) RADIOLOCATION SPACE RESEARCH (active) 5.549A		
36-37 GHz EARTH EXPLORATION-SATELLITE (passive) FIXED MOBILE SPACE RESEARCH (passive) 5.149 5.550A	36-37 GHz EARTH EXPLORATION-SATELLITE (passive) FIXED MOBILE SPACE RESEARCH (passive) 5.149 5.550A	Passive Sensing	
37-37.5 GHz FIXED MOBILE except aeronautical mobile SPACE RESEARCH (space-to-Earth) 5.547	37-37.5 GHz FIXED NF14 5.547	Fixed Links (38 GHz) (37.0 – 39.5 GHz)	

ITU Region 1 allocations and footnotes	South African allocations and footnotes	Typical Applications	Comments
37.5-38 GHz FIXED FIXED-SATELLITE (space-to-Earth) MOBILE except aeronautical mobile SPACE RESEARCH (space-to-Earth) Earth exploration-satellite (space-to-Earth) 5.547	37.5-38 GHz FIXED NF14 5.547	Fixed Links (38 GHz) (37.0 – 39.5 GHz)	
38-39.5 GHz FIXED FIXED-SATELLITE (space-to-Earth) MOBILE Earth exploration-satellite (space-to-Earth) 5.547	38-39.5 GHz FIXED NF14 5.547	Fixed Links (38 GHz) (37.0 – 39.5 GHz)	
39.5-40 GHz FIXED FIXED-SATELLITE (space-to-Earth) 5.516B MOBILE MOBILE-SATELLITE (space-to-Earth) Earth exploration-satellite (space-to-Earth) 5.547	39.5-40 GHz FIXED FIXED-SATELLITE (space-to-Earth) 5.516B 5.547		
40-40.5 GHz EARTH EXPLORATION-SATELLITE (Earth-to-space) FIXED FIXED-SATELLITE (space-to-Earth) 5.516B MOBILE	40-40.5 GHz EARTH EXPLORATION-SATELLITE (Earth-to-space) FIXED FIXED-SATELLITE (space-to-Earth) 5.516B MOBILE		

ITU Region 1 allocations and footnotes	South African allocations and footnotes	Typical Applications	Comments
MOBILE-SATELLITE (space-to-Earth) SPACE RESEARCH (Earth-to-space) Earth exploration-satellite (space-to-Earth)	MOBILE-SATELLITE (space-to-Earth) SPACE RESEARCH (Earth-to-space) Earth exploration-satellite (space-to-Earth)		
40.5-41 GHz FIXED FIXED-SATELLITE (space-to-Earth) BROADCASTING BROADCASTING-SATELLITE Mobile 5.547	40.5-41 GHz FIXED FIXED-SATELLITE (space-to-Earth) BROADCASTING BROADCASTING-SATELLITE Mobile 5.547		
41-42.5 GHz FIXED FIXED-SATELLITE (space-to-Earth) BROADCASTING BROADCASTING-SATELLITE Mobile 5.547 5.551F 5.551H 5.551I	41-42.5 GHz FIXED FIXED-SATELLITE (space-to-Earth) BROADCASTING BROADCASTING-SATELLITE 5.547 5.551F 5.551H 5.551I		
42.5-43.5 GHz FIXED FIXED-SATELLITE (Earth-to-space) 5.552 MOBILE except aeronautical mobile RADIO ASTRONOMY 5.149 5.547 5.551H	42.5-43.5 GHz FIXED FIXED-SATELLITE (Earth-to-space) 5.552 MOBILE except aeronautical mobile RADIO ASTRONOMY 5.149 5.547 5.551H		
43.5-47 GHz MOBILE 5.553 MOBILE-SATELLITE RADIONAVIGATION	43.5-47 GHz MOBILE 5.553 MOBILE-SATELLITE RADIONAVIGATION		

ITU Region 1 allocations and footnotes	South African allocations and footnotes	Typical Applications	Comments
RADIONAVIGATION-SATELLITE 5.554	RADIONAVIGATION-SATELLITE 5.554		
47-47.2 GHz AMATEUR AMATEUR-SATELLITE	47-47.2 GHz AMATEUR AMATEUR-SATELLITE		
47.2-47.5 GHz FIXED FIXED-SATELLITE (Earth-to-space) 5.552 MOBILE 5.552A	47.2-47.5 GHz FIXED FIXED-SATELLITE (Earth-to-space) 5.552 MOBILE 5.552A		
47.5-47.9 GHz FIXED FIXED-SATELLITE (Earth-to-space) 5.552 (space-to-Earth) 5.516B 5.554A MOBILE	47.5-47.9 GHz FIXED FIXED-SATELLITE (Earth-to-space) 5.552 (space-to-Earth) 5.516B 5.554A MOBILE		
47.9-48.2 GHz FIXED FIXED-SATELLITE (Earth-to-space) 5.552 MOBILE 5.552A	47.9-48.2 GHz FIXED FIXED-SATELLITE (Earth-to-space) 5.552 MOBILE 5.552A		
48.2-48.54 GHz FIXED FIXED-SATELLITE (Earth-to-space) 5.552 (space-to-Earth) 5.516B 5.554A 5.555B	48.2-48.54 GHz FIXED FIXED-SATELLITE (Earth-to-space) 5.552 (space-to-Earth) 5.516B 5.554A 5.555B		

ITU Region 1 allocations and footnotes	South African allocations and footnotes	Typical Applications	Comments
MOBILE	MOBILE		
48.54-49.44 GHz	48.54-49.44 GHz		
FIXED	FIXED		
FIXED-SATELLITE	FIXED-SATELLITE		
(Earth-to-space) 5.552	(Earth-to-space) 5.552		
MOBILE	MOBILE		
5.149 5.340 5.555	5.149 5.340 5.555		
49.44-50.2 GHz	49.44-50.2 GHz		
FIXED	FIXED		
FIXED-SATELLITE	FIXED-SATELLITE		
(Earth-to-space) 5.338A 5.552	(Earth-to-space) 5.338A 5.552		
(space-to-Earth) 5.516B	(space-to-Earth) 5.516B		
5.554A 5.555B	5.554A 5.555B		
MOBILE	MOBILE		
50.2-50.4 GHz	50.2-50.4 GHz		
EARTH EXPLORATION-SATELLITE (passive)	EARTH EXPLORATION-SATELLITE (passive)		
SPACE RESEARCH (passive)	SPACE RESEARCH (passive)		
5.340	5.340		
50.4-51.4 GHz	50.4-51.4 GHz		
FIXED	FIXED		
FIXED-SATELLITE (Earth-to-space) 5.338A	FIXED-SATELLITE (Earth-to-space) 5.338A		
MOBILE	MOBILE		
Mobile-satellite (Earth-to-space)	Mobile-satellite (Earth-to-space)		
51.4-52.6 GHz	51.4-52.6 GHz		
FIXED 5.338A	FIXED 5.338A		
MOBILE	MOBILE		
5.547 5.556	5.547 5.556		

ITU Region 1 allocations and footnotes	South African allocations and footnotes	Typical Applications	Comments
52.6-54.25 GHz EARTH EXPLORATION-SATELLITE (passive) SPACE RESEARCH (passive) 5.340 5.556	52.6-54.25 GHz EARTH EXPLORATION-SATELLITE (passive) SPACE RESEARCH (passive) 5.340 5.556	Passive Sensing (53.6 – 59.3 GHz)	
54.25-55.78 GHz EARTH EXPLORATION-SATELLITE (passive) INTER-SATELLITE 5.556A SPACE RESEARCH (passive)	54.25-55.78 GHz EARTH EXPLORATION-SATELLITE (passive) INTER-SATELLITE 5.556A SPACE RESEARCH (passive)	Passive Sensing (53.6 – 59.3 GHz)	
55.78-56.9 GHz EARTH EXPLORATION-SATELLITE (passive) FIXED 5.557A INTER-SATELLITE 5.556A MOBILE 5.558 SPACE RESEARCH (passive) 5.547	55.78-56.9 GHz EARTH EXPLORATION-SATELLITE (passive) FIXED 5.557A INTER-SATELLITE 5.556A MOBILE 5.558 SPACE RESEARCH (passive) 5.547	Passive Sensing (53.6 – 59.3 GHz)	
56.9-57 GHz EARTH EXPLORATION-SATELLITE (passive) FIXED INTER-SATELLITE 5.558A MOBILE 5.558 SPACE RESEARCH (passive) 5.547	56.9-57 GHz EARTH EXPLORATION-SATELLITE (passive) FIXED INTER-SATELLITE 5.558A MOBILE 5.558 SPACE RESEARCH (passive) 5.547	Passive Sensing (53.6 – 59.3 GHz)	
57-58.2 GHz EARTH EXPLORATION-SATELLITE (passive) FIXED INTER-SATELLITE 5.556A	57-58.2 GHz EARTH EXPLORATION-SATELLITE (passive) FIXED INTER-SATELLITE 5.556A		

ITU Region 1 allocations and footnotes	South African allocations and footnotes	Typical Applications	Comments
MOBILE 5.558 SPACE RESEARCH (passive) 5.547	MOBILE 5.558 SPACE RESEARCH (passive) 5.547	Passive Sensing (53.6 – 59.3 GHz)	
58.2-59 GHz EARTH EXPLORATION-SATELLITE (passive) FIXED MOBILE SPACE RESEARCH (passive) 5.547 5.556	58.2-59 GHz EARTH EXPLORATION-SATELLITE (passive) FIXED MOBILE SPACE RESEARCH (passive) 5.547 5.556		
59-59.3 GHz EARTH EXPLORATION-SATELLITE (passive) FIXED INTER-SATELLITE 5.556A MOBILE 5.558 RADIOLOCATION 5.559 SPACE RESEARCH (passive)	59-59.3 GHz EARTH EXPLORATION-SATELLITE (passive) FIXED INTER-SATELLITE 5.556A MOBILE 5.558 RADIOLOCATION 5.559 SPACE RESEARCH (passive)	Passive Sensing (53.6 – 59.3 GHz)	
59.3-64 GHz FIXED INTER-SATELLITE MOBILE 5.558 RADIOLOCATION 5.559 5.138	59.3-64 GHz FIXED INTER-SATELLITE MOBILE 5.558 RADIOLOCATION 5.559 5.138		
64-65 GHz FIXED INTER-SATELLITE MOBILE except aeronautical mobile 5.547 5.556	64-65 GHz FIXED INTER-SATELLITE MOBILE except aeronautical mobile 5.547 5.556		

ITU Region 1 allocations and footnotes	South African allocations and footnotes	Typical Applications	Comments
65-66 GHz EARTH EXPLORATION-SATELLITE FIXED INTER-SATELLITE MOBILE except aeronautical mobile SPACE RESEARCH 5.547	65-66 GHz EARTH EXPLORATION-SATELLITE FIXED INTER-SATELLITE MOBILE except aeronautical mobile SPACE RESEARCH 5.547		
66-71 GHz INTER-SATELLITE MOBILE 5.553 5.558 MOBILE-SATELLITE RADIONAVIGATION RADIONAVIGATION-SATELLITE 5.554	66-71 GHz INTER-SATELLITE MOBILE 5.553 5.558 MOBILE-SATELLITE RADIONAVIGATION RADIONAVIGATION-SATELLITE 5.554		
71-74 GHz FIXED FIXED-SATELLITE (space-to-Earth) MOBILE MOBILE-SATELLITE (space-to-Earth)	71-74 GHz FIXED NF14 FIXED-SATELLITE (space-to-Earth) MOBILE MOBILE-SATELLITE (space-to-Earth)	Fixed Links (80 GHz) (71 – 76 GHz)	Paired with 81 – 86 GHz.
74-76 GHz FIXED FIXED-SATELLITE (space-to-Earth) MOBILE BROADCASTING BROADCASTING-SATELLITE Space research (space-to-Earth) 5.561	74-76 GHz FIXED NF14 FIXED-SATELLITE (space-to-Earth) MOBILE BROADCASTING BROADCASTING-SATELLITE Space research (space-to-Earth) 5.561	Fixed Links (80 GHz) (71 – 76 GHz)	Paired with 81 – 86 GHz.

ITU Region 1 allocations and footnotes	South African allocations and footnotes	Typical Applications	Comments
76-77.5 GHz RADIO ASTRONOMY RADIOLOCATION Amateur Amateur-satellite Space research (space-to-Earth) 5.149	76-77.5 GHz RADIO ASTRONOMY RADIOLOCATION Amateur Amateur-satellite Space research (space-to-Earth) 5.149	RTTT (76 – 77 GHz)	GG No.34172, dated 31 March 2011 (Annex B)
77.5-78 GHz AMATEUR AMATEUR-SATELLITE Radio astronomy Space research (space-to-Earth) 5.149	77.5-78 GHz AMATEUR AMATEUR-SATELLITE Radio astronomy Space research (space-to-Earth) 5.149		
78-79 GHz RADIOLOCATION Amateur Amateur-satellite Radio astronomy Space research (space-to-Earth) 5.149 5.560	78-79 GHz RADIOLOCATION Amateur Amateur-satellite Radio astronomy Space research (space-to-Earth) 5.149 5.560		
79-81 GHz RADIO ASTRONOMY RADIOLOCATION Amateur Amateur-satellite Space research (space-to-Earth) 5.149	79-81 GHz RADIO ASTRONOMY RADIOLOCATION Amateur Amateur-satellite Space research (space-to-Earth) 5.149		

ITU Region 1 allocations and footnotes	South African allocations and footnotes	Typical Applications	Comments
81-84 GHz FIXED 5.338A FIXED-SATELLITE (Earth-to-space) MOBILE MOBILE-SATELLITE (Earth-to-space) RADIO ASTRONOMY Space research (space-to-Earth) 5.149 5.561A	81-84 GHz FIXED 5.338A NF14 FIXED-SATELLITE (Earth-to-space) MOBILE MOBILE-SATELLITE (Earth-to-space) RADIO ASTRONOMY Space research (space-to-Earth) 5.149 5.561A	Fixed Links (80 GHz) (81 – 66 GHz)	Paired with 71 – 76 GHz.
84-86 GHz FIXED 5.338A FIXED-SATELLITE (Earth-to-space) 5.561B MOBILE RADIO ASTRONOMY 5.149	84-86 GHz FIXED 5.338A FIXED-SATELLITE (Earth-to-space) 5.561B MOBILE RADIO ASTRONOMY 5.149		
86-92 GHz EARTH EXPLORATION-SATELLITE (passive) RADIO ASTRONOMY SPACE RESEARCH (passive) 5.340	86-92 GHz EARTH EXPLORATION-SATELLITE (passive) RADIO ASTRONOMY SPACE RESEARCH (passive) 5.340		
92-94 GHz FIXED 5.338A MOBILE RADIO ASTRONOMY RADIOLOCATION 5.149	92-94 GHz FIXED 5.338A MOBILE RADIO ASTRONOMY RADIOLOCATION 5.149		
94-94.1 GHz EARTH EXPLORATION-SATELLITE (active)	94-94.1 GHz EARTH EXPLORATION-SATELLITE (active)		

ITU Region 1 allocations and footnotes	South African allocations and footnotes	Typical Applications	Comments
RADIOLOCATION SPACE RESEARCH (active) Radio astronomy 5.562 5.562A	RADIOLOCATION SPACE RESEARCH (active) Radio astronomy 5.562 5.562A	Short Range Radar. Cloud profile radar.	
94.1-95 GHz FIXED MOBILE RADIO ASTRONOMY RADIOLOCATION 5.149	94.1-95 GHz FIXED MOBILE RADIO ASTRONOMY RADIOLOCATION 5.149	Short Range Radar	
95-100 GHz FIXED MOBILE RADIO ASTRONOMY RADIOLOCATION RADIONAVIGATION RADIONAVIGATION-SATELLITE 5.149 5.554	95-100 GHz FIXED MOBILE RADIO ASTRONOMY RADIOLOCATION RADIONAVIGATION RADIONAVIGATION-SATELLITE 5.149 5.554		
100-102 GHz EARTH EXPLORATION-SATELLITE (passive) RADIO ASTRONOMY SPACE RESEARCH (passive) 5.340 5.341	100-102 GHz EARTH EXPLORATION-SATELLITE (passive) RADIO ASTRONOMY SPACE RESEARCH (passive) 5.340 5.341	Passive sensing	
102-105 GHz FIXED MOBILE RADIO ASTRONOMY	102-105 GHz FIXED MOBILE RADIO ASTRONOMY		

ITU Region 1 allocations and footnotes	South African allocations and footnotes	Typical Applications	Comments
5.149 5.341	5.149 5.341		
105-109.5 GHz FIXED MOBILE RADIO ASTRONOMY SPACE RESEARCH (passive) 5.562B 5.149 5.341	105-109.5 GHz FIXED MOBILE RADIO ASTRONOMY SPACE RESEARCH (passive) 5.562B 5.149 5.341		
109.5-111.8 GHz EARTH EXPLORATION-SATELLITE (passive) RADIO ASTRONOMY SPACE RESEARCH (passive) 5.340 5.341	109.5-111.8 GHz EARTH EXPLORATION-SATELLITE (passive) RADIO ASTRONOMY SPACE RESEARCH (passive) 5.340 5.341	Passive Sensing	
111.8-114.25 GHz FIXED MOBILE RADIO ASTRONOMY SPACE RESEARCH (passive) 5.562B 5.149 5.341	111.8-114.25 GHz FIXED MOBILE RADIO ASTRONOMY SPACE RESEARCH (passive) 5.562B 5.149 5.341		
114.25-116 GHz EARTH EXPLORATION-SATELLITE (passive) RADIO ASTRONOMY SPACE RESEARCH (passive) 5.340 5.341	114.25-116 GHz EARTH EXPLORATION-SATELLITE (passive) RADIO ASTRONOMY SPACE RESEARCH (passive) 5.340 5.341		
116-119.98 GHz EARTH EXPLORATION-SATELLITE (passive) INTER-SATELLITE 5.562C SPACE RESEARCH (passive)	116-119.98 GHz EARTH EXPLORATION-SATELLITE (passive) INTER-SATELLITE 5.562C SPACE RESEARCH (passive)	Passive Sensing	