

410 – 430 MHz

ITU Region 1	South African	Application	Notes and
410 - 420 MHz FIXED MOBILE except aeronautical mobile SPACE RESEARCH (space-to-space) 5.268	MOBILE except aeronautical mobile NF13 SPACE RESEARCH (space-to-space) 5.268	413 - 416.1 MHz Mobile MTX 407.625 – 413 MHz Mobile Data MTX 413 - 413.7625 MHz Public 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 Allocation for Government Paired with 423 - 423.7625 MHz Paired with 423.7625 - 426.1 MHz Public Digital Trunking Paired with 406.1 - 407.625 MHz
420 - 430 MHz FIXED MOBILE except aeronautical mobile Radiolocation 5.269 5.270 5.271	FIXED NF1 MOBILE except aeronautical mobile NF13	Single Frequency Links 426.1 – 430 MHz Trunked Mobile BTX 420 - 423 MHz Public Mobile Data BTX 423 - 423.7625 MHz Public Trunking BTX 423.7625 - 426.1 MHz	Frequencies will only be assigned for SF links where migration above 1 GHz would be impractical Paired with 410 - 413 MHz Digital Trunked Mobile radio for Government use Paired with 413 – 413.7625 MHz Paired with 413.7626 - 416.1 MHz Public Trunking using digital mobile radio

430 – 450 MHz

ITU Region 1 Allocations	South African Allocations	Applications	Comments
430 - 432 MHz AMATEUR RADIOLOCATION 5.271 5.272 5.273 5.274 5.275 5.276 5.277	AMATEUR NF14	Amateur 430 – 440 MHz	
432 - 438 MHz AMATEUR RADIOLOCATION Earth exploration-satellite (active) 5.279A 5.138 5.271 5.272 5.276 5.277 5.280 5.281 5.282	AMATEUR NF14 5.138 Amateur Satellite NF14 Mobile	Amateur 430 – 440 MHz Amateur-Satellite 435 – 438 MHz 433.05 – 434.79 MHz Non Specific SRD including RFID	Subject to conditions in RR 5.282 Government Gazette No 31127, Notice No 713 Of 2008 refers.
438 - 440 MHz AMATEUR RADIOLOCATION 5.271 5.273 5.274 5.275 5.276 5.277 5.283	AMATEUR NF14	Amateur Radio Communication 435 - 438 MHz	License Class A1,A2,B as per the Amateur Radio Regulations

<p>440 - 450 MHz FIXED</p>	<p>FIXED</p>	<p>Telemetry / Data BTX 440 – 441 MHz</p> <p>Telemetry / Data MTX 445 - 446 MHz</p>	<p>Paired with 445 - 446 MHz (MTX) Channels 440 - 440.100 and 445.00 - 445.100 MHz are used as simplex . Channels 440.275, 440.2875, 445.2750, 445.2875, 440.375 and 445.375 MHz are roving simplex channels. Channels 440.0125, 440.3625, 445.0125 and 445.3625 MHz are used for Agricultural Telemetry.</p> <p>Paired with 440 - 441 MHz (BTX) Channels 440 - 440.100 MHz and 445.00 - 445.100 MHz are used as simplex. Channels 440.275, 440.2875, 445.2750, 440.375 and 445.375 MHz are roving simplex channels. Channels 440.0125, 440.3625, 445.0125, 445.3625 MHz are used for Agriculture Telemetry.</p>
<p>MOBILE except aeronautical mobile</p>	<p>MOBILE except aeronautical mobile</p>	<p>Single Frequency Mobile 441 – 441.1 MHz</p> <p>Mobile BTX 441.1 – 445 MHz</p> <p>Mobile: PMR 446 446 - 446.1 MHz</p> <p>Mobile 446.1 - 450 MHz</p>	<p>Paired with 446.1 - 450 MHz (MTX)</p> <p>8 channels</p> <p>Paired with 441.1 - 445 MHz</p>
<p>Radiolocation 5.269 5.270 5.271 5.284 5.285 5.286</p>	<p>NF15</p>		

<p>450 - 455 MHz</p> <p>FIXED</p> <p>MOBILE 5.286AA</p> <p>5.209 5.271 5.286 5.286AA 5.286B 5.286C 5.286D 5.286E</p>	<p>FIXED</p> <p>MOBILE 5.286AA</p> <p>NF15</p> <p>5.209 5.286 5.286AA</p>	<p>Fixed Links 450 – 453 MHz</p> <p>Single Frequency Mobile 453.025 - 453.975 MHz</p> <p>Paging 453.975 - 454.425 MHz</p> <p>Trunked Mobile BTX 454.425 – 460 MHz</p>	<p>Paired with 460 - 463 MHz</p> <p>Paired with 464.425 - 470 MHz</p>
<p>455 - 456 MHz</p> <p>FIXED</p> <p>MOBILE 5.286AA</p> <p>5.209 5.271 5.286AA 5.286B 5.286C 5.286E</p>	<p>FIXED</p> <p>MOBILE 5.286AA</p> <p>NF15</p> <p>5.209 5.286AA</p>	<p>Trunked Mobile BTX 454.425 – 460 MHz</p>	<p>Paired with 464.425 - 470 MHz</p>
<p>456 - 459 MHz</p> <p>FIXED</p> <p>MOBILE 5.286AA</p> <p>5.271 5.287 5.288</p>	<p>FIXED</p> <p>MOBILE 5.286AA</p> <p>NF15</p> <p>5.287</p>	<p>Trunked Mobile BTX 454.425 – 460 MHz</p>	<p>Paired with 464.425 - 470 MHz</p>

459 – 862 MHz

ITU Region 1 Allocations	South African Allocations	Applications	Comments
459 - 460 MHz FIXED MOBILE 5.286AA 5.209 5.271 5.286AA 5.286B 5.286C 5.286E	FIXED MOBILE 5.286AA NF16 5.209 5.286AA	Trunked Mobile BTX 454.425 – 460 MHz	Paired with 464.425 - 470 MHz
460-470 MHz FIXED MOBILE Meteorological-Satellite (space-to-Earth) 5.287 5.288 5.289 5.290	FIXED MOBILE 5.286AA NF16 5.287 5.290	Fixed Links 460 – 463 MHz Single Frequency Mobile 463.025 - 463.975 MHz Low Power Mobile Radio 463.975 - 464.425 MHz Trunked Mobile MTX 464.425 – 470 MHz	Paired with 450 - 453 MHz Government Gazette No 26193, Notice 533 of 24 March 2004 refers. 464.375 - 464.425 MHz to be dedicated for control of hazardous equipment Paired with 454.425 - 460 MHz
470 - 790 MHz BROADCASTING 5.149 5.291A 5.294 5.296 5.300 5.302 5.304 5.306 5.311A 5.312	BROADCASTING NF16 RADIO ASTRONOMY NF2 5.149 5.304 5.311A	UHF Television Broadcasting 470 – 854 MHz Radio astronomy 608 - 614 MHz	Broadcasting Allotments in accordance with GE 89 plan in the process of conversion to GE 06

<p>790 - 852 MHz</p> <p>FIXED</p> <p>BROADCASTING</p> <p>MOBILE except aeronautical mobile</p> <p>5.312 5.314 5.315 5.316 5.319</p>	<p>FIXED (854-862 MHz)</p> <p>BROADCASTING 470- 854 MHz</p> <p>NF17</p> <p>5.316A</p>	<p>Fixed links 856 - 864.1 MHz</p> <p>UHF Television Broadcasting 470 – 854 MHz</p>	<p>Broadcasting Allotments in accordance with GE 89 plan in the process of conversion to GE 06</p>
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862 – 890 MHz

ITU Region 1 Allocation	South African	Application	Notes and
862-890 MHz FIXED	FIXED	Fixed Links 868.1 - 876 MHz	
MOBILE except aeronautical mobile 5.317A	MOBILE except aeronautical mobile	Wireless Audio systems 863 – 865 MHz	
		865 - 868 MHz RFID, Non Specific SRD and RFID 869.4 – 869.65 MHz	Government Gazette No 31127, Notice No 713 Of 2008 refers.
		Alarms 868.6 – 868.7 MHz, 869.25 – 869.3 MHz, 869.65 – 869.7 MHz	
	NF 18, NF 19, NF 20, NF 21	Mobile Wireless Access 824 - 849 MHz	Paired with 869 - 894 MHz
		E-GSM Cellular MTX 880 - 890 MHz	Paired with 925 -935 MHz
BROADCASTING 5.322 5.319 5.323			

PART D: 890 MHz - 1000 GHz

890 – 1 215 MHz

ITU Region 1 Allocations	South African Allocations	Applications	Comments
890 – 942 FIXED Mobile except Aeronautical Mobile 5.317A	FIXED Mobile except Aeronautical Mobile 5.317A	GSM Cellular MTX 890 - 915 MHz 915.1 - 915.2 MHz Real Time Location System 915.2 - 915.4 MHz Passive Tags 195.4 - 919 MHz Modulating RFID Systems (FHSS) 919. - 919.2 MHz Tag Backscatter Guard Band 919.2 - 921. MHz Non Modulating Backscatter RFID Systems	Paired with 925 - 935 MHz Government Gazette No 31 127, Notice No 713 Of 2008 refers. Government Gazette No 31 127, Notice No 713 Of 2008 refers. Government Gazette No 31 127, Notice No 713 Of 2008 refers. Government Gazette No 31 127, Notice No 713 Of 2008 refers.
BROADCASTING 5.322 Radiolocation 5.323	NF 18, NF 19, NF 20, NF 21		

942 – 960 FIXED MOBILE except aeronautical mobile 5.317A BROADCASTING 5.322 5.323	FIXED MOBILE except aeronautical mobile 5.317A NF 18, NF 19, NF 20, NF 21	GSM Cellular BTX 935 – 960 MHz	Paired with 890 - 915 MHz
960 - 1 164 AERONAUTICAL RADIONAVIGATION 5.328 AERONAUTICAL MOBILE (R) 5.4B06	AERONAUTICAL RADIONAVIGATION 5.328 AERONAUTICAL MOBILE (R) 5.4B06	Distance Measuring Equipment / Secondary Surveillance Radar	
1 164 - 1 215 AERONAUTICAL RADIONAVIGATION 5.328 RADIONAVIGATION- SATELLITE (space-to- Earth) (space-to-space) 5.328A 5.328B	AERONAUTICAL RADIONAVIGATION 5.328 RADIONAVIGATION- SATELLITE (space-to- Earth) (space-to-space) 5.328A 5.328B		Reserved for future GNSS Galileo GPS system (1164 – 1215 MHz)

1 215 – 1 429 MHz

ITU Region 1 Allocations	South African Allocations	Applications	Comments
1 215 - 1 240 EARTH EXPLORATION-SATELLITE (active) RADIOLOCATION RADIONAVIGATION-SATELLITE (space-to-Earth) (space-to-space) 5.329 5.329A 5.328B SPACE RESEARCH (active) 5.330 5.331 5.332	EARTH EXPLORATION-SATELLITE RADIOLOCATION RADIONAVIGATION-SATELLITE (space-to-Earth) (space-to-space) 5.329 5.329A 5.328B SPACE RESEARCH 5.331 5.332	GPS	1215 – 1260 MHz
1 240 - 1 300 EARTH EXPLORATION-SATELLITE (active) RADIOLOCATION RADIONAVIGATION-SATELLITE (space-to-Earth) (space-to-space) 5.328B 5.329 5.329A SPACE RESEARCH (active) Amateur 5.282 5.330 5.331 5.332 5.335.335A	EARTH EXPLORATION-SATELLITE RADIOLOCATION RADIONAVIGATION-SATELLITE (space-to-Earth) (space-to-space) 5.328B 5.329 5.329A SPACE RESEARCH Amateur 5.282 5.331 5.332 5.335A	Air Traffic Control Radar 1240 - 1350 MHz Global Positioning Systems L2 Amateur 1240 - 1300 MHz	1215 – 1260 MHz
1300 – 1350 AERONAUTICAL RADIONAVIGATION 5.337 RADIOLOCATION RADIONAVIGATION SATELLITE (Earth-to-space) 5.149 5.337A	AERONAUTICAL RADIONAVIGATION 5.337 RADIOLOCATION RADIONAVIGATION SATELLITE (Earth-to-space) 5.149 5.337A Radio astronomy NF2	Air Traffic Control Radar 1240 - 1350 MHz	

1300 - 1525 MHz

ITU Region 1 Allocations	South African Allocations	Applications	Comments
1 429-1 452 FIXED MOBILE except aeronautical mobile 5.341 5.342 5.338A	FIXED NF1 5.338A	Fixed links 1427 – 1452 MHz	Paired with 1375 - 1400 MHz. CEPT T/R 13-01 Annex B refers.
1 452-1 492 FIXED MOBILE except aeronautical mobile BROADCASTING 5.345 BROADCASTING- SATELLITE 5.345 5.347A 5.341 5.342	BROADCASTING 5.345 NF 22 BROADCASTING- SATELLITE 5.345 5.347A	Terrestrial Digital Audio Broadcasting (T-DAB) 1452 -1479.5 MHz Satellite Digital Audio Broadcasting (S-DAB) 1479.5 - 1492 MHz	
1 492-1 518 FIXED MOBILE except aeronautical mobile 5.341 5.342	FIXED NF1	Fixed Links 1492 – 1517 MHz Single Frequency Fixed Links 1517 – 1525 MHz	Paired with 1350 - 1375 MHz. CEPT T/R 13-01 Annex A refers. CEPT T/R 13-01 refers

<p>1 518-1 525</p> <p>FIXED</p> <p>MOBILE except aeronautical mobile</p> <p>MOBILE-SATELLITE (space-to-Earth)</p> <p>5.348 5.348A 5.348B</p> <p>5.351A 5.341 5.342</p>	<p>FIXED</p> <p>NF1</p>	<p>Single Frequency Fixed Links</p> <p>1517 – 1525 MHz</p>	<p>CEPT T/R 13-01 refers</p>
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1 525 – 1 610 MHz

ITU Region 1 Allocations	South African Allocations	Applications	Comments
1525-1530 SPACE OPERATION (space-to-Earth) FIXED MOBILE-SATELLITE (space-to-Earth) 5.347A 5.351A Earth exploration-satellite Mobile except aeronautical mobile 5.349 5.341 5.342 5.350 5.351 5.352A 5.354	SPACE OPERATION (space-to-Earth) FIXED MOBILE-SATELLITE (space-to-Earth) 5.347A 5.351A Earth exploration-satellite Mobile except aeronautical mobile 5.351 5.354	Mobile satellite (Inmarsat) 1525 – 1559 MHz	Paired with 1626.5 – 1660.5 MHz
1 530-1535 SPACE OPERATION (space-to-Earth) MOBILE-SATELLITE (space-to-Earth) 5.347A 5.351A 5.353A Earth exploration-satellite Fixed Mobile except aeronautical mobile 5.341 5.342 5.351 5.354	SPACE OPERATION (space-to-Earth) MOBILE-SATELLITE (space-to-Earth) 5.347A 5.351A 5.353A Earth exploration-satellite Fixed Mobile except aeronautical mobile 5.351 5.354	Mobile satellite (Inmarsat) 1525 – 1559 MHz	Paired with 1626.5 – 1660.5 MHz

<p>1535-1559</p> <p>MOBILE-SATELLITE (space-to-Earth)</p> <p>5.347A 5.351A</p> <p>5.341 5.351 5.353A 5.354 5.355 5.356 5.357 5.357A 5.359 5.362A</p>	<p>MOBILE-SATELLITE (space-to-Earth)</p> <p>5.347A 5.351A</p> <p>5.351 5.353A 5.354 5.356 5.357 5.357A</p>	<p>Mobile satellite (Inmarsat)</p> <p>1525 – 1559 MHz</p> <p>Cospas-Sarsat</p> <p>1544 – 1545 MHz</p>	<p>Paired with 1626.5 – 1660.5 MHz</p> <p>International use for safety of life applications.</p> <p>Paired with 1626.5 – 1660.5 MHz</p>
<p>1559-1610</p> <p>AERONAUTICAL- RADIONAVIGATION</p> <p>RADIONAVIGATION- SATELLITE (space-to- Earth) (space-to-space)</p> <p>5.328B 5.329A 5.347A 5.341 5.362B 5.362C 5.363</p>	<p>AERONAUTICAL- RADIONAVIGATION</p> <p>RADIONAVIGATION- SATELLITE (space-to- Earth) (space-to-space)</p> <p>5.328B 5.329A 5.347A</p>	<p>AERONAUTICAL (R) 1545-1555 MHz</p> <p>GPS</p>	<p>Paired with 1646.5- 1656.5 MHz</p> <p>No change for GPS in 1559 - 1610 MHz</p>

1610 - 1660 MHz

ITU Region 1 Allocations	South African Allocations	Applications	Comments
<p>1610-1610.6</p> <p>MOBILE-SATELLITE (Earth-to-space)</p> <p>5.351A</p> <p>AERONAUTICAL- RADIONAVIGATION</p> <p>5.341 5.355 5.359 5.363 5.364 5.366 5.367 5.368 5.369 5.371 5.372</p>	<p>MOBILE-SATELLITE (Earth-to-space)</p> <p>5.351A 5.364 5.365 5.368 5.372</p>	<p>MSS 1610 - 1626.5 MHz</p>	<p>Paired with 2483.5 - 2500 MHz for some systems.</p>
<p>1610.6-1613.8</p> <p>MOBILE-SATELLITE (Earth-to-space)</p> <p>5.351A</p> <p>RADIO ASTRONOMY</p> <p>AERONAUTICAL- RADIONAVIGATION</p> <p>5.149 5.341 5.355 5.359 5.363 5.364 5.366 5.367 5.368 5.369 5.371 5.372</p>	<p>MOBILE-SATELLITE (Earth-to-space)</p> <p>5.351A 5.364 5.365 5.368 5.372</p> <p>RADIO ASTRONOMY 5.149</p> <p>NF2</p>	<p>MSS 1610 - 1626.5 MHz</p>	<p>Paired with 2483.5 - 2500 MHz for some systems</p>

<p>1613.8-1626.5</p> <p>MOBILE-SATELLITE (Earth-to-space)</p> <p>5.351A</p> <p>AERONAUTICAL- RADIONAVIGATION</p> <p>Mobile-satellite (space- to-Earth)</p> <p>5.347A</p> <p>5.341 5.355 5.359 5.363 5.364 5.365 5.366 5.367 5.368 5.369 5.371 5.372</p>	<p>MOBILE-SATELLITE (Earth-to-space)</p> <p>5.351A 5.364 5.365 5.368 5.372</p>	<p>MSS 1610 - 1626.5 MHz</p>	<p>Paired with 2483.5 - 2500 MHz for some systems</p>
<p>1626.5-1660</p> <p>MOBILE-SATELLITE (Earth-to-space)</p> <p>5.351A</p> <p>5.341 5.351 5.353A 5.354 5.355 5.357A 5.359 5.362A 5.374 5.375 5.376</p>	<p>MOBILE-SATELLITE (Earth-to-space)</p> <p>5.351A 5.364 5.365 5.368 5.372</p> <p>5.351 5.353A 5.354 5.357A 5.375</p>	<p>MARITIME 1626.5-1645.5 MHz</p> <p>MOBILE 1645.5-1646.5 MHz</p> <p>AERONAUTICAL (R) 1646.5-1656.5 MHz</p> <p>LAND MOBILE SERVICES 1656.5- 1660.5 MHz</p>	<p>GMDSS</p> <p>Paired with 1545 - 1555 MHz</p>

1660 - 1710 MHz

ITU Region 1 Allocations	South African Allocations	Applications	Comments
1660 - 1660.5 MOBILE-SATELLITE (Earth-to-space) 5.351A RADIO ASTRONOMY 5.149 5.341 5.351 5.354 5.362A 5.376A	MOBILE-SATELLITE (Earth-to-space) 5.351A 5.364 5.365 5.368 5.372 RADIO ASTRONOMY 5.149 5.354 5.376A	LAND MOBILE 1656.5- 1660.5 MHz	
1 660.5 - 1 668 RADIO ASTRONOMY SPACE RESEARCH (passive) Fixed Mobile except aeronautical mobile 5.149 5.341 5.379 5.379A	RADIO ASTRONOMY NF2 SPACE RESEARCH (passive) 5.149 5.341 5.379A		
1 668 - 1 668.4 MOBILE-SATELLITE (Earth-to-space) 56.351A 5.379B 5.379C RADIO ASTRONOMY SPACE RESEARCH (passive) Fixed Mobile except aeronautical mobile 5.149 5.341 5.379 5.379A 5.379D	RADIO ASTRONOMY NF2 SPACE RESEARCH (passive)		

<p>1690 – 1700</p> <p>METEOROLOGICAL AIDS</p> <p>METEOROLOGICAL-SATELLITE (space-to-Earth)</p> <p>Fixed</p> <p>Mobile except aeronautical mobile</p> <p>5.289 5.341 5.382</p>	<p>METEOROLOGICAL AIDS</p> <p>METEOROLOGICAL-SATELLITE (space-to-Earth)</p> <p>5.289 5.341</p>	<p>Radiosondes 1668-1700MHz</p>	<p>Channels 1695.6938; 1695.7250; 1695.7562; 1695.7874; 1691; 1694.5MHz</p>
<p>1700 – 1710</p> <p>FIXED</p> <p>METEOROLOGICAL-SATELLITE (space-to-Earth)</p> <p>MOBILE except aeronautical mobile</p> <p>5.289 5.341</p>	<p>METEOROLOGICAL-SATELLITE (space-to-Earth)</p> <p>5.289 5.341</p>		

1930 – 1970 FIXED MOBILE 5.388 5.388A 5.388B	FIXED NF1 MOBILE 5.388 5.388A NF26	Terrestrial component of UMTS/IMT-2000 1920 – 1980 MHz (FDD)	Paired with 2110 – 2170 MHz
1970 – 1980 FIXED MOBILE 5.388 5.388A 5.388B	FIXED NF1 MOBILE 5.388 5.388A NF26	Terrestrial component of UMTS/IMT 1920 – 1980 MHz (FDD)	Paired with 2110 – 2170 MHz.
1980 – 2010 FIXED MOBILE MOBILE-SATELLITE (Earth-to-space) 5.351A 5.388 5.389A 5.389B 5.389F	FIXED NF1 - MOBILE-SATELLITE (Earth-to-space) 5.351A NF26 5.388 5.389A	Fixed links 1980 - 2010 MHz Satellite component of UMTS/IMT	Paired with 2170 - 2200 MHz Use of this band for FS in line with USA FCC determination Band also to be used for GMPCS systems
2010 – 2025 FIXED MOBILE 5.388 5.388A 5.388B	FIXED NF1 MOBILE 5.388 5.388A	Terrestrial component of UMTS/IMT-2000	3 x 5 MHz TDD

<p>2025 – 2110</p> <p>FIXED</p> <p>SPACE OPERATION (Earth-to-space) (space-to-space)</p> <p>EARTH EXPLORATION-SATELLITE (Earth-to-space) (space-to-space)</p> <p>MOBILE 5.391</p> <p>SPACE RESEARCH (Earth-to-space) (space-to-space)</p> <p>5.392</p>	<p>FIXED NF1</p> <p>NF27</p>	<p>Fixed Links 2025 - 2110 MHz</p>	<p>Paired with 2200 - 2285 MHz. ITU-R F.1098 and CEPT T/R 13-01 Annex C refers</p>
<p>2110 – 2120</p> <p>FIXED</p> <p>MOBILE 5.388A 5.388B</p> <p>SPACE RESEARCH (deep space) (Earth-to-space)</p> <p>5.388</p>	<p>FIXED NF1</p> <p>MOBILE 5.388A</p> <p>NF27</p> <p>5.388</p>	<p>2110 – 2170 MHz (FDD)</p>	<p>Terrestrial component of UMTS/IMT-2000</p>
<p>2120 – 2160</p> <p>FIXED</p> <p>MOBILE 5.388A</p> <p>5.388 5.388 B</p>	<p>FIXED NF1</p> <p>MOBILE</p> <p>NF27</p> <p>5.388A</p> <p>5.388</p>	<p>2110 – 2170 MHz (FDD)</p>	<p>Terrestrial component of UMTS/IMT-2000</p>
<p>2160 – 2170</p> <p>FIXED</p> <p>MOBILE 5.388A 5.388B</p> <p>5.388</p>	<p>FIXED NF1</p> <p>MOBILE NF28</p> <p>5.388A</p> <p>5.388</p>	<p>2110 – 2170 MHz (FDD)</p>	<p>Terrestrial component of UMTS/IMT-2000</p>

2170 - 2520 MHz

ITU Region 1 Allocations	South African Allocations	Applications	Comments
2170 – 2200 FIXED MOBILE MOBILE-SATELLITE (space-to-Earth) 5.351A 5.388 5.389A 5.389F 5.392A	FIXED NF1 MOBILE-SATELLITE (space-to-Earth) 5.351A NF27 5.388 5.389A	PTP Backhaul 2170 - 2200 MHz Satellite component of UMTS/IMT	Use of this band for FS in line with USA FCC determination Paired with 1980 – 2010 MHz Band also to be used for GMPCS systems
2200 – 2290 FIXED SPACE OPERATION (space-to-Earth) (space-to-space) EARTH EXPLORATION-SATELLITE (space-to-Earth) (space-to-space) MOBILE 5.391 SPACE RESEARCH (space-to-Earth) (space-to-space)	FIXED NF1 NF27	PTP Backhaul 2200 – 2285 MHz WAS 2285 – 2290 MHz	Paired with 2025 - 2110 ₁ ITU-R F.1098 and CEPT T/R 13-01 Annex C refer
2290 – 2300 FIXED MOBILE except aeronautical mobile SPACE RESEARCH (deep space) (space-to-Earth)	FIXED NF1	PTP Backhaul	

<p>2300 – 2450</p> <p>FIXED</p>	<p>FIXED NF1</p>	<p>Fixed links (PTMP and PTP)</p> <p>2307 - 2387 MHz</p> <p>OB links</p> <p>2377 MHz and 2471 MHz</p> <p>2321 MHz, 2349 MHz, 2415 MHz and 2443 MHz</p> <p>WLAN</p> <p>2400 – 2483.5 MHz</p> <p>Non-specific SRD's and low power video surveillance</p> <p>2400 – 2483.5 MHz</p>	<p>Paired with 2401 – 2481 MHz</p> <p>28 MHz OB links. Frequency co-ordination with fixed links on a case-by-case basis is mandatory for all OB links.</p> <p>Primary basis:</p> <p>Secondary basis:</p> <p>Government Gazette No. 31127, Notice No. 713 of 2008</p> <p>Government Gazette No. 31127, Notice No. 713 of 2008</p>
<p>MOBILE</p> <p>Amateur Radiolocation</p> <p>5.150 5.282 5.384A 5.395</p>	<p>Mobile</p> <p>NF28</p> <p>5.150 5.384A</p>	<p>ISM</p>	<p>International ISM band for Industrial, scientific and medical equipment (5.150 refers).</p>

<p>2450 – 2483.5 FIXED</p>	<p>FIXED NF1</p>	<p>Fixed links (PTMP and PTP) 2307 - 2387 MHz OB links 2377 MHz and 2471 MHz 2321 MHz, 2349 MHz, 2415 MHz and 2443 MHz 2400 – 2483.5 MHz RFID 2400 – 2483.5 MHz</p>	<p>Paired with 2401 – 2481 MHz 28 MHz OB links. Frequency co-ordination with fixed links on a case-by-case basis is mandatory for all OB links. Primary basis: Secondary basis: Government Gazette No. 31127, Notice No. 713 of 2008 International ISM band for industrial, scientific and medical equipment (5.150 refers)</p>
<p>MOBILE Radiolocation 5.150 5.397</p>	<p>Mobile NF29 5.150 5.384A</p>		

<p>2483.5 – 2500</p> <p>FIXED</p> <p>MOBILE</p> <p>MOBILE-SATELLITE (space-to Earth) 5.351A</p> <p>Radiolocation</p> <p>5.150 5.371 5.397 5.398 5.399 5.400 5.402</p>	<p>FIXED NF1</p> <p>MOBILE</p> <p>MOBILE-SATELLITE (space-to-Earth) 5.351A</p> <p>NF 29</p> <p>5.150 5.402</p>	<p>Fixed video link channels</p> <p>ISM 2400 – 2500 MHz</p> <p>Aeronautical Mobile Video surveillance</p> <p>MSS</p>	<p>Forest Fire Detection Video Service 2483, 2490 & 2497 MHz</p> <p>International ISM band for industrial, scientific and medical equipment (5.150 refers)</p> <p>Unmanned Aerial Vehicles only.</p> <p>Some systems are paired with 1610 - 1626.5 MHz).</p>
<p>2500 – 2520</p> <p>FIXED 5.410</p> <p>MOBILE except aeronautical mobile 5.384A</p> <p>MOBILE-SATELLITE (space-to-Earth)</p> <p>5.405 5.412</p>	<p>FIXED NF1</p> <p>NF30</p>	<p>Broadband WAS (TDD).</p>	<p>2500 – 2520 MHz</p> <p>Potential future use: satellite component for UMTS/IMT-2000</p>

2520 - 2700 MHz

ITU Region 1 Allocations	South African Allocations	Applications	Comments
2520 – 2655 FIXED 5.410 MOBILE except aeronautical mobile 5.384A BROADCASTING-SATELLITE 5.413 5.416 5.339 5.405 5.412 5.417C 5.417D 5.418B 5.418C	FIXED NF1 NF30	Broadband WAS (TDD).	2520 – 2655 MHz Potential future use: satellite component for UMTS/IMT-2000
2655 – 2670 FIXED 5.409 5.410 5.411 MOBILE except aeronautical mobile 5.384A BROADCASTING-SATELLITE 5.413 5.416 Earth exploration-satellite (passive) Radio astronomy Space research (passive) 5.149 5.412 5.420	FIXED NF1 NF30 Radio astronomy NF 2 5.149	Broadband WAS (TDD).	2655 – 2670 MHz Potential future use: terrestrial component for UMTS/IMT-2000

<p>2670 – 2690</p> <p>FIXED 5.409 5.410 5.411</p> <p>MOBILE except aeronautical mobile 5.384A</p> <p>MOBILE-SATELLITE (Earth-to-space) 5.351</p> <p>Earth exploration-satellite (passive)</p> <p>Radio astronomy</p> <p>Space research (passive)</p> <p>5.149 5.412 5.419 5.420</p>	<p>FIXED NF1</p> <p>NF30</p> <p>Radio astronomy NF 2</p> <p>5.149</p>	<p>Broadband WAS (TDD).</p>	<p>2670 – 2690 MHz</p> <p>Potential future use: terrestrial component for UMTS/IMT-2000 2520 – 2690 MHz</p>
<p>2690 – 2700</p> <p>EARTH EXPLORATION- SATELLITE (passive)</p> <p>RADIO ASTRONOMY</p> <p>SPACE RESEARCH (passive)</p> <p>5.340 5.422</p>	<p>RADIO ASTRONOMY NF 2</p> <p>NF 30</p> <p>SPACE RESEARCH (passive)</p> <p>5.340</p>	<p>Passive Sensing</p>	<p>Protected</p>

2700 - 4800 MHz

ITU Region 1 Allocations	South African Allocations	Applications	Comments
2700 – 2900 AERONAUTICAL RADIONAVIGATION 5.337 Radiolocation 5.424	AERONAUTICAL RADIONAVIGATION 5.337 Radiolocation 5.423		2700 – 3000 MHz
2900 – 3100 RADIONAVIGATION 5.426 RADIOLOCATION 5.425 5.424A 5.427	RADIONAVIGATION 5.426 RADIOLOCATION 5.425 5.424A 5.427		2700 – 3000 MHz
3100 – 3300 RADIOLOCATION Earth exploration-satellite (active) Space research (active) 5.149 5.428	RADIOLOCATION Earth exploration-satellite (active) Space research (active) 5.149		GOVERNMENT RADIOLOCATION
3300 – 3400 RADIOLOCATION 5.149 5.429 5.430	RADIOLOCATION		GOVERNMENT RADIOLOCATION
3400 – 3600 FIXED FIXED-SATELLITE (space-to-Earth) Mobile 5.430A Radiolocation 5.431	FIXED NF1 NF31	Wireless Access Services	FDD segmentation
3600 – 4200 FIXED FIXED-SATELLITE (space-to-Earth) Mobile	FIXED NF1 FIXED-SATELLITE (space-to-Earth) NF31, NF 32	PTP Links VSAT/SNG/Satellite PTP links	Sharing with FSS Known as C-band - Sharing with FS

4200 – 4400 AERONAUTICAL- RADIONAVIGATION 5.438 5.439 5.440	AERONAUTICAL RADIONAVIGATION 5.438		RADIO ALTIMETERS
4400 – 4500 FIXED MOBILE 5.4B01	FIXED NF1 NF33	OB/ENG GOVERNMENT UTILIZATION	Broadcasting Mainly National Security Services
4500 – 4800 FIXED FIXED-SATELLITE (space-to-Earth) 5.441 MOBILE 5.4B01	FIXED NF1 NF33	OB/ENG GOVERNMENT UTILIZATION	Broadcasting Mainly National Security Services

4800 - 5570 MHz

ITU Region 1 Allocations	South African Allocations	Applications	Comments
4800 – 4990 FIXED MOBILE 5.442 5.4801 Radio Astronomy 5.149 5.339 5.443	FIXED NF1 Radio Astronomy NF2 NF33 5.149 5.339	OB/ENG GOVERNMENT UTILIZATION Radio Astronomy (4825 – 4835 & 4950 – 4990 MHz)	Broadcasting Mainly National Security Services
4990 – 5000 FIXED MOBILE except aeronautical mobile RADIO ASTRONOMY Space Research (passive) 5.149	FIXED NF1 RADIO ASTRONOMY NF2 NF33 5.149	GOVERNMENT UTILIZATION RADIO ASTRONOMY (4990 - 5000 MHz)	Mainly National Security Services
5000 – 5010 AERONAUTICAL RADIONAVIGATION RADIONAVIGATION- SATELLITE (Earth-to- space) 5.367	AERONAUTICAL RADIONAVIGATION RADIONAVIGATION- SATELLITE (Earth-to- space) 5.367		
5010 – 5030 AERONAUTICAL RADIONAVIGATION RADIONAVIGATION- SATELLITE (space-to- Earth) (space-to-space) 5.443B 5.5328B 5.367	AERONAUTICAL RADIONAVIGATION RADIONAVIGATION- SATELLITE (space-to- Earth) (space-to-space) 5.443B 5.367 5.5328B		

5030 – 5091 AERONAUTICAL RADIONAVIGATION 5.367 5.444	AERONAUTICAL RADIONAVIGATION 5.367 5.444	MICROWAVE LANDING SYSTEMS (5030-5091 MHz) NGSO MSS feeder links (5091 - 5150 MHz)	FSS operates in this band through footnote
5091 – 5150 AERONAUTICAL RADIONAVIGATION AERONAUTICAL MOBILE 5.4B03 5.367 5.444 5.444A	AERONAUTICAL RADIONAVIGATION AERONAUTICAL MOBILE 5.4B03 5.367 5.444		
5150 – 5250 AERONAUTICAL RADIONAVIGATION FIXED-SATELLITE SERVICE (Earth-to-space) 5.447A MOBILE except Aeronautical mobile 5.446A 5.446B 5.446 5.447 5.447B 5.447C 5.4B04	AERONAUTICAL RADIONAVIGATION FIXED-SATELLITE SERVICE (Earth-to-space) 5.447A MOBILE except Aeronautical mobile 5.446A 5.446B 5.447B 5.447C Fixed NF1	NGSO MSS feeder links	WAS/RLAN's. Indoors only (200mW EIRP) Dynamic Frequency Selection (DFS) & Transmitter Power Control (TPC) Modulation Schemes obligatory

<p>5250 – 5255</p> <p>EARTH EXPLORATION-SATELLITE (active)</p> <p>RADIOLOCATION</p> <p>SPACE RESEARCH 5.447D</p> <p>MOBILE except Aeronautical mobile 5.446A 5.447E 5.447F</p> <p>5.448 5.448A</p>	<p>SPACE RESEARCH 5.447D</p> <p>MOBILE except Aeronautical mobile 5.466 5.446A 5.447F</p> <p>5.448A</p> <p>Fixed NF1</p>		<p>WAS/RLAN's. Indoors only (200mW EIRP) Dynamic Frequency Selection (DFS) & Transmitter Power Control (TPC) Modulation Schemes obligatory</p>
<p>5255 – 5350</p> <p>EARTH EXPLORATION-SATELLITE (active)</p> <p>RADIOLOCATION</p> <p>MOBILE except Aeronautical mobile 5.446A 5.447F</p> <p>SPACE RESEARCH (active) 5.447E 5.448 5.448A</p>	<p>EARTH EXPLORATION-SATELLITE (active)</p> <p>RADIOLOCATION</p> <p>MOBILE except Aeronautical mobile 5.446A 5.447F</p> <p>SPACE RESEARCH (active) 5.448 5.448A</p> <p>Fixed NF1</p>		<p>WAS/RLAN's. Indoors only (200mW EIRP) Dynamic Frequency Selection (DFS) & Transmitter Power Control (TPC) Modulation Schemes obligatory</p>

<p>5350 – 5460</p> <p>EARTH EXPLORATION-SATELLITE (active) 5.448B</p> <p>AERONAUTICAL-RADIONAVIGATION 5.449</p> <p>RADIOLOCATION 5.448D</p> <p>SPACE RESEARCH (active) 5.448C</p>	<p>EARTH EXPLORATION-SATELLITE (active) 5.448B</p> <p>AERONAUTICAL-RADIONAVIGATION 5.449</p> <p>RADIOLOCATION 5.448D</p> <p>SPACE RESEARCH (active) 5.448C</p>		
<p>5460 – 5470</p> <p>RADIONAVIGATION 5.449</p> <p>EARTH EXPLORATION-SATELLITE (active)</p> <p>SPACE RESEARCH (active)</p> <p>RADIOLOCATION 5.448D 5.448B</p>	<p>RADIONAVIGATION 5.449</p> <p>EARTH EXPLORATION-SATELLITE (active)</p> <p>SPACE RESEARCH (active)</p> <p>RADIOLOCATION 5.448D 5.448B</p>		
<p>5470 – 5570</p> <p>MARITIME RADIONAVIGATION</p> <p>MOBILE except aeronautical mobile 5.446A 5.450A</p> <p>EARTH EXPLORATION-SATELLITE (active)</p> <p>SPACE RESEARCH (active)</p> <p>RADIOLOCATION ADD 5.450B 5.450 5.451 5.452 5.448B</p>	<p>MARITIME RADIONAVIGATION</p> <p>MOBILE except aeronautical mobile 5.446A 5.450A</p> <p>EARTH EXPLORATION-SATELLITE (active)</p> <p>SPACE RESEARCH (active)</p> <p>RADIOLOCATION 5.450B 5.452 5.448B</p> <p>Fixed NF1</p>	<p>Maritime Radionavigation and Location (Radar)</p>	<p>WAS/RLAN's with conditions. Refer to SRD Gazette.</p>

5570 - 7250 MHz

ITU Region 1 Allocations	South African Allocations	Applications	Comments
5570 – 5650 MARITIME-RADIONAVIGATION MOBILE except aeronautical mobile 5.446A 5.450A RADIOLOCATION 5.450B 5.450 5.451 5.452	MARITIME-RADIONAVIGATION RADIOLOCATION 5.450B 5.452 Fixed NF1	Maritime Radionavigation and Location (Radar) Ground-based meteorological radars 5600 – 5650 MHz	WAS/RLAN's with conditions. Refer to SRD Gazette.
5650 – 5725 RADIOLOCATION MOBILE except aeronautical mobile 5.446A 5.450A Amateur Space Research (deep space) 5.282 5.451 5.453 5.454 5.455	RADIOLOCATION MOBILE except aeronautical mobile 5.446A 5.450A Amateur Space Research (deep space) 5.282 5.455 Fixed NF1		WAS/RLAN's with conditions. Refer to SRD Gazette.
5725 – 5830 FIXED-SATELLITE (Earth-to-space) RADIOLOCATION Amateur 5.150 5.451 5.453 5.455 5.456	FIXED-SATELLITE (Earth-to-space) RADIOLOCATION Amateur NF34 5.150 Fixed NF1	ISM (5725 - 5875 MHz) PTP/PTMP wireless LAN	TICS 5805 - 5815MHz (future) WLAN see conditions

5830 – 5850 FIXED-SATELLITE (Earth-to-space) RADIOLOCATION Amateur Amateur-satellite (space- to-Earth) 5.150 5.451 5.453 5.455 5.456	FIXED-SATELLITE (Earth-to-space) RADIOLOCATION Amateur Amateur-satellite (space- to-Earth) 5.150 5.451 NF34 Fixed NF1	ISM (5725 - 5875 MHz) PTP/PTMP wireless LAN	WLAN see conditions
5850 – 5925 FIXED FIXED-SATELLITE (Earth-to-space) MOBILE 5.150	FIXED NF1 FIXED-SATELLITE (Earth-to-space) NF 34, NF35, NF36 Mobile 5.150	PTP links/OB ENG VSAT/SNG/Satellite PTP links ISM (5725 - 5875 MHz) PTP/PTMP wireless LAN	WLAN see conditions
5925 – 6700 FIXED FIXED-SATELLITE (Earth-to-space) 5.457A 5.457B MOBILE 5.149 5.440 5.458	FIXED NF1 FIXED-SATELLITE (Earth-to-space) 5.457A NF 34, NF35, NF36	PTP links VSAT/SNG/FSS feeder links	
6700 – 7075 FIXED FIXED-SATELLITE (Earth-to-space) (space- to-Earth) 5.441 MOBILE 5.458 5.458A 5.458B 5.458C	FIXED NF1 FIXED-SATELLITE (Earth-to-space) (space- to-Earth) 5.441 NF38	PTP links S-DAB feeder links (uplinks) NGSO MSS feeder links (downlinks)	

7075 – 7145 FIXED MOBILE 5.458 5.459	FIXED NF1 NF38	PTP links OB ENG links	
7145 – 7235 FIXED MOBILE SPACE RESEARCH (Earth-to-space) 5.460 5.458 5.459	FIXED NF1 NF38 SPACE RESEARCH (Earth-to-space) 5.460	PTP links OB ENG links	
7235 – 7250 FIXED MOBILE 5.458	FIXED NF1 NF38	PTP links OB ENG links	

7250 - 8500 MHz

ITU Region 1 Allocations	South African Allocations	Applications	Comments
7 250-7 300 FIXED FIXED-SATELLITE (space-to-Earth) MOBILE 5.461	FIXED NF1 NF38 FIXED-SATELLITE (space-to-Earth)	PTP links OB ENG links	
7300-7450 FIXED FIXED-SATELLITE (space-to-Earth) MOBILE except aeronautical mobile 5.461	FIXED NF1 NF38 NF39, NF40 FIXED-SATELLITE (space-to-Earth)	PTP links OB ENG links	
7450 – 7550 FIXED FIXED-SATELLITE (space-to-Earth) METEOROLOGICAL-SATELLITE (space-to-Earth) MOBILE except aeronautical mobile 5.461A	FIXED NF1 NF40 FIXED-SATELLITE (space-to-Earth) METEOROLOGICAL-SATELLITE (space-to-Earth) 5.461A	PTP links OB ENG links Downlink of medium raw data from GSO MetSat to main earth station	
7550 – 7750 FIXED FIXED-SATELLITE (space-to-Earth) MOBILE except aeronautical mobile	FIXED NF1 NF40 FIXED-SATELLITE (space-to-Earth)	PTP links OB ENG links	

<p>7750 – 7850</p> <p>FIXED</p> <p>METEOROLOGICAL-SATELLITE (space-to-Earth) 5.461B</p> <p>MOBILE except aeronautical mobile</p>	<p>FIXED NF1</p> <p>NF41</p> <p>METEOROLOGICAL-SATELLITE (space-to-Earth) 5.461B</p>	<p>PTP links</p> <p>Downlink of raw data from NGSO MetSat to main earth station and dissemination</p>	
<p>7850 – 7900</p> <p>FIXED</p> <p>MOBILE except aeronautical mobile</p>	<p>FIXED NF1</p> <p>NF41</p>	<p>PTP links</p>	
<p>7900 – 8025</p> <p>FIXED</p> <p>FIXED-SATELLITE (Earth-to-space)</p> <p>MOBILE</p> <p>5.461</p>	<p>FIXED NF1</p> <p>NF41</p> <p>FIXED-SATELLITE (Earth-to-space)</p>	<p>PTP links</p>	
<p>8025 – 8175</p> <p>EARTH EXPLORATION-SATELLITE (space-to-Earth) 5.462A</p> <p>FIXED</p> <p>FIXED-SATELLITE (Earth-to-space)</p> <p>MOBILE 5.463</p>	<p>EARTH EXPLORATION-SATELLITE (space-to-Earth) 5.462A</p> <p>FIXED NF1</p> <p>NF41</p> <p>FIXED-SATELLITE (Earth-to-space)</p>	<p>PTP links</p>	

<p>8175 – 8215</p> <p>EARTH EXPLORATION-SATELLITE (space-to-Earth) 5.462A</p> <p>FIXED</p> <p>FIXED-SATELLITE (Earth-to-space)</p> <p>METEOROLOGICAL-SATELLITE (Earth-to-space)</p> <p>MOBILE 5.463</p>	<p>EARTH EXPLORATION-SATELLITE (space-to-Earth) 5.462A</p> <p>FIXED NF1</p> <p>NF41</p> <p>METEOROLOGICAL-SATELLITE (Earth-to-space)</p>	<p>PTP links</p> <p>Downlink of sensor data from GSO and NGSO MetSat to main Earth station</p>	
<p>8215 – 8400</p> <p>EARTH EXPLORATION-SATELLITE (space-to-Earth) 5.462A</p> <p>FIXED</p> <p>FIXED-SATELLITE (Earth-to-space)</p> <p>MOBILE 5.463</p>	<p>EARTH EXPLORATION-SATELLITE (space-to-Earth) 5.462A</p> <p>FIXED NF1</p> <p>NF41, NF42</p> <p>FIXED-SATELLITE (Earth-to-space)</p>	<p>PTP links</p>	
<p>8400 – 8500</p> <p>FIXED</p> <p>MOBILE except aeronautical mobile</p> <p>SPACE RESEARCH (space-to-Earth) 5.465 5.466</p>	<p>FIXED NF1</p> <p>NF2</p> <p>SPACE RESEARCH (space-to-Earth) 5.465</p>	<p>PTP links</p>	

8500 - 10 000 MHz

ITU Region 1 Allocations	South African Allocations	Applications	Comments
8500 – 8550 RADIOLOCATION 5.468 5.469	RADIOLOCATION		
8550 – 8650 EARTH EXPLORATION-SATELLITE (active) RADIOLOCATION SPACE RESEARCH (active) 5.468 5.469 5.469A	EARTH EXPLORATION-SATELLITE (active) RADIOLOCATION SPACE RESEARCH (active) 5.469A		
8650 – 8750 RADIOLOCATION 5.468 5.469	RADIOLOCATION		
8750 – 8850 RADIOLOCATION AERONAUTICAL RADIONAVIGATION 5.470 5.471	RADIOLOCATION AERONAUTICAL RADIONAVIGATION 5.470		
8850 – 9000 RADIOLOCATION MARITIME RADIONAVIGATION 5.472 5.473	RADIOLOCATION MARITIME RADIONAVIGATION 5.472		
9000 – 9200 AERONAUTICAL-RADIONAVIGATION 5.337 RADIOLOCATION 5.471 5.475A	AERONAUTICAL-RADIONAVIGATION 5.337 RADIOLOCATION 5.475A	APPROACH RADARS	

9800 – 9900 RADIOLOCATION Earth exploration-satellite (Active) Space research (Active) Fixed 5.477 5.478 5.478A 5.478B	RADIOLOCATION Earth exploration-satellite (Active) Space research (Active) Fixed NF1 5.478A 5.478B	MOVEMENT DETECTION (Low Power) FDDA 9200 – 9975 MHz	 Latest Government Gazette on SRD's refers
9900 – 10000 RADIOLOCATION Fixed 5.477 5.478 5.479	RADIOLOCATION Fixed NF1 5.479		

10.0 – 11.7 GHz

ITU Region 1 Allocations	South African Allocations	Applications	Comments
10.00 – 10.45 FIXED MOBILE RADIOLOCATION Amateur 5.479, 5.482	FIXED NF1 RADIOLOCATION	Low Power Video PTP/PTMP 10.15 – 10.3 GHz Motion Sensors	10.0 – 10.15 GHz Paired with 10.5 – 10.65 GHz
10.45 – 10.50 RADIOLOCATION Amateur Amateur-Satellite 5.481	RADIOLOCATION	Motion Sensors	
10.50 – 10.55 FIXED MOBILE Radiolocation	FIXED NF1 Radiolocation	PTP/PTMP 10.5 – 10.65 GHz Motion Sensors	Paired with 10.15 – 10.3 GHz
10.55 – 10.60 FIXED MOBILE except aeronautical mobile Radiolocation	FIXED NF1 Radiolocation	PTP/PTMP 10.5 – 10.65 GHz Motion Sensors	Paired with 10.15 – 10.3 GHz

<p>10.60 – 10.68 EARTH EXPLORATION-SATELLITE (passive) FIXED MOBILE except aeronautical mobile RADIO ASTRONOMY SPACE RESEARCH (passive) Radiolocation 5.149 5.482 5.BA01</p>	<p>EARTH EXPLORATION-SATELLITE (passive) FIXED NF1 RADIO ASTRONOMY NF2 SPACE RESEARCH (passive) Radiolocation 5.149 5.BA01</p>	<p>PTP/PTMP 10.5 – 10.65 GHz Motion Sensors</p>	<p>Paired with 10.15 – 10.3 GHz</p>
<p>10.68 – 10.7 EARTH EXPLORATION-SATELLITE (passive) RADIO ASTRONOMY SPACE RESEARCH (passive) 5.340 5.483</p>	<p>EARTH EXPLORATION-SATELLITE (passive) RADIO ASTRONOMY NF2 SPACE RESEARCH (passive) 5.34</p>	<p>Passive Sensing</p>	
<p>10.7 – 11.7 FIXED FIXED-SATELLITE (space-to-Earth) 5.441 5.484A (Earth-to-space) 5.484 MOBILE except aeronautical mobile</p>	<p>FIXED NF1 NF 43 FIXED-SATELLITE (space-to-Earth) 5.441 5.484A (Earth-to-space) 5.484</p>	<p>PTP links VSAT/SNG/DTH (secondary) / BSS feeder links</p>	<p>Sharing with BSS Government Gazette No. 19343, dated 09 October 1998</p>

11.70 - 14 GHz

ITU Region 1 Allocations	South African Allocations	Applications	Comments
11.70 – 12.50 FIXED BROADCASTING BROADCASTING-SATELLITE MOBILE except aeronautical mobile 5.487 5.487A 5.492	FIXED NF1 BROADCASTING BROADCASTING-SATELLITE 5.487 5.487A 5.492	ENG/OB BSS feeder links	
12.5 – 12.75 FIXED-SATELLITE (space-to-Earth) S484A (Earth-to-space) 5.494 5.495 5.496	FIXED SATELLITE (space-to-Earth) 5.484A	VSAT/SNG/DTH	
12.75 – 13.25 FIXED FIXED-SATELLITE (Earth-to-space) 5.441 MOBILE Space Research (deep space) (space-to-Earth)	FIXED NF1 NF44	PTP links	
13.25 – 13.4 EARTH EXPLORATION-SATELLITE (active) AERONAUTICAL-RADIONAVIGATION 5.497 SPACE RESEARCH (active) 5.498A 5.499	EARTH EXPLORATION-SATELLITE (active) AERONAUTICAL-RADIONAVIGATION 5.497 SPACE RESEARCH (active) 5.498A		

<p>13.40 – 13.75 EARTH EXPLORATION-SATELLITE (active) RADIOLOCATION</p> <p>SPACE RESEARCH 5.501A</p> <p>Standard frequency and time signal satellite (Earth-to-space)</p> <p>5.499 5.500 5.501 5.501B</p>	<p>RADIOLOCATION</p>	<p>Low Power Microwave Fences (13.4 - 14 GHz) NIB, FDDA</p>	<p>Government Gazette No 26193, Notice 533 of 24 March 2004 refers..</p>
<p>13.75 – 14.</p> <p>FIXED-SATELLITE (Earth-to-space) 5.484A RADIOLOCATION</p> <p>Standard frequency and time signal satellite (Earth-to-space)</p> <p>Space research</p> <p>Earth exploration – satellite</p> <p>5.499 5.500 5.501 5.502 5.503</p>	<p>FIXED SATELLITE (Earth-to-space)5.484A RADIOLOCATION</p> <p>Standard frequency and time signal satellite (Earth-to-space)</p> <p>Space research</p> <p>Earth exploration – satellite</p> <p>5.502 5.503</p>	<p>VSAT/SNG/FSS feeder links</p> <p>Low Power Microwave Fences (13.4 - 14 GHz) NIB, FDDA</p>	<p>Government Gazette No 26193, Notice 533 of 24 March 2004 refers..</p>

14.00 – 15.40 GHz

ITU Region 1 Allocations	South African Allocations	Applications	Comments
14.00 – 14.25 FIXED-SATELLITE (Earth-to-space) 5.484A 5.506 5.457A 5.506B 5.457B RADIONAVIGATION 5.504 Mobile-satellite (Earth-to-space) 5.504C 5.506A Space Research 5.505 5.504A	FIXED SATELLITE (Earth-to-space) NF45 5.484A 5.506 5.457A	VSAT/SNG/FSS feeder links	
14.25 – 14.30 FIXED-SATELLITE (Earth-to-space) 5.484A 5.506 5.457A 5.506B 5.457B RADIONAVIGATION 5.504 Mobile-satellite (Earth-to-space) 5.506A 5.509A Space Research 5.505 5.508 5.509 5.504A	FIXED SATELLITE (Earth-to-space) NF45 5.484A 5.506 5.457A	VSAT/SNG/FSS feeder links	
14.30 – 14.40 FIXED FIXED-SATELLITE (Earth-to-space) 5.484A 5.506 5.457A 5.506B 5.457B MOBILE except aeronautical mobile Mobile-satellite (Earth-to-space) except aeronautical mobile satellite 5.506A 5.509A Radionavigation-satellite 5.504A	FIXED SATELLITE (Earth-to-space) NF45 5.484A 5.506 5.457A	VSAT/SNG/FSS feeder links	

<p>14.40 – 14.47</p> <p>FIXED</p> <p>FIXED-SATELLITE (Earth-to-space) 5.484A 5.506 5.457A 5.506B 5.457B</p> <p>MOBILE except aeronautical mobile</p> <p>Mobile-satellite (Earth-to- space) 5.506A 5.509A</p> <p>Space Research (space- to-Earth)</p> <p>5.504A</p>	<p>FIXED SATELLITE (Earth-to-space)</p> <p>NF45</p> <p>5.484A 5.506 5.457A</p>	<p>VSAT/SNG/FSS feeder links</p>	
<p>14.47 – 14.50</p> <p>FIXED</p> <p>FIXED-SATELLITE (Earth-to-space) 5.484A 5.506 5.457A 5.506B 5.457B</p> <p>MOBILE except aeronautical- mobile</p> <p>Mobile-satellite (Earth-to- space) 5.506A 5.509A 5.504B</p> <p>Radio Astronomy</p> <p>5.149 5.504A</p>	<p>FIXED SATELLITE (Earth-to-space)</p> <p>NF45</p> <p>5.484A 5.506 5.457A</p>	<p>VSAT/SNG/FSS feeder links</p>	
<p>14.50 – 14.80</p> <p>FIXED</p> <p>FIXED-SATELLITE (Earth-to-space) 5.510</p> <p>MOBILE</p> <p>Space Research</p>	<p>FIXED</p> <p>NF46</p>	<p>PTP links</p> <p>ENG OB</p> <p>BSS feeder links</p>	
<p>14.80 – 15.35</p> <p>FIXED</p> <p>MOBILE</p> <p>Space Research</p> <p>5.339</p>	<p>FIXED NF1</p> <p>NF46</p>	<p>PTP links</p> <p>ENG OB links</p>	

15.35 – 15.4 EARTH EXPLORATION- SATELLITE (passive) RADIO ASTRONOMY SPACE RESEARCH (passive) 5.340 5.511	EARTH EXPLORATION- SATELLITE (passive) SPACE RESEARCH (passive) 5.340	VILBIRA OBSERVATIONS Passive Sensing	
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15.40 – 18.40 GHz

ITU Region 1 Allocations	South African Allocations	Applications	Comments
15.40 – 15.43 AERONAUTICAL RADIONAVIGATION 5.511D	AERONAUTICAL RADIONAVIGATION 5.511C 5.511D	RADIO ALTIMETERS/RADARS	ICAO: ASDE Annex 10
15.43 – 15.63 FIXED-SATELLITE (Earth-to-space) 5.511A AERONAUTICAL RADIONAVIGATION 5.511C	AERONAUTICAL RADIONAVIGATION 5.511C 5.511D	RADIO ALTIMETERS/RADARS	ICAO: ASDE Annex 10
15.63 – 15.70 FIXED-SATELLITE (Earth-to-space) 5.511A AERONAUTICAL RADIONAVIGATION 5.511C	AERONAUTICAL RADIONAVIGATION 5.511C 5.511D	RADIO ALTIMETERS/RADARS	ICAO: ASDE Annex 10
15.70 – 16.60 RADIOLOCATION 5.512 5.513	RADIOLOCATION		ALTIMETERS / DISTANCE MEASURING EQUIPMENT
16.60 – 17.1 RADIOLOCATION Space Research (deep space) (Earth-to-space) 5.512 5.513	RADIOLOCATION Space Research (deep space) (Earth-to-space)		
17.10 – 17.20 RADIOLOCATION 5.512 5.513	RADIOLOCATION		WAS links (future)

17.20 – 17.30 EARTH EXPLORATION-SATELLITE (active) RADIOLOCATION SPACE RESEARCH (active) 5.512 5.513 5.513A	EARTH EXPLORATION-SATELLITE (active) RADIOLOCATION SPACE RESEARCH (active) 5.513A		WAS links (future)
17.30 – 17.70 FIXED-SATELLITE (Earth-to-space) (space to Earth) 5.516 5.516A 5.516B Radiolocation 5.514	FIXED-SATELLITE (Earth-to-space) (space to Earth) 5.516 5.516A 5.516B Radiolocation		
17.70 – 18.10 FIXED FIXED-SATELLITE (space-to-Earth) 5.484A (Earth-to-space) 5.516 MOBILE	FIXED NF1 FIXED-SATELLITE (space-to-Earth) 5.484A (Earth-to-space) 5.516 NF47	PTP links BSS feeder links (future)	
18.10 – 18.40 FIXED FIXED-SATELLITE (space-to-Earth) 5.484A 5.516B (Earth-to-space) 5.520 MOBILE 5.519 5.521	FIXED NF1 FIXED-SATELLITE (space-to-Earth) 5.484A 5.516B (Earth-to-space) 5.520 NF47	PTP links (17.7 - 19.7 GHz) GSO/FSS	

18.40 – 22.00 GHz

ITU Region 1 Allocations	South African Allocations	Applications	Comments
18.40 – 18.60 FIXED FIXED-SATELLITE (space-to-Earth) 5.484A 5.516B MOBILE	FIXED NF1 FIXED-SATELLITE (space-to-Earth) 5.484A 5.516B NF47	PTP links GSO/FSS	
18.60 – 18.80 FIXED FIXED-SATELLITE (space-to-Earth) 5.522B MOBILE except aeronautical mobile EARTH EXPLORATION-SATELLITE (passive) Space research (passive) 5.522A 5.522C	FIXED NF1 FIXED-SATELLITE (space-to-Earth) 5.522B NF47 EARTH EXPLORATION-SATELLITE (passive) Space research (passive) 5.522A	PTP links GSO/FSS Passive Sensing	
18.80 – 19.30 FIXED FIXED-SATELLITE (space-to-Earth) 5.523A 5.516B MOBILE	FIXED NF1 FIXED-SATELLITE (space-to-Earth) 5.523A 5.516B NF47	PTP links NGSO/FSS	NGSO FSS (18.8 - 19.3 GHz) (future)
19.30 – 19.70 FIXED FIXED-SATELLITE (space-to-Earth) (Earth-to-space) 5.523B 5.523C 5.523D 5.523E MOBILE	FIXED NF1 FIXED-SATELLITE (space-to-Earth) (Earth-to-space) 5.523B 5.523C 5.523D 5.523E NF47	PTP links NGSO MSS (19.3 - 19.7 GHz)	NGSO MSS feeder links (future)

19.70 – 20.10 FIXED-SATELLITE (space-to-Earth) 5.484A 5.516B Mobile-Satellite (space- to-Earth) 5.524	FIXED-SATELLITE (space-to-Earth) 5.484A 5.516B	GSO/FSS	
20.10 – 20.20 FIXED-SATELLITE (space-to-Earth) 5.484A 5.516B MOBILE-SATELLITE (space-to-Earth) 5.524 5.525 5.526 5.527 5.528	FIXED-SATELLITE (space-to-Earth) 5.484A 5.516B	GSO/FSS	
20.20 – 21.20 FIXED-SATELLITE (space-to-Earth) MOBILE-SATELLITE (space-to-Earth) Standard frequency and time signal- satellite (space-to-Earth) 5.524	FIXED-SATELLITE (space-to-Earth) MOBILE-SATELLITE (space-to-Earth) Standard frequency and time signal- satellite (space-to-Earth)		
21.20 – 21.40 EARTH EXPLORATION- SATELLITE (passive) FIXED SPACE RESEARCH (passive) MOBILE	EARTH EXPLORATION- SATELLITE (passive) FIXED NF1 NF48 SPACE RESEARCH (passive)	PTP links Passive Sensing	

21.40 – 22.00 FIXED MOBILE BROADCASTING- SATELLITE 5.530	FIXED NF1 NF48 BROADCASTING- SATELLITE 5.530	PTP links	Possible HDTV (future)
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