ITU Region 1 Allocations	South African Allocations	Typical Applications	Comments
1660 - 1660.5			
MOBILE-SATELLITE (Earth-to-space)	MOBILE-SATELLITE (Earth-to-space)	MARITIME SATELLITE 1626.5-1645.5 MHz	GMDSS Paired with 1525 – 1544 MHz
5.351A	5.351A 5.364 5.365 5.368 5.372	MOBILE SATELLITE 1645.5-1646.5 MHz	GMDSS Paired with 1544 – 1545 MHz
		AERONAUTICAL MOBILE SATELLITE (R) 1646.5-1656.5 MHz	GMDSS Paired with 1545 - 1555 MHz
		LAND MOBILE SATELLITE 1656.5-1660.5 MHz	GMDSS Paired with 1555 1559 MHz
	5.351A 5.364 5.365 5.368 5.372		
RADIO ASTRONOMY	RADIO ASTRONOMY		
5.149 5.341 5.351 5.354 5.376A	5.149 5.354 5.376A		
1 660.5 - 1 668			

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RADIO ASTRONOMY SPACE RESEARCH (passive) Fixed Mobile except aeronautical mobile 5.149 5.341 5.379 5.379A	RADIO ASTRONOMY SPACE RESEARCH (passive) 5.149 5.341 5.379A		
1 668 - 1 668.4 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 5.379D	MOBILE SATELLITE (Earth-to-space) 5.348 5.348A 5.351A 5.351A 5.379B 5.379C RADIO ASTRONOMY SPACE RESEARCH (passive) 5.149 5.341 5.379A 5.379D		IMT satellite component 1668 – 1675 MHz

1 668.4 - 1 670 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	 METEOROLOGICAL AIDS MOBILE SATELLITE (Earth –to-space) 5.348 5.348A 5.351A 5.379B 5.379C RADIO ASTRONOMY 5.149 5.341 5.379D		 IMT satellite component 1668 – 1675 MHz
1670 – 1675 METEOROLOGICAL AIDS FIXED METEOROLOGICAL-SATELLITE (space-to-Earth)	 METEOROLOGICAL AIDS	 Radiosondes 1668 -1700 MHz	

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MOBILE MOBILE-SATELLITE (Earth-to-space) 5.351A 5.379B 5.341 5.379D 5.379E 5.380A	MOBILE MOBILE-SATELLITE (Earth-to-space) 5.348 5.348A 5.351A 5.379B 5.379C 5.379D		IMT satellite component 1668 – 1675 MHz
1675 – 1690 METEOROLOGICAL AIDS FIXED METEOROLOGICAL-SATELLITE (space-to-Earth) MOBILE except aeronautical mobile 5.341	METEOROLOGICAL AIDS METEOROLOGICAL-SATELLITE (space-to-Earth) MOBILE except aeronautical mobile 5.341	Radiosondes 1668 -1700 MHz	
1690 – 1700 METEOROLOGICAL AIDS	METEOROLOGICAL AIDS	Radiosondes 1668-1700MHz	Channels 1695.6938; 1695.7250;

			1695.7562; 1695.7874; 1691; 1694.5MHz
METEOROLOGICAL- SATELLITE (space-to-Earth) Fixed Mobile except Aeronautical mobile 5.289 5.341 5.382	METEOROLOGICAL- SATELLITE (space-to-Earth) 5.289 5.341		
1700 – 1710 FIXED METEOROLOGICAL-SATELLITE (space-to-Earth) MOBILE except Aeronautical mobile 5.289 5.341	METEOROLOGICAL-SATELLITE (space-to-Earth) 5.289 5.341		

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1710 - 2170 MHz

ITU Region 1 Allocations	South African Allocations	Typical Applications	Comments
1710 – 1930			
FIXED	FIXED	DECT 1880 - 1900 MHz	
		Cordless DECT phones	The band 1880 – 1900 MHz is also used for DECT cordless telephones (Government Gazette No 26193, Notice 533 of 24 March 2004 refers.)
		Wireless Access Systems 1900 - 1920 MHz Extended DECT	
		1785 – 1805 MHz Fixed Broadband data applications	
	NF 23, NF 24, NF 25, NF 26		
MOBILE	MOBILE	Mobile 1800 MTX 1710 – 1785 MHz	Paired with BTX 1805 – 1880 MHz. CEPT T/R 22-07 refers

5.149 5.341 5.384A 5.385 5.386 5.388 5.388A 5.388B	5.384A 5.385 5.388 5.388A		
1930 – 1970 FIXED MOBILE 5.388 5.388A 5.388B	 FIXED MOBILE 5.388 5.388A NF26	 1920 – 1980 MHz	 Terrestrial component of IMT Paired with 2110 – 2170 MHz
1970 – 1980 FIXED MOBILE 5.388 5.338A 5.388B	 FIXED MOBILE 5.388 5.338A NF26	 1920 – 1980 MHz	 Terrestrial component of IMT Paired with 2110 – 2170 MHz.
1980 – 2010			

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FIXED MOBILE MOBILE-SATELLITE (Earth-to-space) 5.351A 5.388 5.389A 5.389F	FIXED MOBILE-SATELLITE (Earth-to-space) 5.351A NF26 5.388 5.389A	Fixed links 1980 - 2010 MHz	Paired with 2170 - 2200 MHz Satellite component of IMT
2010 – 2025 FIXED MOBILE 5.388 5.388A 5.388B	FIXED MOBILE 5.388 5.388A		Terrestrial component of IMT
2025 – 2110 FIXED	FIXED NF27	Fixed Links 2025 - 2110 MHz	Paired with 2200 - 2285 MHz. ITU-R F.1098 and CEPT T/R 13-01 Annex C refers

SPACE OPERATION (Earth-to-space) (space-to-space) EARTH EXPLORATION-SATELLITE (Earth-to-space) (space-to-space) MOBILE 5.391 SPACE RESEARCH (Earth-to-space) (space-to-space) 5.392			
2110 – 2120 FIXED MOBILE 5.388A 5.388B SPACE RESEARCH (deep space) (Earth-to-space) 5.388	FIXED MOBILE 5.388A 5.388	2110 – 2170 MHz	Terrestrial component of IMT

1 January 2004. Any new assignment to these earth stations in this band shall also be protected from harmful interference from stations in the mobile-satellite service. (WRC-07)

5.384A The bands, or portions of the bands, 1 710-1 885 MHz, 2 300-2 400 MHz and 2 500-2 690 MHz, are identified for use by administrations wishing to implement International Mobile Telecommunications (IMT) in accordance with Resolution **223 (Rev.WRC-07)**. This identification does not preclude the use of these bands by any application of the services to which they are allocated and does not establish priority in the Radio Regulations. (WRC-07)

5.385 *Additional allocation:* the band 1 718.8-1 722.2 MHz is also allocated to the radio astronomy service on a secondary basis for spectral line observations. (WRC-2000)

5.386 *Additional allocation:* the band 1 750-1 850 MHz is also allocated to the space operation (Earth-to-space) and space research (Earth-to-space) services in Region 2, in Australia, Guam, India, Indonesia and Japan on a primary basis, subject to agreement obtained under No. 9.21, having particular regard to troposcatter systems. (WRC-03)

5.388 The bands 1 885-2 025 MHz and 2 110-2 200 MHz are intended for use, on a worldwide basis, by administrations wishing to implement International Mobile Telecommunications-2000 (IMT-2000). Such use does not preclude the use of these bands by other services to which they are allocated. The bands should be made available for IMT-2000 in accordance with Resolution 212 **(Rev.WRC-97)***. (See also Resolution 223 **(WRC-2000)***.) (WRC-2000)

5.388A In Regions 1 and 3, the bands 1 885-1 980 MHz, 2 010-2 025 MHz and 2 110-2 170 MHz and, in Region 2, the bands 1 885-1 980 MHz and 2 110-2 160 MHz may be used by high altitude platform stations as base stations to provide International Mobile Telecommunications-2000 (IMT-2000), in accordance with Resolution 221 **(Rev.WRC-03)***. Their use by IMT-2000 applications using high altitude platform stations as base stations does not preclude the use of these bands by any station in the services to which they are allocated and does not establish priority in the Radio Regulations. (WRC-03)

5.388B In Algeria, Saudi Arabia, Bahrain, Benin, Burkina Faso, Cameroon, Comoros, Côte d'Ivoire, China, Cuba, Djibouti, Egypt, United Arab Emirates, Eritrea, Ethiopia, Gabon, Ghana, India, Iran (Islamic Republic of), Israel, the Libyan Arab Jamahiriya, Jordan, Kenya, Kuwait, Mali, Morocco, Mauritania, Nigeria, Oman, Uganda, Qatar, the Syrian Arab Republic, Senegal, Singapore, Sudan, Tanzania, Chad, Togo, Tunisia, Yemen, Zambia and Zimbabwe, for the purpose of protecting fixed and mobile services, including IMT-2000 mobile stations, in their territories from co-channel interference, a high altitude platform station (HAPS) operating as an IMT-2000 base station in neighbouring countries, in the bands referred to in No. 5.388A, shall not exceed a co-channel power flux-density of –127 dB(W/(m^2 · MHz)) at the Earth's surface outside a country's borders unless explicit agreement of the affected administration is provided at the time of the notification of HAPS. (WRC-03)

5.389A The use of the bands 1 980-2 010 MHz and 2 170-2 200 MHz by the mobile-satellite service is subject to coordination under No. 9.11A and to the provisions of Resolution **716 (Rev.WRC-2000)**. (WRC-07)

5.389E The use of the bands 2 010-2 025 MHz and 2 160-2 170 MHz by the mobile-satellite service in Region 2 shall not cause harmful interference to or constrain the development of the fixed and mobile services in Regions 1 and 3.

5.389F In Algeria, Benin, Cape Verde, Egypt, Iran (Islamic Republic of), Mali, Syrian Arab Republic and Tunisia, the use of the bands 1 980-2 010 MHz and 2 170-2 200 MHz by the mobile-satellite service shall neither cause harmful interference to the fixed and mobile services, nor hamper the development of those services prior to 1 January 2005, nor shall the former service request protection from the latter services. (WRC-2000)

5.390 (SUP - WRC-07)

5.391 In making assignments to the mobile service in the bands 2 025-2 110 MHz and 2 200-2 290 MHz, administrations shall not introduce high-density mobile systems, as described in Recommendation ITU-R SA.1154, and shall take that Recommendation into account for the introduction of any other type of mobile system. (WRC-97)

5.392 Administrations are urged to take all practicable measures to ensure that space-to-space transmissions between two or more non-geostationary satellites, in the space research, space operations and Earth exploration-satellite services in the bands 2 025-2 110 MHz and 2 200-2 290 MHz, shall not impose any constraints on Earth-to-space, space-to-Earth and other space-to-space transmissions of those services and in those bands between geostationary and non-geostationary satellites.

5.395 In France and Turkey, the use of the band 2 310-2 360 MHz by the aeronautical mobile service for telemetry has priority over other uses by the mobile service. (WRC-03)

5.396 Space stations of the broadcasting-satellite service in the band 2 310-2 360 MHz operating in accordance with No. 5.393 that may affect the services to which this band is allocated in other countries shall be coordinated and

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* *Note by the Secretariat:* This Resolution was revised by WRC-07.

2120 – 2160 FIXED MOBILE 5.388A 5.388B 5.388	 FIXED MOBILE 5.388A 5.388	2110 – 2170 MHz	Terrestrial component of IMT
2160 – 2170 FIXED MOBILE 5.388A 5.388B 5.388	 FIXED NF1 MOBILE 5.388A 5.388B 5.388	2110 – 2170 MHz	Terrestrial component of IMT

2170 - 2520 MHz

ITU Region 1 Allocations	South African Allocations	Typical Applications	Comments
2170 – 2200 FIXED MOBILE MOBILE-SATELLITE (space-to-Earth) 5.351A 5.388 5.389A 5.389F	 FIXED MOBILE-SATELLITE (space-to-Earth) 5.351A NF27 5.388 5.389A	 Fixed links 2170 - 2200 MHz Satellite component of IMT	 Paired with 1980 – 2010 MHz Band also to be used for GMPCS systems
2200 – 2290 FIXED	 FIXED N27	 Fixed links2200 – 2285 MHz WAS 2285 – 2290 MHz	 Paired with 2025 - 2110, ITU-R F.1098 and CEPT T/R 13-01 Annex C refer

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) 5.392	SPACE OPERATION (space-to-Earth) (space-to-space)	TT&C, receive from space	
2290 – 2300 FIXED MOBILE except aeronautical mobile SPACE RESEARCH (deep space) (space-to-Earth)	FIXED	Fixed links	
2300 – 2450			IMT 2300 – 2400 MHz

FIXED	FIXED	Fixed links	(PtP & PtMP)
		2307 - 2387 MHz	Paired with 2401 – 2481 MHz
		Outside Broadcasting links	28 MHz channelling OB links. Frequency co-ordination with fixed links on a case-by-case basis is mandatory for all OB links. Primary basis: 2377 MHz and 2471 MHz. Secondary basis: 2321 MHz, 2349 MHz, 2415 MHz and 2443 MHz
		WLAN & RFID 2400 – 2483.5 MHz. Non-specific SRD's and low power video surveillance 2400 – 2483.5 MHz	Government Gazette No 31127, Notice No 713 0f 2008 and Government Gazette No 31290, Notice No 926 of 2008 refer
		ISM 2400 – 2500 MHz	International ISM band for Industrial, scientific and medical equipment (5.150 refers).
			All fixed services in the band 2300

			MHz – 2400 MHz are earmarked for future migration
MOBILE	MOBILE 5.384A NF28		
Amateur	Amateur		
Radiolocation			
5.150 5.282 5.384A 5.395	5.150		
2450 – 2483.5			
FIXED	FIXED	Fixed links on 2401 – 2481 MHz	(PTMP and PTP) Paired with 2307 - 2387 MHz
		Outside Broadcasting links	28 MHz channelling OB links. Frequency co-ordination with fixed links on a case-by-case basis is mandatory for all OB links. Primary basis: 2377 MHz and 2471 MHz. Secondary basis: 2321 MHz, 2349 MHz, 2415 MHz and 2443 MHz

		WLAN & RFID 2400 – 2483.5 MHz	Government Gazette No 31127, Notice No 713 0f 2008 and Government Gazette No 31290, Notice No 926 of 2008 refer
MOBILE Radiolocation 5.150 5.397	MOBILE NF29 5.150 5.384A	ISM 2400 – 2500 MHz	
2483.5 – 2500 FIXED MOBILE MOBILE-SATELLITE (space-to Earth) 5.351A	FIXED MOBILE MOBILE-SATELLITE (space-to-Earth) 5.351A	ISM 2400 – 2500 MHz Aeronautical Mobile Video surveillance	Unmanned Aerial Vehicles only. Some systems are paired with 1610 - 1626.5 MHz).

Radiolocation 5.150 5.371 5.397 5.398 5.399 5.400 5.402	NF 29 5.150 5.402		
2500 – 2520 FIXED 5.410 MOBILE except Aeronautical mobile 5.384A 5.405	FIXED MOBILE except aeronautical mobile 5.384A		IMT 2500 – 2690 MHz

2520 - 2700 MHz

ITU Region 1 Allocations	South African Allocations	Typical 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 5.410 MOBILE except aeronautical mobile 5.384A		IMT 2500 – 2690 MHz

2655 – 2670 FIXED 5.410 MOBILE except Aeronautical mobile 5.384A BROADCASTING-SATELLITE 5.413 5.416 Earth exploration-satellite (passive) Radio astronomy Space research (passive) 5.149 5.420	FIXED 5.410 MOBILE except aeronautical mobile 5.384A Radio astronomy 5.149		IMT 2500 – 2690 MHz
2670 – 2690			IMT 2500 – 2690 MHz

FIXED 5.410 MOBILE except Aeronautical mobile 5.384A Earth exploration-satellite (passive) Radio astronomy Space research (passive) 5.149 5.419 5.420	FIXED 5.410 MOBILE except aeronautical mobile 5.384A Radio astronomy 5.149		
2690 – 2700 EARTH EXPLORATION-SATELLITE (passive) RADIO ASTRONOMY SPACE RESEARCH (passive)	RADIO ASTRONOMY SPACE RESEARCH (passive)	Passive Sensing	

5.340 5.422	5.340		

2700 - 4800 MHz

ITU Region 1 Allocations	South African Allocations	Typical Applications	Comments
2700 – 2900 AERONAUTICAL RADIONAVIGATION 5.337 Radiolocation	AERONAUTICAL RADIONAVIGATION 5.337 Radiolocation 5.423		
2900 – 3100 RADIONAVIGATION 5.426 RADIOLOCATION 5.424A 5.425 5.427	RADIONAVIGATION 5.426 RADIOLOCATION 5.424A 5.425 5.427		

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 Services	
3300– 3400 RADIOLOCATION 5.149 5.429 5.430	RADIOLOCATION	Government Services	
3400 – 3600 FIXED FIXED-SATELLITE (space-to-Earth)	FIXED		IMT 3400 – 3600 MHz

Mobile 5.430A Radiolocation 5.431	MOBILE except Aeronautical Mobile 5.430A		
3600 – 4200 FIXED FIXED-SATELLITE (space-to-Earth) Mobile	FIXED FIXED-SATELLITE (space-to-Earth) NF 32 NF35	Fixed links VSAT/SNG/Satellite PTP links	PtP links sharing with FSS Known as C-band - Sharing with FS
4200 – 4400 AERONAUTICAL-RADIONAVIGATION 5.438 5.440	AERONAUTICAL RADIONAVIGATION 5.438		

4400 – 4500 FIXED MOBILE 5.440A	FIXED NF33	Outside Broadcasting (OB) / Electronic News Gathering (ENG) Government Services	
4500 – 4800 FIXED FIXED-SATELLITE (space-to-Earth) 5.441 MOBILE 5.440A	FIXED NF33	Outside Broadcasting (OB) / Electronic News Gathering (ENG) Government Services	

4800 - 5570 MHz

ITU Region 1 Allocations	South African Allocations	Typical Applications	Comments
4800 – 4990			
FIXED	FIXED NF33	Outside Broadcasting (OB) / Electronic News Gathering (ENG) Government Services	
MOBILE 5.442 5.4B01			
Radio Astronomy	Radio Astronomy	Radio Astronomy on 4825 – 4835 & 4950 – 4990 MHz	
5.149 5.339	5.149		
4990 – 5000			
FIXED	FIXED NF33	Outside Broadcasting (OB) / Electronic News Gathering (ENG) Government Services	

MOBILE except aeronautical mobile RADIO ASTRONOMY Space Research (passive) 5.149	RADIO ASTRONOMY 5.149		
5000 – 5010 AERONAUTICAL RADIONAVIGATION RADIONAVIGATION-SATELLITE (Earth-to-space) 5.367	AERONAUTICAL RADIONAVIGATION RADIONAVIGATION-SATELLITE (Earth-to-space) 5.367		
5010 – 5030 AERONAUTICAL RADIONAVIGATION	AERONAUTICAL RADIONAVIGATION		

RADIONAVIGATION-SATELLITE (space-to-Earth) (space-to-space 5.443B 5.328B 55.367	RADIONAVIGATION-SATELLITE (space-to-Earth) (space-to-space 5.443B 5.328B 5.367		
5030 – 5091 AERONAUTICAL RADIONAVIGATION 5.367 5.444	AERONAUTICAL RADIONAVIGATION 5.367 5.444	MICROWAVE LANDING SYSTEMS	
5091 – 5150 AERONAUTICAL RADIONAVIGATION AERONAUTICAL MOBILE 5.367 5.444 5.444A	AERONAUTICAL RADIONAVIGATION AERONAUTICAL MOBILE 5.444	NGSO MSS feeder links (5091 - 5150 MHz)	
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 NF35 MOBILE except Aeronautical mobile 5.446A 5.446B 5.447B 5.447C	NGSO MSS feeder links 5091 – 5150 MHz WAS / RLAN (indoor use only)	Government Gazette No. 31321 Notice No. 944 of 8 August 2008 refers.
5250 – 5255 EARTH EXPLORATION-SATELLITE (active) RADIOLOCATION SPACE RESEARCH 5.447D MOBILE except Aeronautical mobile 5.446A 5.447F	SPACE RESEARCH 5.447D MOBILE except Aeronautical mobile 5.446A	WAS / RLAN	Government Gazette No. 31321 Notice No. 944 of 8 August 2008 refers.

5.448A			
5255 – 5350 EARTH EXPLORATION-SATELLITE (active) RADIOLOCATION SPACE RESEARCH (active) MOBILE except Aeronautical mobile 5.446A 5.447F 5.448A	**5255 – 5350** EARTH EXPLORATION-SATELLITE (active) RADIOLOCATION SPACE RESEARCH (active) MOBILE except Aeronautical mobile 5.446A	WAS / RLAN	Government Gazette No. 31321 Notice No. 944 of 8 August 2008 refers,
5350 – 5460 EARTH EXPLORATION-SATELLITE (active) 5.448B	**5350 – 5460** EARTH EXPLORATION-SATELLITE (active) 5.448B		