

410 – 430 MHz

ITU Region 1	South African	Typical Applications	Notes and Comments
410 - 420 MHz			
FIXED	FIXED	413 - 416.1 MHz	Paired with 423 - 426.1 MHz
MOBILE except aeronautical mobile	MOBILE except aeronautical mobile	Mobile MTX 407.625 – 413 MHz	Paired with 417.625 - 423 MHz Allocation for Government Services
		Mobile Data MTX 413 - 413.7625 MHz	Paired with 423 - 423.7625 MHz
	NF13	Public Trunking MTX 413.7625 - 416.1 MHz	Paired with 423.7625 - 426.1 MHz Public Digital Trunking
		Mobile BTX 416.1 – 417.625 MHz	Paired with 406.1 - 407.625 MHz

SPACE RESEARCH (space-to-space) 5.268	SPACE RESEARCH (space-to-space) 5.268		
420 - 430 MHz			
FIXED	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	Trunked Mobile BTX 420 - 423 MHz	Paired with 410 - 413 MHz Digital Trunked Mobile radio for Government use
		Public Mobile Data BTX 423 - 423.7625 MHz	Paired with 413 - 413.7625 MHz
		Public Trunking BTX 423.7625 - 426.1 MHz	Paired with 413.7626 - 416.1 MHz Public Trunking using digital mobile radio
Radiolocation	NF13		
5.269			

430 – 450 MHz

ITU Region 1 Allocations	South African Allocations	Typical Applications	Comments
430 - 432 MHz AMATEUR RADIOLOCATION 5.272 5.273 5.274 5.275 5.276 5.277	AMATEUR 430 – 440 MHz NF14		
432 - 438 MHz AMATEUR 5.282 RADIOLOCATION Earth exploration-satellite (active) 5.279A	AMATEUR 430 – 440 MHz NF14 5.138 Amateur Satellite NF14	Amateur-Satellite	Subject to conditions in RR 5.282

5.138 5.272 5.276 5.277 5.280 5.281	Mobile	ISM 433.05 – 434.79 MHz Non Specific SRD including RFID	2008 RR 5.138, government Gazette No 31127, Notice No 713 of 2008 and Government Gazette No 31290, Notice No 926 of 2008 refer *
438 - 440 MHz AMATEUR RADIOLOCATION 5.273 5.274 5.275 5.276 5.277 5.283	AMATEUR NF14		License Class A1,A2,B as per the Amateur Radio Regulations
440 - 450 MHz FIXED	FIXED	Telemetry / Data BTX 440 – 441 MHz	Paired with 445 - 446 MHz (MTX) Channels 440.0125, 440.3625, 445.0125 and 445.3625 MHz are used for Agricultural Telemetry.

			Telemetry / Data MTX 445 - 446 MHz	Paired with 440 - 441 MHz (BTX)
MOBILE except aeronautical mobile	MOBILE except aeronautical mobile		Single Frequency Mobile 441 - 441.1 MHz	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.
			Mobile BTX 441.1 - 445 MHz	Paired with 446.1 - 450 MHz (MTX)
			Mobile: PMR 446 446 - 446.1 MHz	8 channels as contained in Government Gazette No. 31290 Notice No. 926 of 208
			Mobile 446.1 - 450 MHz	Paired with 441.1 - 445 MHz
Radiolocation				
5.269 5.270 5.286	NF15			
450 - 455 MHz				
FIXED	FIXED NF15		Fixed Links 450 - 453 MHz	Paired with 460 - 463 MHz

MOBILE 5.286AA	MOBILE 5.286AA	Single Frequency Mobile 453.025 - 453.975 MHz Paging 453.975 - 454.425 MHz Trunked Mobile BTX 454.425 - 460 MHz	Government Services Paired with 464.425 - 470 MHz
5.209 5.286 [5.5.286B 5.286C 5.5.286E	5.209 NF16		
455 - 456 MHz			
FIXED	FIXED NF15		
MOBILE 5.286AA	MOBILE 5.286AA NF16	Trunked Mobile BTX 454.425 - 460 MHz	Paired with 464.425 - 470 MHz Government Services

5.209 5.286B			
5.286C 5.286E	5.209		
456 - 459 MHz			
FIXED	FIXED		
	NF15		
MOBILE 5.286AA	MOBILE 5.286AA NF16	Trunked Mobile BTX 454.425 – 460 MHz	Paired with 464.425 - 470 MHz
			Government Services
5.271 5.287 5.288	5.286AA 5.287		

459 – 862 MHz

ITU Region 1 Allocations	South African Allocations	Typical Applications	Comments
459 - 460 MHz FIXED MOBILE 5.286AA 5.209 5.286B 5.286C 5.286E	FIXED NF15 MOBILE 5.286AA NF16 5.209	Trunked Mobile BTX 454.425 – 460 MHz	Paired with 464.425 - 470 MHz Government Services
460-470 MHz FIXED MOBILE 5.286AA	FIXED NF15 MOBILE 5.286AA NF16	Fixed Links 460 – 463 MHz Single Frequency Mobile 463.025 – 463.975 MHz	Paired with 450 - 453 MHz

Meteorological-Satellite (space-to-Earth) 5.287 5.288 5.289	5.287	Low Power Mobile Radio 463.975 - 464.425 MHz Trunked Mobile MTX 464.425 – 470 MHz	Government Gazette No 31290, Notice No 926 of 2008 refers 464.375 - 464.425 MHz to be dedicated for control of hazardous equipment Paired with 454.425 - 460 MHz Government Services
470 - 790 MHz BROADCASTING	BROADCASTING RADIO ASTRONOMY	Television Broadcasting 470 – 854 MHz Radio astronomy 606 -614 MHz	Broadcasting Allotments in accordance with GE 89 plan in the process of conversion to GE 06

5.149 5.291A 5.294 5.296 5.300 5.302 5.304 5.306 5.311A 5.312	5.149 5.304 5.311A		
790 - 862 MHz FIXED BROADCASTING MOBILE except aeronautical mobile 5.316B 5.317A 5.312 5.314 5.315 5.316A 5.319	FIXED BROADCASTING MOBILE except aeronautical mobile 5.316B 5.316A 5.316B NF17	Fixed links 856 - 864.1 MHz Television Broadcasting 470 - 854 MHz	The fixed links will be migrated along with the broadcasting service after the dual illumination period. Broadcasting Allotments in accordance with GE 89 plan in the process of conversion to GE 06 IMT 790 - 862 MHz

852 – 890 MHz

ITU Region 1 Allocation	South African	Typical Applications	Notes and
862-890 MHz			
FIXED	FIXED	Fixed Links 868.1 - 876 MHz	
MOBILE except Aeronautical mobile 5.317A	MOBILE except Aeronautical mobile 5.317A NF 18, NF 19, NF 20	Wireless Audio systems 863 – 865 MHz 865 - 868 MHz RFID; Non Specific SRD and RFID 869.4 – 869.65 MHz Alarms 868.6 – 868.7 MHz, 869.25 – 869.3 MHz, 869.65 – 869.7 MHz Mobile Wireless Access 824 - 849 MHz Mobile MTX 880 - 890 MHz	Government Gazette No 31127, Notice No 713 Of 2008 and Government Gazette No 31290, Notice No 926 of 2008 refer Paired with 869 - 894 MHz Paired with 925 -935 MHz
BROADCASTING 5.322 5.319			

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TABLE OF FREQUENCY ALLOCATIONS

5.323

PART D: 890 MHz - 3000 GHz

890 – 1 215 MHz

ITU Region 1 Allocations	South African Allocations	Typical Applications	Comments
890 – 942			
FIXED			
MOBILE Aeronautical Mobile 5.317A	MOBILE except Aeronautical Mobile 5.317A NF 18, NF 19, NF 20, NF 21	Mobile MTX 890 - 915 MHz	Paired with 925 - 935 MHz
		915.1 - 915.2 MHz Real Time Location System	Government Gazette No 31127, Notice No 713 Of 2008 and Government Gazette No 31290, Notice No 926 of 2008 refer
		915.2 - 915.4 MHz Passive Tags	
		195.4 - 919 MHz Modulating RFID Systems (FHSS)	Government Gazette No 31127, Notice No 713 Of 2008 refers.
		919. - 919.2 MHz Tag Backscatter Guard Band	

BROADCASTING 5.322 Radiolocation 5.323		919.2 - 921. MHz Non Modulating Backscatter RFID Systems	
942 – 960 FIXED MOBILE except aeronautical mobile 5.317A BROADCASTING 5.322 5.323	MOBILE except aeronautical mobile 5.317A NF 18, NF 19, NF 20	Mobile BTX 935 – 960 MHz	Paired with 890 - 915 MHz
960 - 1 164			

AERONAUTICAL RADIONAVIGATION 5.328	AERONAUTICAL RADIONAVIGATION 5.328	Distance Measuring Equipment / Secondary Surveillance Radar	
AERONAUTICAL MOBILE (R) 5.327A	AERONAUTICAL MOBILE (R) 5.327A		
1 164 - 1 215			
AERONAUTICAL RADIONAVIGATION 5.328	AERONAUTICAL RADIONAVIGATION 5.328		
RADIONAVIGATION-SATELLITE (space-to-Earth) (space-to-space)	RADIONAVIGATION-SATELLITE (space-to-Earth) (space-to-space)		
5.328A 5.328B	5.328A 5.328B		

1 215 – 1 429 MHz

ITU Region 1 Allocations	South African Allocations	Typical Applications	Comments
1 215 - 1 240			
EARTH EXPLORATION- SATELLITE (active)	EARTH EXPLORATION- SATELLITE		
RADIOLOCATION	RADIOLOCATION		
RADIONAVIGATION-SATELLITE (space-to-Earth) (space-to-space) 5.329 5.329A 5.328B 5.331	RADIONAVIGATION-SATELLITE (space-to-Earth) (space-to-space) 5.329 5.329A 5.328B 5.331	Global Positioning System 1215 – 1260 MHz	
SPACE RESEARCH (active)	SPACE RESEARCH (active)		
5.330 5.331 5.332	5.332		
1 240 - 1 300			

EARTH EXPLORATION- SATELLITE (active)	EARTH EXPLORATION- SATELLITE (active)		
RADIOLOCATION	RADIOLOCATION	Air Traffic Control Radar 1240 - 1350 MHz	
RADIONAVIGATION-SATELLITE (space-to-Earth) (space-to-space)	RADIONAVIGATION-SATELLITE (space-to-Earth) (space-to-space)	Global Positioning Systems L2 1215 -1260 MHz	
5.328B 5.329 5.329A 5.331	5.328B 5.329 5.329A 5.331		
SPACE RESEARCH (active)	SPACE RESEARCH (active)		
Amateur	Amateur	Amateur 1240 - 1300 MHz	
5.330 5.331 5.332 5.335.335A	5.332 5.335A		
1300 – 1350			

AERONAUTICAL RADIONAVIGATION	AERONAUTICAL RADIONAVIGATION		
5.337	5.337		
RADIOLOCATION	RADIOLOCATION	Air Traffic Control Radar 1240 - 1350 MHz	
RADIONAVIGATION SATELLITE (Earth-to-space)	RADIONAVIGATION SATELLITE (Earth-to-space)		
	Radio Astronomy 5.149		
5.149 5.337A	5.337A		
1 350 - 1 400			
FIXED	FIXED	Fixed low capacity PTP links 1350 - 1375 MHz	Paired with 1492 - 1517 MHz. CEPT T/R 13-01 Annex A refers
		Fixed low capacity PTP links 1375 - 1400 MHz	Paired with 1427 - 1452 MHz. CEPT T/R 13-01 Annex B refers.
MOBILE			

RADIOLOCATION	RADIOLOCATION		
	Radio astronomy 5.149		
5.149 5.338 5.339 5.338A	5.339 5.338A		
1 400 - 1 427			
EARTH EXPLORATION- SATELLITE (passive)	EARTH EXPLORATION- SATELLITE (passive)		
RADIO ASTRONOMY	RADIO ASTRONOMY		
SPACE RESEARCH (passive)	SPACE RESEARCH (passive)	Passive Sensing	
5.340 5.341	5.340 5.341		
1 427- 1 429			
FIXED	FIXED	Fixed low capacity PTP links 1427 – 1452 MHz	Paired with 1375 - 1400 MHz. CEPT T/R 13-01 Annex B refers.
SPACE OPERATION (Earth-to- space)			

MOBILE except aeronautical mobile			
5.341 5.338A			

1300 - 1525 MHz

ITU Region 1 Allocations	South African Allocations	Typical Applications	Comments
1 429-1 452 FIXED MOBILE except aeronautical mobile 5.341 5.342 5.338A	FIXED	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	Terrestrial Digital Audio Broadcasting (T-DAB) 1452 - 1479.5 MHz	

BROADCASTING-SATELLITE	BROADCASTING-SATELLITE	Satellite Digital Audio Broadcasting (S-DAB) 1479.5 - 1492 MHz	
5.345 5.347A	NF22		
5.341 5.342	5.345		
1 492-1 518			
FIXED	FIXED	Fixed Links 1492 – 1517 MHz	Paired with 1350 - 1375 MHz. CEPT T/R 13-01 Annex A refers.
		Single Frequency Fixed Links 1517 – 1525 MHz	CEPT T/R 13-01 refers
MOBILE except aeronautical mobile			
5.341 5.342			
1 518-1 525			

FIXED	FIXED	Single Frequency Fixed Links 1517 – 1525 MHz	CEPT T/R 13-01 refers
MOBILE except aeronautical mobile			
MOBILE-SATELLITE (space-to-Earth)	MOBILE SATELLITE (space-to-Earth) 5.348 5.348A 5.351A		IMT satellite component 1518 – 1525 MHz
5.348 5.348A 5.348B			
5.351A 5.341 5.342			

1 525 – 1 610 MHz

ITU Region 1 Allocations	South African Allocations	Typical Applications	Comments
1525-1530			
SPACE OPERATION (space-to-Earth)	SPACE OPERATION (space-to-Earth)		
FIXED	FIXED		
MOBILE-SATELLITE (space-to-Earth)	MOBILE-SATELLITE (space-to-Earth)	MARITIME SATELLITE 1525 – 1544 MHz	GMDSS Paired with 1626.5 – 1660.5 MHz
		MOBILE SATELLITE 1544 – 1545 MHz	GMDSS Paired with 1645.5 – 1646.5 MHz
		AERONAUTICAL MOBILE SATELLITE 1545 – 1555 MHz	GMDSS Paired with 1646.5 – 1656.5 MHz
		LAND MOBILE SATELLITE 1555 – 1559 MHz	GMDSS Paired with 1656.5 – 1660.5 MHz
5.208B 5.351A	5.208B 5.348 5.351A		
Earth exploration-satellite	Earth exploration-satellite		

Mobile except aeronautical mobile	Mobile except aeronautical mobile		
5.349			
5.341 5.342 5.351	5.351 5.354		
5.352A 5.354			
1 530-1535			
SPACE OPERATION (space-to-Earth)	SPACE OPERATION (space-to-Earth)		
MOBILE-SATELLITE (space-to-Earth)	MOBILE-SATELLITE (space-to-Earth)	MARITIME SATELLITE 1525 – 1544 MHz	GMDSS Paired with 1626.5 – 1660.5 MHz
		MOBILE SATELLITE 1544 – 1545 MHz	GMDSS Paired with 1645.5 – 1646.5 MHz
		AERONAUTICAL MOBILE SATELLITE 1545 – 1555 MHz	GMDSS Paired with 1646.5 – 1656.5 MHz
		LAND MOBILE SATELLITE 1555 – 1559 MHz	GMDSS Paired with 1656.5 – 1660.5 MHz

5.347A 5.351A 5.353A	5.208B 5.348 5.351A 5.353A		
Earth exploration-satellite	Earth exploration-satellite		
Fixed	Fixed		
Mobile except aeronautical mobile	Mobile except aeronautical mobile		
5.341 5.342 5.351 5.354	5.351 5.354		
1535-1559			
MOBILE-SATELLITE (space-to-Earth)	MOBILE-SATELLITE (space-to-Earth)	MARITIME SATELLITE 1525 – 1544 MHz	GMDSS Paired with 1626.5 – 1660.5 MHz
		MOBILE SATELLITE 1544 – 1545 MHz	GMDSS Paired with 1645.5 – 1646.5 MHz
		AERONAUTICAL MOBILE SATELLITE 1545 – 1555 MHz	GMDSS Paired with 1646.5 – 1656.5 MHz
		LAND MOBILE SATELLITE 1555 – 1559 MHz	GMDSS Paired with 1656.5 – 1660.5 MHz
5.208B 5.351A	5.208B 5.348 5.351A		

5.341 5.351 5.353A 5.354 5.355 5.356 5.357 5.357A 5.359	5.351 5.353A 5.354 5.356 5.357 5.357A		
1559-1610 AERONAUTICAL- RADIONAVIGATION RADIONAVIGATION-SATELLITE (space-to-Earth) (space-to-space) 5.328B 5.329A 5.208B 5.341 5.362B 5.362C	AERONAUTICAL- RADIONAVIGATION RADIONAVIGATION-SATELLITE (space-to-Earth) (space-to-space) 5.328B 5.329A 5.208B	AERONAUTICAL (R) 1545-1555 MHz Global Positioning System 1559 - 1610 MHz	Paired with 1646.5-1656.5 MHz

1610 - 1660 MHz

ITU Region 1 Allocations	South African Allocations	Typical Applications	Comments
1610-1610.6 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	MOBILE-SATELLITE (Earth-to-space) 5.351A 5.364 5.365 5.368 5.371 5.372 	MSS 1610 - 1626.5 MHz	Paired with 2483.5 - 2500 MHz for some systems.
1610.6-1613.8 MOBILE-SATELLITE (Earth-to-space) 5.351A RADIO ASTRONOMY	MOBILE-SATELLITE (Earth-to-space) 5.351A 5.364 5.365 5.368 5.372 RADIO ASTRONOMY 5.149	MSS 1610 - 1626.5 MHz	Paired with 2483.5 - 2500 MHz for some systems

AERONAUTICAL- RADIONAVIGATION 5.149 5.341 5.355 5.359 5.364 5.366 5.367 5.368 5.369 5.371 5.372			
1613.8-1626.5 MOBILE-SATELLITE (Earth-to-space) 5.351A AERONAUTICAL- RADIONAVIGATION Mobile-satellite (space-to-Earth) 5.347A 5.341 5.355 5.359 5.364 5.365 5.366 5.367 5.368 5.369 5.371 5.372	MOBILE-SATELLITE (Earth-to-space) 5.351A 5.364 5.365 5.368 5.372	MSS 1610 - 1626.5 MHz	Paired with 2483.5 - 2500 MHz for some systems

1626.5-1660			
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
5.341 5.351 5.353A 5.354 5.355 5.357A 5.359 5.374 5.375 5.376	5.351 5.353A 5.354 5.357A 5.375		