

AERONAUTICAL- RADIONAVIGATION 5.449	AERONAUTICAL- RADIONAVIGATION 5.449		
RADIOLOCATION 5.448D	RADIOLOCATION 5.448D		
SPACE RESEARCH (active) 5.448C	SPACE RESEARCH (active) 5.448C		
5460 – 5470			
RADIONAVIGATION 5.449	RADIONAVIGATION 5.449		
EARTH EXPLORATION- SATELLITE (active)	EARTH EXPLORATION- SATELLITE (active)		
SPACE RESEARCH (active)	SPACE RESEARCH (active)		
RADIOLOCATION 5.448D	RADIOLOCATION 5.448D		
5.448B	5.448B		

5470 – 5570			
MARITIME RADIONAVIGATION	MARITIME RADIONAVIGATION	Maritime Radionavigation and Location (Radar)	
MOBILE except aeronautical mobile 5.446A 5.450A	MOBILE except aeronautical mobile 5.446A 5.450A	WAS / RLAN	Government Gazette No. 31321 Notice No. 944 of 8 August 2008 refers,
EARTH EXPLORATION-SATELLITE (active)	EARTH EXPLORATION-SATELLITE (active)		
SPACE RESEARCH (active)	SPACE RESEARCH (active)		
RADIOLOCATION 5.450B	RADIOLOCATION 5.450B		
5.450 5.451 5.452 5.448B	5.452 5.448B		

5570 - 7250 MHz

ITU Region 1 Allocations	South African Allocations	Typical Applications	Comments
5570 – 5650			
MARITIME- RADIONAVIGATION	MARITIME- RADIONAVIGATION	Maritime Radionavigation and Location (Radar)	
MOBILE except aeronautical mobile 5.446A 5.450A	MOBILE except aeronautical mobile 5.446A 5.450A	WAS / RLAN	Government Gazette No. 31321 Notice No. 944 of 8 August 2008 refers,
RADIOLOCATION 5.450B	RADIOLOCATION 5.450B	Ground-based meteorological radars 5600 – 5650 MHz	
5.450 5.451 5.452	5.452		
5650 – 5725			
RADIOLOCATION	RADIOLOCATION		

MOBILE except aeronautical mobile 5.446A 5.450A	MOBILE except aeronautical mobile 5.446A 5.450A	WAS / RLAN	Government Gazette No. 31321 Notice No. 944 of 8 August 2008 refers,
Amateur	Amateur		
Space Research (deep space)	Space Research (deep space)		
5.282 5.451 5.453 5.454 5.455	5.282 5.455		
5725 – 5830			
FIXED-SATELLITE (Earth-to- space)	FIXED-SATELLITE (Earth-to- space)		
	NF35		
RADIOLOCATION	RADIOLOCATION		
Amateur	Amateur		
	NF34		
5.150 5.451 5.453 5.455 5.456	5.150		

		ISM (5725 - 5875 MHz)	Government Gazette No 31290, Notice No 926 of 2008 refers
5830 – 5850			
FIXED-SATELLITE (Earth-to-space)	FIXED-SATELLITE (Earth-to-space)		
	NF35		
RADIOLOCATION	RADIOLOCATION		
Amateur	Amateur		
Amateur-satellite (space-to-Earth) 5.150 5.451	Amateur-satellite (space-to-Earth) 5.150 5.451 NF34		
5.453 5.455 5.456		ISM (5725 - 5875 MHz)	Government Gazette No 31290, Notice No 926 of 2008 refers

5850 – 5925			
FIXED	FIXED		
FIXED-SATELLITE (Earth-to-space)	FIXED-SATELLITE (Earth-to-space)	VSAT/SNG/Satellite PTP links	
	NF35, NF36		
MOBILE	Mobile		
5.150	5.150 NF 34	ISM (5725 - 5875 MHz)	Government Gazette No 31290, Notice No 926 of 2008 refers
5925 – 6700			
FIXED	FIXED N37	Fixed links	
FIXED-SATELLITE (Earth-to-space) 5.457A 5.457B	FIXED-SATELLITE (Earth-to-space) 5.457A	VSAT/SNG/FSS feeder links	

MOBILE	NF35		
5.149 5.440 5.458	5.149 5.440 5.458		
6700 – 7075			
FIXED	FIXED NF1	Fixed links	
FIXED-SATELLITE (Earth-to-space) (space-to-Earth) 5.441	FIXED-SATELLITE (Earth-to-space) (space-to-Earth) 5.441 NF35 NF38	S-DAB feeder links (uplinks)	
MOBILE			
5.458 5.458A 5.458B 5.458C	5.458 5.458A		
7075 – 7145			
FIXED	FIXED NF38 NF39	Fixed links	
MOBILE			
5.458			

7145 – 7235			
FIXED	FIXED NF39	Fixed links	
MOBILE			
SPACE RESEARCH (Earth-to-space) 5.460	SPACE RESEARCH (Earth-to-space) 5.460		
5.458 5.459			
7235 – 7250			
FIXED	FIXED NF39	Fixed links	
MOBILE			
5.458			

7250 - 8500 MHz

ITU Region 1 Allocations	South African Allocations	Typical Applications	Comments
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7 250-7 300 FIXED FIXED-SATELLITE (space-to-Earth) MOBILE 5.461	FIXED NF39 NF35	Fixed links	
7300-7450 FIXED FIXED-SATELLITE (space-to-Earth) MOBILE except aeronautical mobile	FIXED NF39, NF40 NF35	Fixed links	

5.461			
7450 – 7550			
FIXED	FIXED	Fixed links	
	NF40		
FIXED-SATELLITE (space-to-Earth)			
METEOROLOGICAL- SATELLITE (space-to-Earth) 5.461A	METEOROLOGICAL- SATELLITE (space-to-Earth) 5.461A		On a co-ordinated basis with FS
MOBILE except aeronautical mobile			
7550 – 7750			
FIXED	FIXED NF40	Fixed links	
FIXED-SATELLITE (space-to-Earth)			

MOBILE except aeronautical mobile			
7750 – 7850			
FIXED	FIXED NF41	Fixed links	
METEOROLOGICAL- SATELLITE (space-to-Earth) 5.461B	METEOROLOGICAL- SATELLITE (space-to-Earth) 5.461B		On a co-ordinated basis with FS
MOBILE except aeronautical mobile			
7850 – 7900			
FIXED	FIXED NF41	Fixed links	
MOBILE except aeronautical mobile			
7900 – 8025			
FIXED	FIXED NF41	Fixed links	

FIXED-SATELLITE (Earth-to-space) MOBILE 5.461			
8025 – 8175 EARTH SATELLITE 5.462A EXPLORATION- (space-to-Earth) FIXED FIXED-SATELLITE (Earth-to-space) MOBILE 5.463	EARTH SATELLITE 5.462A EXPLORATION- (space-to-Earth) FIXED NF41	Fixed links	
8175 – 8215 EARTH SATELLITE 5.462A EXPLORATION- (space-to-Earth)	EARTH SATELLITE 5.462A EXPLORATION- (space-to-Earth)		

FIXED		FIXED NF41	Fixed links	
FIXED-SATELLITE (Earth-to-space)				
METEOROLOGICAL- SATELLITE (Earth-to-space)		METEOROLOGICAL- SATELLITE (Earth-to-space)		On a co-ordinated basis with FS
MOBILE 5.463				
8215 – 8400				
EARTH SATELLITE 5.462A	EXPLORATION- (space-to-Earth)	EARTH SATELLITE 5.462A	EXPLORATION- (space-to-Earth)	
FIXED		FIXED NF41 NF42	Fixed links	
FIXED-SATELLITE (Earth-to-space)				
MOBILE 5.463				
8400 – 8500				

FIXED	FIXED	Fixed links	
MOBILE except aeronautical mobile			
SPACE RESEARCH (space-to-Earth) 5.465	SPACE RESEARCH (space-to-Earth) 5.465		

8500 - 10 000 MHz

ITU Region 1 Allocations	South African Allocations	Typical 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	RADIOLOCATION		

5.468 5.469			
8750 – 8850			
RADIOLOCATION	RADIOLOCATION		
AERONAUTICAL RADIONAVIGATION 5.470	AERONAUTICAL RADIONAVIGATION 5.470		
5.471			
8850 – 9000			
RADIOLOCATION	RADIOLOCATION		
MARITIME RADIONAVIGATION 5.472	MARITIME RADIONAVIGATION 5.472		
5.473			
9000 – 9200			
AERONAUTICAL- RADIONAVIGATION 5.337	AERONAUTICAL- RADIONAVIGATION 5.337	Approach Radar	

RADIOLOCATION 5.471 5.473A	RADIOLOCATION 5.473A		
9200 – 9300 RADIOLOCATION MARITIME RADIONAVIGATION 5.472 5.474	 RADIOLOCATION MARITIME RADIONAVIGATION 5.472 5.474	Harbour Radar	
9300 – 9500 RADIONAVIGATION EARTH EXPLORATION- SATELLITE (Active) SPACE RESEARCH (Active)	 RADIONAVIGATION EARTH EXPLORATION- SATELLITE (Active) SPACE RESEARCH (Active)	Shore based radars 9380 – 9440 MHz	

RADIOLOCATION	RADIOLOCATION	Field Disturbance and Doppler Apparatus 9200 – 9975 MHz	Movement Detection Radars. Government Gazette No. 31290, Notice No. 926 of 2008 refers
5.427 5.474 5.475 5.475B 5.476A 5.475A	5.427 5.474 5.475 5.475B 5.476A 5.475A		
9500 – 9800			
EARTH EXPLORATION- SATELLITE (active)	EARTH EXPLORATION- SATELLITE (active)		
RADIOLOCATION	RADIOLOCATION	Field Disturbance and Doppler Apparatus 9200 – 9975 MHz	Movement Detection Radars Government Gazette No 31290, Notice No 926 of 2008 refers
RADIONAVIGATION	RADIONAVIGATION		
SPACE RESEARCH (active)	SPACE RESEARCH (active)		
5.476A	5.476A		

9800 – 9900			
RADIOLOCATION	RADIOLOCATION	Field Disturbance and Doppler Apparatus 9200 – 9975 MHz	MOVEMENT DETECTION (Low Power) Government Gazette No 31290, Notice No 926 of 2008 refers
Earth exploration-satellite (Active)	Earth exploration-satellite (Active)		
Space research (Active)	Space research (Active)		
Fixed			
5.477 5.478A 5.478B	5.478A 5.478B		
9900 – 10000			
RADIOLOCATION	RADIOLOCATION		
Fixed	Fixed		
5.477			

10.0 – 11.7 GHz

ITU Region 1 Allocations	South African Allocations	Typical Applications	Comments
10.00 – 10.45			
FIXED	FIXED	Low Power Video links 10.0 – 10.15 GHz	
		Fixed links 10.15 – 10.3 GHz	Paired with 10.5 – 10.65 GHz
MOBILE			
RADIOLOCATION	RADIOLOCATION		Motion Sensors
Amateur			
10.45 – 10.50			
RADIOLOCATION	RADIOLOCATION	Motion Sensors	
Amateur			

Amateur-Satellite			
5.481			
10.50 – 10.55			
FIXED	FIXED	Fixed links 10.5 – 10.65 GHz	Paired with 10.15 – 10.3 GHz
MOBILE			
Radiolocation	Radiolocation	Motion Sensors	
10.55 – 10.60			
FIXED	FIXED	Fixed links 10.5 – 10.65 GHz	Paired with 10.15 – 10.3 GHz
MOBILE except aeronautical mobile			
Radiolocation	Radiolocation	Motion Sensors	
10.60 – 10.68			

EARTH EXPLORATION- SATELLITE (passive)	EARTH EXPLORATION- SATELLITE (passive)		
FIXED	FIXED	Fixed links 10.5 – 10.65 GHz	Paired with 10.15 – 10.3 GHz
MOBILE except aeronautical mobile			
RADIO ASTRONOMY	RADIO ASTRONOMY		
SPACE RESEARCH (passive)	SPACE RESEARCH (passive)		
Radiolocation	Radiolocation	Motion Sensors	
5.149 5.482 5.482A	5.149 5.482A		
10.68 – 10.7			
EARTH EXPLORATION- SATELLITE (passive)	EARTH EXPLORATION- SATELLITE (passive)		
RADIO ASTRONOMY	RADIO ASTRONOMY		
SPACE RESEARCH (passive)	SPACE RESEARCH (passive)		

5.340 5.483	5.340		
10.7 – 11.7			
FIXED	FIXED NF 43	Fixed links	Sharing with BSS
FIXED-SATELLITE (space-to-Earth) 5.441 5.484A (Earth-to-space) 5.484	FIXED-SATELLITE (space-to-Earth) 5.441 5.484A (Earth-to-space) 5.484	VSAT/SNG/BSS feeder links (primary) [DTH (primary)]	Pending Consultation
	NF45		
MOBILE except aeronautical mobile			

11.70 - 14 GHz

ITU Region 1 Allocations	South African Allocations	Typical Applications	Comments
11.70 – 12.50			
FIXED	FIXED	Electronic News Gathering / Outside Broadcasting	
BROADCASTING	BROADCASTING		
BROADCASTING-SATELLITE	BROADCASTING-SATELLITE	BSS feeder links	
	NF45		
MOBILE except aeronautical mobile			
5.487 5.492	5.487 5.492		
12.5 – 12.75			

FIXED-SATELLITE (space-to-Earth) (Earth-to-space) 5.484A 5.494 5.495	FIXED SATELLITE (space-to-Earth) 5.484A NF45	VSAT/SNG/DTH	
12.75 – 13.25 FIXED FIXED-SATELLITE (Earth-to-space) 5.441 MOBILE Space Research (deep space) (space-to-Earth)	FIXED NF44	Fixed links	
13.25 – 13.4 EARTH EXPLORATION-SATELLITE (active) AERONAUTICAL-RADIONAVIGATION 5.497	EARTH EXPLORATION-SATELLITE (active) AERONAUTICAL-RADIONAVIGATION 5.497		

SPACE RESEARCH (active) 5.498A	SPACE RESEARCH (active) 5.498A		
13.40 – 13.75 EARTH EXPLORATION- SATELLITE (active) RADIOLOCATION SPACE RESEARCH 5.501A Standard frequency and time signal satellite (Earth-to-space) 5.500 5.501B	RADIOLOCATION	FDDA 13.4 – 14 GHz	Government Gazette No 31290, Notice No 926 of 2008 refers
13.75 – 14. FIXED-SATELLITE (Earth-to- space) 5.484A	FIXED SATELLITE (Earth-to- space) 5.484A NF45	VSAT/SNG/FSS feeder links	

RADIOLOCATION	RADIOLOCATION	FDDA 13.4 - 14 GHz,	Government Gazette No 31290, Notice No 926 of 2008 refers
Standard frequency and time signal satellite (Earth-to-space)	Standard frequency and time signal satellite (Earth-to-space)		
Space research	Space research		
Earth exploration –satellite	Earth exploration –satellite		
5.500 5.502 5.503	5.502 5.503		

14.00 – 15.40 GHz

ITU Region 1 Allocations	South African Allocations	Typical 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) 5.504B 5.504C 5.506A Space Research 5.505 5.504A	FIXED SATELLITE (Earth-to-space) 5.484A 5.506 5.457A NF45 Mobile-satellite (Earth-to-space) 5.504B	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) Mobile-satellite (Earth-to-space) 5.504B NF45 Mobile-satellite (Earth-to-space) 5.504B	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	FIXED SATELLITE (Earth-to-space) NF45	VSAT/SNG/FSS feeder links	

