

Mobile-satellite (Earth-to-space) 5.506A 5.509A			
Space Research (space-to-Earth)			
5.504A	5.484A 5.506 5.457A		
14.47 – 14.50			
FIXED			
FIXED-SATELLITE (Earth-to-space) 5.484A 5.506 5.457A 5.506B 5.457B	FIXED SATELLITE (Earth-to-space) NF45	VSAT/SNG/FSS feeder links	
MOBILE except aeronautical-mobile			
Mobile-satellite (Earth-to-space) 5.506A 5.509A 5.504B			
Radio Astronomy			
5.149 5.504A	5.484A 5.506 5.457A		

14.50 – 14.80			
FIXED	FIXED	Fixedlinks	
	NF46		
FIXED-SATELLITE (Earth-to-space) 5.510	FIXED-SATELLITE (Earth-to-space) 5.510	BSS feeder links	
MOBILE			
Space Research			
14.80 – 15.35			
FIXED	FIXED	Fixed links	
MOBILE			
Space Research			
5.339			
15.35 – 15.4			

EARTH EXPLORATION- SATELLITE (passive)	EARTH EXPLORATION- SATELLITE (passive)	VILBIRA OBSERVATIONS	
RADIO ASTRONOMY			
SPACE RESEARCH (passive)	SPACE RESEARCH (passive)	Passive Sensing	
5.340 5.511	5.340		

15.40 – 18.40 GHz

ITU Region 1 Allocations	South African Allocations	Typical Applications	Comments
15.40 – 15.43 AERONAUTICAL RADIONAVIGATION 5.511C	AERONAUTICAL RADIONAVIGATION 5.511C	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	RADIO ALTIMETERS/RADARS	ICAO: ASDE Annex 10
15.63 – 15.70 AERONAUTICAL RADIONAVIGATION	AERONAUTICAL RADIONAVIGATION	RADIO ALTIMETERS/RADARS	ICAO: ASDE Annex 10

5.511C	5.511C		
15.70 – 16.60			
RADIOLOCATION	RADIOLOCATION		ALTIMETERS / DISTANCE MEASURING EQUIPMENT
5.512 5.513			
16.60 – 17.1			
RADIOLOCATION	RADIOLOCATION		
Space Research (deep space) (Earth-to-space)	Space Research (deep space) (Earth-to-space)		
5.512 5.513			
17.10 – 17.20	RADIOLOCATION		Government Gazette No 31290, Notice No 926 of 2008 refers
RADIOLOCATION			

5.512 5.513		Wireless Access System/Radio Local Access Network (WAS & RLAN)	
17.20 – 17.30 EARTH EXPLORATION- SATELLITE (active)	EARTH EXPLORATION- SATELLITE (active)	Wireless Access System/Radio Local Access Network (WAS & RLAN)	Government Gazette No 31290, Notice No 926 of 2008 refers

RADIOLOCATION SPACE RESEARCH (active) 5.512 5.513 5.513A	RADIOLOCATION SPACE RESEARCH (active) 5.513A		
17.30 – 17.70 FIXED-SATELLITE (Earth-to-space) 5.516 (space to Earth) 5.516A 5.516B Radiolocation 5.514	FIXED-SATELLITE (Earth-to-space) 5.516 (space to Earth) 5.516A 5.516B Radiolocation		
17.70 – 18.10 FIXED FIXED-SATELLITE (space-to-Earth) 5.484A (Earth-to-space) 5.516 MOBILE	FIXED FIXED-SATELLITE (space-to-Earth) 5.484A (Earth-to-space) 5.516 NF47	Fixed links 17.7 - 19.7 GHz BSS feeder links 17.7 – 19.7 GHz	

18.10 – 18.40			
FIXED	FIXED	Fixed links 17.7 - 19.7 GHz	
FIXED-SATELLITE (space-to-Earth) 5.484A 5.516B (Earth-to-space) 5.520	FIXED-SATELLITE (space-to-Earth) 5.484A 5.516B (Earth-to-space) 5.520 NF47	BSS Feeder links 17.7 – 19.7 GHz	
MOBILE			
5.519 5.521			

18.40 – 22.00 GHz

ITU Region 1 Allocations	South African Allocations	Typical Applications	Comments
18.40 – 18.60			
FIXED	FIXED	Fixed links 17.7 - 19.7 GHz	
FIXED-SATELLITE (space-to-Earth) 5.484A 5.516B	FIXED-SATELLITE (space-to-Earth) 5.484A 5.516B	BSS Feeder links 17.7 – 19.7 GHz	
MOBILE	NF47		
18.60 – 18.80			
FIXED	FIXED	Fixed links 17.7 - 19.7 GHz	
FIXED-SATELLITE (space-to-Earth) 5.522B	FIXED-SATELLITE (space-to-Earth) 5.522B	BSS Feeder Links 17.7 – 19.7 GHz	
	NF47		
MOBILE except aeronautical mobile			

EARTH EXPLORATION- SATELLITE (passive)	EARTH EXPLORATION- SATELLITE (passive)		
Space research (passive)	Space research (passive)	Passive Sensing	
5.522A 5.522C	5.522A		
18.80 – 19.30			
FIXED	FIXED	Fixed links 17.7 - 19.7 GHz	
FIXED-SATELLITE (space-to- Earth) 5.523A 5.516B	FIXED-SATELLITE (space-to- Earth) 5.523A 5.516B	BSS Feeder links 17.7 – 19.7 GHz	
	NF47		
MOBILE			
19.30 – 19.70			
FIXED	FIXED	Fixed links 17.7 - 19.7 GHz	

FIXED-SATELLITE (space-to-Earth) (Earth-to-space) 5.523B 5.523C 5.523D 5.523E MOBILE	FIXED-SATELLITE (space-to-Earth) (Earth-to-space) 5.523B 5.523C 5.523D 5.523E NF47	BSS Feeder links 17.7 – 19.7 GHz	
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)	FIXED-SATELLITE (space-to-Earth) 5.484A 5.516B	GSO/FSS	

5.524 5.525 5.526 5.527 5.528	5.525 5.526		
20.20 – 21.20			
FIXED-SATELLITE (space-to-Earth)	FIXED-SATELLITE (space-to-Earth)		
MOBILE-SATELLITE (space-to-Earth)	MOBILE-SATELLITE (space-to-Earth)		
Standard frequency and time signal- satellite (space-to-Earth)	Standard frequency and time signal- satellite (space-to-Earth)		
5.524			
21.20 – 21.40			
EARTH EXPLORATION-SATELLITE (passive)	EARTH EXPLORATION-SATELLITE (passive)		
FIXED	FIXED	Fixed links	
	NF48		
SPACE RESEARCH (passive)	SPACE RESEARCH (passive)	Passive Sensing	

MOBILE			
21.40 – 22.00			
FIXED	FIXED	Fixed links	
	NF48		
MOBILE			
BROADCASTING-SATELLITE	BROADCASTING-SATELLITE		
5.530	5.530		

22.00 – 24.75 GHz

ITU Region 1 Allocations	South African Allocations	Typical Applications	Comments
22.00 – 22.21 FIXED MOBILE except aeronautical mobile 5.149	FIXED NF48	Fixed links	
22.21 – 22.50 EARTH EXPLORATION-SATELLITE (passive) FIXED MOBILE except aeronautical mobile RADIO ASTRONOMY	EARTH EXPLORATION-SATELLITE (passive) FIXED NF48 RADIO ASTRONOMY	Fixed links	

SPACE RESEARCH (passive) 5.149 5.532	SPACE RESEARCH (passive) 5.149 5.532	Passive Sensing	
22.50 – 22.55 FIXED MOBILE	FIXED NF48	Fixed links	
22.55 – 23.55 FIXED INTER-SATELLITE 5.338A MOBILE 5.149	FIXED NF48	Fixedlinks	
23.55 – 23.60 FIXED	FIXED NF48		

MOBILE			
23.60 – 24.00			
EARTH EXPLORATION- SATELLITE (passive)	EARTH EXPLORATION- SATELLITE (passive)		
RADIO ASTRONOMY	RADIO ASTRONOMY		
SPACE RESEARCH (passive)	SPACE RESEARCH (passive)	Passive Sensing	
5.340	5.340		
24.00 – 24.05		ISM (24 - 24.25 GHz)	Government Gazette No 31290, Notice No 926 of 2008 refers
AMATEUR	AMATEUR		
AMATEUR-SATELLITE	AMATEUR-SATELLITE		
5.150	5.150		
24.05 – 24.25			

RADIOLOCATION	RADIOLOCATION	ISM (24 - 24.25 GHz)	Government Gazette No 31290, Notice No 926 of 2008 refers
Amateur	Amateur		
Earth exploration-satellite (active)	Earth exploration-satellite (active)		
5.150	5.150		
24.25 – 24.45			
FIXED	FIXED		
24.45 – 24.65			
FIXED	FIXED	Fixed links	PTP and PTMP systems
INTER-SATELLITE	NF49		
24.65 – 24.75			
FIXED	FIXED	Fixed links	PTP and PTMP systems

INTER-SATELLITE	NF49				
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24.75 – 29.9 GHz

ITU Region 1 Allocations	South African Allocations	Typical Applications	Comments
24.75 – 25.25 FIXED	FIXED NF49	Fixed links	PTP and PTMP systems
25.25 – 25.50 FIXED INTER-SATELLITE 5.536 MOBILE Standard frequency and time signal- satellite (Earth-to-space)	FIXED NF49	Fixed links	PTP and PTMP systems
25.50 – 27.00			

EARTH EXPLORATION – SATELLITE (space-to-Earth) 5.536A 5.536B FIXED INTER-SATELLITE 5.536 MOBILE SPACE RESEARCH (space-to- Earth) 5.536A 5.536C Standard frequency and time signal- satellite (Earth-to-space)	EARTH EXPLORATION – SATELLITE (space-to-Earth) 5.536A FIXED NF49	National Operational Satellite System (NPOESS) Polar-orbiting Environmental Fixed links	PTP and PTMP systems
27.00 – 27.50 FIXED INTER-SATELLITE 5.536 MOBILE	FIXED		

27.50 – 28.50 FIXED 5.537A FIXED-SATELLITE (Earth-to-space) 5.484A 5.539 5.516B MOBILE 5.538 5.540	FIXED NF50 FIXED-SATELLITE (Earth-to-space) 5.484A 5.539 5.516B 5.538 5.540	LMDS 27.5 - 28.35 GHz FSS/BSS feeder links 28.35 - 28.6 GHz	
28.50 – 29.10 FIXED FIXED-SATELLITE (Earth-to-space) 5.484A 5.523A 5.539 5.516B 5.538 MOBILE Earth exploration-satellite (Earth-to-space) 5.541 5.540	FIXED FIXED-SATELLITE (Earth-to-space) 5.484A 5.539 5.516B 5.538 5.540	NGSO FSS (28.6 - 29.1 GHz) and FSS/ BSS feeder links (28.35 - 28.6 GHz)	

29.10 – 29.50 FIXED FIXED-SATELLITE (Earth-to-space) 5.523C 5.523E 5.535A 5.539 5.541A 5.516B MOBILE Earth exploration-satellite (Earth-to-space) 5.541 5.540	FIXED FIXED-SATELLITE (Earth-to-space) 5.484A 5.539 5.516B 5.538 5.540	LMDS (29.1 - 29.25 GHz) FSS/BSS feeder links (29.25 - 30 GHz)	
29.50 – 29.90 FIXED-SATELLITE (Earth-to-space) 5.484A 5.539 5.516B Earth exploration-satellite (Earth-to-space) 5.541 Mobile-satellite (Earth-to-space) 5.540 5.542	FIXED-SATELLITE (Earth-to-space) 5.484A 5.539 5.516B	FSS/BSS feeder links 29.25 - 30 GHz	

29.90 – 34.20 GHz

ITU Region 1 Allocations	South African Allocations	Typical Applications	Comments
29.90 – 30.00 FIXED-SATELLITE (Earth-to-space) 5.484A 5.539 5.516B MOBILE-SATELLITE (Earth-to-space) Earth exploration-satellite (Earth-to-space) 5.541 5.543 5.525 5.526 5.527 5.538 5.542	FIXED-SATELLITE (Earth-to-space) 5.484A 5.516B 5.538 MOBILE-SATELLITE (Earth-to-space) 5.525 5.526 5.527 5.542	FSS/BSS feeder links 29.25 - 30 GHz	
30.00 – 31.00 FIXED-SATELLITE (Earth-to-space) 5.338A MOBILE-SATELLITE (Earth-to-space)	FIXED-SATELLITE (Earth-to-space) 5.338A MOBILE-SATELLITE (Earth-to-space)		

Standard frequency and time signal - satellite (space-to-Earth)			
5.542			
31.00 – 31.30			
FIXED 5.543A 5.338A	FIXED 5.338A	LPVS (31.0 - 31.056 GHz)	Government Gazette 20087 (Notice 939, 15 May 1999)
MOBILE			
Standard frequency and time signal - satellite (space-to-Earth)			
Space research 5.544			
5.149			
31.30 – 31.50			
EARTH EXPLORATION- SATELLITE (passive)	EARTH EXPLORATION- SATELLITE (passive)		

RADIO ASTRONOMY	RADIO ASTRONOMY		
SPACE RESEARCH (passive)			
5.340	5.340		
31.50 – 31.80			
EARTH EXPLORATION- SATELLITE (passive)			
RADIO ASTRONOMY	RADIO ASTRONOMY		
SPACE RESEARCH (passive)		Passive Sensing	
Fixed	FIXED 5.546	HPVS (31.5 - 31.8 GHz)	
Mobile except aeronautical mobile	MOBILE except Aeronautical Mobile 5.546		
5.149 5.546	5.149		
31.80 – 32.00			

FIXED 5.547A	FIXED 5.547A	HDFS 31.8 - 33.4 GHz	
RADIONAVIGATION	RADIONAVIGATION 5.548		
SPACE RESEARCH (deep space) (space-to-Earth)			
5.547 5.548	5.547		
32.00 – 32.30			
FIXED 5.547A	FIXED 5.547A	HDFS 31.8 - 33.4 GHz	
RADIONAVIGATION	RADIONAVIGATION		
SPACE RESEARCH (deep space) (space-to-Earth)	SPACE RESEARCH (deep space) (space-to-Earth)		
5.547 5.548	5.547 5.548		
32.30 - 33.00			
FIXED 5.547A	FIXED 5.547A	HDFS 31.8 - 33.4 GHz	

INTER-SATELLITE RADIONAVIGATION			
5.547 5.548	5.547		
33.00 – 33.40			
FIXED 5.547A	FIXED 5.547A	HDFS 31.8 - 33.4 GHz	
RADIONAVIGATION	RADIONAVIGATION		
5.547	5.547		
33.40 – 34.20			
RADIOLOCATION	RADIOLOCATION		
5.549			

34.20 – 40.00 GHz

ITU Region 1 Allocations	South African Allocations	Typical Applications	Comments
34.20 – 34.70 RADIOLOCATION SPACE RESEARCH (deep space) (Earth-to-space) 5.549	RADIOLOCATION SPACE RESEARCH (deep space) (Earth-to-space)		
34.70 – 35.20 RADIOLOCATION Space Research 5.549 35.20 – 35.50 METEROLOGICAL AIDS	RADIOLOCATION Space Research METEROLOGICAL AIDS		

RADIOLOCATION 5.549	RADIOLOCATION		
35.50 – 36.00 METEROLOGICAL AIDS EARTH EXPLORATION- SATELLITE (active) RADIOLOCATION SPACE RESEARCH (active) 5.549 5.549A	METEROLOGICAL AIDS EARTH EXPLORATION- SATELLITE (active) RADIOLOCATION SPACE RESEARCH (active) 5.549A		
36.00 – 37.00 EARTH EXPLORATION- SATELLITE (passive) FIXED	EARTH EXPLORATION- SATELLITE (passive) FIXED		

MOBILE	MOBILE		
SPACE RESEARCH (passive)	SPACE RESEARCH (passive)	RADIO ASTRONOMY 36.43 - 36.5 GHz Passive Sensing	
5.149 5.550A	5.149 5.550A		
37.00 – 37.50			
FIXED	FIXED NF51	Fixed links	
MOBILE			
SPACE RESEARCH (space-to-Earth)			
5.547	5.547		
37.50 – 38.00			
FIXED	FIXED NF51	Fixed links	
FIXED – SATELLITE (space-to-Earth)			