

MOBILE			
SPACE RESEARCH (space-to-Earth)			
Earth exploration-satellite (space-to Earth)			
5.547	5.547		
38.00 – 39.50			
FIXED	FIXED NF51	Fixed links	
FIXED-SATELLITE (space-to-Earth)			
MOBILE			
Earth exploration-satellite (space-to Earth)			
5.547	5.547		
39.50 – 40.00			

FIXED	FIXED		
FIXED-SATELLITE (space-to-Earth) 5.516B	FIXED-SATELLITE (space-to-Earth) 5.516B		
MOBILE			
MOBILE-SATELLITE (space-to-Earth)			
Earth exploration-satellite (space-to Earth)			
5.547	5.547		

40.00 – 47.50 GHz

ITU Region 1 Allocations	South African Allocations	Typical Applications	Comments
40.00 – 40.50 EARTH EXPLORATION SATELLITE (Earth-to-space) FIXED FIXED-SATELLITE (space-to-Earth) 5.516B MOBILE MOBILE-SATELLITE (space-to-Earth) SPACE RESEARCH (Earth-to-space) Earth exploration-satellite (space-to Earth)	EARTH EXPLORATION SATELLITE (Earth-to-space) FIXED FIXED-SATELLITE (space-to-Earth) 5.516B MOBILE MOBILE-SATELLITE (space-to-Earth) SPACE RESEARCH (Earth-to-space) Earth exploration-satellite (space-to Earth)		
40.50 – 41.00			

FIXED	FIXED		
FIXED-SATELLITE (space-to-Earth)	FIXED-SATELLITE (space-to-Earth)		
BROADCASTING	BROADCASTING		
BROADCASTING-SATELLITE	BROADCASTING-SATELLITE		
Mobile	Mobile		
5.547	5.547		
41.00 – 42.50			
FIXED	FIXED		
FIXED-SATELLITE (space-to-Earth) 5.516B	FIXED-SATELLITE (space-to-Earth) 5.516B		
BROADCASTING	BROADCASTING		
BROADCASTING-SATELLITE	BROADCASTING-SATELLITE		

Mobile			
5.547 5.551H 5.551I	5.547 5.551H 5.551I		
42.50 – 43.50			
FIXED	FIXED		
FIXED-SATELLITE (Earth-to-space) 5.552	FIXED-SATELLITE (Earth-to-space) 5.552		
MOBILE except aeronautical mobile	MOBILE except aeronautical mobile		
RADIO ASTRONOMY	RADIO ASTRONOMY		
5.149 5.547	5.149 5.547		
43.50 – 47.00			
MOBILE 5.553	MOBILE 5.553		
MOBILE-SATELLITE	MOBILE-SATELLITE		

RADIONAVIGATION	RADIONAVIGATION		
RADIONAVIGATION-SATELLITE	RADIONAVIGATION-SATELLITE		
5.554	5.554		
47.00 – 47.20			
AMATEUR	AMATEUR		
AMATEUR-SATELLITE	AMATEUR-SATELLITE		
47.20 – 47.50			
FIXED	FIXED		
FIXED-SATELLITE (Earth-to-space) 5.552	FIXED-SATELLITE (Earth-to-space) 5.552		
MOBILE	MOBILE		
5.552A	5.552A		

47.50 – 51.40 GHz

ITU Region 1 Allocations	South African Allocations	Typical Applications	Comments
47.50 – 47.90 FIXED FIXED-SATELLITE (Earth-to-space) 5.552 (space-to-Earth) 5.516B 5.554A MOBILE	FIXED FIXED-SATELLITE (Earth-to-space) 5.552 (space-to-Earth) 5.516B 5.554A MOBILE		
47.90 – 48.20 FIXED FIXED-SATELLITE (Earth-to-space) 5.552 MOBILE 5.552A	FIXED FIXED-SATELLITE (Earth-to-space) 5.552 MOBILE 5.552A		

48.20 – 48.54			
FIXED	FIXED		
FIXED-SATELLITE (Earth-to-space) 5.552 (space-to-Earth) 5.516B 5.554A 5.555B	FIXED-SATELLITE (Earth-to-space) 5.552 (space-to-Earth) 5.516B 5.554A 5.555B		
MOBILE	MOBILE		
48.54 - 49.44			
FIXED	FIXED		
FIXED-SATELLITE (Earth-to-space) 5.552	FIXED-SATELLITE (Earth-to-space) 5.552		
MOBILE	MOBILE		
5.149 5.340	5.149 5.340		
49.44 - 50.20			
FIXED	FIXED		

FIXED-SATELLITE (Earth-to-space) 5.552 5.338A (space-to-Earth) 5.516B 5.554A 5.555B	FIXED-SATELLITE (Earth-to-space) 5.552 5.338A (space-to-Earth) 5.516B 5.554A 5.555B		
MOBILE	MOBILE		
50.20 – 50.40			
EARTH EXPLORATION-SATELLITE (passive)	EARTH EXPLORATION-SATELLITE (passive)		
SPACE RESEARCH (passive)	SPACE RESEARCH (passive)	Passive Sensing	
5.340	5.340		
50.40 – 51.40			
FIXED	FIXED		
FIXED-SATELLITE (Earth-to-space) 5.338A	FIXED-SATELLITE (Earth-to-space) 5.338A		
MOBILE	MOBILE		
Mobile-Satellite (Earth-to-space)	Mobile-Satellite (Earth-to-space)		

51.40 – 58.20 GHz

ITU Region 1 Allocations	South African Allocations	Typical Applications	Comments
51.4 – 52.60 FIXED 5.338A MOBILE 5.547 5.556	FIXED 5.338A MOBILE 5.547		
52.60 – 54.25 EARTH EXPLORATION- SATELLITE (passive) SPACE RESEARCH (passive) 5.340 5.556	EARTH EXPLORATION- SATELLITE (passive) SPACE RESEARCH (passive) 5.340	Passive Sensing at 53.6 - 59.3 GHz	
54.25 – 55.78			

EARTH EXPLORATION- SATELLITE (passive) INTER-SATELLITE 5.556A SPACE RESEARCH (passive)	EARTH EXPLORATION- SATELLITE (passive) SPACE RESEARCH (passive)		
55.78 – 56.90 EARTH EXPLORATION- SATELLITE (passive) FIXED 5.557A INTER-SATELLITE 5.556A MOBILE 5.558 SPACE RESEARCH (passive) 5.547	EARTH EXPLORATION- SATELLITE (passive) FIXED 5.557A MOBILE 5.558 SPACE RESEARCH (passive) 5.547		
56.90 – 57.00			

EARTH EXPLORATION- SATELLITE (passive) FIXED INTER-SATELLITE 5.558A MOBILE 5.558 SPACE RESEARCH (passive) 5.547	EARTH EXPLORATION- SATELLITE (passive) FIXED MOBILE 5.558 SPACE RESEARCH (passive) 5.547		
57.00 – 58.20 EARTH EXPLORATION- SATELLITE (passive) FIXED INTER-SATELLITE 5.556A MOBILE 5.558	EARTH EXPLORATION- SATELLITE (passive) FIXED MOBILE 5.558		

SPACE RESEARCH (passive)	SPACE RESEARCH (passive)		
5.547	5.547		
58.20 – 59.00			
EARTH EXPLORATION- SATELLITE (passive)	EARTH EXPLORATION- SATELLITE (passive)		
FIXED	FIXED		
MOBILE	MOBILE		
SPACE RESEARCH (passive)	SPACE RESEARCH (passive)		
5.547 5.556	5.547		
59.00 – 59.30			
EARTH EXPLORATION- SATELLITE (passive)	EARTH EXPLORATION- SATELLITE (passive)		
FIXED	FIXED		

INTER-SATELLITE 5.556A			
MOBILE 5.558	MOBILE 5.558		
RADIOLOCATION 5.559	RADIOLOCATION 5.559		
SPACE RESEARCH (passive)	SPACE RESEARCH (passive)		
59.30 – 64.00			
FIXED	FIXED		
INTER-SATELLITE			
MOBILE 5.558	MOBILE 5.558		
RADIOLOCATION	RADIOLOCATION		
5.559 5.138	5.559 5.138		
64.00 – 65.00			
FIXED	FIXED		

INTER-SATELLITE			
MOBILE except aeronautical mobile	MOBILE except aeronautical mobile		
5.547 5.556	5.547		
65.00 – 66.00			
EARTH SATELLITE EXPLORATION-	EARTH SATELLITE EXPLORATION-		
FIXED	FIXED		
INTER-SATELLITE			
MOBILE except aeronautical mobile	MOBILE except aeronautical mobile		
SPACE RESEARCH	SPACE RESEARCH		
5.547	5.547		

66.00 – 81.00 GHz

ITU Region 1 Allocations	South African Allocations	Typical Applications	Comments
66.00 – 71.00 INTER-SATELLITE MOBILE 5.553 5.558 MOBILE-SATELLITE RADIONAVIGATION RADIONAVIGATION-SATELLITE 5.554	MOBILE 5.553 5.558 MOBILE-SATELLITE RADIONAVIGATION RADIONAVIGATION-SATELLITE 5.554		
71.00 – 74.00 FIXED FIXED-SATELLITE (space-to-Earth)	FIXED FIXED-SATELLITE (space-to-Earth)	Point to point Fixed Wireless Systems: 71 – 76 GHz	Paired with 81-86 GHz

MOBILE	MOBILE		
MOBILE-SATELLITE (space-to-Earth)	MOBILE-SATELLITE (space-to-Earth)		
	NF52		
74.00 – 76.00			
FIXED	FIXED NF52	Point to point Fixed Wireless Systems: 71 GHz – 76 GHz	Paired with 81GHz - 86 GHz
FIXED-SATELLITE (space-to-Earth)	FIXED-SATELLITE (space-to-Earth)		
MOBILE	MOBILE		
BROADCASTING	BROADCASTING		
BROADCASTING-SATELLITE	BROADCASTING-SATELLITE		
Space Research (space-to-Earth)	Space Research (space-to-Earth)		
5.561	5.561		

76.00 - 77.50			
FIXED	FIXED		
RADIO ASTRONOMY	RADIO ASTRONOMY		
RADIO LOCATION	RADIO LOCATION	76 – 77 GHz Road Transport and Traffic Telematics	Government Gazette No. 31290 Notice No. 926 of 29 July 2008 refers
Amateur	Amateur		
Amateur Satellite	Amateur Satellite		
Space Research (space-to-Earth)	Space Research (space-to-Earth)		
5.149	5.149		
77.50 – 78.00			
AMATEUR	AMATEUR		
AMATEUR-SATELLITE	AMATEUR-SATELLITE		

Radio astronomy	Radio astronomy		
Space research (space-to-Earth)	Space research (space-to-Earth)		
5.149	5.149		
78.00 – 79.00			
RADIOLOCATION	RADIOLOCATION		
Amateur	Amateur		
Amateur-satellite	Amateur-satellite		
Radio astronomy	Radio astronomy NF2		
Space research (space-to-Earth)	Space research (space-to-Earth)		
5.149 5.560	5.149 5.560		
79.00 – 81.00			
RADIO ASTRONOMY	RADIO ASTRONOMY		

RADIOLOCATION	RADIOLOCATION		
Amateur	Amateur		
Amateur-satellite	Amateur-satellite		
Space research (space-to-Earth)	Space research (space-to-Earth)		
5.149	5.149		

81.00 – 111.8 GHz

ITU Region 1 Allocations	South African Allocations	Typical Applications	Comments
81.00 – 84.00			
FIXED	FIXED NF52	Point to point Fixed Wireless Systems: 81 – 86 GHz	Paired with 71-76 GHz
FIXED-SATELLITE (Earth-to-space)	FIXED-SATELLITE (Earth-to-space)		
MOBILE	MOBILE		
MOBILE-SATELLITE (Earth-to-space)	MOBILE-SATELLITE (Earth-to-space)		
RADIO ASTRONOMY	RADIO ASTRONOMY		
Space Research (space-to-Earth)	Space Research (space-to-Earth)		
5.149 5.561A	5.149 5.561A		
84.00 – 86.00			

FIXED	FIXED NF52	Point to point Fixed Wireless Systems: 81 – 86 GHz	Paired with 71-76 GHz
FIXED-SATELLITE (Earth-to-space) 5.561A	FIXED-SATELLITE (Earth-to-space) 5.561A		
MOBILE	MOBILE		
RADIO ASTRONOMY	RADIO ASTRONOMY		
5.149	5.149		
86.00 – 92.00			
EARTH EXPLORATION-SATELLITE (passive)	EARTH EXPLORATION-SATELLITE (passive)	Passive applications	
RADIO ASTRONOMY 5.149	RADIO ASTRONOMY 5.149		
SPACE RESEARCH (passive)	SPACE RESEARCH (passive)		
5.340	5.340		
92.00 – 94.00			

FIXED	FIXED		
MOBILE	MOBILE		
RADIO ASTRONOMY	RADIO ASTRONOMY		
RADIOLOCATION	RADIOLOCATION		
5.149	5.149		
94.00 – 94.10			
EARTH EXPLORATION- SATELLITE (active)	EARTH EXPLORATION- SATELLITE (active)		
RADIOLOCATION	RADIOLOCATION	Short range radar. Cloud profiler radar	
SPACE RESEARCH (active)	SPACE RESEARCH (active)		
Radio astronomy	Radio astronomy		
5.562 5.562A	5.562 5.562A		

94.10 – 95.00			
FIXED	FIXED		
MOBILE	MOBILE		
RADIO ASTRONOMY	RADIO ASTRONOMY		
RADIOLOCATION	RADIOLOCATION	Short range radar.	
5.149	5.149		
95.00 – 100.00			
FIXED	FIXED		
MOBILE	MOBILE		
RADIO ASTRONOMY	RADIO ASTRONOMY		
RADIOLOCATION	RADIOLOCATION		
RADIONAVIGATION	RADIONAVIGATION		

RADIONAVIGATION-SATELLITE 5.149 5.554	RADIONAVIGATION-SATELLITE 5.149 5.554		
100.00 - 102.00 EARTH EXPLORATION- SATELLITE (passive) RADIO ASTRONOMY SPACE RESEARCH (passive) 5.340 5.341	EARTH EXPLORATION- SATELLITE (passive) RADIO ASTRONOMY SPACE RESEARCH (passive) 5.340 5.341	Passive Sensing	
102.00 - 105.00 FIXED MOBILE RADIO ASTRONOMY 5.149 5.341	FIXED MOBILE RADIO ASTRONOMY 5.149 5.341		

105.00 - 109.50 FIXED MOBILE RADIO ASTRONOMY SPACE RESEARCH (passive) 5.562B 5.149 5.341	FIXED MOBILE RADIO ASTRONOMY SPACE RESEARCH (passive) 5.562B 5.149 5.341		
109.50 - 111.8 EARTH EXPLORATION- SATELLITE (passive) RADIO ASTRONOMY SPACE RESEARCH (passive) 5.149 5.340 5.341	EARTH EXPLORATION- SATELLITE (passive) RADIO ASTRONOMY SPACE RESEARCH (passive) 5.149 5.340 5.341	Passive Sensing	

111.8 - 119.98 GHz

ITU Region 1 Allocations	South African Allocations	Typical Applications	Comments
111.8 - 114.25 FIXED MOBILE RADIO ASTRONOMY SPACE RESEARCH (passive) 5.562B 5.149 5.341	FIXED MOBILE RADIO ASTRONOMY SPACE RESEARCH (passive) 5.562B 5.149 5.341		
114.25 – 116 EARTH EXPLORATION- SATELLITE (passive) RADIO ASTRONOMY	EARTH EXPLORATION- SATELLITE (passive) RADIO ASTRONOMY		

SPACE RESEARCH (passive) 5.149 5.340 5.341	SPACE RESEARCH (passive) 5.149 5.340 5.341	Passive Sensing at 114.25 - 122.25 GHz	
116 - 119.98 EARTH EXPLORATION- SATELLITE (passive) INTER-SATELLITE 5.562C SPACE RESEARCH (passive) 5.341	EARTH EXPLORATION- SATELLITE (passive) SPACE RESEARCH (passive) 5.341	Passive sensing	

119.98 - 151.5 GHz

ITU Region 1 Allocations	South African Allocations	Typical Applications	Comments
119.98 - 122.25 EARTHEXPLORATION-SATELLITE (passive) INTER-SATELLITE 5.562C SPACE RESEARCH (passive) 5.138 5.341	EARTH EXPLORATION-SATELLITE (passive) SPACE RESEARCH (passive) 5.138 5.341	Passive sensing 114.25 – 122.25 GHz	
122.25 – 123 FIXED INTER-SATELLITE MOBILE 5.558	FIXED MOBILE 5.558		

Amateur	Amateur		
5.138	5.138		
123 – 130			
FIXED- SATELLITE (space-to-Earth)	FIXED- SATELLITE (space-to-Earth)		
MOBILE-SATELLITE (space-to-Earth)	MOBILE-SATELLITE (space-to-Earth)		
RADIONAVIGATION	RADIONAVIGATION		
RADIONAVIGATION-SATELLITE	RADIONAVIGATION-SATELLITE		
Radio Astronomy	Radio Astronomy		
5.149 5.554	5.149 5.554		
130 – 134			
EARTH EXPLORATION-SATELLITE (active) 5.562E	EARTH EXPLORATION-SATELLITE (active) 5.562E		