

5.149 5.341 5.385 5.386 5.387 5.388			1755-1850 FIXED MOBILE	1755-1850	
1930-1970 FIXED MOBILE 5.388A	1930-1970 FIXED MOBILE 5.388A Mobile-satellite (Earth-to-space)	1930-1970 FIXED MOBILE 5.388A	G42 1850-2025	1850-1990 FIXED MOBILE	RF Devices (15) Personal Communications (24) Fixed Microwave (101)
5.388	5.388	5.388			
1970-1980 FIXED MOBILE 5.388A					
5.388					
1980-2010 FIXED MOBILE MOBILE-SATELLITE (Earth-to-space) 5.351A				1990-2025 MOBILE-SATELLITE (Earth-to-space)	Satellite Communications (25)
5.388 5.389A 5.389B 5.389F					
2010-2025 FIXED MOBILE 5.388A	2010-2025 FIXED MOBILE MOBILE-SATELLITE (Earth-to-space)	2010-2025 FIXED MOBILE 5.388A		NG156	
5.388	5.388 5.389C 5.389D 5.389E 5.390	5.388			
2025-2110 SPACE OPERATION (Earth-to-space) (space-to-space) EARTH EXPLORATION-SATELLITE (Earth-to-space) (space-to-space) FIXED MOBILE 5.391 SPACE RESEARCH (Earth-to-space) (space-to-space)			2025-2110 SPACE OPERATION (Earth-to-space) (space-to-space) EARTH EXPLORATION- SATELLITE (Earth-to- space) (space-to-space) SPACE RESEARCH (Earth- to-space) (space-to-space) 5.391 5.392 US90 US222 US346 US347	2025-2110 FIXED NG23 NG118 MOBILE 5.391	TV Auxiliary Broadcasting (74F) Cable TV Relay (78) Local TV Transmission (101J)
5.392				5.392 US90 US222 US346 US347	

International Table			United States Table		FCC Rule Part(s)
Region 1	Region 2	Region 3	Federal Government	Non-Federal Government	
2110-2120 FIXED MOBILE 5.388A SPACE RESEARCH (deep space) (Earth-to-space)			2110-2120	2110-2150 FIXED NG23 MOBILE	Public Mobile (22) Fixed Microwave (101)
5.388			US252		
2120-2160 FIXED MOBILE 5.388A	2120-2160 FIXED MOBILE 5.388A Mobile-satellite (space-to-Earth)	2120-2160 FIXED MOBILE 5.388A	2120-2200	US252 NG153 2150-2160 FIXED NG23	Domestic Public Fixed (21) Fixed Microwave (101)
5.388	5.388	5.388			
2160-2170 FIXED MOBILE 5.388A	2160-2170 FIXED MOBILE MOBILE-SATELLITE (space-to-Earth)	2160-2170 FIXED MOBILE 5.388A		2160-2165 FIXED NG23 MOBILE	Domestic Public Fixed (21) Public Mobile (22) Fixed Microwave (101)
5.388 5.392A	5.388 5.389C 5.389D 5.389E 5.390	5.388		NG153	
2170-2200 FIXED MOBILE MOBILE-SATELLITE (space-to-Earth) 5.351A				2165-2200 MOBILE-SATELLITE (space-to-Earth)	Satellite Communications (25)
5.388 5.389A 5.389F 5.392A					
2200-2290 SPACE OPERATION (space-to-Earth) (space-to-space) EARTH EXPLORATION-SATELLITE (space-to-Earth) (space-to-space) FIXED MOBILE 5.391 SPACE RESEARCH (space-to-Earth) (space-to-space)			2200-2290 SPACE OPERATION (space-to-Earth) (space-to-space) EARTH EXPLORATION- SATELLITE (space-to- Earth) (space-to-space) FIXED (line-of-sight only)	NG23 NG168 2200-2290	

<p>5.392 2290-2300 FIXED MOBILE except aeronautical mobile SPACE RESEARCH (deep space) (space-to-Earth)</p>	<p>MOBILE (line-of-sight only including aeronautical telemetry, but excluding flight testing of manned aircraft) SPACE RESEARCH (space-to-Earth) (space-to-space)</p>	<p>US303 2290-2300 SPACE RESEARCH (deep space) (space-to-Earth)</p>	
<p>2300-2450 FIXED MOBILE Amateur Radiolocation</p>	<p>2300-2450 FIXED MOBILE Amateur Radiolocation</p>	<p>2300-2305 Amateur</p>	<p>Amateur (97) Note: 2300-2305 MHz became non-Federal Government exclusive spectrum in August 1995</p>
<p>2305-2310 FIXED MOBILE except aeronautical mobile RADIOLOCATION Amateur</p>	<p>2305-2310 FIXED MOBILE except aeronautical mobile RADIOLOCATION Amateur</p>	<p>2305-2310 FIXED MOBILE except aeronautical mobile RADIOLOCATION Amateur</p>	<p>Wireless Communications (27) Amateur (97)</p>
<p>US338 G123 2310-2360 Fixed Mobile US339 Radiolocation G2 G120</p>	<p>US338 G123 2310-2360 Fixed Mobile US339 Radiolocation G2 G120</p>	<p>US338 2310-2320 FIXED MOBILE US339 RADIOLOCATION BROADCASTING- SATELLITE US327</p>	<p>Wireless Communications (27)</p>
<p>5.396 5.282 5.393 5.394 5.396</p>	<p>5.396 US327 US328 See next page</p>	<p>5.396 See next page for 2345-2450 MHz</p>	<p>See next page for 2345-2450 MHz</p>
<p>5.150 5.282 5.395</p>	<p>5.150 5.282 5.393 5.394 5.396</p>	<p>5.396 US338 2320-2345 BROADCASTING- SATELLITE US327 Mobile US276 US328</p>	<p>Satellite Communications (25)</p>

International Table		United States Table		FCC Rule Part(s)
Region 1	Region 2	Federal Government	Non-Federal Government	
See previous page for 2300-2450 MHz		Region 3		
2345-2655 MHz (UHF)				
Page 51				
		See previous page for 2310-2360 MHz	2345-2360 FIXED MOBILE US339 RADIOLOCATION BROADCASTING- SATELLITE US327	Wireless Communications (27)
		2360-2385 MOBILE US276 RADIOLOCATION G2 Fixed	5.396 2360-2385 MOBILE US276	
		G120		
		2385-2390	2385-2390 FIXED MOBILE NG174	Wireless Communications (27)
		US363	US363	
		2390-2400	2390-2400 AMATEUR	RF Devices (15) Amateur (97)
		G122		
		2400-2402	2400-2402 Amateur	ISM Equipment (18) Amateur (97)
		5.150 G123	5.150 5.282	
		2402-2417	2402-2417 AMATEUR	RF Devices (15) ISM Equipment (18) Amateur (97)
		5.150 G122	5.150 5.282	
		2417-2450 Radiolocation G2	2417-2450 Amateur	ISM Equipment (18) Amateur (97)
		5.150 G124	5.150 5.282	
		2450-2483.5	2450-2483.5 FIXED MOBILE Radiolocation	ISM Equipment (18) Private Land Mobile (90) Fixed Microwave (101)
2450-2483.5 FIXED MOBILE Radiolocation	2450-2483.5 FIXED MOBILE RADIOLOCATION			
5.150 5.397	5.150 5.394		5.150 US41	

2483.5-2500 FIXED MOBILE MOBILE-SATELLITE (space-to-Earth) 5.351A Radiolocation	2483.5-2500 FIXED MOBILE MOBILE-SATELLITE (space-to-Earth) 5.351A RADIOLOCATION RADIO DETERMINATION- SATELLITE (space-to- Earth) 5.398	2483.5-2500 FIXED MOBILE MOBILE-SATELLITE (space-to-Earth) 5.351A RADIOLOCATION Radiodetermination-satellite (space-to-Earth) 5.398	2483.5-2500 MOBILE-SATELLITE (space-to-Earth) US319 RADIO DETERMINATION- SATELLITE (space-to- Earth) 5.398	2483.5-2500 MOBILE-SATELLITE (space-to-Earth) US319 RADIO DETERMINATION- SATELLITE (space-to- Earth) 5.398	ISM Equipment (18) Satellite Communications (25) Private Land Mobile (90) Fixed Microwave (101)
5.150 5.371 5.397 5.398 5.399 5.400 5.402	5.150 5.402	5.150 5.400 5.402	5.150 5.402 US41	5.150 5.402 US41 NG147	
2500-2520 FIXED 5.409 5.411 MOBILE except aeronautical mobile 5.384A MOBILE-SATELLITE (space- to-Earth) 5.351A 5.403	2500-2520 FIXED 5.409 5.411 MOBILE-SATELLITE (space-to-Earth) 5.415 MOBILE except aeronautical mobile 5.384A MOBILE-SATELLITE (space-to-Earth) 5.351A 5.403			2500-2655 FIXED 5.409 5.411 US205 FIXED-SATELLITE (space-to-Earth) NG102 MOBILE except aeronautical mobile BROADCASTING- SATELLITE NG101	Domestic Public Fixed (21) Auxiliary Broadcasting (74)
5.405 5.407 5.412 5.414	5.404 5.407 5.414 5.415A				
2520-2655 FIXED 5.409 5.410 5.411 MOBILE except aeronautical mobile 5.384A BROADCASTING- SATELLITE 5.413 5.416	2520-2655 FIXED 5.409 5.411 FIXED-SATELLITE (space-to-Earth) 5.415 MOBILE except aeronautical mobile 5.384A BROADCASTING- SATELLITE 5.413 5.416	2520-2535 FIXED 5.409 5.411 FIXED-SATELLITE (space-to-Earth) 5.415 MOBILE except aeronautical mobile 5.384A BROADCASTING- SATELLITE 5.413 5.416			
5.339 5.403 5.405 5.412 5.418 5.418B 5.418C	5.339 5.403 5.418B 5.418C	5.339 5.418 5.418A 5.418B 5.418C	5.339 US205 US269	5.339 US269	

2655-3700 MHz (UHF/SHF)				Page 53	
International Table			United States Table		
Region 1	Region 2	Region 3	Federal Government	Non-Federal Government	FCC Rule Part(s)
2655-2670 FIXED 5.409 5.410 5.411 MOBILE except aeronautical mobile 5.384A BROADCASTING- SATELLITE 5.413 5.416 Earth exploration-satellite (passive) Radio astronomy Space research (passive)	2655-2670 FIXED 5.409 5.411 FIXED-SATELLITE (Earth-to-space) (space-to-Earth) 5.415 MOBILE except aeronautical mobile 5.384A BROADCASTING- SATELLITE 5.413 5.416 Earth exploration-satellite (passive) Radio astronomy Space research (passive)	2655-2670 FIXED 5.409 5.411 FIXED-SATELLITE (Earth-to-space) 5.415 MOBILE except aeronautical mobile 5.384A BROADCASTING- SATELLITE 5.413 5.416 Earth exploration-satellite (passive) Radio astronomy Space research (passive)	2655-2690 Earth exploration-satellite (passive) Radio astronomy Space research (passive)	2655-2690 FIXED US205 FIXED-SATELLITE (Earth-to-space) NG102 MOBILE except aeronautical mobile BROADCASTING- SATELLITE NG101 Earth exploration-satellite (passive) Radio astronomy Space research (passive)	Domestic Public Fixed (21) Auxiliary Broadcasting (74)
5.149 5.412 5.420	5.149 5.420	5.149 5.420			
2670-2690 FIXED 5.409 5.410 5.411 MOBILE except aeronautical mobile 5.384A MOBILE-SATELLITE (Earth-to-space) 5.351A (passive) Radio astronomy Space research (passive)	2670-2690 FIXED 5.409 5.411 FIXED-SATELLITE (Earth- to-space) (space-to-Earth) 5.415 MOBILE except aeronautical mobile 5.384A MOBILE-SATELLITE (Earth-to-space) 5.351A Earth exploration-satellite (passive) Radio astronomy Space research (passive)	2670-2690 FIXED 5.409 5.411 FIXED-SATELLITE (Earth- to-space) 5.415 MOBILE except aeronautical mobile 5.384A MOBILE-SATELLITE (Earth-to-space) 5.351A Earth exploration-satellite (passive) Radio astronomy Space research (passive)	US205 US269	US269 NG47	
5.149 5.412 5.419 5.420	5.149 5.419 5.420	5.149 5.419 5.420 5.420A			
2690-2700 EARTH EXPLORATION-SATELLITE (passive) RADIO ASTRONOMY SPACE RESEARCH (passive)	EARTH EXPLORATION-SATELLITE (passive) RADIO ASTRONOMY SPACE RESEARCH (passive)	EARTH EXPLORATION-SATELLITE (passive) RADIO ASTRONOMY US74 SPACE RESEARCH (passive)	2690-2700 EARTH EXPLORATION-SATELLITE (passive) RADIO ASTRONOMY US74 SPACE RESEARCH (passive)		
5.340 5.421 5.422			US246		
2700-2900 AERONAUTICAL RADIONAVIGATION 5.337 Radiolocation	AERONAUTICAL RADIONAVIGATION 5.337		2700-2900 AERONAUTICAL RADIO- NAVIGATION 5.337 METEOROLOGICAL AIDS Radiolocation G2	2700-2900	
5.423 5.424			5.423 US18 G15	5.423 US18	

2900-3100 MARITIME RADIIONAVIGATION Radiolocation US44 5.427 US44 US316	2900-3100 MARITIME RADIIONAVIGATION Radiolocation US44	5.427 US44 US316	2900-3100 MARITIME RADIIONAVIGATION Radiolocation US44	3100-3300 Radiolocation 5.333 US110	3100-3300 Radiolocation 5.333 US110	5.149	5.149	3300-3500 Amateur Radiolocation US108	3300-3500 Amateur Radiolocation US108	5.149	5.149	3500-3650 RADIOLLOCATION US110 G59 AERONAUTICAL RADIIONAVIGATION (ground-based) G110 US245	3500-3600 Radiolocation US110 3600-3650 FIXED-SATELLITE (space-to-Earth) US245 Radiolocation US110	3650-3700 FIXED FIXED-SATELLITE (space-to-Earth) NG169 MOBILE except aeronautical mobile NG170	3650-3700 FIXED FIXED-SATELLITE (space-to-Earth) NG169 MOBILE except aeronautical mobile NG170	US245 US348 US349 See next page for 3700-4200 MHz	US245 US348 US349 See next page for 3700-4200 MHz
2900-3100 MARITIME RADIIONAVIGATION Radiolocation G56 5.427 US44 US316	2900-3100 MARITIME RADIIONAVIGATION Radiolocation US44	3100-3300 RADIOLLOCATION 5.333 US110 G59	3100-3300 Radiolocation 5.333 US110	5.149	5.149	3300-3500 RADIOLLOCATION US108 G31	3300-3500 Amateur Radiolocation US108	5.149	5.149	3500-3650 RADIOLLOCATION US110 G59 AERONAUTICAL RADIIONAVIGATION (ground-based) G110 US245	3500-3600 Radiolocation US110 3600-3650 FIXED-SATELLITE (space-to-Earth) US245 Radiolocation US110	3650-3700 FIXED FIXED-SATELLITE (space-to-Earth) NG169 MOBILE except aeronautical mobile NG170	3650-3700 FIXED FIXED-SATELLITE (space-to-Earth) NG169 MOBILE except aeronautical mobile NG170	US245 US348 US349 See next page for 3700-4200 MHz	US245 US348 US349 See next page for 3700-4200 MHz		

International Table			United States Table		FCC Rule Part(s)
Region 1	Region 2	Region 3	Federal Government	Non-Federal Government	
See previous page for 3600-4200 MHz	3700-4200 FIXED FIXED-SATELLITE (space-to-Earth) MOBILE except aeronautical mobile		3700-4200	3700-4200 FIXED NG41 FIXED-SATELLITE (space-to-Earth)	International Fixed (23) Satellite Communications (25) Fixed Microwave (101)
4200-4400 AERONAUTICAL RADIONAVIGATION 5.438			4200-4400 AERONAUTICAL RADIONAVIGATION		Aviation (87)
5.439 5.440			5.440 US261		
4400-4500 FIXED MOBILE			4400-4500 FIXED MOBILE	4400-4500	
4500-4800 FIXED FIXED-SATELLITE (space-to-Earth) 5.441 MOBILE			4500-4800 FIXED MOBILE	4500-4800 FIXED-SATELLITE (space-to-Earth) 792A	
4800-4990 FIXED MOBILE 5.442 Radio astronomy			US245 4800-4940 FIXED MOBILE	US245 4800-4940	
5.149 5.339 5.443			5.149 US203 4940-4990	5.149 US203 4940-4990 FIXED MOBILE except aeronautical mobile	Private Land Mobile (90) Fixed Microwave (101)
4990-5000 FIXED MOBILE except aeronautical mobile RADIO ASTRONOMY Space research (passive)			5.149 5.339 US311 G122 4990-5000 RADIO ASTRONOMY US74 Space research (passive)	5.149 5.339 US311	
5.149			US246		
5000-5150 AERONAUTICAL RADIONAVIGATION			5000-5250 AERONAUTICAL RADIO- NAVIGATION US260	5000-5150 AERONAUTICAL RADIO- NAVIGATION US260	Satellite Communications (25) Aviation (87)
5.367 5.443A 5.443B 5.444 5.444A				5.367 5.444A US211 US344 US370	

<p>5150-5250 AERONAUTICAL RADIONAVIGATION FIXED-SATELLITE (Earth-to-space) 5.447A</p>	<p>5.367 US211 US307 US344 US370</p>	<p>5150-5250 AERONAUTICAL RADIO- NAVIGATION US260 FIXED-SATELLITE (Earth- to-space) 5.447A US344</p>	
<p>5.446 5.447 5.447B 5.447C</p>	<p>5250-5350 RADIOLOCATION 5.333 US110 G59</p>	<p>5250-5350 Radiolocation 5.333 US110</p>	
<p>5.448 5.448A</p>	<p>5350-5460 AERONAUTICAL RADIO- NAVIGATION 5.449 RADIOLOCATION G56 US48</p>	<p>5350-5460 AERONAUTICAL RADIO- NAVIGATION 5.449 Radiolocation</p>	<p>Aviation (87)</p>
<p>5255-5350 EARTH EXPLORATION-SATELLITE (active) RADIOLOCATION SPACE RESEARCH (active) 5.448 5.448A</p>	<p>5460-5470 RADIOLOCATION 5.449 Radiolocation G56 US49 US65</p>	<p>5460-5470 RADIOLOCATION 5.449 Radiolocation</p>	
<p>5350-5460 EARTH EXPLORATION-SATELLITE (active) 5.448B AERONAUTICAL RADIONAVIGATION 5.449 Radiolocation</p>	<p>5470-5650 MARITIME RADIOLOCATION 5.451 G56 Radiolocation</p>	<p>5470-5650 MARITIME RADIOLOCATION 5.449 Radiolocation</p>	<p>Maritime (80)</p>
<p>5.450 5.451 5.452</p>	<p>5600-5650 MARITIME RADIOLOCATION 5.452 G56 Radiolocation US51 G56 5.452 US65</p>	<p>5600-5650 MARITIME RADIOLOCATION 5.452 Radiolocation US51</p>	<p>5.452 US65</p>

<p>5.149 5.440 5.458 6700-7075 FIXED FIXED-SATELLITE (Earth-to-space) (space-to-Earth) 5.441 MOBILE</p>	<p>6525-6700 5.149 5.458 6700-7125</p>	<p>6525-6700 FIXED FIXED-SATELLITE (Earth-to-space) 5.149 5.458 6700-6875 FIXED FIXED-SATELLITE (Earth-to-space) (space-to-Earth) 5.441 5.458 5.458A 5.458B</p>	<p>Satellite Communications (25) Fixed Microwave (101)</p>
<p>5.458 5.458A 5.458B 5.458C 7075-7250 FIXED MOBILE</p>	<p>5.458 7125-7190 FIXED 5.458 US252 G116 7190-7235 FIXED SPACE RESEARCH (Earth-to-space) 5.458 7235-7250 FIXED 5.458</p>	<p>6875-7025 FIXED NG118 FIXED-SATELLITE (Earth-to-space) (space-to-Earth) 5.441 MOBILE NG171 5.458 5.458A 5.458B 7025-7075 FIXED NG118 FIXED-SATELLITE (Earth-to-space) NG172 MOBILE NG171 5.458 5.458A 5.458B 7075-7125 FIXED NG118 MOBILE NG171 5.458 7125-7190 5.458 US252 7190-7250</p>	<p>Satellite Communications (25) Auxiliary Broadcasting (74) Cable TV Relay (78)</p>
<p>5.458 5.459 5.460</p>	<p>5.458</p>	<p>5.458</p>	<p></p>

7250-8215 MHz (SHF)

International Table		United States Table		FCC Rule Part(s)
Region 1	Region 2	Federal Government	Non-Federal Government	
	Region 3		7250-8025	
7250-7300 FIXED FIXED-SATELLITE (space-to-Earth) MOBILE		7250-7300 FIXED-SATELLITE (space-to-Earth) MOBILE-SATELLITE (space-to-Earth) Fixed		
5.461		G117		
7300-7450 FIXED FIXED-SATELLITE (space-to-Earth) MOBILE except aeronautical mobile		7300-7450 FIXED FIXED-SATELLITE (space-to-Earth) Mobile-satellite (space-to-Earth)		
5.461		G117		
7450-7550 FIXED FIXED-SATELLITE (space-to-Earth) METEOROLOGICAL-SATELLITE (space-to-Earth) MOBILE except aeronautical mobile		7450-7550 FIXED FIXED-SATELLITE (space-to-Earth) METEOROLOGICAL-SAT- ELLITE (space-to-Earth) Mobile-satellite (space-to-Earth)		
5.461A		G104 G117		
7550-7750 FIXED FIXED-SATELLITE (space-to-Earth) MOBILE except aeronautical mobile		7550-7750 FIXED FIXED-SATELLITE (space-to-Earth) Mobile-satellite (space-to-Earth)		
7750-7850 FIXED METEOROLOGICAL-SATELLITE (space-to-Earth) 5.461B MOBILE except aeronautical mobile		G117 7750-7900 FIXED		
7850-7900 FIXED MOBILE except aeronautical mobile				

<p>7900-8025 FIXED-SATELLITE (Earth-to-space) MOBILE</p>	<p>7900-8025 FIXED-SATELLITE (Earth-to-space) MOBILE-SATELLITE (Earth-to-space) Fixed</p>		
<p>5.461 8025-8175 EARTH EXPLORATION-SATELLITE (space-to-Earth) FIXED FIXED-SATELLITE (Earth-to-space) MOBILE 5.463</p>	<p>8025-8175 EARTH EXPLORATION- SATELLITE (space-to- Earth) FIXED FIXED-SATELLITE (Earth-to-space) Mobile-satellite (Earth-to- space) (no airborne transmissions)</p>	<p>G117 8025-8175</p>	
<p>5.462A 8175-8215 EARTH EXPLORATION-SATELLITE (space-to-Earth) FIXED FIXED-SATELLITE (Earth-to-space) METEOROLOGICAL-SATELLITE (Earth-to-space) MOBILE 5.463</p>	<p>US258 G117 8175-8215 EARTH EXPLORATION- SATELLITE (space-to- Earth) FIXED FIXED-SATELLITE (Earth-to-space) METEOROLOGICAL-SAT- ELLITE (Earth-to-space) Mobile-satellite (Earth-to- space) (no airborne transmissions)</p>	<p>US258 8175-8215</p>	

8215-10000 MHz (SHF) Page 61

International Table		United States Table		FCC Rule Part(s)
Region 1	Region 2 Region 3	Federal Government	Non-Federal Government	
8215-8400 EARTH EXPLORATION-SATELLITE (space-to-Earth) FIXED FIXED-SATELLITE (Earth-to-space) MOBILE 5.463		8215-8400 EARTH EXPLORATION-SATELLITE (space-to-Earth) FIXED FIXED-SATELLITE (Earth-to-space) Mobile-satellite (Earth-to-space) (no airborne transmissions)	8215-8400	
5.462A		US258 G117	US258	
8400-8500 FIXED MOBILE except aeronautical mobile SPACE RESEARCH (space-to-Earth) 5.465 5.466		8400-8450 FIXED SPACE RESEARCH (space-to-Earth) (deep space only)	8400-88450	
5.467		8450-8500 FIXED SPACE RESEARCH (space-to-Earth)	8450-8500 SPACE RESEARCH (space-to-Earth)	
8500-8550 RADIOLOCATION		8500-9000 RADIOLOCATION 5.333 US110 G59	8500-9000 Radiolocation 5.333 US110	
5.468 5.469				
8550-8650 EARTH EXPLORATION-SATELLITE (active) RADIOLOCATION SPACE RESEARCH (active)				
5.468 5.469 5.469A				
8650-8750 RADIOLOCATION				
5.468 5.469				
8750-8850 RADIOLOCATION AERONAUTICAL RADIONAVIGATION 5.470				
5.471				

8850-9000 RADIOLOCATION MARITIME RADIONAVIGATION 5.472			
5.473	US53	US53	
9000-9200 AERONAUTICAL RADIONAVIGATION 5.337 Radiolocation	9000-9200 AERONAUTICAL RADIO- NAVIGATION 5.337 Radiolocation	9000-9200 AERONAUTICAL RADIO- NAVIGATION 5.337 Radiolocation	Aviation (87)
5.471	US48 US54 G19	US48 US54	
9200-9300 RADIOLOCATION MARITIME RADIONAVIGATION 5.472	9200-9300 MARITIME RADIO- NAVIGATION 5.472 Radiolocation US110 G59	9200-9300 MARITIME RADIO- NAVIGATION 5.472 Radiolocation US110	
5.473 5.474	5.474	5.474	
9300-9500 RADIOLOCATION 5.476 Radiolocation	9300-9500 RADIOLOCATION 5.476 US66 Radiolocation US51 Meteorological aids	9300-9500 RADIOLOCATION 5.476 US66 Radiolocation US51 Meteorological aids	
5.427 5.474 5.475	5.427 5.474 US67 US71	5.427 5.474 US67 US71	
9500-9800 EARTH EXPLORATION-SATELLITE (active) RADIOLOCATION RADIOLOCATION SPACE RESEARCH (active)	9500-10000 RADIOLOCATION 5.333 US110	9500-10000 Radiolocation 5.333 US110	
5.476A			
9800-10000 RADIOLOCATION Fixed			
5.477 5.478 5.479	5.479	5.479	

International Table		United States Table		FCC Rule Part(s)
Region 1	Region 2	Region 3	Federal Government	Non-Federal Government
10-10.45 FIXED MOBILE RADIOLOCATION Amateur	10-10.45 RADIOLOCATION Amateur	10-10.45 FIXED MOBILE RADIOLOCATION Amateur	10-10.45 RADIOLOCATION	10-10.45 Radiolocation Amateur
5.479	5.479 5.480	5.479	5.479 US108 G32	5.479 US58 US108 NG42
10.45-10.5 RADIOLOCATION Amateur Amateur-satellite			10.45-10.5 RADIOLOCATION	10.45-10.5 Radiolocation Amateur Amateur-satellite
5.481			US58 US108 G32	US58 US108 NG42 NG134
10.5-10.55 FIXED MOBILE RADIOLOCATION	10.5-10.55 FIXED MOBILE RADIOLOCATION		10.5-10.55 RADIOLOCATION US59	
10.55-10.6 FIXED MOBILE except aeronautical mobile Radiolocation			10.55-10.6	10.55-10.6 FIXED
10.6-10.68 EARTH EXPLORATION-SATELLITE (passive) FIXED MOBILE except aeronautical mobile RADIO ASTRONOMY SPACE RESEARCH (passive) Radiolocation			10.6-10.68 EARTH EXPLORATION-SATELLITE (passive) SPACE RESEARCH (passive)	10.6-10.68 EARTH EXPLORATION-SATELLITE (passive) FIXED SPACE RESEARCH (passive)
10.68-10.7 EARTH EXPLORATION-SATELLITE (passive) RADIO ASTRONOMY SPACE RESEARCH (passive)			US265 US277 10.68-10.7	US265 US277
10.340 5.483			US246 US355	

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<p>10.7-11.7 FIXED FIXED-SATELLITE (space-to-Earth) 5.441 5.484A (Earth-to-space) 5.484 MOBILE except aeronautical mobile</p>	<p>10.7-11.7 FIXED FIXED-SATELLITE (space-to-Earth) 5.441 5.484A MOBILE except aeronautical mobile</p>	<p>International Fixed (23) Satellite Communications (25) Fixed Microwave (101)</p>				
<p>11.7-12.5 FIXED MOBILE except aeronautical mobile BROADCASTING- SATELLITE</p>	<p>11.7-12.1 FIXED 5.486 FIXED-SATELLITE (space-to-Earth) 5.484A MOBILE except aeronautical mobile</p>	<p>Satellite Communications (25) Fixed Microwave (101)</p>				
<p>5.487 5.487A 5.492 12.5-12.75 FIXED-SATELLITE (space-to-Earth) 5.484A (Earth-to-space)</p>	<p>5.487 5.488 5.489 12.2-12.7 FIXED MOBILE except aeronautical mobile BROADCASTING- SATELLITE</p>	<p>International Fixed (23) Satellite Communications (25) Fixed Microwave (101)</p>				
<p>5.494 5.495 5.496</p>	<p>5.487A 5.488 5.490 5.492 See next page for 12.7-12.75 GHz</p>	<p>5.487A 5.488 5.490 5.492 See next page for 12.7-12.75 GHz</p>	<p>5.487A 5.488 5.490 5.492 See next page for 12.7-12.75 GHz</p>	<p>5.487A 5.488 5.490 5.492 See next page for 12.7-12.75 GHz</p>	<p>5.487A 5.488 5.490 5.492 See next page for 12.7-12.75 GHz</p>	<p>See next page for 12.7-12.75 GHz</p>

12.7-14.5 GHz (SHF)		Page 65	
International Table		United States Table	
Region 1	Region 2	Federal Government	Non-Federal Government
See previous page for 12.5-12.75 GHz	Region 3 See previous page for 12.5-12.75 GHz	12.7-12.75 FIXED FIXED-SATELLITE (Earth-to-space) MOBILE except aeronautical mobile	12.7-12.75 FIXED NG118 FIXED-SATELLITE (Earth-to-space) MOBILE
12.75-13.25 FIXED FIXED-SATELLITE (Earth-to-space) 5.441 MOBILE Space research (deep space) (space-to-Earth)		12.75-13.25 US251	12.75-13.25 FIXED NG118 FIXED-SATELLITE (Earth-to-space) 5.441 NG104 MOBILE US251 NG53
13.25-13.4 EARTH EXPLORATION-SATELLITE (active) AERONAUTICAL RADIONAVIGATION 5.497 SPACE RESEARCH (active) 5.498A 5.499		13.25-13.4 AERONAUTICAL RADIONAVIGATION 5.497 Space research (Earth-to-space)	Aviation (87)
13.4-13.75 EARTH EXPLORATION-SATELLITE (active) RADIOLOCATION SPACE RESEARCH 5.501A Standard frequency and time signal-satellite (Earth-to-space) 5.499 5.500 5.501 5.501B		13.4-13.75 RADIOLOCATION 5.333 US110 G59 Space research Standard frequency and time signal-satellite (Earth-to-space)	13.4-13.75 Radiolocation 5.333 US110 Space research Standard frequency and time signal-satellite (Earth-to-space)
13.75-14 FIXED-SATELLITE (Earth-to-space) 5.484A RADIOLOCATION Standard frequency and time signal-satellite (Earth-to-space) Space research		13.75-14 RADIOLOCATION US110 G59 Standard frequency and time signal-satellite (Earth-to-space) Space research US337	13.75-14 FIXED-SATELLITE (Earth-to-space) US337 Radiolocation US110 Standard frequency and time signal-satellite (Earth-to-space) Space research
5.499 5.500 5.501 5.502 5.503 5.503A		5.503A US356 US357	5.503A US356 US357

<p>14-14.25 FIXED-SATELLITE (Earth-to-space) 5.484A 5.506 RADIONAVIGATION 5.504 Mobile-satellite (Earth-to-space) except aeronautical mobile-satellite Space research</p>	<p>14-14.2 RADIONAVIGATION US292 Space research</p>	<p>14-14.2 FIXED-SATELLITE (Earth-to-space) RADIONAVIGATION US292 Land mobile-satellite (Earth-to-space) Space research</p>	<p>Satellite Communications (25) Maritime (80) Aviation (87)</p>
<p>5.505 14.25-14.3 FIXED-SATELLITE (Earth-to-space) 5.484A 5.506 RADIONAVIGATION 5.504 Mobile-satellite (Earth-to-space) except aeronautical mobile-satellite Space research</p>	<p>14.2-14.4</p>	<p>14.2-14.4 FIXED-SATELLITE (Earth-to-space) Land mobile-satellite (Earth-to-space) Mobile except aeronautical mobile</p>	<p>Satellite Communications (25) Fixed Microwave (101)</p>
<p>5.505 5.508 5.509 14.3-14.4 FIXED FIXED-SATELLITE (Earth-to-space) 5.484A 5.506 Mobile-satellite (Earth-to-space) except aeronautical mobile MOBILE except aeronautical mobile-satellite Radionavigation-satellite</p>	<p>14.3-14.4 FIXED FIXED-SATELLITE (Earth-to-space) 5.484A 5.506 Mobile-satellite (Earth-to-space) except aeronautical mobile MOBILE except aeronautical mobile-satellite Radionavigation-satellite</p>	<p>14.3-14.4 FIXED FIXED-SATELLITE (Earth-to-space) 5.484A 5.506 Mobile-satellite (Earth-to-space) except aeronautical mobile MOBILE except aeronautical mobile-satellite Radionavigation-satellite</p>	<p>Satellite Communications (25) Fixed Microwave (101)</p>
<p>14.4-14.47 FIXED FIXED-SATELLITE (Earth-to-space) 5.484A 5.506 MOBILE except aeronautical mobile Mobile-satellite (Earth-to-space) except aeronautical mobile-satellite Space research (space-to-Earth)</p>	<p>14.4-14.47 Fixed Mobile</p>	<p>14.4-14.47 FIXED-SATELLITE (Earth-to-space) Land mobile-satellite (Earth-to-space)</p>	<p>Satellite Communications (25)</p>
<p>14.47-14.5 FIXED FIXED-SATELLITE (Earth-to-space) 5.484A 5.506 MOBILE except aeronautical mobile Mobile-satellite (Earth-to-space) except aeronautical mobile-satellite Radio astronomy</p>	<p>14.47-14.5 Fixed Mobile</p>	<p>14.47-14.5 FIXED-SATELLITE (Earth-to-space) Land mobile-satellite (Earth-to-space)</p>	<p>Satellite Communications (25)</p>
<p>5.149</p>	<p>5.149 US203</p>	<p>5.149 US203</p>	<p>5.149 US203</p>

International Table		14.5-18.3 GHz (SHF)		United States Table		FCC Rule Part(s)
		Region 1	Region 2	Region 3	Non-Federal Government	
14.5-14.8 FIXED FIXED-SATELLITE (Earth-to-space) 5.510 MOBILE Space research			14.5-14.7145 FIXED Mobile Space research	14.5-14.7145		
14.8-15.35 FIXED MOBILE Space research			14.7145-15.1365 MOBILE Fixed Space research	14.7145-15.1365		
5.339			US310	US310		
15.35-15.4 EARTH EXPLORATION-SATELLITE (passive) RADIO ASTRONOMY SPACE RESEARCH (passive)			15.1365-15.35 FIXED Mobile Space research	15.1365-15.35		
5.340 5.511			5.339 US211	5.339 US211		
15.4-15.43 AERONAUTICAL RADIONAVIGATION			15.35-15.4 EARTH EXPLORATION-SATELLITE (passive) RADIO ASTRONOMY US74 SPACE RESEARCH (passive)			
5.511D			US246			
15.43-15.63 FIXED SATELLITE (Earth-to-space) 5.511A AERONAUTICAL RADIONAVIGATION			15.4-15.43 AERONAUTICAL RADIONAVIGATION US260			Aviation (87)
5.511C			US211			
15.63-15.7 AERONAUTICAL RADIONAVIGATION			15.43-15.63 AERONAUTICAL RADIO- NAVIGATION US260	15.4-15.43 FIXED SATELLITE (Earth-to-space) AERONAUTICAL RADIO- NAVIGATION US260		Satellite Communications (25) Aviation (87)
5.512 5.513			5.511C US211 US359	5.511C US211 US359		
			15.63-15.7 AERONAUTICAL RADIONAVIGATION			Aviation (87)
			15.7-16.6 RADIOLOCATION			
			US211			
			15.7-16.6 RADIOLOCATION US110 G59	15.7-17.2 Radiolocation US110		Private Land Mobile (90)

<p>20.1-20.2 FIXED-SATELLITE (space-to-Earth) 5.484A MOBILE-SATELLITE (space-to-Earth)</p>	<p>20.1-20.2 FIXED-SATELLITE (space-to-Earth) MOBILE-SATELLITE (space-to-Earth)</p>	<p>5.524 5.525 5.526 5.527 5.528 US334</p>	<p>5.525 5.526 5.527 5.528 US334</p>
<p>20.2-21.2 FIXED-SATELLITE (space-to-Earth) MOBILE-SATELLITE (space-to-Earth) Standard frequency and time signal-satellite (space-to-Earth)</p>	<p>20.2-21.2 FIXED-SATELLITE (space-to-Earth) MOBILE-SATELLITE (space-to-Earth) Standard frequency and time signal-satellite (space-to-Earth)</p>	<p>20.2-21.2 FIXED-SATELLITE (space-to-Earth) MOBILE-SATELLITE (space-to-Earth) Standard frequency and time signal-satellite (space-to-Earth)</p>	<p>20.2-21.2 Standard frequency and time signal-satellite (space-to-Earth)</p>
<p>21.2-21.4 EARTH EXPLORATION-SATELLITE (passive) FIXED MOBILE SPACE RESEARCH (passive)</p>	<p>21.2-21.4 EARTH EXPLORATION-SATELLITE (passive) FIXED MOBILE SPACE RESEARCH (passive)</p>	<p>21.2-21.4 EARTH EXPLORATION-SATELLITE (passive) FIXED MOBILE SPACE RESEARCH (passive)</p>	<p>21.2-21.4 EARTH EXPLORATION-SATELLITE (passive) FIXED MOBILE SPACE RESEARCH (passive)</p>
<p>21.4-22 FIXED MOBILE BROADCASTING-SATELLITE 5.530</p>	<p>21.4-22 FIXED MOBILE BROADCASTING-SATELLITE 5.530</p>	<p>21.4-22 FIXED MOBILE BROADCASTING-SATELLITE 5.530</p>	<p>21.4-22 FIXED MOBILE</p>
<p>22-22.21 FIXED MOBILE except aeronautical mobile</p>	<p>22-22.21 FIXED MOBILE except aeronautical mobile</p>	<p>22-22.21 FIXED MOBILE except aeronautical mobile</p>	<p>22-22.21 FIXED MOBILE except aeronautical mobile</p>
<p>22.21-22.5 EARTH EXPLORATION-SATELLITE (passive) FIXED MOBILE except aeronautical mobile RADIO ASTRONOMY SPACE RESEARCH (passive)</p>	<p>22.21-22.5 EARTH EXPLORATION-SATELLITE (passive) FIXED MOBILE except aeronautical mobile RADIO ASTRONOMY SPACE RESEARCH (passive)</p>	<p>22.21-22.5 EARTH EXPLORATION-SATELLITE (passive) FIXED MOBILE except aeronautical mobile RADIO ASTRONOMY SPACE RESEARCH (passive)</p>	<p>22.21-22.5 EARTH EXPLORATION-SATELLITE (passive) FIXED MOBILE except aeronautical mobile RADIO ASTRONOMY SPACE RESEARCH (passive)</p>

International Table		United States Table		FCC Rule Part(s)
		Region 1	Region 2	
22.5-27.5 GHz (SHF)				
Region 1	Region 2	Region 3	Federal Government	Non-Federal Government
22.5-22.55 FIXED MOBILE			22.5-22.55 FIXED MOBILE US211	Fixed Microwave (101)
22.55-23.55 FIXED INTER-SATELLITE MOBILE			22.55-23.55 FIXED INTER-SATELLITE MOBILE	Satellite Communications (25) Fixed Microwave (101)
5.149			5.149 US278	
23.55-23.6 FIXED MOBILE			23.55-23.6 FIXED MOBILE	Fixed Microwave (101)
23.6-24 EARTH EXPLORATION-SATELLITE (passive) RADIO ASTRONOMY SPACE RESEARCH (passive)			23.6-24 EARTH EXPLORATION-SATELLITE (passive) RADIO ASTRONOMY US74 SPACE RESEARCH (passive)	
5.340			US246	
24-24.05 AMATEUR AMATEUR-SATELLITE			24-24.05 AMATEUR AMATEUR-SATELLITE	ISM Equipment (18) Amateur (97)
5.150			5.150 US211	
24.05-24.25 RADIOLOCATION Amateur Earth exploration-satellite (active)			24.05-24.25 RADIOLOCATION US110 G59 Earth exploration-satellite (active)	ISM Equipment (18) Private Land Mobile (90) Amateur (97)
5.150			5.150	
24.25-24.45 FIXED	24.25-24.45 RADIO NAVIGATION	24.25-24.45 RADIO NAVIGATION FIXED MOBILE	24.25-24.45 FIXED	Fixed Microwave (101)

<p>24.45-24.75 FIXED INTER-SATELLITE</p>	<p>24.45-24.65 INTER-SATELLITE RADIATIONAVIGATION</p>	<p>24.45-24.65 FIXED INTER-SATELLITE MOBILE RADIATIONAVIGATION</p>	<p>24.45-24.65 INTER-SATELLITE RADIATIONAVIGATION</p>	<p>24.45-24.65 FIXED INTER-SATELLITE MOBILE RADIATIONAVIGATION</p>	<p>24.45-24.65 INTER-SATELLITE RADIATIONAVIGATION</p>	<p>Satellite Communications (25)</p>
<p>5.533</p>	<p>24.65-24.75 INTER-SATELLITE RADIOLOCATION-SATELLITE (Earth-to-space)</p>	<p>24.65-24.75 FIXED INTER-SATELLITE MOBILE</p>	<p>24.65-24.75 FIXED INTER-SATELLITE MOBILE</p>	<p>24.65-24.75 FIXED INTER-SATELLITE MOBILE</p>	<p>24.65-24.75 INTER-SATELLITE RADIOLOCATION-SATELLITE (Earth-to-space)</p>	<p>Satellite Communications (25) Aviation (87)</p>
<p>24.75-25.25 FIXED</p>	<p>24.75-25.05 RADIATIONAVIGATION</p>	<p>24.75-25.25 FIXED FIXED-SATELLITE (Earth-to-space) 5.535 MOBILE</p>	<p>24.75-25.25 FIXED FIXED-SATELLITE (Earth-to-space) 5.535 MOBILE</p>	<p>24.75-25.25 FIXED FIXED-SATELLITE (Earth-to-space) 5.535 MOBILE</p>	<p>24.75-25.05 RADIATIONAVIGATION</p>	<p>Satellite Communications (25) Aviation (87)</p>
<p>25.25-25.5 FIXED INTER-SATELLITE 5.536 MOBILE Standard frequency and time signal-satellite (Earth-to-space)</p>	<p>25.25-25.25 FIXED-SATELLITE (Earth-to-space) NG167 FIXED</p>	<p>25.25-25.5 FIXED MOBILE Standard frequency and time signal-satellite (Earth-to-space)</p>	<p>25.25-25.5 FIXED MOBILE Standard frequency and time signal-satellite (Earth-to-space)</p>	<p>25.25-25.5 FIXED MOBILE Standard frequency and time signal-satellite (Earth-to-space)</p>	<p>25.25-25.25 FIXED-SATELLITE (Earth-to-space) NG167 FIXED</p>	<p>Satellite Communications (25) Fixed Microwave (101)</p>
<p>25.5-27 FIXED INTER-SATELLITE 5.536 MOBILE Standard frequency and time signal-satellite (Earth-to-space)</p>	<p>25.25-27 Standard frequency and time signal-satellite (Earth-to-space) Earth exploration-satellite (space-to-space)</p>	<p>25.5-27 FIXED MOBILE Standard frequency and time signal-satellite (Earth-to-space)</p>	<p>25.5-27 FIXED MOBILE Standard frequency and time signal-satellite (Earth-to-space)</p>	<p>25.5-27 FIXED MOBILE Standard frequency and time signal-satellite (Earth-to-space)</p>	<p>25.25-27 Standard frequency and time signal-satellite (Earth-to-space) Earth exploration-satellite (space-to-space)</p>	<p>Note: In its Manual, NTIA has added a primary inter-satellite service allocation to the band 25.25-27.5 GHz, limited the use of this allocation by adopting footnote 5.536, and has changed the directional indicator for the Earth exploration-satellite service allocation in the band 25.5-27 GHz from space-to-space to space-to-Earth.</p>
<p>27-27.5 FIXED INTER-SATELLITE 5.536 MOBILE</p>	<p>27-27.5 Earth exploration-satellite (space-to-space)</p>	<p>27-27.5 FIXED MOBILE</p>	<p>27-27.5 FIXED MOBILE</p>	<p>27-27.5 FIXED INTER-SATELLITE (Earth-to-space) INTER-SATELLITE 5.536 5.537 MOBILE</p>	<p>27-27.5 Earth exploration-satellite (space-to-space)</p>	<p>Satellite Communications (25)</p>

27.5-32 GHz (SHF/EHF)		Page 73	
International Table		United States Table	
Region 1	Region 2	Federal Government	Non-Federal Government
Region 3			
FIXED 5.537A		27.5-30	27.5-29.5
FIXED-SATELLITE (Earth-to-space) 5.484A 5.539			FIXED
MOBILE			FIXED-SATELLITE (Earth-to-space)
			MOBILE
5.538 5.540			
8.5-29.1			
FIXED			
FIXED-SATELLITE (Earth-to-space) 5.484A 5.523A 5.539			
MOBILE			
Earth exploration-satellite (Earth-to-space) 5.541			
5.540			
9.1-29.5			
FIXED			
FIXED-SATELLITE (Earth-to-space) 5.523C 5.523E 5.535A 5.539 5.541A			
MOBILE			
Earth exploration-satellite (Earth-to-space) 5.541			
5.540			
9.5-29.9	29.5-29.9		29.5-29.9
FIXED-SATELLITE (Earth-to-space) 5.484A 5.539	FIXED-SATELLITE (Earth-to-space) 5.484A 5.539		FIXED-SATELLITE (Earth-to-space)
Earth exploration-satellite (Earth-to-space) 5.541	MOBILE-SATELLITE (Earth-to-space)		MOBILE-SATELLITE (Earth-to-space)
Mobile-satellite (Earth-to-space)	Earth exploration-satellite (Earth-to-space) 5.541		
	Mobile-satellite (Earth-to-space)		
5.540 5.542	5.525 5.526 5.527 5.529 5.540 5.542		5.525 5.526 5.527 5.529
9.9-30			29.9-30
FIXED-SATELLITE (Earth-to-space) 5.484A 5.539			FIXED-SATELLITE (Earth-to-space)
MOBILE-SATELLITE (Earth-to-space)			MOBILE-SATELLITE (Earth-to-space)
Earth exploration-satellite (Earth-to-space) 5.541 5.543			
5.525 5.526 5.527 5.538 5.540 5.542			5.525 5.526 5.527 5.543

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Satellite Communications (25)
Fixed Microwave (101)

Satellite Communications (25)

<p>30-31 FIXED-SATELLITE (Earth-to-space) MOBILE-SATELLITE (Earth-to-space) Standard frequency and time signal-satellite (space-to-Earth)</p>	<p>30-31 FIXED-SATELLITE (Earth-to-space) MOBILE-SATELLITE (Earth-to-space) Standard frequency and time signal-satellite (space-to-Earth)</p>	<p>30-31 Standard frequency and time signal-satellite (space-to-Earth)</p>	
<p>5.542 31-31.3 FIXED 5.543A MOBILE Standard frequency and time signal-satellite (space-to-Earth) Space research 5.544 5.545</p>	<p>G117 31-31.3 Standard frequency and time signal-satellite (space-to-Earth)</p>	<p>31-31.3 FIXED MOBILE Standard frequency and time signal-satellite (space-to-Earth)</p>	<p>Fixed Microwave (101)</p>
<p>5.149 31.3-31.5 EARTH EXPLORATION-SATELLITE (passive) RADIO ASTRONOMY SPACE RESEARCH (passive)</p>	<p>5.149 US211 31.3-31.8 EARTH EXPLORATION-SATELLITE (passive) RADIO ASTRONOMY US74 SPACE RESEARCH (passive)</p>	<p>5.149 US211</p>	
<p>5.340 31.5-31.8 EARTH EXPLORATION-SATELLITE (passive) RADIO ASTRONOMY SPACE RESEARCH (passive) Fixed Mobile except aeronautical mobile</p>	<p>31.5-31.8 EARTH EXPLORATION-SATELLITE (passive) RADIO ASTRONOMY SPACE RESEARCH (passive) Fixed Mobile except aeronautical mobile</p>	<p>31.5-31.8 EARTH EXPLORATION-SATELLITE (passive) RADIO ASTRONOMY SPACE RESEARCH (passive) Fixed Mobile except aeronautical mobile</p>	
<p>5.149 5.546 31.8-32 FIXED 5.547A RADIONAVIGATION SPACE RESEARCH (deep space) (space-to-Earth)</p>	<p>US246 31.8-32 RADIONAVIGATION US69 SPACE RESEARCH (deep space) (space-to-Earth) US262</p>	<p>31.8-32 SPACE RESEARCH (deep space) (space-to-Earth) US262</p>	<p>5.548 US211</p>

32-40 GHz (EHF)			Page 75	
International Table		United States Table		
Region 1	Region 2	Region 3	Federal Government	Non-Federal Government
32-32.3 FIXED 5.547A INTER-SATELLITE RADIIONAVIGATION SPACE RESEARCH (deep space) (space-to-Earth)			32-32.3 INTER-SATELLITE US278 RADIIONAVIGATION US69 SPACE RESEARCH (deep space) (space-to-Earth) US262	32-32.3 INTER-SATELLITE US278 SPACE RESEARCH (deep space) (space-to-Earth) US262
5.547 5.547C 5.548			5.548	5.548
32.3-33 FIXED 5.547A INTER-SATELLITE RADIIONAVIGATION			32.3-33 INTER-SATELLITE US278 RADIIONAVIGATION US69	Aviation (87)
5.547 5.547D 5.548			5.548	
33-33.4 FIXED 5.547A RADIIONAVIGATION			33-33.4 RADIIONAVIGATION US69	
5.547 5.547E			US360 G117	
33.4-34.2 RADIOLOCATION			33.4-36 RADIOLOCATION US110 G34	33.4-36 Radiolocation US110
5.549				Private Land Mobile (90)
34.2-34.7 RADIOLOCATION SPACE RESEARCH (deep space) (Earth-to-space)				
5.549				
34.7-35.2 RADIOLOCATION Space research 5.550				
5.549				
35.2-35.5 METEOROLOGICAL AIDS RADIOLOCATION				
5.549				
35.5-36 METEOROLOGICAL AIDS EARTH EXPLORATION-SATELLITE (active) RADIOLOCATION SPACE RESEARCH (active)				

<p>36-37 EARTH EXPLORATION-SATELLITE (passive) FIXED MOBILE SPACE RESEARCH (passive)</p>	<p>36-37 EARTH EXPLORATION-SATELLITE (passive) FIXED MOBILE SPACE RESEARCH (passive)</p>	<p>36-37 EARTH EXPLORATION-SATELLITE (passive) FIXED MOBILE SPACE RESEARCH (passive)</p>
<p>5.149</p>	<p>US263 US342</p>	<p>5.149</p>
<p>37-37.5 FIXED MOBILE SPACE RESEARCH (space-to-Earth)</p>	<p>37-37.5 FIXED MOBILE SPACE RESEARCH (space-to-Earth)</p>	<p>37-37.5 FIXED MOBILE SPACE RESEARCH (space-to-Earth)</p>
<p>5.547</p>	<p>US291</p>	<p>5.547</p>
<p>37.5-38 FIXED FIXED-SATELLITE (space-to-Earth) 5.551AA MOBILE SPACE RESEARCH (space-to-Earth) Earth exploration-satellite (space-to-Earth)</p>	<p>37.5-38 FIXED FIXED-SATELLITE (space-to-Earth) MOBILE</p>	<p>37.5-38 FIXED FIXED-SATELLITE (space-to-Earth) 5.551AA MOBILE SPACE RESEARCH (space-to-Earth) Earth exploration-satellite (space-to-Earth)</p>
<p>5.547</p>	<p>US291</p>	<p>5.547</p>
<p>38-39.5 FIXED FIXED-SATELLITE (space-to-Earth) 5.551AA MOBILE Earth exploration-satellite (space-to-Earth)</p>	<p>38.6-39.5 FIXED FIXED-SATELLITE (space-to-Earth) MOBILE</p>	<p>38-39.5 FIXED FIXED-SATELLITE (space-to-Earth) 5.551AA MOBILE Earth exploration-satellite (space-to-Earth)</p>
<p>5.547</p>	<p>US291</p>	<p>5.547</p>
<p>39.5-40 FIXED FIXED-SATELLITE (space-to-Earth) 5.551AA MOBILE MOBILE-SATELLITE (space-to-Earth) Earth exploration-satellite (space-to-Earth)</p>	<p>39.5-40 FIXED FIXED-SATELLITE (space-to-Earth) MOBILE-SATELLITE (space-to-Earth) MOBILE-SATELLITE (space-to-Earth)</p>	<p>39.5-40 FIXED FIXED-SATELLITE (space-to-Earth) 5.551AA MOBILE MOBILE-SATELLITE (space-to-Earth) Earth exploration-satellite (space-to-Earth)</p>
<p>5.547</p>	<p>US291 G117</p>	<p>5.547</p>

40-50.2 GHz (EHF)			Page 77	
International Table		United States Table		
Region 1	Region 2	Region 3	Federal Government	Non-Federal Government
40-40.5 EARTH EXPLORATION-SATELLITE (Earth-to-space) FIXED FIXED-SATELLITE (space-to-Earth) MOBILE MOBILE-SATELLITE (space-to-Earth) SPACE RESEARCH (Earth-to-space) Earth exploration-satellite (space-to-Earth)			40-40.5 EARTH EXPLORATION-SATELLITE (Earth-to-space) FIXED-SATELLITE (space-to-Earth) MOBILE-SATELLITE (space-to-Earth) SPACE RESEARCH (Earth-to-space) Earth exploration-satellite (space-to-Earth)	40-40.5 FIXED-SATELLITE (space-to-Earth) MOBILE-SATELLITE (space-to-Earth)
40.5-41 FIXED FIXED-SATELLITE (space-to-Earth) BROADCASTING BROADCASTING-SATELLITE Mobile	40.5-41 FIXED FIXED-SATELLITE (space-to-Earth) BROADCASTING BROADCASTING-SATELLITE Mobile Mobile-satellite (space-to-Earth)	40.5-41 FIXED FIXED-SATELLITE (space-to-Earth) BROADCASTING BROADCASTING-SATELLITE Mobile	G117 40.5-42.5	40.5-41 FIXED-SATELLITE (space-to-Earth) BROADCASTING BROADCASTING-SATELLITE Mobile Fixed
5.547	5.547	5.547		US211
41-42.5 FIXED FIXED-SATELLITE (space-to-Earth) 5.551AA BROADCASTING BROADCASTING-SATELLITE Mobile			US211 42.5-43.5 FIXED FIXED-SATELLITE (Earth-to-space) MOBILE except aeronautical mobile	41-42.5 FIXED BROADCASTING BROADCASTING-SATELLITE MOBILE
5.547 5.551F 5.551G			US211	US211
42.5-43.5 FIXED FIXED-SATELLITE (Earth-to-space) 5.552 MOBILE except aeronautical mobile RADIO ASTRONOMY			42.5-43.5 FIXED FIXED-SATELLITE (Earth-to-space) MOBILE except aeronautical mobile RADIO ASTRONOMY	42.5-43.5 RADIO ASTRONOMY
5.149 5.547			US342	US342

<p>43.5-47 MOBILE 5.553 MOBILE-SATELLITE RADIONAVIGATION RADIONAVIGATION-SATELLITE</p>	<p>43.5-45.5 FIXED-SATELLITE (Earth-to-space) MOBILE-SATELLITE (Earth-to-space)</p>	<p>43.5-45.5</p>	
<p>G117</p>	<p>45.5-46.9 MOBILE MOBILE-SATELLITE (Earth-to-space) RADIONAVIGATION-SATELLITE</p>	<p>45.5-46.9</p>	<p>RF Devices (15)</p>
<p>5.554</p>	<p>46.9-47 MOBILE MOBILE-SATELLITE (Earth-to-space) RADIONAVIGATION- SATELLITE</p>	<p>46.9-47 MOBILE MOBILE-SATELLITE (Earth-to-space) RADIONAVIGATION- SATELLITE FIXED</p>	
<p>5.554</p>	<p>47-48.2</p>	<p>5.554</p>	<p>Amateur (97)</p>
<p>47-47.2 AMATEUR AMATEUR-SATELLITE</p>	<p>47-47.2 AMATEUR AMATEUR-SATELLITE</p>	<p>47-47.2 AMATEUR AMATEUR-SATELLITE</p>	
<p>47.2-50.2 FIXED FIXED-SATELLITE (Earth-to-space) 5.552 MOBILE</p>	<p>47.2-48.2 FIXED FIXED-SATELLITE (Earth-to-space) US297 MOBILE US264</p>	<p>47.2-48.2 FIXED FIXED-SATELLITE (Earth-to-space) US297 MOBILE US264</p>	
<p>5.149 5.340 5.552A 5.555</p>	<p>48.2-50.2 FIXED FIXED-SATELLITE (Earth-to-space) US297 MOBILE US264</p>	<p>48.2-50.2 FIXED FIXED-SATELLITE (Earth-to-space) US297 MOBILE US264</p>	<p>Satellite Communications (25)</p>

50.2-65 GHz (EHF)			Page 79	
International Table		United States Table		
Region 1	Region 2	Region 3	Federal Government	Non-Federal Government
			50.2-50.4 EARTH EXPLORATION-SATELLITE (passive) SPACE RESEARCH (passive)	
5.340 5.555A			US246	
50.4-51.4 FIXED FIXED-SATELLITE (Earth-to-space) MOBILE Mobile-satellite (Earth-to-space)			50.4-51.4 FIXED FIXED-SATELLITE (Earth-to-space) MOBILE MOBILE-SATELLITE (Earth-to-space)	
51.4-52.6 FIXED MOBILE			G117 51.4-52.6 FIXED MOBILE	
5.547 5.556				
52.6-54.25 EARTH EXPLORATION-SATELLITE (passive) SPACE RESEARCH (passive)			52.6-54.25 EARTH EXPLORATION-SATELLITE (passive) SPACE RESEARCH (passive)	
5.340 5.556			US246	
54.25-55.78 EARTH EXPLORATION-SATELLITE (passive) INTER-SATELLITE 5.556A SPACE RESEARCH (passive)			54.25-55.78 EARTH EXPLORATION-SATELLITE (passive) INTER-SATELLITE 5.556A SPACE RESEARCH (passive)	
5.556B				
55.78-56.9 EARTH EXPLORATION-SATELLITE (passive) FIXED 5.557A INTER-SATELLITE 5.556A MOBILE 5.558 SPACE RESEARCH (passive)			55.78-56.9 EARTH EXPLORATION-SATELLITE (passive) FIXED INTER-SATELLITE 5.556A MOBILE 5.558 SPACE RESEARCH (passive)	
5.547 5.557			US263 US353	
56.9-57 EARTH EXPLORATION-SATELLITE (passive) FIXED INTER-SATELLITE 5.558A MOBILE 5.558 SPACE RESEARCH (passive)			56.9-57 EARTH EXPLORATION-SATELLITE (passive) FIXED INTER-SATELLITE G128 MOBILE 5.558	56.9-57 EARTH EXPLORATION-SATELLITE (passive) FIXED MOBILE 5.558 SPACE RESEARCH

5.547 5.557	SPACE RESEARCH (passive)	(passive)	
57-58.2	US263	US263	
EARTH EXPLORATION-SATELLITE (passive) FIXED INTER-SATELLITE 5.556A MOBILE 5.558 SPACE RESEARCH (passive)	EARTH EXPLORATION-SATELLITE (passive) FIXED INTER-SATELLITE 5.556A MOBILE 5.558 SPACE RESEARCH (passive)		RF Devices (15)
5.547 5.557	US263		
58.2-59	US263		
EARTH EXPLORATION-SATELLITE (passive) FIXED MOBILE SPACE RESEARCH (passive)	EARTH EXPLORATION-SATELLITE (passive) FIXED MOBILE SPACE RESEARCH (passive)		
5.547 5.556	US353 US354		
59-59.3	59-59.3	59-59.3	
EARTH EXPLORATION-SATELLITE (passive) FIXED INTER-SATELLITE 5.556A MOBILE 5.558 RADIOLOCATION 5.559 SPACE RESEARCH (passive)	EARTH EXPLORATION-SATELLITE (passive) FIXED INTER-SATELLITE 5.556A MOBILE 5.558 RADIOLOCATION 5.559 SPACE RESEARCH (passive)	EARTH EXPLORATION-SATELLITE (passive) FIXED MOBILE 5.558 RADIOLOCATION 5.559 SPACE RESEARCH (passive)	
59.3-64	US353	US353	
FIXED INTER-SATELLITE MOBILE 5.558 RADIOLOCATION 5.559	59.3-64 FIXED INTER-SATELLITE MOBILE 5.558 RADIOLOCATION 5.559	59.3-64 FIXED MOBILE 5.558 RADIOLOCATION 5.559	RF Devices (15) ISM Equipment (18)
5.138	5.138 US353	5.138 US353	
64-65	64-65	64-65	
FIXED INTER-SATELLITE MOBILE except aeronautical mobile	FIXED INTER-SATELLITE MOBILE except aeronautical mobile	FIXED MOBILE except aeronautical mobile	
5.547 5.556			

65-92 GHz (EHF) Page 81

International Table		United States Table		FCC Rule Part(s)
Region 1	Region 2	Federal Government	Non-Federal Government	
65-66 EARTH EXPLORATION-SATELLITE FIXED INTER-SATELLITE MOBILE except aeronautical mobile SPACE RESEARCH	Region 3	65-66 EARTH EXPLORATION-SATELLITE FIXED MOBILE except aeronautical mobile SPACE RESEARCH	65-66 EARTH EXPLORATION-SATELLITE FIXED INTER-SATELLITE MOBILE except aeronautical mobile SPACE RESEARCH	
5.547				
66-71 INTER-SATELLITE MOBILE 5.553 5.558 MOBILE-SATELLITE RADIO NAVIGATION RADIO NAVIGATION-SATELLITE		66-71 MOBILE 5.553 5.558 MOBILE-SATELLITE RADIO NAVIGATION RADIO NAVIGATION-SATELLITE	66-71 INTER-SATELLITE MOBILE 5.553 5.558 MOBILE-SATELLITE RADIO NAVIGATION RADIO NAVIGATION-SATELLITE	
5.554		5.554	5.554	
71-74 FIXED FIXED-SATELLITE (space-to-Earth) MOBILE MOBILE-SATELLITE (space-to-Earth)		71-74 FIXED FIXED-SATELLITE (Earth-to-space) MOBILE MOBILE-SATELLITE (Earth-to-space)		
74-76 FIXED FIXED-SATELLITE (space-to-Earth) MOBILE BROADCASTING BROADCASTING-SATELLITE Space research (space-to-Earth)		US270 74-75.5 FIXED FIXED-SATELLITE (Earth-to-space) US297 MOBILE 75.5-76		Amateur (97)
5.559A 5.561				
76-77.5 RADIO ASTRONOMY RADIOLOCATION Amateur Amateur-satellite Space research (space-to-Earth)		76-81 RADIOLOCATION	76-77 RADIOLOCATION Amateur 77-77.5 RADIOLOCATION Amateur Amateur-satellite	Amateur (97) RF Devices (15) Amateur (97)
5.149				

<p>77-5-78 AMATEUR AMATEUR-SATELLITE Radio astronomy Space research (space-to-Earth) 5.149</p>	<p>77-5-78 RADIOLOCATION AMATEUR AMATEUR-SATELLITE</p>
<p>78-79 RADIOLOCATION Amateur Amateur-satellite Radio astronomy Space research (space-to-Earth) 5.149 5.560</p>	<p>78-81 RADIOLOCATION Amateur Amateur-satellite 5.560</p>
<p>79-81 RADIO ASTRONOMY RADIOLOCATION Amateur Amateur-satellite Space research (space-to-Earth) 5.149</p>	<p>81-84 FIXED FIXED-SATELLITE (space-to-Earth) MOBILE MOBILE-SATELLITE (space-to-Earth) 5.560</p>
<p>84-86 FIXED FIXED SATELLITE (Earth-to-space) 5.561B MOBILE RADIO ASTRONOMY</p>	<p>84-86 FIXED MOBILE BROADCASTING- SATELLITE US211 US377</p>
<p>5.149 86-92 EARTH EXPLORATION-SATELLITE (passive) RADIO ASTRONOMY SPACE RESEARCH (passive) 5.340</p>	<p>86-92 EARTH EXPLORATION-SATELLITE (passive) RADIO ASTRONOMY US74 SPACE RESEARCH (passive) US246</p>

International Table		United States Table		FCC Rule Part(s)		
					Region 1	Region 2
92-119.98 GHz (EHF)						
92-94	FIXED MOBILE RADIO ASTRONOMY RADIOLOCATION			92-95	FIXED MOBILE FIXED-SATELLITE (Earth-to-space) RADIOLOCATION	
5.149						
94-94.1	EARTH EXPLORATION-SATELLITE (active) RADIOLOCATION SPACE RESEARCH (active) Radio astronomy					
5.562 5.562A						
94.1-95	FIXED MOBILE RADIO ASTRONOMY RADIOLOCATION					
5.149				US342		
95-100	FIXED MOBILE RADIO ASTRONOMY RADIOLOCATION RADIO NAVIGATION RADIO NAVIGATION-SATELLITE			95-100 MOBILE US376 MOBILE-SATELLITE RADIO NAVIGATION RADIO NAVIGATION-SATELLITE Radiolocation		
5.149 5.554				5.149 5.554		
100-102	EARTH EXPLORATION-SATELLITE (passive) RADIO ASTRONOMY SPACE RESEARCH (passive)			100-102 EARTH EXPLORATION-SATELLITE (passive) SPACE RESEARCH (passive)		
5.340 5.341				5.341 US246		
102-105	FIXED MOBILE RADIO ASTRONOMY			102-105 FIXED FIXED-SATELLITE (space-to-Earth)		
5.149 5.341				5.341 US211		

<p>105-109.5 FIXED MOBILE RADIO ASTRONOMY SPACE RESEARCH (passive) 5.562B</p>	<p>105-116 EARTH EXPLORATION-SATELLITE (passive) RADIO ASTRONOMY US74 SPACE RESEARCH (passive)</p>	
<p>5.149 5.341 109.5-111.8 EARTH EXPLORATION-SATELLITE (passive) RADIO ASTRONOMY SPACE RESEARCH (passive)</p>		
<p>5.340 5.341 111.8-114.25 FIXED MOBILE RADIO ASTRONOMY SPACE RESEARCH (passive) 5.562B</p>		
<p>5.149 5.341 114.25-116 EARTH EXPLORATION-SATELLITE (passive) RADIO ASTRONOMY SPACE RESEARCH (passive)</p>		
<p>5.340 5.341 116-119.98 EARTH EXPLORATION-SATELLITE (passive) INTER-SATELLITE 5.562C SPACE RESEARCH (passive)</p>	<p>5.341 US246 116-119.98 EARTH EXPLORATION-SATELLITE (passive) FIXED INTER-SATELLITE MOBILE US373 SPACE RESEARCH (passive)</p>	
<p>5.341</p>	<p>5.341 US211 US263</p>	

119.98-164 GHz (EHF)		Page 85	
International Table		United States Table	
Region 1	Region 2	Federal Government	Non-Federal Government
Region 3			
5.138 5.341	119.98-122.25 EARTH EXPLORATION-SATELLITE (passive) INTER-SATELLITE 5.362C SPACE RESEARCH (passive)	119.98-120.02 EARTH EXPLORATION-SATELLITE (passive) FIXED INTER-SATELLITE MOBILE US373 SPACE RESEARCH (passive) Amateur	
122.25-123	FIXED INTER-SATELLITE MOBILE 5.558 Amateur	5.341 US211 US263	
5.138		120.02-126 EARTH EXPLORATION-SATELLITE (passive) FIXED INTER-SATELLITE MOBILE US373 SPACE RESEARCH (passive)	ISM Equipment (18)
123-130	FIXED SATELLITE (space-to-Earth) MOBILE-SATELLITE (space-to-Earth) RADIIONAVIGATION RADIIONAVIGATION-SATELLITE Radio astronomy 5.562D		
5.149 5.554		5.138 US211 US263	
130-134	EARTH EXPLORATION-SATELLITE (active) 5.562E FIXED INTER-SATELLITE MOBILE 5.558 RADIO ASTRONOMY	126-134 FIXED INTER-SATELLITE MOBILE US373 RADIOLLOCATION US374	
5.149 5.562A			
134-136	AMATEUR AMATEUR-SATELLITE Radio astronomy	134-142 MOBILE US376 MOBILE-SATELLITE RADIIONAVIGATION RADIIONAVIGATION-SATELLITE Radiolocation	
136-141	RADIO ASTRONOMY RADIOLLOCATION Amateur Amateur-satellite		
5.149			

FIXED MOBILE RADIO ASTRONOMY RADIOLOCATION 5.149 148.5-151.5 EARTH EXPLORATION-SATELLITE (passive) RADIO ASTRONOMY SPACE RESEARCH (passive)	142-144 AMATEUR AMATEUR-SATELLITE 144-149 RADIOLOCATION Amateur Amateur-satellite 5.149 US372 149-150 FIXED FIXED-SATELLITE (space-to-Earth) MOBILE 150-151 EARTH EXPLORATION-SATELLITE (passive) FIXED FIXED-SATELLITE (space-to-Earth) MOBILE SPACE RESEARCH (passive) US263 US342 US369 151-164 FIXED FIXED-SATELLITE (space-to-Earth)	Amateur (97)
5.340 151.5-155.5 FIXED MOBILE RADIO ASTRONOMY RADIOLOCATION 5.149 155.5-158.5 EARTH EXPLORATION-SATELLITE (passive) 5.562F FIXED MOBILE RADIO ASTRONOMY SPACE RESEARCH (passive) 5.562B 5.149 5.562G 158.5-164 FIXED FIXED-SATELLITE (space-to-Earth) MOBILE MOBILE-SATELLITE (space-to-Earth)	US211	

164-217 GHz (EHF)		Page 87	
International Table		United States Table	
Region 1	Region 2	Federal Government	Non-Federal Government
164-167 EARTH EXPLORATION-SATELLITE (passive) RADIO ASTRONOMY SPACE RESEARCH (passive)	Region 3	164-168 EARTH EXPLORATION-SATELLITE (passive) RADIO ASTRONOMY SPACE RESEARCH (passive)	
5.340		US246	
167-174.5 FIXED FIXED-SATELLITE (space-to-Earth) INTER-SATELLITE MOBILE 5.558		168-170 FIXED MOBILE	
		170-174.5 FIXED INTER-SATELLITE MOBILE 5.558	
5.149 5.562D		US342 US369	
174.5-174.8 FIXED INTER-SATELLITE MOBILE 5.558		174.5-174.8 EARTH EXPLORATION-SATELLITE (passive) FIXED INTER-SATELLITE MOBILE 5.558 SPACE RESEARCH (passive)	
174.8-182 EARTH EXPLORATION-SATELLITE (passive) INTER-SATELLITE 5.562H SPACE RESEARCH (passive)		US263 US342 US369	
		174.8-176.5 EARTH EXPLORATION-SATELLITE (passive) FIXED INTER-SATELLITE MOBILE US373 SPACE RESEARCH (passive)	
		US263 US342 US369	
		176.5-182 FIXED INTER-SATELLITE MOBILE US373	
182-185 EARTH EXPLORATION-SATELLITE (passive) RADIO ASTRONOMY SPACE RESEARCH (passive)		US211 US342 US369	
5.340 5.563		182-185 EARTH EXPLORATION-SATELLITE (passive) RADIO ASTRONOMY SPACE RESEARCH (passive)	
		US246	

185-190 EARTH EXPLORATION-SATELLITE (passive) INTER-SATELLITE 5.562H SPACE RESEARCH (passive)	185-190 FIXED INTER-SATELLITE MOBILE US373 US211 US342 US369	
190-191.8 EARTH EXPLORATION-SATELLITE (passive) SPACE RESEARCH (passive)	190-191.8 MOBILE US376 MOBILE-SATELLITE RADIONAVIGATION RADIONAVIGATION-SATELLITE	
5.340 191.8-200 FIXED INTER-SATELLITE MOBILE 5.558 MOBILE-SATELLITE RADIONAVIGATION RADIONAVIGATION-SATELLITE	US371 191.8-200 MOBILE US376 MOBILE-SATELLITE RADIONAVIGATION RADIONAVIGATION-SATELLITE	
5.149 5.341 5.554 200-202 EARTH EXPLORATION-SATELLITE (passive) RADIO ASTRONOMY SPACE RESEARCH (passive)	5.341 5.554 200-202 EARTH EXPLORATION-SATELLITE (passive) FIXED MOBILE SPACE RESEARCH (passive)	
5.340 5.341 5.563A 202-209 EARTH EXPLORATION-SATELLITE (passive) RADIO ASTRONOMY SPACE RESEARCH (passive)	5.341 US263 202-217 FIXED FIXED-SATELLITE (Earth-to-space) MOBILE	
5.340 5.341 5.563A 209-217 FIXED FIXED-SATELLITE (Earth-to-space) MOBILE RADIO ASTRONOMY	5.341	

217-1000 GHz (EHF)		Page 89	
International Table		United States Table	
Region 1	Region 3	Federal Government	Non-Federal Government
217-226 FIXED FIXED-SATELLITE (Earth-to-space) MOBILE RADIO ASTRONOMY SPACE RESEARCH (passive) 5.562B		217-231 EARTH EXPLORATION-SATELLITE (passive) RADIO ASTRONOMY US74 SPACE RESEARCH (passive)	
5.149 5.341		5.341 US246	
226-231.5 EARTH EXPLORATION-SATELLITE (passive) RADIO ASTRONOMY SPACE RESEARCH (passive)		231-235 FIXED FIXED-SATELLITE (space-to-Earth) MOBILE Radiolocation	
5.340			
231.5-232 FIXED MOBILE Radiolocation			
232-235 FIXED FIXED-SATELLITE (space-to-Earth) MOBILE Radiolocation			
235-238 EARTH EXPLORATION-SATELLITE (passive) FIXED-SATELLITE (space-to-Earth) SPACE RESEARCH (passive)		US211 235-238 EARTH EXPLORATION-SATELLITE (passive) FIXED FIXED-SATELLITE (space-to-Earth) MOBILE SPACE RESEARCH (passive)	
5.563A 5.563B		US263	
238-240 FIXED FIXED-SATELLITE (space-to-Earth) MOBILE RADIOLOCATION RADIO NAVIGATION RADIO NAVIGATION-SATELLITE		238-241 FIXED FIXED-SATELLITE (space-to-Earth) MOBILE Radiolocation	
240-241 FIXED MOBILE RADIOLOCATION			

241-248 RADIO ASTRONOMY RADIOLOCATION Amateur Amateur-satellite	241-248 RADIOLOCATION Amateur Amateur-satellite	241-248 RADIOLOCATION Amateur Amateur-satellite	ISM Equipment (18) Amateur (97)
5.138 5.149	5.138	5.138	
248-250 AMATEUR AMATEUR-SATELLITE Radio astronomy	248-250	248-250 AMATEUR AMATEUR-SATELLITE	Amateur (97)
5.149			
250-252 EARTH EXPLORATION-SATELLITE (passive) RADIO ASTRONOMY SPACE RESEARCH (passive)	250-252 EARTH EXPLORATION-SATELLITE (passive) SPACE RESEARCH (passive)		
5.340 5.563A	US342 US372		
252-265 FIXED MOBILE MOBILE-SATELLITE (Earth-to-space) RADIO ASTRONOMY RADIO NAVIGATION RADIO NAVIGATION-SATELLITE	252-265 MOBILE US376 MOBILE-SATELLITE RADIO NAVIGATION RADIO NAVIGATION-SATELLITE		
5.149 5.554	5.554 US211 US342 US369 US372		
265-275 FIXED FIXED-SATELLITE (Earth-to-space) MOBILE RADIO ASTRONOMY	265-275 FIXED FIXED-SATELLITE (Earth-to-space) MOBILE RADIO ASTRONOMY		
5.149 5.563A	US342		
275-1000 (Not allocated) 5.565	275-300 FIXED MOBILE		
	US375		
	300-1000 (Not allocated) US375		Amateur (97)

Note: The International Telecommunication Union has re-numbered international footnotes using a new numbering scheme and has substantively revised the text of certain of these international footnotes. These international footnotes shall be listed immediately below this note in I. Until such time as the Commission has considered the substantively revised international footnotes that have previously been adopted domestically, certain of the old international footnotes shall apply in the United States. These footnotes appear immediately after footnote 5.565 in II.

I. New Numbering Scheme

5.53 Administrations authorizing the use of frequencies below 9 kHz shall ensure that no harmful interference is caused thereby to the services to which the bands above 9 kHz are allocated.

5.54 Administrations conducting scientific research using frequencies below 9 kHz are urged to advise other administrations that may be concerned in order that such research may be afforded all practicable protection from harmful interference.

5.55 *Additional allocation:* in Armenia, Azerbaijan, Bulgaria, Georgia, Kyrgyzstan, the Russian Federation, Tajikistan and Turkmenistan, the band 14–17 kHz is also allocated to the radionavigation service on a primary basis.

5.56 The stations of services to which the bands 14–19.95 kHz and 20.05–70 kHz and in Region 1 also the bands 72–84 kHz and 86–90 kHz are allocated may transmit standard frequency and time signals. Such stations shall be afforded protection from harmful interference. In Armenia, Azerbaijan, Belarus, Bulgaria, Georgia, Kazakstan, Mongolia, Uzbekistan, Kyrgyzstan, Slovakia, the Czech Rep., Russian Federation, Tajikistan, Turkmenistan and Ukraine, the frequencies 25 kHz and 50 kHz will be used for this purpose under the same conditions.

5.57 The use of the bands 14–19.95 kHz, 20.05–70 kHz and 70–90 kHz (72–84 kHz and 86–90 kHz in Region 1) by the maritime mobile service is limited to coast radiotelegraph stations (A1A and F1B only). Exceptionally, the use of class J2B or J7B emissions is authorized subject to the necessary bandwidth not exceeding that normally used for class A1A or F1B emissions in the band concerned.

5.58 *Additional allocation:* in Armenia, Azerbaijan, Georgia, Kazakstan, Kyrgyzstan, the Russian Federation, Tajikistan and Turkmenistan, the band 67–70 kHz is also allocated to the radionavigation service on a primary basis.

5.59 *Different category of service:* in Bangladesh and Pakistan, the allocation of the bands 70–72 kHz and 84–86 kHz to the fixed and maritime mobile services is on a primary basis (see No. 5.33).

5.60 In the bands 70–90 kHz (70–86 kHz in Region 1) and 110–130 kHz (112–130 kHz in Region 1), pulsed radionavigation systems may be used on condition that they do not cause harmful interference to other services to which these bands are allocated.

5.61 In Region 2, the establishment and operation of stations in the maritime radionavigation service in the bands 70–90 kHz and 110–130 kHz shall be subject to agreement obtained under No. 9.21 with administrations whose services, operating in accordance with the Table, may be affected. However, stations of the fixed, maritime mobile and radiolocation services shall not cause harmful interference to stations in the maritime radionavigation service established under such agreements.

5.62 Administrations which operate stations in the radionavigation service in the band 90–110 kHz are urged to coordinate technical and operating characteristics in such a way as to avoid harmful interference to the services provided by these stations.

5.64 Only classes A1A or F1B, A2C, A3C, F1C or F3C emissions are authorized for stations of the fixed service in the bands allocated to this service between 90 kHz and 160 kHz (148.5 kHz in Region 1) and for stations of the maritime mobile service in the bands allocated to this service between 110 kHz and 160 kHz (148.5 kHz in Region 1). Exceptionally, class J2B or J7B emissions are also authorized in the bands between 110 kHz and 160 kHz (148.5 kHz in Region 1) for stations of the maritime mobile service.

5.65 *Different category of service:* in Bangladesh, the allocation of the bands 112–117.6 kHz and 126–129 kHz to the fixed and maritime mobile services is on a primary basis (see No. 5.33).

5.66 *Different category of service:* in Germany, the allocation of the band 115–117.6 kHz to the fixed and maritime mobile services is on a primary basis (see No. 5.33) and to the radionavigation service on a secondary basis (see No. 5.32).

5.67 *Additional allocation:* in Azerbaijan, Bulgaria, Mongolia, Kyrgyzstan, Romania and Turkmenistan, the band 130–148.5 kHz is also allocated to the radionavigation service on a secondary basis. Within and between these countries this service shall have an equal right to operate.

5.68 *Alternative allocation:* in Angola, Botswana, Burundi, the Congo,

Malawi, Dem. Rep. of the Congo, Rwanda and South Africa, the band 160–200 kHz is allocated to the fixed service on a primary basis.

5.69 *Additional allocation:* in Somalia, the band 200–255 kHz is also allocated to the aeronautical radionavigation service on a primary basis.

5.70 *Alternative allocation:* in Angola, Botswana, Burundi, Cameroon, the Central African Rep., the Congo, Ethiopia, Kenya, Lesotho, Madagascar, Malawi, Mozambique, Namibia, Nigeria, Oman, Dem. Rep. of the Congo, Rwanda, South Africa, Swaziland, Tanzania, Chad, Zambia and Zimbabwe, the band 200–283.5 kHz is allocated to the aeronautical radionavigation service on a primary basis.

5.71 *Alternative allocation:* in Tunisia, the band 255–283.5 kHz is allocated to the broadcasting service on a primary basis.

5.72 Norwegian stations of the fixed service situated in northern areas (north of 60° N) subject to auroral disturbances are allowed to continue operation on four frequencies in the bands 283.5–490 kHz and 510–526.5 kHz.

5.73 The band 285–325 kHz (283.5–325 kHz in Region 1) in the maritime radionavigation service may be used to transmit supplementary navigational information using narrow-band techniques, on condition that no harmful interference is caused to radiobeacon stations operating in the radionavigation service.

5.74 *Additional Allocation:* in Region 1, the frequency band 285.3–285.7 kHz is also allocated to the maritime radionavigation service (other than radiobeacons) on a primary basis.

5.75 *Different category of service:* in Armenia, Azerbaijan, Belarus, Georgia, Moldova, Kyrgyzstan, the Russian Federation, Tajikistan, Turkmenistan, Ukraine and the Black Sea areas of Bulgaria and Romania, the allocation of the band 315–325 kHz to the maritime radionavigation service is on a primary basis under the condition that in the Baltic Sea area, the assignment of frequencies in this band to new stations in the maritime or aeronautical radionavigation services shall be subject to prior consultation between the administrations concerned.

5.76 The frequency 410 kHz is designated for radio direction-finding in the maritime radionavigation service. The other radionavigation services to which the band 405–415 kHz is allocated shall not cause harmful

interference to radio direction-finding in the band 406.5–413.5 kHz.

5.77 *Different category of service:* in Australia, China, the French Overseas Territories of Region 3, India, Indonesia (until 1 January 2005), Iran (Islamic Republic of), Japan, Pakistan, Papua New Guinea and Sri Lanka, the allocation of the band 415–495 kHz to the aeronautical radionavigation service is on a primary basis. Administrations in these countries shall take all practical steps necessary to ensure that aeronautical radionavigation stations in the band 435–495 kHz do not cause interference to reception by coast stations of ship stations transmitting on frequencies designated for ship stations on a worldwide basis (see No. 52.39).

5.78 *Different category of service:* in Cuba, the United States of America and Mexico, the allocation of the band 415–435 kHz to the aeronautical radionavigation service is on a primary basis.

5.79 The use of the bands 415–495 kHz and 505–526.5 kHz (505–510 kHz in Region 2) by the maritime mobile service is limited to radiotelegraphy.

5.79A When establishing coast stations in the NAVTEX service on the frequencies 490 kHz, 518 kHz and 4 209.5 kHz, administrations are strongly recommended to coordinate the operating characteristics in accordance with the procedures of the International Maritime Organization (IMO) (see Resolution 339 (Rev.WRC-97)).

5.80 In Region 2, the use of the band 435–495 kHz by the aeronautical radionavigation service is limited to non-directional beacons not employing voice transmission.

5.82 In the maritime mobile service, the frequency 490 kHz is, from the date of full implementation of the GMDSS (see Resolution 331 (Rev.WRC-97)), to be used exclusively for the transmission by coast stations of navigational and meteorological warnings and urgent information to ships, by means of narrow-band direct-printing telegraphy. The conditions for use of the frequency 490 kHz are prescribed in Articles 31 and 52. In using the band 415–495 kHz for the aeronautical radionavigation service, administrations are requested to ensure that no harmful interference is caused to the frequency 490 kHz.

5.83 The frequency 500 kHz is an international distress and calling frequency for Morse radiotelegraphy. The conditions for its use are prescribed in Articles 31 and 52, and in Appendix 13.

5.84 The conditions for the use of the frequency 518 kHz by the maritime mobile service are prescribed in Articles 31 and 52 and in Appendix 13.

5.86 In Region 2, in the band 525–535 kHz the carrier power of broadcasting stations shall not exceed 1 kW during the day and 250 W at night.

5.87 *Additional allocation:* in Angola, Botswana, Lesotho, Malawi, Mozambique, Namibia, South Africa, Swaziland, Zambia and Zimbabwe, the band 526.5–535 kHz is also allocated to the mobile service on a secondary basis.

5.87A *Additional allocation:* in Uzbekistan, the band 526.5–1606.5 kHz is also allocated to the radionavigation service on a primary basis. Such use is subject to agreement obtained under No. 9.21 with administrations concerned and limited to ground-based radiobeacons in operation on 27 October 1997 until the end of their lifetime.

5.88 *Additional allocation:* in China, the band 526.5–535 kHz is also allocated to the aeronautical radionavigation service on a secondary basis.

5.89 In Region 2, the use of the band 1605–1705 kHz by stations of the broadcasting service is subject to the Plan established by the Regional Administrative Radio Conference (Rio de Janeiro, 1988).

The examination of frequency assignments to stations of the fixed and mobile services in the band 1625–1705 kHz shall take account of the allotments appearing in the Plan established by the Regional Administrative Radio Conference (Rio de Janeiro, 1988).

5.90 In the band 1605–1705 kHz, in cases where a broadcasting station of Region 2 is concerned, the service area of the maritime mobile stations in Region 1 shall be limited to that provided by ground-wave propagation.

5.91 *Additional allocation:* in the Philippines and Sri Lanka, the band 1606.5–1705 kHz is also allocated to the broadcasting service on a secondary basis.

5.92 Some countries of Region 1 use radiodetermination systems in the bands 1606.5–1625 kHz, 1635–1800 kHz, 1850–2160 kHz, 2194–2300 kHz, 2502–2850 kHz and 3500–3800 kHz, subject to agreement obtained under No. 9.21. The radiated mean power of these stations shall not exceed 50 W.

5.93 *Additional allocation:* in Angola, Armenia, Azerbaijan, Belarus, Georgia, Hungary, Kazakhstan, Latvia, Lithuania, Moldova, Mongolia, Nigeria, Uzbekistan, Poland, Kyrgyzstan, Slovakia, the Czech Rep., the Russian Federation, Tajikistan, Chad, Turkmenistan and Ukraine, the bands 1625–1635 kHz, 1800–1810 kHz and 2160–2170 kHz and, in Bulgaria, the bands 1625–1635 kHz and 1800–1810 kHz, are also allocated to the fixed and land mobile services on a primary basis,

subject to agreement obtained under No. 9.21.

5.96 In Germany, Armenia, Austria, Azerbaijan, Belarus, Denmark, Estonia, Finland, Georgia, Hungary, Ireland, Israel, Jordan, Kazakhstan, Latvia, Liechtenstein, Lithuania, Malta, Moldova, Norway, Uzbekistan, Poland, Kyrgyzstan, Slovakia, the Czech Rep., the United Kingdom, the Russian Federation, Sweden, Switzerland, Tajikistan, Turkmenistan and Ukraine, administrations may allocate up to 200 kHz to their amateur service in the bands 1715–1800 kHz and 1850–2000 kHz. However, when allocating the bands within this range to their amateur service, administrations shall, after prior consultation with administrations of neighbouring countries, take such steps as may be necessary to prevent harmful interference from their amateur service to the fixed and mobile services of other countries. The mean power of any amateur station shall not exceed 10 W.

5.97 In Region 3, the Loran system operates either on 1850 kHz or 1950 kHz, the bands occupied being 1825–1875 kHz and 1925–1975 kHz respectively. Other services to which the band 1800–2000 kHz is allocated may use any frequency therein on condition that no harmful interference is caused to the Loran system operating on 1850 kHz or 1950 kHz.

5.98 *Alternative allocation:* in Angola, Armenia, Azerbaijan, Belarus, Belgium, Bulgaria, Cameroon, the Congo, Denmark, Egypt, Eritrea, Spain, Ethiopia, Georgia, Greece, Italy, Kazakhstan, Lebanon, Lithuania, Moldova, the Netherlands, Syria, Kyrgyzstan, the Russian Federation, Somalia, Tajikistan, Tunisia, Turkmenistan, Turkey and Ukraine, the band 1810–1830 kHz is allocated to the fixed and mobile, except aeronautical mobile, services on a primary basis.

5.99 *Additional allocation:* in Saudi Arabia, Austria, Bosnia and Herzegovina, Iraq, Libya, Uzbekistan, Slovakia, the Czech Rep., Romania, Slovenia, Chad, Togo and Yugoslavia, the band 1810–1830 kHz is also allocated to the fixed and mobile, except aeronautical mobile, services on a primary basis.

5.100 In Region 1, the authorization to use the band 1810–1830 kHz by the amateur service in countries situated totally or partially north of 40° N shall be given only after consultation with the countries mentioned in Nos. 5.98 and 5.99 to define the necessary steps to be taken to prevent harmful interference between amateur stations and stations of other services operating in accordance with Nos. 5.98 and 5.99.

5.101 *Alternative allocation:* in Burundi and Lesotho, the band 1810–1850 kHz is allocated to the fixed and mobile, except aeronautical mobile, services on a primary basis.

5.102 *Alternative allocation:* in Argentina, Bolivia, Chile, Mexico, Paraguay, Peru, Uruguay and Venezuela, the band 1850–2000 kHz is allocated to the fixed, mobile except aeronautical mobile, radiolocation and radionavigation services on a primary basis.

5.103 In Region 1, in making assignments to stations in the fixed and mobile services in the bands 1850–2045 kHz, 2194–2498 kHz, 2502–2625 kHz and 2650–2850 kHz, administrations should bear in mind the special requirements of the maritime mobile service.

5.104 In Region 1, the use of the band 2025–2045 kHz by the meteorological aids service is limited to oceanographic buoy stations.

5.105 In Region 2, except in Greenland, coast stations and ship stations using radiotelephony in the band 2065–2107 kHz shall be limited to class J3E emissions and to a peak envelope power not exceeding 1 kW. Preferably, the following carrier frequencies should be used: 2065.0 kHz, 2079.0 kHz, 2082.5 kHz, 2086.0 kHz, 2093.0 kHz, 2096.5 kHz, 2100.0 kHz and 2103.5 kHz. In Argentina and Uruguay, the carrier frequencies 2068.5 kHz and 2075.5 kHz are also used for this purpose, while the frequencies within the band 2072–2075.5 kHz are used as provided in No. 52.165.

5.106 In Regions 2 and 3, provided no harmful interference is caused to the maritime mobile service, the frequencies between 2065 kHz and 2107 kHz may be used by stations of the fixed service communicating only within national borders and whose mean power does not exceed 50 W. In notifying the frequencies, the attention of the Bureau should be drawn to these provisions.

5.107 *Additional allocation:* in Saudi Arabia, Botswana, Eritrea, Ethiopia, Iraq, Lesotho, Libya, Somalia and Swaziland, the band 2160–2170 kHz is also allocated to the fixed and mobile, except aeronautical mobile (R), services on a primary basis. The mean power of stations in these services shall not exceed 50 W.

5.108 The carrier frequency 2182 kHz is an international distress and calling frequency for radiotelephony. The conditions for the use of the band 2173.5–2190.5 kHz are prescribed in Articles 31 and 52 and in Appendix 13.

5.109 The frequencies 2187.5 kHz, 4207.5 kHz, 6312 kHz, 8414.5 kHz, 12577 kHz and 16804.5 kHz are

international distress frequencies for digital selective calling. The conditions for the use of these frequencies are prescribed in Article 31.

5.110 The frequencies 2174.5 kHz, 4177.5 kHz, 6268 kHz, 8376.5 kHz, 12520 kHz and 16695 kHz are international distress frequencies for narrow-band direct-printing telegraphy. The conditions for the use of these frequencies are prescribed in Article 31.

5.111 The carrier frequencies 2182 kHz, 3023 kHz, 5680 kHz, 8364 kHz and the frequencies 121.5 MHz, 156.8 MHz and 243 MHz may also be used, in accordance with the procedures in force for terrestrial radiocommunication services, for search and rescue operations concerning manned space vehicles. The conditions for the use of the frequencies are prescribed in Article 31 and in Appendix 13.

The same applies to the frequencies 10003 kHz, 14993 kHz and 19993 kHz, but in each of these cases emissions must be confined in a band of ± 3 kHz about the frequency.

5.112 *Alternative allocation:* in Bosnia and Herzegovina, Cyprus, Denmark, Greece, Iceland, Malta, Sri Lanka and Yugoslavia, the band 2194–2300 kHz is allocated to the fixed and mobile, except aeronautical mobile, services on a primary basis.

5.113 For the conditions for the use of the bands 2300–2495 kHz (2498 kHz in Region 1), 3200–3400 kHz, 4750–4995 kHz and 5005–5060 kHz by the broadcasting service, see Nos. 5.16 to 5.20, 5.21 and 23.3 to 23.10.

5.114 *Alternative allocation:* in Bosnia and Herzegovina, Cyprus, Denmark, Greece, Iraq, Malta, and Yugoslavia, the band 2502–2625 kHz is allocated to the fixed and mobile, except aeronautical mobile, services on a primary basis.

5.115 The carrier (reference) frequencies 3023 kHz and 5680 kHz may also be used, in accordance with Article 31 and Appendix 13 by stations of the maritime mobile service engaged in coordinated search and rescue operations.

5.116 Administrations are urged to authorize the use of the band 3155–3195 kHz to provide a common worldwide channel for low power wireless hearing aids. Additional channels for these devices may be assigned by administrations in the bands between 3155 kHz and 3400 kHz to suit local needs.

It should be noted that frequencies in the range 3000 kHz to 4000 kHz are suitable for hearing aid devices which are designed to operate over short distances within the induction field.

5.117 *Alternative allocation:* in Bosnia and Herzegovina, Cyprus, Côte d'Ivoire, Denmark, Egypt, Greece, Iceland, Liberia, Malta, Sri Lanka, Togo and Yugoslavia, the band 3155–3200 kHz is allocated to the fixed and mobile, except aeronautical mobile, services on a primary basis.

5.118 *Additional allocation:* in the United States, Japan, Mexico, Peru and Uruguay, the band 3230–3400 kHz is also allocated to the radiolocation service on a secondary basis.

5.119 *Additional allocation:* in Honduras, Mexico, Peru and Venezuela, the band 3500–3750 kHz is also allocated to the fixed and mobile services on a primary basis.

5.120 For the use of the bands allocated to the amateur service at 3.5 MHz, 7.0 MHz, 10.1 MHz, 14.0 MHz, 18.068 MHz, 21.0 MHz, 24.89 MHz and 144 MHz in the event of natural disasters, see Resolution 640.¹(SUP-WRC-2000)

5.122 *Alternative allocation:* in Argentina, Bolivia, Chile, Ecuador, Paraguay, Peru and Uruguay, the band 3750–4000 kHz is allocated to the fixed and mobile, except aeronautical mobile, services on a primary basis.

5.123 *Additional allocation:* in Botswana, Lesotho, Malawi, Mozambique, Namibia, South Africa, Swaziland, Zambia and Zimbabwe, the band 3900–3950 kHz is also allocated to the broadcasting service on a primary basis, subject to agreement obtained under No. 9.21.

5.125 *Additional allocation:* in Greenland, the band 3950–4000 kHz is also allocated to the broadcasting service on a primary basis. The power of the broadcasting stations operating in this band shall not exceed that necessary for a national service and shall in no case exceed 5 kW.

5.126 In Region 3, the stations of those services to which the band 3995–4005 kHz is allocated may transmit standard frequency and time signals.

5.127 The use of the band 4000–4063 kHz by the maritime mobile service is limited to ship stations using radiotelephony (see No. 52.220 and Appendix 17).

5.128 In Afghanistan, Argentina, Armenia, Azerbaijan, Belarus, Botswana, Burkina Faso, the Central African Rep., China, Georgia, India, Kazakstan, Mali, Niger, Kyrgyzstan, Russian Federation, Tajikistan, Chad, Turkmenistan and Ukraine, in the bands 4063–4123 kHz, 4130–4133 kHz and 4408–4438 kHz, stations of limited power in the fixed service which are situated at least 600 km from the coast

¹ This Resolution was abrogated by WRC-97.

may operate on condition that harmful interference is not caused to the maritime mobile service.

5.129 On condition that harmful interference is not caused to the maritime mobile service, the frequencies in the bands 4063–4123 kHz and 4130–4438 kHz may be used exceptionally by stations in the fixed service communicating only within the boundary of the country in which they are located with a mean power not exceeding 50 W.

5.130 The conditions for the use of the carrier frequencies 4125 kHz and 6215 kHz are prescribed in Articles 31 and 52 and in Appendix 13.

5.131 The frequency 4209.5 kHz is used exclusively for the transmission by coast stations of meteorological and navigational warnings and urgent information to ships by means of narrow-band direct-printing techniques.

5.132 The frequencies 4210 kHz, 6314 kHz, 8416.5 kHz, 12579 kHz, 16806.5 kHz, 19680.5 kHz, 22376 kHz and 26100.5 kHz are the international frequencies for the transmission of maritime safety information (MSI) (see Appendix 17).

5.133 *Different category of service:* in Armenia, Azerbaijan, Belarus, Georgia, Kazakstan, Latvia, Lithuania, Moldova, Uzbekistan, Kyrgyzstan, Russian Federation, Tajikistan, Turkmenistan and Ukraine, the allocation of the band 5130–5250 kHz to the mobile, except aeronautical mobile, service is on a primary basis (see No. 5.33).

5.134 The use of the bands 5900–5950 kHz, 7300–7350 kHz, 9400–9500 kHz, 11600–11650 kHz, 12050–12100 kHz, 13570–13600 kHz, 13800–13870 kHz, 15600–15800 kHz, 17480–17550 kHz and 18900–19020 kHz by the broadcasting service is limited to single-sideband emissions with the characteristics specified in Appendix 11 or to any other spectrum-efficient modulation techniques recommended by ITU-R. Access to these bands shall be subject to the decisions of a competent conference.

5.136 The band 5900–5950 kHz is allocated, until 1 April 2007, to the fixed service on a primary basis, as well as to the following services: in Region 1 to the land mobile service on a primary basis, in Region 2 to the mobile except aeronautical mobile (R) service on a primary basis, and in Region 3 to the mobile except aeronautical mobile (R) service on a secondary basis, subject to application of the procedure referred to in Resolution 21 (Rev.WRC–95). After 1 April 2007, frequencies in this band may be used by stations in the above-mentioned services, communicating

only within the boundary of the country in which they are located, on the condition that harmful interference is not caused to the broadcasting service. When using frequencies for these services, administrations are urged to use the minimum power required and to take account of the seasonal use of frequencies by the broadcasting service published in accordance with the Radio Regulations.

5.137 On condition that harmful interference is not caused to the maritime mobile service, the bands 6200–6213.5 kHz and 6220.5–6525 kHz may be used exceptionally by stations in the fixed service, communicating only within the boundary of the country in which they are located, with a mean power not exceeding 50 W. At the time of notification of these frequencies, the attention of the Bureau will be drawn to the above conditions.

5.138 The following bands: 6765–6795 kHz (centre frequency 6780 kHz), 433.05–434.79 MHz (centre frequency 433.92 MHz) in Region 1 except in the countries mentioned in No. 5.280, 61–61.5 GHz (centre frequency 61.25 GHz), 122–123 GHz (centre frequency 122.5 GHz), and 244–246 GHz (centre frequency 245 GHz)

are designated for industrial, scientific and medical (ISM) applications. The use of these frequency bands for ISM applications shall be subject to special authorization by the administration concerned, in agreement with other administrations whose radiocommunication services might be affected. In applying this provision, administrations shall have due regard to the latest relevant ITU-R Recommendations.

5.139 *Different category of service:* in Armenia, Azerbaijan, Belarus, Georgia, Kazakstan, Latvia, Lithuania, Moldova, Mongolia, Uzbekistan, Kyrgyzstan, Russian Federation, Tajikistan, Turkmenistan and Ukraine, the allocation of the band 6765–7000 kHz to the land mobile service is on a primary basis (see No. 5.33).

5.140 *Additional allocation:* in Angola, Iraq, Rwanda, Somalia and Togo, the band 7000–7050 kHz is also allocated to the fixed service on a primary basis.

5.141 *Alternative allocation:* in Egypt, Eritrea, Ethiopia, Guinea, Libya and Madagascar, the band 7000–7050 kHz is allocated to the fixed service on a primary basis.

5.142 The use of the band 7100–7300 kHz in Region 2 by the amateur

service shall not impose constraints on the broadcasting service intended for use within Region 1 and Region 3.

5.143 The band 7300–7350 kHz is allocated, until 1 April 2007, to the fixed service on a primary basis and to the land mobile service on a secondary basis, subject to application of the procedure referred to in Resolution 21 (Rev.WRC–95). After 1 April 2007, frequencies in this band may be used by stations in the above-mentioned services, communicating only within the boundary of the country in which they are located, on condition that harmful interference is not caused to the broadcasting service. When using frequencies for these services, administrations are urged to use the minimum power required and to take account of the seasonal use of frequencies by the broadcasting service published in accordance with the Radio Regulations.

5.144 In Region 3, the stations of those services to which the band 7995–8005 kHz is allocated may transmit standard frequency and time signals.

5.145 The conditions for the use of the carrier frequencies 8291 kHz, 12290 kHz and 16420 kHz are prescribed in Articles 31 and 52 and in Appendix 13.

5.146 The bands 9400–9500 kHz, 11600–11650 kHz, 12050–12100 kHz, 15600–15800 kHz, 17480–17550 kHz and 18900–19020 kHz are allocated to the fixed service on a primary basis until 1 April 2007, subject to application of the procedure referred to in Resolution 21 (Rev.WRC–95). After 1 April 2007, frequencies in these bands may be used by stations in the fixed service, communicating only within the boundary of the country in which they are located, on condition that harmful interference is not caused to the broadcasting service. When using frequencies in the fixed service, administrations are urged to use the minimum power required and to take account of the seasonal use of frequencies by the broadcasting service published in accordance with the Radio Regulations.

5.147 On condition that harmful interference is not caused to the broadcasting service, frequencies in the bands 9775–9900 kHz, 11650–11700 kHz and 11975–12050 kHz may be used by stations in the fixed service communicating only within the boundary of the country in which they are located, each station using a total radiated power not exceeding 24 dBW.

5.148 The bands 9775–9900 kHz, 11650–11700 kHz, 11975–12050 kHz, 13600–13800 kHz, 15450–15600 kHz, 17550–17700 kHz and 21750–21850 kHz are allocated to the fixed service on

a primary basis subject to the procedure described in Resolution 8. The use of these bands by the broadcasting service shall be subject to provisions to be established by the world administrative radio conference for the planning of HF bands allocated to the broadcasting service (see Resolution 508). Within

13360–13410 kHz,
25550–25670 kHz,
37.5–38.25 MHz,
73–74.6 MHz in Regions 1 and 3,
150.05–153 MHz in Region 1,
322–328.6 MHz,
406.1–410 MHz,
608–614 MHz in Regions 1 and 3,
1330–1400 MHz,
1610.6–1613.8 MHz,
1660–1670 MHz,
1718.8–1722.2 MHz,
2655–2690 MHz,
3260–3267 MHz,
3332–3339 MHz,
3345.8–3352.5 MHz,
4825–4835 MHz,
4950–4990 MHz,

are allocated, administrations are urged to take all practicable steps to protect the radio astronomy service from harmful interference. Emissions from spaceborne or airborne stations can be particularly serious sources of interference to the radio astronomy service (see Nos. 4.5 and 4.6 and Article 29).

5.150 The following bands:

13553–13567 kHz (centre frequency 13560 kHz),
26957–27283 kHz (centre frequency 27120 kHz),
40.66–40.70 MHz (centre frequency 40.68 MHz),
902–928 MHz in Region 2 (centre frequency 915 MHz),
2400–2500 MHz (centre frequency 2450 MHz),
5725–5875 MHz (centre frequency 5800 MHz), and
24–24.25 GHz (centre frequency 24.125 GHz)

are also designated for industrial, scientific and medical (ISM) applications. Radiocommunication services operating within these bands must accept harmful interference which may be caused by these applications. ISM equipment operating in these bands is subject to the provisions of No. 15.13.

5.151 The bands 13570–13600 kHz and 13800–13870 kHz are allocated, until 1 April 2007, to the fixed service on a primary basis and to the mobile except aeronautical mobile (R) service on a secondary basis, subject to application of the procedure referred to in Resolution 21 (Rev. WRC–95). After 1 April 2007, frequencies in these bands

these bands, the date of commencement of operations in the broadcasting service on a planned channel shall not be earlier than the date of completion of satisfactory transfer, according to the procedures described in Resolution 8, of all assignments to stations in the fixed service operating in accordance with the

4990–5000 MHz,
6650–6675.2 MHz,
10.6–10.68 GHz,
14.47–14.5 GHz,
22.01–22.21 GHz,
22.21–22.5 GHz,
22.81–22.86 GHz,
23.07–23.12 GHz,
31.2–31.3 GHz,
31.5–31.8 GHz in Regions 1 and 3,
36.43–36.5 GHz,
42.5–43.5 GHz,
42.77–42.87 GHz,
43.07–43.17 GHz,
43.37–43.47 GHz,
48.94–49.04 GHz,
76–86 GHz,
92–94 GHz,

may be used by stations in the above-mentioned services, communicating only within the boundary of the country in which they are located, on the condition that harmful interference is not caused to the broadcasting service. When using frequencies in these services, administrations are urged to use the minimum power required and to take account of the seasonal use of frequencies by the broadcasting service published in accordance with the Radio Regulations.

5.152 *Additional allocation:* in Armenia, Azerbaijan, China, Côte d'Ivoire, Georgia, Iran (Islamic Republic of), Kazakstan, Moldova, Kyrgyzstan, the Russian Federation, Tajikistan, Turkmenistan and Ukraine, the band 14250–14350 kHz is also allocated to the fixed service on a primary basis. Stations of the fixed service shall not use a radiated power exceeding 24 dBW.

5.153 In Region 3, the stations of those services to which the band 15995–16005 kHz is allocated may transmit standard frequency and time signals.

5.154 *Additional allocation:* in Armenia, Azerbaijan, Georgia, Kazakstan, Moldova, Kyrgyzstan, the Russian Federation, Tajikistan, Turkmenistan and Ukraine, the band 18068–18168 kHz is also allocated to the fixed service on a primary basis for use within their boundaries, with a peak envelope power not exceeding 1 kW.

5.155 *Additional allocation:* in Armenia, Azerbaijan, Belarus, Bulgaria, Georgia, Hungary, Kazakstan, Moldova, Mongolia, Uzbekistan, Kyrgyzstan, Slovakia, the Czech Rep., Russian

Table and other provisions of the Radio Regulations, which are recorded in the Master Register and which may be affected by broadcasting operations on that channel. (SUP—WRC–97)

5.149 In making assignments to stations of other services to which the bands:

94.1–100 GHz,
102–109.5 GHz,
111.8–114.25 GHz,
128.33–128.59 GHz,
129.23–129.49 GHz,
130–134 GHz,
136–148.5 GHz,
151.5–158.5 GHz,
168.59–168.93 GHz,
171.11–171.45 GHz,
172.31–172.65 GHz,
173.52–173.85 GHz,
195.75–196.15 GHz,
209–226 GHz,
241–250 GHz,
252–275 GHz

Federation, Tajikistan, Turkmenistan and Ukraine, the band 21850–21870 kHz is also allocated to the aeronautical mobile (R) services on a primary basis.

5.155A In Armenia, Azerbaijan, Belarus, Bulgaria, Georgia, Kazakstan, Moldova, Mongolia, Uzbekistan, Kyrgyzstan, Slovakia, the Czech Rep., the Russian Federation, Tajikistan, Turkmenistan and Ukraine, the use of the band 21850–21870 kHz by the fixed service is limited to provision of services related to aircraft flight safety.

5.155B The band 21870–21924 kHz is used by the fixed service for provision of services related to aircraft flight safety.

5.156 *Additional allocation:* in Nigeria, the band 22720–23200 kHz is also allocated to the meteorological aids service (radiosondes) on a primary basis.

5.156A The use of the band 23200–23350 kHz by the fixed service is limited to provision of services related to aircraft flight safety.

5.157 The use of the band 23350–24000 kHz by the maritime mobile service is limited to inter-ship radiotelegraphy.

5.160 *Additional allocation:* in Botswana, Burundi, Lesotho, Malawi, Dem. Rep. of the Congo, Rwanda and Swaziland, the band 41–44 MHz is also allocated to the aeronautical radionavigation service on a primary basis.

5.161 *Additional allocation:* in Iran (Islamic Republic of) and Japan, the band 41–44 MHz is also allocated to the radiolocation service on a secondary basis.

5.162 *Additional allocation:* in Australia and New Zealand, the band 44–47 MHz is also allocated to the broadcasting service on a primary basis.

5.162A *Additional allocation:* in Germany, Austria, Belgium, Bosnia and Herzegovina, China, Vatican, Denmark, Spain, Estonia, Finland, France, Ireland, Iceland, Italy, Latvia, The Former Yugoslav Republic of Macedonia, Liechtenstein, Lithuania, Luxembourg, Moldova, Monaco, Norway, the Netherlands, Poland, Portugal, Slovakia, the Czech Rep., the United Kingdom, the Russian Federation, Sweden and Switzerland the band 46–68 MHz is also allocated to the radiolocation service on a secondary basis. This use is limited to the operation of wind profiler radars in accordance with Resolution 217 (WRC-97).

5.163 *Additional allocation:* in Armenia, Azerbaijan, Belarus, Estonia, Georgia, Hungary, Kazakstan, Latvia, Lithuania, Moldova, Mongolia, Uzbekistan, Kyrgyzstan, Slovakia, the Czech Rep., Russian Federation, Tajikistan, Turkmenistan and Ukraine, the bands 47–48.5 MHz and 56.5–58 MHz are also allocated to the fixed and land mobile services on a secondary basis.

5.164 *Additional allocation:* in Albania, Germany, Austria, Belgium, Bosnia and Herzegovina, Bulgaria, Côte d'Ivoire, Denmark, Spain, Finland, France, Gabon, Greece, Ireland, Israel, Italy, Jordan, Lebanon, Libya, Liechtenstein, Luxembourg, Madagascar, Mali, Malta, Morocco, Mauritania, Monaco, Nigeria, Norway, the Netherlands, Poland, Syria, the United Kingdom, Senegal, Slovenia, Sweden, Switzerland, Swaziland, Togo, Tunisia, Turkey and Yugoslavia the band 47–68 MHz, in Romania the band 47–58 MHz and in the Czech Rep. the band 66–68 MHz, are also allocated to the land mobile service on a primary basis. However, stations of the land mobile service in the countries mentioned in connection with each band referred to in this footnote shall not cause harmful interference to, or claim protection from, existing or planned broadcasting stations of countries other than those mentioned in connection with the band.

5.165 *Additional allocation:* in Angola, Cameroon, the Congo, Madagascar, Mozambique, Somalia, Sudan, Tanzania and Chad, the band 47–68 MHz is also allocated to the fixed and mobile, except aeronautical mobile, services on a primary basis.

5.166 *Alternative allocation:* in New Zealand, the band 50–51 MHz is allocated to the fixed, mobile and broadcasting services on a primary

basis; the band 53–54 MHz is allocated to the fixed and mobile services on a primary basis.

5.167 *Alternative allocation:* in Bangladesh, Brunei Darussalam, India, Indonesia, Iran (Islamic Republic of), Malaysia, Pakistan, Singapore and Thailand, the band 50–54 MHz is allocated to the fixed, mobile and broadcasting services on a primary basis.

5.168 *Additional allocation:* in Australia, China and the Dem. People's Rep. of Korea, the band 50–54 MHz is also allocated to the broadcasting service on a primary basis.

5.169 *Alternative allocation:* in Botswana, Burundi, Lesotho, Malawi, Namibia, Dem. Rep. of the Congo, Rwanda, South Africa, Swaziland, Zambia and Zimbabwe, the band 50–54 MHz is allocated to the amateur service on a primary basis.

5.170 *Additional allocation:* in New Zealand, the band 51–53 MHz is also allocated to the fixed and mobile services on a primary basis.

5.171 *Additional allocation:* in Botswana, Burundi, Lesotho, Malawi, Mali, Namibia, Dem. Rep. of the Congo, Rwanda, South Africa, Swaziland and Zimbabwe, the band 54–68 MHz is also allocated to the fixed and mobile, except aeronautical mobile, services on a primary basis.

5.172 *Different category of service:* in the French Overseas Departments in Region 2, Guyana, Jamaica and Mexico, the allocation of the band 54–68 MHz to the fixed and mobile services is on a primary basis (see No. 5.33).

5.173 *Different category of service:* in the French Overseas Departments in Region 2, Guyana, Jamaica and Mexico, the allocation of the band 68–72 MHz to the fixed and mobile services is on a primary basis (see No. 5.33).

5.174 *Alternative allocation:* in Bulgaria, Hungary, Poland and Romania, the band 68–73 MHz is allocated to the broadcasting service on a primary basis and used in accordance with the decisions in the Final Acts of the Special Regional Conference (Geneva, 1960).

5.175 *Alternative allocation:* in Armenia, Azerbaijan, Belarus, Georgia, Kazakstan, Latvia, Lithuania, Moldova, Mongolia, Uzbekistan, Kyrgyzstan, the Russian Federation, Tajikistan, Turkmenistan and Ukraine, the bands 68–73 MHz and 76–87.5 MHz are allocated to the broadcasting service on a primary basis. The services to which these bands are allocated in other countries and the broadcasting service in the countries listed above are subject to agreements with the neighbouring countries concerned.

5.176 *Additional allocation:* in Australia, China, Korea (Rep. of), Estonia (subject to agreement obtained under No. 9.21), the Philippines, the Dem. People's Rep. of Korea and Samoa, the band 68–74 MHz is also allocated to the broadcasting service on a primary basis.

5.177 *Additional allocation:* in Armenia, Azerbaijan, Belarus, Bulgaria, Georgia, Kazakstan, Latvia, Moldova, Uzbekistan, Poland, Kyrgyzstan, the Russian Federation, Tajikistan, Turkmenistan and Ukraine, the band 73–74 MHz is also allocated to the broadcasting service on a primary basis, subject to agreement obtained under No. 9.21.

5.178 *Additional allocation:* in Colombia, Costa Rica, Cuba, El Salvador, Guatemala, Guyana, Honduras and Nicaragua, the band 73–74.6 MHz is also allocated to the fixed and mobile services on a secondary basis.

5.179 *Additional allocation:* in Armenia, Azerbaijan, Belarus, Bulgaria, China, Georgia, Kazakstan, Latvia, Lithuania, Moldova, Mongolia, Kyrgyzstan, Slovakia, the Czech Rep., Russian Federation, Tajikistan, Turkmenistan and Ukraine, the bands 74.6–74.8 MHz and 75.2–75.4 MHz are also allocated to the aeronautical radionavigation service, on a primary basis, for ground-based transmitters only.

5.180 The frequency 75 MHz is assigned to marker beacons. Administrations shall refrain from assigning frequencies close to the limits of the guardband to stations of other services which, because of their power or geographical position, might cause harmful interference or otherwise place a constraint on marker beacons.

Every effort should be made to improve further the characteristics of airborne receivers and to limit the power of transmitting stations close to the limits 74.8 MHz and 75.2 MHz.

5.181 *Additional allocation:* in Egypt, Israel, Japan, and Syria, the band 74.8–75.2 MHz is also allocated to the mobile service on a secondary basis, subject to agreement obtained under No. 9.21. In order to ensure that harmful interference is not caused to stations of the aeronautical radionavigation service, stations of the mobile service shall not be introduced in the band until it is no longer required for the aeronautical radionavigation service by any administration which may be identified in the application of the procedure invoked under No. 9.21.

5.182 *Additional allocation:* in Western Samoa, the band 75.4–87 MHz is also allocated to the broadcasting service on a primary basis.

5.183 *Additional allocation:* in China, Korea (Rep. of), Japan, the Philippines and the Dem. People's Rep. of Korea, the band 76–87 MHz is also allocated to the broadcasting service on a primary basis.

5.184 *Additional allocation:* in Bulgaria and Romania, the band 76–87.5 MHz is also allocated to the broadcasting service on a primary basis and used in accordance with the decisions contained in the Final Acts of the Special Regional Conference (Geneva, 1960).

5.185 *Different category of service:* in the United States, the French Overseas Departments in Region 2, Guyana, Jamaica, Mexico and Paraguay, the allocation of the band 76–88 MHz to the fixed and mobile services is on a primary basis (see No. 5.33).

5.187 *Alternative allocation:* in Albania, the band 81–87.5 MHz is allocated to the broadcasting service on a primary basis and used in accordance with the decisions contained in the Final Acts of the Special Regional Conference (Geneva, 1960).

5.188 *Additional allocation:* in Australia, the band 85–87 MHz is also allocated to the broadcasting service on a primary basis. The introduction of the broadcasting service in Australia is subject to special agreements between the administrations concerned.

5.190 *Additional allocation:* in Monaco, the band 87.5–88 MHz is also allocated to the land mobile service on a primary basis, subject to agreement obtained under No. 9.21.

5.192 *Additional allocation:* in China and Korea (Rep. of), the band 100–108 MHz is also allocated to the fixed and mobile services on a primary basis.

5.194 *Additional allocation:* in Azerbaijan, Lebanon, Syria, Kyrgyzstan, Somalia and Turkmenistan, the band 104–108 MHz is also allocated to the mobile, except aeronautical mobile (R), service on a secondary basis.

5.197 *Additional allocation:* in Japan, Pakistan and Syria, the band 108–111.975 MHz is also allocated to the mobile service on a secondary basis, subject to agreement obtained under No. 9.21. In order to ensure that harmful interference is not caused to stations of the aeronautical radionavigation service, stations of the mobile service shall not be introduced in the band until it is no longer required for the aeronautical radionavigation service by any administration which may be identified in the application of the procedures invoked under No. 9.21.

5.198 *Additional allocation:* the band 117.975–136 MHz is also allocated to the aeronautical mobile-satellite (R)

service on a secondary basis, subject to agreement obtained under No. 9.21.

5.199 The bands 121.45–121.55 MHz and 242.95–243.05 MHz are also allocated to the mobile-satellite service for the reception on board satellites of emissions from emergency position-indicating radiobeacons transmitting at 121.5 MHz and 243 MHz (see Appendix 13).

5.200 In the band 117.975–136 MHz, the frequency 121.5 MHz is the aeronautical emergency frequency and, where required, the frequency 123.1 MHz is the aeronautical frequency auxiliary to 121.5 MHz. Mobile stations of the maritime mobile service may communicate on these frequencies under the conditions laid down in Article 31 and Appendix 13 for distress and safety purposes with stations of the aeronautical mobile service.

5.201 *Additional allocation:* in Angola, Armenia, Azerbaijan, Belarus, Bulgaria, Estonia, Georgia, Hungary, Iran (Islamic Republic of), Iraq, Japan, Kazakhstan, Latvia, Moldova, Mongolia, Mozambique, Uzbekistan, Papua New Guinea, Poland, Kyrgyzstan, Slovakia, the Czech Rep., Romania, Russian Federation, Tajikistan, Turkmenistan and Ukraine, the band 132–136 MHz is also allocated to the aeronautical mobile (OR) service on a primary basis. In assigning frequencies to stations of the aeronautical mobile (OR) service, the administration shall take account of the frequencies assigned to stations in the aeronautical mobile (R) service.

5.202 *Additional allocation:* in Saudi Arabia, Armenia, Azerbaijan, Belarus, Bulgaria, the United Arab Emirates, Georgia, Iran (Islamic Republic of), Jordan, Latvia, Moldova, Oman, Uzbekistan, Poland, Syria, Kyrgyzstan, Slovakia, the Czech Rep., Romania, the Russian Federation, Tajikistan, Turkmenistan and Ukraine, the band 136–137 MHz is also allocated to the aeronautical mobile (OR) service on a primary basis. In assigning frequencies to stations of the aeronautical mobile (OR) service, the administration shall take account of the frequencies assigned to stations in the aeronautical mobile (R) service.

5.203 In the band 136–137 MHz, existing operational meteorological satellites may continue to operate, under the conditions defined in No. 4.4 with respect to the aeronautical mobile service, until 1 January 2002. Administrations shall not authorize new frequency assignments in this band to stations in the meteorological-satellite service.

5.203A *Additional allocation:* in Israel, Mauritania, Qatar and Zimbabwe, the band 136–137 MHz is also allocated

to the fixed and mobile, except aeronautical mobile (R), services on a secondary basis until 1 January 2005.

5.203B *Additional allocation:* in Saudi Arabia, United Arab Emirates, Jordan, Oman and Syria, the band 136–137 MHz is also allocated to the fixed and mobile, except aeronautical mobile, services on a secondary basis until 1 January 2005.

5.204 *Different category of service:* in Afghanistan, Saudi Arabia, Bahrain, Bangladesh, Bosnia and Herzegovina, Brunei Darussalam, China, Cuba, the United Arab Emirates, India, Indonesia, Iran (Islamic Republic of), Iraq, Malaysia, Oman, Pakistan, Philippines, Qatar, Singapore, Sri Lanka, Thailand, Yemen and Yugoslavia, the band 137–138 MHz is allocated to the fixed and mobile, except aeronautical mobile (R), services on a primary basis (see No. 5.33).

5.205 *Different category of service:* in Israel and Jordan, the allocation of the band 137–138 MHz to the fixed and mobile, except aeronautical mobile, services is on a primary basis (see No. 5.33).

5.206 *Different category of service:* in Armenia, Azerbaijan, Belarus, Bulgaria, Egypt, Finland, France, Georgia, Greece, Kazakhstan, Lebanon, Moldova, Mongolia, Uzbekistan, Poland, Kyrgyzstan, Syria, Slovakia, the Czech Rep., Romania, the Russian Federation, Tajikistan, Turkmenistan and Ukraine, the allocation of the band 137–138 MHz to the aeronautical mobile (OR) service is on a primary basis (see No. 5.33).

5.207 *Additional allocation:* in Australia, the band 137–144 MHz is also allocated to the broadcasting service on a primary basis until that service can be accommodated within regional broadcasting allocations.

5.208 The use of the band 137–138 MHz by the mobile-satellite service is subject to coordination under No. 9.11A.

5.208A In making assignments to space stations in the mobile-satellite service in the bands 137–138 MHz, 387–390 MHz and 400.15–401 MHz, administrations shall take all practicable steps to protect the radio astronomy service in the bands 150.05–153 MHz, 322–328.6 MHz, 406.1–410 MHz and 608–614 MHz from harmful interference from unwanted emissions. The threshold levels of interference detrimental to the radio astronomy service are shown in Table 1 of Recommendation ITU-R RA.769–1.

5.209 The use of the bands 137–138 MHz, 148–150.05 MHz, 399.9–400.05 MHz, 400.15–401 MHz, 454–456 MHz and 459–460 MHz by the mobile-