



Federal Register

Monday,
September 23, 2002

Part II

Federal Communications Commission

47 CFR Part 2

**Non-Substantive Revisions to the Table of
Frequency Allocation; Final Rule**

**FEDERAL COMMUNICATIONS
COMMISSION****47 CFR Part 2**

[DA 02-1872]

**Non-Substantive Revisions to the
Table of Frequency Allocation****AGENCY:** Federal Communications Commission.**ACTION:** Final rule.

SUMMARY: This document revises the Commission's Table of Frequency Allocations ("Allocation Table"). Specifically, it updates the International Table of Frequency Allocations ("International Table"). In order to assist the Federal Register staff in codifying international footnotes and in order to prevent confusion to the public, we are updating the Commission's Allocation Table in its entirety in order to remove the "S" prefix from the international footnotes. We also take this opportunity to update the International Table within our rules to reflect the Table of Frequency Allocations as it is found in the ITU Radio Regulations. The Commission believes that this action will assist users of the Allocation Table with their spectrum planning.

DATES: Effective September 23, 2002.**FOR FURTHER INFORMATION CONTACT:** Tom Mooring, (202) 418-2450, or Shameeka Parrott, (202) 418-2062, Policy and Rules Division, Office of Engineering and Technology.

SUPPLEMENTARY INFORMATION: This is a summary of the Commission's *Order*, DA 02-1872, adopted August 1, 2002, and released August 5, 2002. The full text of this document is available for inspection and copying during regular business hours in the FCC Reference Center (Room CY-A257), 445 12th Street, SW., Washington, DC 20554. The complete text of this document also may be purchased from the Commission's copy contractor, Qualex International, 445 12th Street, SW., Room, CY-B402, Washington, DC 20554. The full text may also be downloaded at: <http://www.fcc.gov>. Alternative formats are available to persons with disabilities by contacting Brian Millin at (202) 418-7426 or TTY (202) 418-7365.

Summary of the Order

1. This *Order* amends the Commission's Table of Frequency Allocations ("Allocation Table") to update the International Table of Frequency Allocations ("International Table"). The International Table is provided in § 2.106 of our Rules for

informational purposes only and is being updated to reflect the 2001 International Telecommunication Union ("ITU") *Radio Regulations*. As a consequence of updating the international footnotes within the International Table, we are also revising footnote US342 (which concerns the protection of the radio astronomy service ("RAS") in various frequency bands allocated to other services) and are re-numbering the existing versions of nine revised international footnotes as United States footnotes, thereby maintaining the status quo for the United States Table of Frequency Allocations ("United States Table") until the Commission can consider the substantive changes in future proceedings. This ministerial action does not make any substantive changes to our Allocation Table and thus, does not change any licensee's legal rights or responsibilities.

2. The Commission's Allocation Table, which is codified at § 2.106 of our rules, consists of three tables: the International Table, the United States Table, and cross references to other parts of our rules.

International Table

3. For the allocation of frequencies, the ITU has divided the world into three Regions and codifies the allocations for these Regions in its Table of Frequency Allocations. In § 2.106 of our rules, the ITU's Table of Frequency Allocations has been re-named as the International Table. The International Table is subdivided into the Region 1 Table (column 1), the Region 2 Table (column 2), and the Region 3 Table (column 3). The International Table is included in our rules for informational purposes only.

4. The ITU *Radio Regulations*, Edition of 2001, became effective internationally on January 1, 2002, except as provided in the references in Article 59. We are updating § 2.100 of our rules to reflect this fact. In its 2001 *Radio Regulations*, the ITU modified the international footnotes to its Table of Frequency Allocations by deleting the "S" prefix. For example, international footnote S5.53 was revised as international footnote 5.53. In addition, the ITU modified certain international footnotes to remove the "S" prefix from references to the *Radio Regulations*. For example, Article S31 was revised as Article 31 in footnote 5.110.

5. In order to assist the Federal Register in codifying international footnotes and in order to prevent confusion to the public, we are updating the Commission's Allocation Table in its entirety in order to remove the "S"

prefix from the international footnotes. In addition, we take this opportunity to update the International Table within our rules to reflect the Table of Frequency Allocations as it is found in the ITU *Radio Regulations*, Edition of 2001, Article 5, Section IV. We believe that this action will assist users of the Allocation Table with their spectrum planning.

Ministerial Changes to the United States Table

6. In the United States, radio spectrum may be allocated to either Federal Government or non-Federal Government use exclusively, or for shared use. As such, the United States Table is subdivided into the Federal Government Table of Frequency Allocations ("Federal Government Table") and the Non-Federal Government Table of Frequency Allocations ("Non-Federal Government Table"). The Federal Government Table (column 4) is administered by the National Telecommunications and Information Administration ("NTIA"), whereas the Non-Federal Government Table (column 5) is administered by the Commission.

7. Over the course of time, the Commission has adopted numerous international footnotes domestically and added them to the United States Table. We have reviewed each of these international footnotes. In order to update the International Table without making substantive changes to the United States Table, we have revised footnote US342 (which concerns the protection of the RAS in various frequency bands allocated to other services) and are re-numbering the existing versions of nine revised international footnotes as United States footnotes until such time as the Commission can consider these allocation changes to the United States Table.

Administrative Procedures Act Requirements and Ordering Clause

8. The International Table and FCC rule part(s) are included in the Commission's rules for informational purposes only. The United States Table is amended herein by incorporating non-substantive, editorial revisions only. Therefore, there is good cause for not using notice and comment procedure in this case, and for shortening the effective date of the amendments from a date not less than 30 days after publication in the **Federal Register** to the date of such publication. We find that the normal procedures for notice and comment and for publication as required under Section 553 of the

Administrative Procedures Act would be impracticable, unnecessary, or contrary to the public interest. See 5 U.S.C. 553(b)(3)(B), (d)(3); *Kessler v. FCC*, 326 F.2d 673 (D.C. Cir. 1963).

9. Part 2 of the Commission's rules, 47 CFR part 2, IS AMENDED as set forth, effective September 23, 2002. This action is taken pursuant to authority found in §§ 4(i) and 303 of the Communications Act of 1934, as amended, 47 U.S.C. 154(i) and 303, and in §§ 0.31, 0.231(b) and 0.241 of the Commission's rules, 47 CFR 0.31, 0.231(b) and 0.241.

List of Subjects in 47 CFR Part 2

Radio, Reporting and recordkeeping requirements.

Federal Communications Commission.

Marlene H. Dortch,
Secretary.

Rule Changes

For the reasons discussed in the preamble, the Federal Communications

Commission amends 47 CFR part 2 as follows:

PART 2—FREQUENCY ALLOCATIONS AND RADIO TREATY MATTERS; GENERAL

Rules and Regulations

1. The authority citation for Part 2 continues to read as follows:

Authority: 47 U.S.C. 154, 302a, 303, and 336, unless otherwise noted.

2. Section 2.100 is revised to read as follows:

§ 2.100 International regulations in force.

The International Radiocommunication Union *Radio Regulations*, Edition of 2001, became effective internationally on January 1, 2002, except as provided in the references in Article 59.

3. Section 2.106, the Table of Frequency Allocations, is amended as follows:

a. The Table proceeding the international footnotes is revised and shall begin on the left-hand page.

b. The international footnote section is amended by revising the note immediately following the heading and by revising the list of international footnotes under heading I.

c. In the list of international footnotes under heading II, remove footnote 909.

d. In the list of United States footnotes, revise footnotes US342 and US356; and add footnotes US369, US370, US371, US372, US373, US374, US375, US376, and US377.

e. In the list of non-Federal Government footnotes, revise footnote NG143.

§ 2.106 Table of Frequency Allocations.

The revisions and additions read as follows:

* * * * *

BILLING CODE 6712-01-P

0-130 kHz (VLF/LF)				Page 1	
International Table			United States Table		FCC Rule Part(s)
Region 1	Region 2	Region 3	Federal Government	Non-Federal Government	
Below 9 (Not allocated)		Below 9 (Not allocated)			
5.53-5.54		5.53-5.54			
9-14 RADIONAVIGATION		9-14 RADIONAVIGATION			
14-19.95 FIXED MARITIME MOBILE 5.57		US18 US294	14-19.95 FIXED MARITIME MOBILE 5.57	14-19.95 Fixed	International Fixed (23)
5.55-5.56		US294	US294	US294	
19.95-20.05 STANDARD FREQUENCY AND TIME SIGNAL (20 kHz)		US294	19.95-20.05 STANDARD FREQUENCY AND TIME SIGNAL (20 kHz)	US294	
20.05-70 FIXED MARITIME MOBILE 5.57		US294	20.05-59 FIXED MARITIME MOBILE 5.57	20.05-59 FIXED	International Fixed (23)
5.56-5.58		US294	59-61 STANDARD FREQUENCY AND TIME SIGNAL (60 kHz)	US294	
70-72 RADIONAVIGATION 5.60		US294	61-70 FIXED MARITIME MOBILE 5.57	61-70 FIXED	International Fixed (23)
72-84 FIXED MARITIME MOBILE 5.57 RADIONAVIGATION 5.60		US294	70-90 FIXED MARITIME MOBILE 5.57 Radiolocation	70-90 FIXED MARITIME MOBILE 5.57 Radiolocation	International Fixed (23) Private Land Mobile (90)
5.56		72-84 FIXED MARITIME MOBILE 5.57 RADIONAVIGATION 5.60	72-84 FIXED MARITIME MOBILE 5.57 RADIONAVIGATION 5.60	72-84 FIXED MARITIME MOBILE 5.57 RADIONAVIGATION 5.60	

84-86 RADIONAVIGATION 5.60								
86-90 FIXED MARITIME MOBILE 5.57 RADIONAVIGATION	5.56	90-110 RADIONAVIGATION 5.62 Fixed	5.61	90-110 RADIONAVIGATION 5.62 Fixed	5.60 US294	90-110 RADIONAVIGATION 5.62 Fixed	5.60 US294	Private Land Mobile (90)
84-86 RADIONAVIGATION 5.60 Fixed Maritime mobile 5.57	5.59	86-90 FIXED MARITIME MOBILE 5.57 RADIONAVIGATION 5.60	5.61	110-130 FIXED MARITIME MOBILE MARITIME RADIONAVIGATION 5.60 Radiolocation	110-112 FIXED MARITIME MOBILE MARITIME RADIONAVIGATION 5.60 Radiolocation	110-130 FIXED MARITIME MOBILE Radiolocation	110-130 FIXED MARITIME MOBILE Radiolocation	International Fixed (23) Maritime (80) Private Land Mobile (90)
110-112 FIXED MARITIME MOBILE RADIONAVIGATION	5.64	112-115 RADIONAVIGATION 5.60	5.64	112-117.6 RADIONAVIGATION 5.60 Fixed Maritime mobile	112-117.6 RADIONAVIGATION 5.60 Fixed Maritime mobile	117.6-126 FIXED MARITIME MOBILE RADIONAVIGATION 5.60	126-129 RADIONAVIGATION 5.60 Fixed Maritime mobile	See next page for 129-130 5.61 5.64
115-117.6 RADIONAVIGATION 5.60 Fixed Maritime mobile	5.64	5.64 5.66	5.64	5.64 5.65	5.64	5.64 5.65	5.64 5.65	See next page for 129-130 5.60 5.64 US294
117.6-126 FIXED MARITIME MOBILE RADIONAVIGATION 5.60	5.64	126-129 RADIONAVIGATION 5.60 Fixed Maritime mobile						
See next page for 129-130								

International Table				130-505 kHz (LF/MF)	United States Table	FCC Rule Part(s)	Page 3
Region 1	Region 2	Region 3		Federal Government	Non-Federal Government		
129-130 FIXED MARITIME MOBILE RADIONAVIGATION 5.60	See previous page for 110-130 kHz	129-130 FIXED MARITIME MOBILE RADIONAVIGATION 5.60		See previous page for 110-130 kHz		See previous page for 110-130 kHz	
5.64 130-148.5 FIXED MARITIME MOBILE	130-160 FIXED MARITIME MOBILE	130-160 FIXED MARITIME MOBILE RADIONAVIGATION	5.64	130-160 FIXED MARITIME MOBILE		International Fixed (23) Maritime (80)	
5.64 5.67 148.5-255 BROADCASTING	160-190 FIXED	160-190 FIXED Aeronautical radionavigation	5.64	5.64 US294	160-190 FIXED MARITIME MOBILE	160-190 FIXED	International Fixed (23)
				459 US294	459 US294	459 US294	
		190-200 AERONAUTICAL RADIONAVIGATION			190-200 AERONAUTICAL RADIONAVIGATION		
				US18 US226 US294			Aviation (87)
5.68 5.69 5.70 255-283.5 BROADCASTING AERONAUTICAL RADIONAVIGATION	200-275 AERONAUTICAL RADIONAVIGATION	200-285 AERONAUTICAL RADIONAVIGATION Aeronautical mobile		200-275 AERONAUTICAL RADIONAVIGATION	Aeronautical mobile	US18 US294	
				275-285 AERONAUTICAL RADIONAVIGATION	Aeronautical mobile	US18 US294	
				275-285 AERONAUTICAL RADIONAVIGATION Aeronautical mobile	Maritime radionavigation (radiobeacons)	US18 US294	
5.70 5.71 283.5-315 AERONAUTICAL RADIONAVIGATION MARITIME RADIONAVIGA- TION (radiobeacons) 5.73							285-325 MARITIME RADIONAVIGATION (radiobeacons) 5.73
5.72 5.74	285-315 AERONAUTICAL RADIONAVIGATION MARITIME RADIONAVIGATION (radiobeacons)						Aeronautical radionavigation (radiobeacons)

315-325 AERONAUTICAL RADIONAVIGATION Maritime radionavigation (radiobeacons) 5.73	315-325 MARITIME RADIONAVIGATION (radiobeacons) 5.73 Aeronautical radionavigation	315-325 AERONAUTICAL RADIONAVIGATION Maritime RADIONAVIGA- TION (radiobeacons) 5.73	315-325 AERONAUTICAL RADIONAVIGATION Maritime RADIONAVIGA- TION (radiobeacons) 5.73	US18 US294			
5.72 5.75							
325-405 AERONAUTICAL RADIONAVIGATION	325-335 AERONAUTICAL RADIONAVIGATION Aeronautical mobile Maritime radionavigation (radiobeacons)	325-405 AERONAUTICAL RADIONAVIGATION Aeronautical mobile	325-335 AERONAUTICAL RADIONAVIGATION (radiobeacons) Aeronautical mobile Maritime radionavigation (radiobeacons)	US18 US294			
5.72	335-405 AERONAUTICAL RADIONAVIGATION (radiobeacons)	335-405 AERONAUTICAL RADIONAVIGATION Aeronautical mobile	335-405 AERONAUTICAL RADIONAVIGATION (radiobeacons) Aeronautical mobile	US18 US294			
405-415 RADIONAVIGATION 5.76	405-415 RADIONAVIGATION 5.76 Aeronautical mobile	405-415 RADIONAVIGATION 5.76 Aeronautical mobile	405-415 RADIONAVIGATION 5.76 Aeronautical mobile	US18 US294			
5.72							
415-435 MARITIME MOBILE 5.79 AERONAUTICAL RADIONAVIGATION	415-495 MARITIME MOBILE 5.79 5.79A Aeronautical radionavigation 5.80	415-435 MARITIME MOBILE 5.79 AERONAUTICAL RADIONAVIGATION 5.80	415-435 MARITIME MOBILE 5.79 AERONAUTICAL RADIONAVIGATION 5.80	US294			
5.72	435-495 MARITIME MOBILE 5.79 5.79A Aeronautical radionavigation	435-495 MARITIME MOBILE 5.79 Aeronautical radionavigation	435-495 MARITIME MOBILE 5.79 Aeronautical radionavigation	471 472A US231 US294	435-495 MARITIME MOBILE 5.79	Maritime (80)	
5.72 5.82	5.77 5.78 5.82			471 472A US231 US294	495-505 MOBILE (distress and calling)		
5.83					472		

		International Table		505-2107 kHz (MF)		FCC Rule Part(s)	Page 5
		Region 2	Region 3	Federal Government	Non-Federal Government		
Region 1							
505-526.5	MARITIME MOBILE 5.79	505-510	MARITIME MOBILE 5.79	505-526.5 5.79A 5.84	MARITIME MOBILE 5.79	505-510	Maritime (80)
5.79A 5.84	AERONAUTICAL RADIONAVIGATION			AERONAUTICAL RADIONAVIGATION	Aeronautical mobile Land mobile	471	
510-525	MOBILE 5.79A 5.84	510-525	MOBILE 5.79A 5.84	RADIONAVIGATION	MARITIME MOBILE (ships only) 474	510-525	Maritime (80) Aviation (87)
	AERONAUTICAL RADIONAVIGATION			Aeronautical mobile	AERONAUTICAL RADIONAVIGATION (radiobeacons)		
5.72	525-535		525-535		US14 US18 US225	525-535	
526.5-1606.5	BROADCASTING	526.5-1606.5	526.5-1606.5	BROADCASTING	AERONAUTICAL RADIONAVIGATION (radiobeacons)	526.5-1606.5	Aviation (87) Private Land Mobile (90)
				Mobile	MOBILE US221		
			5.88		US18 US239	535-1605	
				BROADCASTING	BROADCASTING	535-1605	
				Mobile	US321		
5.87 5.87A	535-1605	535-1606.5	535-1606.5	BROADCASTING	1605-1615	1605-1605	Radio Broadcasting (AM) (73)
1606.5-1625	BROADCASTING 5.89	1606.5-1800	1606.5-1800	FIXED MOBILE	MOBILE US221	1605-1705	Auxiliary Broadcasting (74)
		FIXED	FIXED	RADIOLOCATION	US238	BROADCASTING 480	Alaska Fixed (80)
		MARITIME MOBILE	MARITIME MOBILE	RADIONAVIGATION	1615-1625		Private Land Mobile (90)
5.92	LAND MOBILE	5.90	1605-1625		US238 US299		
					1625-1705		
1625-1635	RADIOLOCATION	1625-1705	1625-1705	FIXED MOBILE	Radiolocation		
5.93				BROADCASTING 5.89			
1635-1800				Radiolocation			
					US238 US299	US238 US299 US321	
						NG128	

				International Fixed (23) Maritime (80) Private Land Mobile (90)
5.92 5.96	1705-1800 FIXED MOBILE RADIOLOCATION AERONAUTICAL RADIONAVIGATION	5.91	1705-1800 FIXED MOBILE RADIOLOCATION	Amateur (97)
1800-1810	1800-1850 AMATEUR		1800-1900 AMATEUR	
5.93	1810-1850 AMATEUR			
5.98 5.99 5.100 5.101	1850-2000 FIXED MOBILE except aeronautical mobile	1850-2000 AMATEUR FIXED MOBILE except aeronautical mobile RADIOLOCATION RADIONAVIGATION	1900-2000 RADIOLOCATION	Private Land Mobile (90) Amateur (97)
5.92 5.96 5.103	2000-2025 FIXED MOBILE except aeronautical mobile (R)	5.97	US290 2000-2035 FIXED MOBILE	2000-2065 MARITIME MOBILE NG19 Maritime (80)
5.92 5.103	2025-2045 FIXED MOBILE except aeronautical mobile (R) Meteorological aids 5.104			
5.92 5.103	2045-2160 FIXED MARITIME MOBILE LAND MOBILE	5.106	US340 2065-2107 MARITIME MOBILE 5.105	US340 2065-2107 MARITIME MOBILE 5.105
5.92		See next page for 2107-2170 kHz	US296 US340 See next page for 2107-2170 kHz	See next page Page 6

International Table				2107-3230 kHz (MF/HF)	United States Table	FCC Rule Part(s)	Page 7
Region 1	Region 2	Region 3					
See previous page for 2045-2160 kHz	2107-2170 FIXED MOBILE			Federal Government 2107-2170 FIXED MOBILE	Non-Federal Government 2107-2170 FIXED LAND MOBILE MARITIME MOBILE NG19	International Fixed (23) Maritime (80) Aviation (87) Private Land Mobile (90)	
2160-2170 RADIOLOCATION				US340	US340		
5.93 5.107 2170-2173.5 MARITIME MOBILE				2170-2173.5 MARITIME MOBILE (telephony)	2170-2173.5 MARITIME MOBILE	Maritime (80)	
2173.5-2190.5 MOBILE (distress and calling)				US340	US340		
5.108 5.109 5.110 5.111 2190.5-2194 MARITIME MOBILE				2173.5-2190.5 MOBILE (distress and calling)	5.108 5.109 5.110 5.111 US279 US340	Maritime (80) Aviation (87)	
2194-2300 FIXED MOBILE except aeronautical mobile (R)				2190.5-2194 MARITIME MOBILE (telephony)	2190.5-2194 MARITIME MOBILE	Maritime (80)	
5.92 5.103 5.112 2300-2498 FIXED MOBILE except aeronautical mobile (R) BROADCASTING 5.113				US340	US340		
5.103 2498-2501 STANDARD FREQUENCY AND TIME SIGNAL (2500 kHz)				2194-2495 FIXED MOBILE	2194-2495 FIXED LAND MOBILE MARITIME MOBILE NG19	International Fixed (23) Maritime (80) Aviation (87) Private Land Mobile (90)	
				2300-2495 FIXED MOBILE BROADCASTING 5.113	2495-2501 STANDARD FREQUENCY AND TIME SIGNAL (2500 kHz)		
				2495-2501 STANDARD FREQUENCY AND TIME SIGNAL (2500 kHz)	US340		

		2501-2502 STANDARD FREQUENCY AND TIME SIGNAL Space research	2501-2502 STANDARD FREQUENCY AND TIME SIGNAL	2501-2502 STANDARD FREQUENCY AND TIME SIGNAL
2502-2625 FIXED MOBILE except aeronautical mobile (R)	2502-2505 STANDARD FREQUENCY AND TIME SIGNAL	US340 G106	2502-2505 STANDARD FREQUENCY AND TIME SIGNAL	US340
5.92 5.103 5.114 2625-2650 MARITIME MOBILE MARITIME RADIONAVIGATION	2505-2850 FIXED MOBILE	US340	2505-2850 FIXED MOBILE	2505-2850 FIXED LAND MOBILE MARITIME MOBILE
5.92 2650-2850 FIXED MOBILE except aeronautical mobile (R)				
5.92 5.103 2850-3025 AERONAUTICAL MOBILE (R)		US285 US340	2850-3025 AERONAUTICAL MOBILE (R)	US285 US340
5.111 5.115 3025-3155 AERONAUTICAL MOBILE (OR)		5.111 5.115 US283 US340	3025-3155 AERONAUTICAL MOBILE (OR)	5.111 5.115 US283 US340
		US340		US340
5.116 5.117 3200-3230 FIXED MOBILE except aeronautical mobile (R) BROADCASTING 5.113		3155-3230 FIXED MOBILE except aeronautical mobile (R)		3155-3230 FIXED MOBILE except aeronautical mobile (R)
5.116		US340		US340

International Table				3230-5060 kHz (HF)	Page 9
Region 1	Region 2	Region 3		United States Table	FCC Rule Part(s)
				Federal Government	Non-Federal Government
3230-3400 FIXED MOBILE except aeronautical mobile BROADCASTING 5.113			3230-3400 FIXED MOBILE except aeronautical mobile Radiolocation	3230-3400 FIXED MOBILE except aeronautical mobile Radiolocation	International Fixed (23) Maritime (80) Aviation (87) Private Land Mobile (90)
5.116 5.118			US340	3400-3500 AERONAUTICAL MOBILE (R)	
3400-3500 AERONAUTICAL MOBILE (R)			US283 US340	3500-4000 AMATEUR 5.120	Aviation (87)
3500-3800 AMATEUR FIXED MOBILE except aeronautical mobile	3500-3750 AMATEUR 5.119	3500-3900 AMATEUR FIXED MOBILE	3500-4000 AMATEUR 5.120	3500-4000 AMATEUR 5.120	Amateur (97)
5.92	3750-4000 AMATEUR FIXED MOBILE except aeronautical mobile (R)				
3800-3900 FIXED AERONAUTICAL MOBILE (OR) LAND MOBILE		3900-3950 AERONAUTICAL MOBILE BROADCASTING			
3900-3950 AERONAUTICAL MOBILE (OR)		3950-4000 FIXED BROADCASTING			
5.123	5.122 5.125	5.126	US340	4000-4063 MARITIME MOBILE	
3950-4000 FIXED BROADCASTING			US340	4000-4063 MARITIME MOBILE	
5.126			US236 US340	4063-4438 MARITIME MOBILE 5.109 5.110 5.130 5.131 5.132	International Fixed (23) Maritime (80)
4063-4438 MARITIME MOBILE 5.79A 5.109 5.110 5.130 5.131 5.132			US82 US296 US340		
5.128 5.129					

4438-4650 FIXED MOBILE except aeronautical mobile (R)	4438-4650 FIXED MOBILE except aeronautical mobile	4438-4650 FIXED MOBILE except aeronautical mobile (R) US340	International Fixed (23) Maritime (80) Aviation (87) Private Land Mobile (90)
4650-4700 AERONAUTICAL MOBILE (R)		4650-4700 AERONAUTICAL MOBILE (R) US282 US283 US340	Aviation (87)
4700-4750 AERONAUTICAL MOBILE (OR)		4700-4750 AERONAUTICAL MOBILE (OR) US340	
4750-4850 FIXED AERONAUTICAL MOBILE (OR) LAND MOBILE BROADCASTING 5.113	4750-4850 FIXED MOBILE except aeronautical mobile (R) BROADCASTING 5.113	4750-4850 FIXED MOBILE except aeronautical mobile (R) US340	International Fixed (23) Maritime (80) Aviation (87)
4850-4995 FIXED LAND MOBILE BROADCASTING 5.113		4850-4995 FIXED MOBILE US340	4850-4995 FIXED US340
4995-5003 STANDARD FREQUENCY AND TIME SIGNAL (5000 kHz)		4995-5003 STANDARD FREQUENCY AND TIME SIGNAL (5000 kHz) US340	
5003-5005 STANDARD FREQUENCY AND TIME SIGNAL Space research		5003-5005 STANDARD FREQUENCY AND TIME SIGNAL US340 G106	5003-5005 STANDARD FREQUENCY AND TIME SIGNAL US340
5005-5060 FIXED BROADCASTING 5.113		5005-5060 FIXED US340	International Fixed (23) Maritime (80) Aviation (87) Private Land Mobile (90)

International Table				5060-5040 kHz (HF)		United States Table		FCC Rule Part(s)	
Region 1	Region 2	Region 3		Federal Government	Non-Federal Government				
5060-5250 FIXED Mobile except aeronautical mobile				5060-5450 FIXED Mobile except aeronautical mobile				International Fixed (23) Maritime (80) Aviation (87) Private Land Mobile (90)	
5.133									
5250-5450 FIXED MOBILE except aeronautical mobile				US212 US340					
5450-5480 FIXED AERONAUTICAL MOBILE (OR) LAND MOBILE	5450-5480 AERONAUTICAL MOBILE (R)	5450-5480 FIXED AERONAUTICAL MOBILE (OR) LAND MOBILE	5450-5480 AERONAUTICAL MOBILE (R)	5450-5480 AERONAUTICAL MOBILE (R)				Aviation (87)	
5480-5680 AERONAUTICAL MOBILE (R)				US283 US340					
5.1115.115				5480-5680 AERONAUTICAL MOBILE (R)					
5680-5730 AERONAUTICAL MOBILE (OR)				5.1115.115 US283 US340					
5.1115.115				5680-5730 AERONAUTICAL MOBILE (R)					
5730-5900 FIXED LAND MOBILE	5730-5900 FIXED MOBILE except aeronautical mobile (R)			5.1115.115 US340					
5900-5950 BROADCASTING 5.134				5730-5950 FIXED MOBILE except aeronautical mobile (R)					
5.136				US340					
5950-6200 BROADCASTING				5950-6200 BROADCASTING				Radio Broadcast (HF) (73)	
6200-6525 MARITIME MOBILE 5.109 5.110 5.130 5.132				US340					
5.137				6200-6525 MARITIME MOBILE 5.109 5.110 5.130 5.132				Maritime (80)	
6525-6685 AERONAUTICAL MOBILE (R)				US82 US296 US340					
				6525-6685 AERONAUTICAL MOBILE (R)				Aviation (87)	
				US283 US340					

6685-6765 AERONAUTICAL MOBILE (OR)		6685-6765 AERONAUTICAL MOBILE (OR)		
6765-7000 FIXED Land mobile 5.139	US340	6765-7000 FIXED Mobile	5.138 US340	ISM Equipment (18) International Fixed (23) Aviation (87)
5.138		7000-7100	7000-7100 AMATEUR 5.120 AMATEUR-SATELLITE	Amateur (97)
7000-7100 AMATEUR AMATEUR-SATELLITE		US340	7000-7100 AMATEUR 5.120 AMATEUR-SATELLITE	
5.140 5.141		7100-7300	7100-7300 AMATEUR	US340
7100-7300 BROADCASTING	7100-7300 AMATEUR	7100-7300 BROADCASTING	7100-7300 AMATEUR 5.120	7000-7100 AMATEUR 5.120
5.142	5.142	US340	5.142 US340	5.142 US340
7300-7350 BROADCASTING 5.134		7300-8100 FIXED Mobile		International Fixed (23) Maritime (80) Aviation (87) Private Land Mobile (90)
5.143		US340		
7350-8100 FIXED Land mobile		US236 US340		
5.144		8100-8195 MARITIME MOBILE	8100-8195 MARITIME MOBILE	Maritime (80)
8100-8195 FIXED MARITIME MOBILE		5.111 US32 US296 US340	8195-8815 MARITIME MOBILE 5.109 5.110 5.132 5.145	
5.145			8815-8965 AERONAUTICAL MOBILE (R)	Aviation (87)
8815-8965 AERONAUTICAL MOBILE (R)	US340	8965-9040 AERONAUTICAL MOBILE (OR)	8965-9040 AERONAUTICAL MOBILE (OR)	
8965-9040 AERONAUTICAL MOBILE (OR)	US340			

International Table				9040-13410 kHz (HF)	United States Table	FCC Rule Part(s)	Page 13
Region 1	Region 2	Region 3		Federal Government	Non-Federal Government		
9040-9400 FIXED				9040-9500 FIXED		International Fixed (23) Maritime (80) Aviation (87)	
9400-9500 BROADCASTING 5.134 5.146				US340		International Fixed (23) Radio Broadcast (HF) (73)	
9500-9900 BROADCASTING 5.147				9500-9900 BROADCASTING		International Fixed (23) Aviation (87)	
9900-9995 FIXED				5.147 5.148 US235 US340			
9995-10003 STANDARD FREQUENCY AND TIME SIGNAL (10000 kHz)				9900-9995 FIXED			
5.1111				US340			
10003-10005 STANDARD FREQUENCY AND TIME SIGNAL Space research				9995-10003 STANDARD FREQUENCY AND TIME SIGNAL (10000 kHz)			
5.1111				5.1111 US340			
10005-10100 AERONAUTICAL MOBILE (R)				10003-10005 STANDARD FREQUENCY AND TIME SIGNAL		10003-10005 STANDARD FREQUENCY AND TIME SIGNAL	
5.1111				5.1111 US340 G106		5.1111 US340	
10100-10150 FIXED Amateur				10005-10100 AERONAUTICAL MOBILE (R)		10005-10100 AERONAUTICAL MOBILE (R)	
10150-11175 FIXED Mobile except aeronautical mobile (R)				5.1111 US283 US340		5.1111 US283 US340	
11175-11275 AERONAUTICAL MOBILE (OR)				10100-10150 AMATEUR 5.120		10100-10150 AMATEUR 5.120	
US340				US247 US340		US247 US340	
				10150-11175 FIXED Mobile except aeronautical mobile (R)		10150-11175 FIXED Mobile except aeronautical mobile (R)	
				US340		US340	
				11175-11275 AERONAUTICAL MOBILE (OR)		11175-11275 AERONAUTICAL MOBILE (OR)	
				US340		US340	

11275-11400 AERONAUTICAL MOBILE (R)	11275-11400 AERONAUTICAL MOBILE (R)	US283 US340	Aviation (87)
11400-11600 FIXED	11400-11650 FIXED	US283 US340	International Fixed (23) Aviation (87)
11600-11650 BROADCASTING 5.134 5.146	11650-12050 BROADCASTING	US340	International Fixed (23) Radio Broadcast (HF) (73)
11650-12050 BROADCASTING	11650-12050 BROADCASTING	US235 US340	International Fixed (23) Aviation (87)
5.147	12050-12230 FIXED	US340	International Fixed (23) Aviation (87)
12050-12100 BROADCASTING 5.134 5.146	12230-13200 FIXED	US340	International Fixed (23) Maritime (80)
12230-13200 MARITIME MOBILE 5.109 5.110 5.132 5.145	12230-13200 MARITIME MOBILE 5.109 5.110 5.132 5.145	US82 US296 US340	International Fixed (23) Maritime (80)
13200-13260 AERONAUTICAL MOBILE (OR)	13200-13260 AERONAUTICAL MOBILE (OR)	US340	International Fixed (23) Aviation (87)
13260-13360 AERONAUTICAL MOBILE (R)	13260-13360 AERONAUTICAL MOBILE (R)	US283 US340	International Fixed (23) Aviation (87)
13360-13410 FIXED RADIO ASTRONOMY 5.149	13360-13410 RADIO ASTRONOMY 5.149 G115	13360-13410 RADIO ASTRONOMY 5.149	Page 14

International Table				13410-17900 kHz (HF)	United States Table	Page 15
Region 1	Region 2	Region 3				FCC Rule Part(s)
13410-13570 FIXED Mobile except aeronautical mobile (R)				Federal Government 13410-13570 FIXED Mobile except aeronautical mobile (R)	Non-Federal Government 13410-13570 FIXED	ISM Equipment (18) International Fixed (23) Aviation (87)
5.150 13570-13600 BROADCASTING 5.134				5.150 US340 13570-13600 FIXED Mobile except aeronautical mobile (R)	5.150 US340 13570-13600 FIXED	International Fixed (23) Aviation (87)
5.151 13600-13800 BROADCASTING				US340 13600-13800 BROADCASTING	US340 13600-13800 BROADCASTING	International Fixed (23) Radio Broad. (HF) (73)
13800-13870 BROADCASTING 5.134				5.148 US340 13800-14000 FIXED Mobile except aeronautical mobile (R)	13800-14000 FIXED	International Fixed (23) Aviation (87)
5.151 13870-14000 FIXED Mobile except aeronautical mobile (R)				US340 14000-14350 AMATEUR AMATEUR-SATELLITE	US340 14000-14250 AMATEUR 5.120 AMATEUR-SATELLITE	International Fixed (23) Aviation (87)
14000-14250 AMATEUR AMATEUR-SATELLITE				US340 14250-14350 AMATEUR 5.120	US340 14250-14350 AMATEUR 5.120	Amateur (97)
14250-14350 AMATEUR				US340 14350-14990 FIXED Mobile except aeronautical mobile (R)	US340 14350-14990 FIXED Mobile except aeronautical mobile (R)	International Fixed (23) Aviation (87)
5.152 14350-14990 FIXED Mobile except aeronautical mobile (R)				US340 14990-15005 STANDARD FREQUENCY AND TIME SIGNAL (15000 kHz) (15000 kHz)	US340 14990-15005 STANDARD FREQUENCY AND TIME SIGNAL (15000 kHz) (15000 kHz)	
5.111				5.111 US340		

15005-15010 STANDARD FREQUENCY AND TIME SIGNAL Space research	15005-15010 STANDARD FREQUENCY AND TIME SIGNAL	15005-15010 STANDARD FREQUENCY AND TIME SIGNAL
15010-15100 AERONAUTICAL MOBILE (OR)	US340 G106	US340
15100-15600 BROADCASTING	15010-15100 AERONAUTICAL MOBILE (OR)	US340
15600-15800 BROADCASTING 5.134	15100-15600 BROADCASTING	5.148 US340
5.146	5.148 US340	15600-16360 FIXED
15800-16360 FIXED		15600-16360 FIXED
5.153	US340	US340
16360-17410 MARITIME MOBILE 5.109 5.110 5.132 5.145	16360-17410 MARITIME MOBILE 5.109 5.110 5.132 5.145	16360-17410 MARITIME MOBILE 5.109 5.110 5.132 5.145
17410-17480 FIXED	US82 US296 US340	US82 US296 US340
17480-17550 BROADCASTING 5.134	17410-17550 FIXED	17410-17550 FIXED
5.146	US340	US340
17550-17900 BROADCASTING	17550-17900 BROADCASTING	5.148 US340
		International Fixed (23) Radio Broadcast (HF) (73)
		International Fixed (23) Aviation (87)
		International Fixed (23) Aviation (87)
		Maritime (80)
		International Fixed (23) Aviation (87)
		International Fixed (23) Radio Broadcast (HF) (73)

International Table				17900-22855 kHz (HF)	United States Table	Page 17
Region 1	Region 2	Region 3		Federal Government	Non-Federal Government	FCC Rule Part(s)
17900-17970 AERONAUTICAL MOBILE (R)				17900-17970 AERONAUTICAL MOBILE (R)		Aviation (87)
17970-18030 AERONAUTICAL MOBILE (OR)				US283 US340 17970-18030 AERONAUTICAL MOBILE (OR)		
18030-18052 FIXED				US340 18030-18068 FIXED		International Fixed (23) Maritime (80)
18052-18068 FIXED				US340 18068-18168 Space research		International Fixed (23) Amateur (97)
18068-18168 AMATEUR AMATEUR-SATELLITE				US340 18168-18780 Mobile except aeronautical mobile		International Fixed (23) Maritime (80) Aviation (87)
5.154				US340 18780-18900 MARITIME MOBILE		International Fixed (23) Maritime (80)
18780-18900 MARITIME MOBILE				US82 US296 US340 18900-19020 BROADCASTING 5.134		International Fixed (23) Aviation (87)
5.146				US340 19020-19680 FIXED		
19680-19800 MARITIME MOBILE 5.132				US340 19680-19800 MARITIME MOBILE 5.132		Maritime (80)
19800-19990 FIXED				US340 19800-19990 FIXED		International Fixed (23) Aviation (87)

	19990-19995 STANDARD FREQUENCY AND TIME SIGNAL Space research	19990-19995 STANDARD FREQUENCY AND TIME SIGNAL Space research G106	19990-19995 STANDARD FREQUENCY AND TIME SIGNAL Space research
5.111	19995-20010 STANDARD FREQUENCY AND TIME SIGNAL (20000 kHz)	5.111 US340 19995-20010 STANDARD FREQUENCY AND TIME SIGNAL (20000 kHz)	5.111 US340 19995-20010 STANDARD FREQUENCY AND TIME SIGNAL (20000 kHz)
5.111	20010-21000 FIXED Mobile	5.111 US340 G106 20010-21000 FIXED Mobile	5.111 US340 20010-21000 FIXED
	21000-21450 AMATEUR AMATEUR-SATELLITE	US340 21000-21450 AMATEUR 5.120 AMATEUR-SATELLITE	US340 21000-21450 AMATEUR 5.120 AMATEUR-SATELLITE
	21450-21850 BROADCASTING	US340 21450-21850 BROADCASTING	US340 21450-21850 BROADCASTING
	21850-21870 FIXED 5.155A	5.148 US340 21850-21924 FIXED	5.148 US340 21850-21924 FIXED
5.155	21870-21924 FIXED 5.155B	US340 21924-22000 AERONAUTICAL MOBILE (R)	US340 21924-22000 AERONAUTICAL MOBILE (R)
	21924-22000 AERONAUTICAL MOBILE (R)	US340 22000-22855 MARITIME MOBILE 5.132	US340 22000-22855 MARITIME MOBILE 5.132
5.156	22000-22855 MARITIME MOBILE 5.132	US82 US296 US340 5.156	US82 US296 US340 5.156

International Table				22855-26175 kHz (HF)	United States Table	Page 19
Region 1	Region 2	Region 3		Federal Government	Non-Federal Government	FCC Rule Part(s)
22855-23000 FIXED				22855-23000 FIXED		International Fixed (23) Aviation (87)
5.156 23000-23200 FIXED Mobile except aeronautical mobile (R)				US340 23000-23200 FIXED Mobile except aeronautical mobile (R)	23000-23200 FIXED	
5.156 23200-23350 FIXED 5.156A AERONAUTICAL MOBILE (OR)				US340 23200-23350 AERONAUTICAL MOBILE (OR)	US340	
23350-24000 FIXED MOBILE except aeronautical mobile 5.157 24000-24890 FIXED LAND MOBILE				US340 23350-24890 FIXED MOBILE except aeronautical mobile	23350-24890 FIXED	International Fixed (23) Aviation (87)
24890-24990 AMATEUR AMATEUR-SATELLITE				US340 24890-24990	24890-24990 AMATEUR 5.120 AMATEUR-SATELLITE	Amateur (97)
24990-25005 STANDARD FREQUENCY AND TIME SIGNAL (25000 kHz)				US340 24990-25005 STANDARD FREQUENCY AND TIME SIGNAL (25000 kHz)	US340	
25005-25010 STANDARD FREQUENCY AND TIME SIGNAL Space research				US340 25005-25010 STANDARD FREQUENCY AND TIME SIGNAL	25005-25010 STANDARD FREQUENCY AND TIME SIGNAL	
25010-25070 FIXED MOBILE except aeronautical mobile				US340 G106 25010-25070 LAND MOBILE	US340 25010-25070 LAND MOBILE	Private Land Mobile (90)
				US340 US340 NG112	US340 US340 NG112	

25070-25210 MARITIME MOBILE	25070-25210 MARITIME MOBILE	25070-25210 MARITIME MOBILE	Maritime (80) Private Land Mobile (90)
US82 US281 US296 US340	US82 US281 US296 US340	US82 US281 US296 US340 NG112	
25210-25330 FIXED MOBILE except aeronautical mobile	25210-25330 US340	25210-25330 LAND MOBILE US340	Private Land Mobile (90)
	25330-25550 FIXED MOBILE except aeronautical mobile	25330-25550 US340	
25550-25670 RADIO ASTRONOMY	25550-25670 RADIO ASTRONOMY US74 5.149		
25670-26100 BROADCASTING	25670-26100 BROADCASTING US25 US340	26100-26175 MARITIME MOBILE 5.132 US340	Radio Broadcast (HF) (73) Remote Pickup (74D)
26100-26175 MARITIME MOBILE 5.132			Auxiliary Broadcasting (74) Maritime (80)

International Table			25175-28000 kHz (HF)		United States Table		FCC Rule Part(s)		Page 21	
Region 1	Region 2	Region 3	Federal Government	Non-Federal Government	26175-26480 LAND MOBILE	US340	Auxiliary Broadcasting (74)			
26175-27500 FIXED MOBILE except aeronautical mobile			26175-26480 US340							
			26480-26950 FIXED MOBILE except aeronautical mobile							
			US10 US340 26950-27410		US10 US340 26950-26960 FIXED		ISM Equipment (18) International Fixed (23)			
					5.150 US340 26960-27230 MOBILE except aeronautical mobile		ISM Equipment (18) Personal Radio (95)			
					5.150 US340 27230-27410 FIXED MOBILE except aeronautical mobile		ISM Equipment (18) Private Land Mobile (90) Personal Radio (95)			
					5.150 US340 27410-27540 FIXED		Private Land Mobile (90)			
					US340 27540-28000 FIXED MOBILE					
					US298 US340		US298 US340			

28-33 MHz (HF/VHF)				FCC Rule Part(s)
International Table				United States Table
Region 1	Region 2	Region 3	Federal Government	Non-Federal Government
28-29.7 AMATEUR AMATEUR-SATELLITE			28-29.89 28-29.7 AMATEUR AMATEUR-SATELLITE US340	Amateur (97)
29.7-30.005 FIXED MOBILE			29.7-29.8 LAND MOBILE US340	Private Land Mobile (90)
			29.8-29.89 FIXED US340	International Fixed (23) Aviation (87)
			29.89-29.91 FIXED MOBILE US340	29.89-29.91
			29.91-30 US340	29.91-30 FIXED US340
			30-30.56 FIXED MOBILE SPACE RESEARCH	30-30.56 30-30.56 NG124
			30.01-37.5 FIXED MOBILE	30.56-32 30.56-32 FIXED LAND MOBILE NG124
			32-33 FIXED MOBILE	32-33
			See next page for 33-37.5 MHz	See next page for 33-37.5 MHz

International Table				33-50 MHz (VHF)		Page 23	
Region 1	Region 2	Region 3	Region 4	United States Table		FCC Rule Part(s)	
33-34	Federal Government	33-34 FIXED LAND MOBILE	Non-Federal Government	Private Land Mobile (90)			
34-35	34-35 FIXED MOBILE	NG124	34-35				
35-36	35-36 FIXED MOBILE	US220	35-36 FIXED LAND MOBILE	Public Mobile (22) Private Land Mobile (90)			
36-37	36-37 FIXED MOBILE	37-37.5	36-37 LAND MOBILE				
37-38	37.5-38 Radio astronomy	NG124	37-37.5 LAND MOBILE	Private Land Mobile (90)			
38-39	37.5-38 Radio astronomy	5.149	37.5-38 LAND MOBILE Radio astronomy				
39-40	38-38.25 FIXED MOBILE RADIO ASTRONOMY	5.149 US81	5.149 NG59 NG124 38-38.25 RADIO ASTRONOMY				
39-40	38.25-39 FIXED MOBILE		38.25-39				
39-40	39-40 LAND MOBILE	NG124	39-40 LAND MOBILE	Private Land Mobile (90)			
40-42	40-42 FIXED MOBILE		40-40.98	ISM Equipment (18) Private Land Mobile (90)			
39.986-40.02	Space research						

40.02-40.98 FIXED MOBILE	5.150	5.150 US210 40.98-42	
40.98-41.015 FIXED MOBILE Space research			
5.160 5.161 41.015-44 FIXED MOBILE	5.160 5.161 41.015-44 FIXED MOBILE	5.150 US210 US220 42-46.6	42-43.69 FIXED LAND MOBILE NG124 NG141
5.160 5.161 44-47 FIXED MOBILE			43.69-46.6 LAND MOBILE NG124 NG141
5.162 5.162A 47-68 BROADCASTING	5.162 5.162A 47-68 BROADCASTING	46.6-47 FIXED MOBILE	46.6-47 47-49.6 FIXED MOBILE NG124
5.162A 5.163 5.164 5.165 5.169 5.171		47-50 FIXED MOBILE BROADCASTING 5.162A	47-49.6 LAND MOBILE NG124 49.6-50 FIXED MOBILE See next page for 50-68 MHz
		See next page for 50-73 MHz	See next page for 50-72 MHz See next page for 50-72 MHz

International Table				50-123.5875 MHz (VHF)			
Region 1	Region 2	Region 3	United States Table	FCC Rule Part(s)			
See previous page for 47-68 MHz	50-54 AMATEUR	50-73	Federal Government	50-54 AMATEUR	Non-Federal Government		
5.162A 5.166 5.167 5.168 5.170	54.68 BROADCASTING Fixed Mobile	54.68 FIXED MOBILE BROADCASTING	54.72 BROADCASTING	Broadcast Radio (TV) (73) Auxiliary Broadcasting (74)			
5.172	68-72 BROADCASTING Fixed Mobile	5.162A 68-74.8 FIXED MOBILE except aeronautical Mobile	NG128 NG149	5.162A 68-74.8 FIXED MOBILE	72-73 FIXED MOBILE	Public Mobile (22) Private Land Mobile (90) Personal Radio (95)	
5.173	72-73 FIXED MOBILE	72-73 FIXED MOBILE	NG3 NG49 NG56	73-74.6 RADIO ASTRONOMY US74	73-74.6 RADIO ASTRONOMY US74	74-8-75.2 AERONAUTICAL RADIONAVIGATION	Aviation (87)
5.178	74.6-74.8 FIXED MOBILE	74.6-74.8 FIXED MOBILE	US273	74.6-74.8 FIXED MOBILE	74.6-74.8 FIXED MOBILE	Private Land Mobile (90)	
5.149 5.174 5.175 5.177 5.179	5.149 5.176 5.179	5.149 5.176 5.179		74.8-75.2 AERONAUTICAL RADIONAVIGATION	5.180	75.2-75.4 FIXED MOBILE	Aviation (87)
5.180 5.181	75.2-87.5 FIXED MOBILE except aeronautical Mobile	75.2-75.4 FIXED MOBILE		75.2-75.4 FIXED MOBILE	75.2-75.4 FIXED MOBILE	Private Land Mobile (90)	
5.179						US273	

75.4-76 FIXED MOBILE	75.4-87 FIXED MOBILE	75.4-88	75.4-76 FIXED MOBILE	Public Mobile (22) Private Land Mobile (90) Personal Radio (95)
76-88 BROADCASTING Fixed Mobile	5.182 5.183 5.188 87-100 FIXED MOBILE BROADCASTING		76-88 BROADCASTING	Broadcast Radio (TV) (73) Auxiliary Broadcasting (74)
5.175 5.179 5.184 5.187 87.5-100 BROADCASTING	5.185 88-100 BROADCASTING		NG128 NG129 NG149	
5.190 100-108 BROADCASTING		88-108	88-108 BROADCASTING	Broadcast Radio (FM) (73) Auxiliary Broadcasting (74)
5.192 5.194 108-117.975 AERONAUTICAL RADIONAVIGATION	US93		US93 NG2 NG128 NG129	
5.197 117.975-137 AERONAUTICAL MOBILE (R)		108-117.975 AERONAUTICAL RADIONAVIGATION		Note: The NTIA Manual (footnote G126) states that differential GPS stations may be authorized in the 108-117.975 MHz band, but the FCC has not yet addressed this footnote.
		US93	117.975-121.9375 AERONAUTICAL MOBILE (R)	Aviation (87)
		5.111 5.199 5.200 591 US26 US28	5.111 5.199 5.200 591 US26 US28	
		121.9375-123.0875	121.9375-123.0875 AERONAUTICAL MOBILE	
		591 US30 US31 US33 US80 US102 US213	591 US30 US31 US33 US80 US102 US213	
		123.0875-123.5875 AERONAUTICAL MOBILE		
		5.200 591 US32 US33 US112		
		See next page for 123.5875-137 MHz		See next page for 123.5875-137 MHz
		5.111 5.198 5.199 5.200 5.201 5.202 5.203 5.203A 5.203B		123.5875-137 MHz

137.825-138 SPACE OPERATION (space-to-Earth) METEOROLOGICAL-SATELLITE (space-to-Earth) SPACE RESEARCH (space-to-Earth) Fixed Mobile-satellite (space-to-Earth) 5.208A 5.209 Mobile except aeronautical mobile (R) 5.204 5.205 5.206 5.207 5.208	137.825-138 SPACE OPERATION (space-to-Earth) METEOROLOGICAL-SATELLITE (space-to-Earth) SPACE RESEARCH (space-to-Earth) Mobile-satellite (space-to-Earth) 599B US318 US319 US320	599A	
138-143.6 AERONAUTICAL MOBILE (OR)	138-143.6 FIXED MOBILE RADIOLOCATION Space research (space-to-Earth)	138-143.6 FIXED MOBILE Space research (space-to-Earth)	138-144 FIXED MOBILE
5.210 5.211 5.212 5.214	5.207 5.213	5.207 5.213	
143.6-143.65 AERONAUTICAL MOBILE (OR) SPACE RESEARCH (space-to-Earth)	143.6-143.65 FIXED MOBILE RADIOLOCATION SPACE RESEARCH (space-to-Earth)	143.6-143.65 FIXED MOBILE SPACE RESEARCH (space-to-Earth)	
5.211 5.212 5.214	5.207 5.213	5.207 5.213	
143.65-144 AERONAUTICAL MOBILE (OR)	143.65-144 FIXED MOBILE RADIOLOCATION Space research (space-to-Earth)	143.65-144 FIXED MOBILE Space research (space-to-Earth)	US10 G30
5.210 5.211 5.212 5.214	5.207 5.213	5.207 5.213	US10
144-146 AMATEUR AMATEUR-SATELLITE		144-148	144-146 AMATEUR 510 AMATEUR-SATELLITE
5.216			Amateur (97)
146-148 FIXED MOBILE except aeronautical mobile (R)	146-148 AMATEUR	146-148 AMATEUR FIXED MOBILE	146-148 AMATEUR
	5.217	5.217	

International Table				148-162.0125 MHz (VHF)	Page 29
		United States Table		FCC Rule Part(s)	
Region 1	Region 2	Region 3	Federal Government	Non-Federal Government	
148-149.9 FIXED MOBILE except aeronautical mobile (R) MOBILE-SATELLITE (Earth-to-space) 5.209	148-149.9 FIXED MOBILE MOBILE-SATELLITE (Earth-to-space) 5.209		148-149.9 FIXED MOBILE MOBILE-SATELLITE (Earth-to-space) 599B US319 US320 US323 US325	148-149.9 MOBILE-SATELLITE (Earth-to-space) 599B US319 US320 US323 US325	Satellite Communications (25)
5.218 5.219 5.221 149.9-150.05 MOBILE-SATELLITE (Earth-to-space) 5.209 5.224A RADIONAVIGATION-SATELLITE 5.224B	5.218 5.219 5.221 149.9-150.05 MOBILE-SATELLITE (Earth-to-space) 5.209 5.224A RADIONAVIGATION-SATELLITE 5.224B		5.218 608A US10 G30 149.9-150.05 MOBILE-SATELLITE (Earth-to-space) 599B US319 US322 RADIONAVIGATION-SATELLITE	5.218 608A US10 G30 149.9-150.05 MOBILE-SATELLITE (Earth-to-space) 599B US319 US322 RADIONAVIGATION-SATELLITE	
5.220 5.222 5.223 150.05-153 FIXED MOBILE except aeronautical mobile RADIO ASTRONOMY	150.05-156.7625 FIXED MOBILE		5.223 608B 150.05-150.8 FIXED MOBILE	150.05-150.8 150.05-150.8	
			US216 G30 150.8-152.855	US216 150.8-152.855 FIXED LAND MOBILE	
			US216 152.855-154	US216 NG4 NG51 NG112 NG124 152.855-154 LAND MOBILE	Public Mobile (22) Private Land Mobile (90) Personal Radio (95)
5.149 153-154 FIXED MOBILE except aeronautical mobile (R) Meteorological aids			NG4 NG124 154-156.2475 FIXED LAND MOBILE	152.855-154 LAND MOBILE NG4 NG124 154-156.2475 FIXED LAND MOBILE	Auxiliary Broadcasting (74) Private Land Mobile (90)
			5.226 156.2475-157.0375	5.226 NG112 NG117 NG124 NG148 156.2475-157.0375 MARITIME MOBILE	Maritime (80) Private Land Mobile (90) Personal Radio (95)
5.226 5.227 5.225 5.226 5.227					

156.7625-156.8375 MARITIME MOBILE (distress and calling)			
5.111 5.226	156.8375-174 FIXED MOBILE except aeronautical Mobile	5.226 5.227 US77 US106 US107 US266	5.226 5.227 US77 US106 US107 US266 NG117
156.8375-174 FIXED MOBILE except aeronautical Mobile		157.0375-157.1875 MARITIME MOBILE	157.0375-157.1875
		5.226 US214 US266 G109	5.226 US214 US266
		157.1875-157.45	157.1875-157.45 LAND MOBILE MARITIME MOBILE
		5.226 US223 US266	5.226 US223 US266 NG111
		157.45-161.575	157.45-161.575 FIXED LAND MOBILE
			5.226 US266 NG28 NG70 NG111 NG112 NG124 NG148 NG155
		5.226 US266	5.226 US266 NG28 NG70 NG111 NG112 NG124 NG148 NG155
		161.575-161.625	161.575-161.625 MARITIME MOBILE
		5.226 US77	5.226 US77 NG6 NG17
		161.625-161.775	161.625-161.775 LAND MOBILE
		5.226	5.226 NG6
		161.775-162.0125	161.775-162.0125 LAND MOBILE MARITIME MOBILE
		5.226 US266	5.226 US266 NG6
		See next page for 162.0125-174 MHz	See next page for 162.0125-174 MHz
5.226 5.229	5.226 5.230 5.231 5.232		162.0125-174 MHz

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International Table				162.0125-322 MHz (VHF/UHF)			
Region 1	Region 2	Region 3		United States Table		FCC Rule Part(s)	
See previous page for 156.8375-174 MHz				Federal Government	Non-Federal Government		
			162.0125-173.2 FIXED MOBILE	162.0125-173.2		Auxiliary Broadcasting (74) Private Land Mobile (90)	
			5.2226 US8 US11 US13. US216 US223 US300 US312 G5	5.2226 US8 US11 US13 US216 US223 US300 US312			
			173.2-173.4	173.2-173.4 FIXED Land mobile		Private Land Mobile (90)	
			173.4-174 FIXED MOBILE	173.4-174			
			G5				
			174-216 BROADCASTING Fixed Mobile	174-216 FIXED MOBILE BROADCASTING	174-216 BROADCASTING	Broadcast Radio (TV) (73)	
			5.234		NG115 NG128 NG149	Auxiliary Broadcasting (74)	
			216-220 FIXED MARITIME MOBILE Radiolocation 5.241	216-220 Fixed Mobile Radiolocation 5.241 G2	216-220 FIXED MOBILE except aeronautical mobile	Maritime (80) Private Land Mobile (90)	
			5.242	US210 US229	US210 US229 NG152 NG173	Personal Radio (95) Amateur (97)	
			220-225 AMATEUR FIXED MOBILE Radiolocation 5.241	220-222 FIXED LAND MOBILE Radiolocation 5.241 G2	220-222 FIXED LAND MOBILE	Private Land Mobile (90)	
			US335	US335			
			5.233 5.238 5.240 5.245	222-225 Radiolocation 5.241 G2	222-225 AMATEUR	Amateur (97)	
			5.235 5.237 5.243				

223-230 BROADCASTING Fixed Mobile	225-235 FIXED MOBILE	225-235 FIXED MOBILE	225-235 FIXED MOBILE	225-235 FIXED MOBILE
5.243 5.246 5.247	230-235 FIXED MOBILE	230-235 FIXED MOBILE	230-235 FIXED MOBILE	230-235 FIXED MOBILE
5.247 5.251 5.252	235-267 FIXED MOBILE	235-267 FIXED MOBILE	235-267 FIXED MOBILE	235-267 FIXED MOBILE
5.111 5.199 5.252 5.254 5.256	267-272 FIXED MOBILE	267-322 FIXED MOBILE	267-322 FIXED MOBILE	267-322 FIXED MOBILE
Space operation (space-to-Earth)	Space operation (space-to-Earth)			
5.254 5.257	272-273 SPACE OPERATION (space-to-Earth) FIXED MOBILE			
5.254	273-312 FIXED MOBILE			
5.254	312-315 FIXED MOBILE			
	Mobile-satellite (Earth-to-space) 5.254 5.255			
	See next page for 315-322 MHz	G27 G100		

International Table				322-410 MHz (UHF)	Page 33
Region 1	Region 2	Region 3		United States Table	FCC Rule Part(s)
315-322 FIXED MOBILE				Federal Government	See previous page for 267-322 MHz
5.254 322-328.6 FIXED MOBILE RADIO ASTRONOMY				Non-Federal Government	See previous page for 267-322 MHz
5.149 328.6-335.4 AERONAUTICAL RADIONAVIGATION 5.258					
5.259 335.4-387 FIXED MOBILE				322-328.6 FIXED MOBILE	322-328.6
5.254 387-390 FIXED MOBILE Mobile-satellite (space-to-Earth) 5.208A 5.254 5.255					
5.254 390-399.9 FIXED MOBILE					
5.254 399.9-400.05 MOBILE-SATELLITE (Earth-to-space) 5.209 A5.224A RADIONAVIGATION-SATELLITE 5.222 5.224B 5.260				G27 G100	399.9-400.05 MOBILE-SATELLITE (Earth-to-space) US319 US322 RADIONAVIGATION-SATELLITE
5.220 400.05-400.15 STANDARD FREQUENCY AND TIME SIGNAL-SATELLITE (400.1 MHz)				5.260	400.05-400.15 STANDARD FREQUENCY AND TIME SIGNAL- SATELLITE (400.1 MHz)
5.261 5.262				5.261	

			Satellite Communications (25)
400.15-401 METEOROLOGICAL AIDS METEOROLOGICAL-SATELLITE (space-to-Earth) MOBILE-SATELLITE (space-to-Earth) 5.208A 5.209 SPACE RESEARCH (space-to-Earth) 5.263 Space operation (space-to-Earth)	400.15-401 METEOROLOGICAL AIDS (radiosonde) METEOROLOGICAL-SATELLITE (space-to-Earth) MOBILE-SATELLITE (space-to-Earth) 599B US319 US320 US324 SPACE RESEARCH (space-to-Earth) 5.263 SPACE RESEARCH (space-to-Earth) 5.263 Space operation (space-to-Earth) Space operation (space-to-Earth)	400.15-401 METEOROLOGICAL AIDS (radiosonde) MOBILE-SATELLITE (space-to-Earth) 599B US319 US320 US324 SPACE RESEARCH (space-to-Earth) 5.263 Space operation (space-to-Earth)	Satellite Communications (25)
5.262 5.264	647B US70	647B US70	
401-402 METEOROLOGICAL AIDS SPACE OPERATION (space-to-Earth) EARTH EXPLORATION-SATELLITE (Earth-to-space) METEOROLOGICAL-SATELLITE (Earth-to-space) Fixed	401-402 METEOROLOGICAL AIDS (radiosonde) SPACE OPERATION (space-to-Earth) Earth exploration-satellite (Earth-to-space) Meteorological-satellite (Earth-to-space)	401-402 METEOROLOGICAL AIDS (radiosonde) SPACE OPERATION (space-to-Earth) Earth exploration-satellite (Earth-to-space) Meteorological-satellite (Earth-to-space)	
402-403 METEOROLOGICAL AIDS EARTH EXPLORATION-SATELLITE (Earth-to-space) METEOROLOGICAL-SATELLITE (Earth-to-space) Fixed	402-403 METEOROLOGICAL AIDS (radiosonde) US70 Earth exploration-satellite (Earth-to-space) Meteorological-satellite (Earth-to-space)	402-403 METEOROLOGICAL AIDS (radiosonde) US70 Earth exploration-satellite (Earth-to-space) Meteorological-satellite (Earth-to-space)	Personal Radio (95)
Mobile except aeronautical mobile	US345	US345	
403-406 METEOROLOGICAL AIDS Fixed	403-406 METEOROLOGICAL AIDS (radiosonde) US70 US345 G6	403-406 METEOROLOGICAL AIDS (radiosonde) US70 US345	Personal Radio (95)
Mobile except aeronautical mobile	406-406.1 MOBILE-SATELLITE (Earth-to-space)	406-406.1 MOBILE-SATELLITE (Earth-to-space)	
5.266 5.267	5.266 5.267	5.266 5.267	
406.1-410 FIXED MOBILE except aeronautical mobile RADIO ASTRONOMY	406.1-410 FIXED MOBILE RADIO ASTRONOMY US74 US13 US117 G5 G6	406.1-410 RADIO ASTRONOMY US74 US13 US117	
5.149			Page 34

International Table				410-470 MHz (UHF)		Page 35	
Region 1	Region 2	Region 3		Federal Government	United States Table	FCC Rule Part(s)	
				410-420 FIXED MOBILE except aeronautical mobile SPACE RESEARCH (space-to-space) 5.268	Non-Federal Government 410-420 FIXED MOBILE		
420-430 FIXED MOBILE except aeronautical mobile Radiolocation				US13 G5	US13	420-450 RADIOLOCATION G2	Private Land Mobile (90) Amateur (97)
5.269 5.270 5.271 430-440 AMATEUR RADIOLOCATION	430-440 RADIOLOCATION Amateur						
5.138 5.271 5.272 5.273 5.274 5.275 5.276 5.277 5.280 5.281 5.282 5.283	5.271 5.276 5.277 5.278 5.279 5.281 5.282						
440-450 FIXED MOBILE except aeronautical mobile Radiolocation				5.286 US7 US87 US217 US228 US230 G8	5.282 5.286 US7 US87 US217 US228 US230 NG135	450-454 LAND MOBILE	Auxiliary Broadcasting (74) Private Land Mobile (90)
5.269 5.270 5.271 5.284 5.285 5.286 450-455 FIXED MOBILE				5.286 US87 454-456	5.286 US87 NG112 NG124	454-455 FIXED LAND MOBILE	Public Mobile (22) Maritime (80)
5.209 5.271 5.286 5.286A 5.286B 5.286C 5.286D 5.286E 455-456 FIXED MOBILE	455-456 FIXED MOBILE MOBILE-SATELLITE (Earth-to-space) 5.286A 5.286B 5.286C	455-456 FIXED MOBILE	NG12 NG112 NG148	5.209 5.271 5.286A 5.286B 5.286C 5.286E	455-456 LAND MOBILE	455-456 LAND MOBILE	Auxiliary Broadcasting (74)
5.209 5.271 5.286A 5.286B 5.286C 5.286D 5.286E 5.286C 5.286E	5.209						

456-459 FIXED MOBILE 5.271 5.287 5.298	456-460 FIXED MOBILE MOBILE-SATELLITE (Earth-to-space) 5.286A 5.286B 5.286C 5.286E	456-460 FIXED MOBILE MOBILE-SATELLITE (Earth-to-space) 5.286A 5.286B 5.286C 5.286E	456-460 FIXED LAND MOBILE	Public Mobile (22) Maritime (80) Private Land Mobile (90)
5.209 5.271 5.286A 5.286B 5.286C 5.286E	5.209	5.209 5.271 5.286A 5.286B 5.286C 5.286E	5.288 669	5.288 669 NG112 NG124 NG148
460-470 FIXED MOBILE Meteorological-satellite (space-to-Earth)		460-470 Meteorological-satellite (space-to-Earth)	460-470 FIXED LAND MOBILE	Private Land Mobile (90)
			5.289 US201	US209 NG124
			462-5375-462-7375 5.289 US201	Personal Radio (95)
			462-7375-467-5375 5.289 US209	Private Land Mobile (90)
			467-5375-467-7375 US216 NG124	Personal Radio (95)
			5.289 669 US201 5.289 669 US201	Personal Radio (95)
			467-7375-470 5.288 5.289 US216	Private Land Mobile (90)
			5.288 5.289 669 US201 NG124	Page 36
5.287 5.288 5.289 5.290				

International Table				470-849 MHz (UHF)	United States Table	FCC Rule Part(s)	Page 37
Region 1	Region 2	Region 3		Federal Government	Non-Federal Government		
470-790 BROADCASTING	470-512 BROADCASTING Fixed Mobile	470-585 FIXED MOBILE BROADCASTING		470-608	470-512 BROADCASTING NG128 NG149 FIXED NG127 LAND MOBILE NG66 NG114	Public Mobile (22) Broadcast Radio (TV) (73) Auxiliary Broadcasting (74) Private Land Mobile (90)	
	5.292 5.293	5.291 5.298			512-608 BROADCASTING NG128 NG149	Broadcast Radio (TV) (73) Auxiliary Broadcasting (74)	
	512-608 BROADCASTING	585-610 FIXED MOBILE BROADCASTING RADIONAVIGATION					
	5.297	608-614 RADIO ASTRONOMY Mobile-satellite except aeronautical mobile-satellite (Earth-to-space)	608-614 RADIO ASTRONOMY US74 LAND MOBILE US350	614-890	614-698 BROADCASTING NG128 NG149	Personal (95)	
	614-806 BROADCASTING Fixed Mobile	610-890 FIXED MOBILE 5.317A BROADCASTING	US246				
					698-746 BROADCASTING NG128 FIXED MOBILE NG159	Broadcast Radio (TV) (73) Auxiliary Broadcasting (74)	
					746-764 BROADCASTING NG128 FIXED MOBILE NG159	Wireless Communications (27) Broadcast Radio (TV) (73) Auxiliary Broadcasting (74) Private Land Mobile (90)	

5.149 5.291A 5.294 5.296 5.300 5.302 5.304 5.306 5.311 5.312	790-862 FIXED BROADCASTING 5.293 5.309 5.311 806-890 FIXED MOBILE 5.317A BROADCASTING	764-776 FIXED MOBILE NG128 NG158 NG159 776-794 BROADCASTING NG128 794-806 FIXED MOBILE NG159 806-821 FIXED LAND MOBILE NG30 NG31 NG43 NG63 821-824 LAND MOBILE NG30 NG43 NG63 824-849 FIXED LAND MOBILE NG30 NG43 NG63 NG151 5.312 5.314 5.315 5.316 5.319 5.321 See next page for 862-890 MHz	Auxiliary Broadcasting (74) Private Land Mobile (90) Wireless Communications (27) Broadcast Radio (TV) (73) Auxiliary Broadcast (74) Private Land Mobile (90) Auxiliary Broadcasting (74) Private Land Mobile (90) Public Mobile (22) Private Land Mobile (90) Private Land Mobile (90) Public Mobile (22)
		5.149 5.305 5.306 5.307 5.311 5.320	See next page for 866-896 MHz
	5.317 5.318		Page 38

849-941 MHz (UHF)			
International Table		United States Table	
Region 1	Region 2	Federal Government	Non-Federal Government
See previous pages for 6140-862 MHz	See previous pages for 614-890 MHz	See previous pages for 614-890 MHz	See previous pages for 614-849 MHz
		849-851 AERONAUTICAL MOBILE	849-849 MHz
		NG30 NG63	See previous pages for 614-849 MHz
		851-866 FIXED LAND MOBILE	Public Mobile (22) Private Land Mobile (90)
		NG30 NG31 NG63	
		866-869 LAND MOBILE	Private Land Mobile (90)
		NG30 NG63	
		869-894 FIXED LAND MOBILE	Public Mobile (22)
		890-902 FIXED MOBILE except aeronautical mobile 5.317A Radiolocation	890-902
		890-942 FIXED MOBILE except aeronautical mobile 5.317A Radiolocation	US116 US268 NG30 NG63 NG151
		894-896 AERONAUTICAL MOBILE	
		US116 US268	
		896-901 FIXED LAND MOBILE	
		US116 US268	
		901-902 FIXED MOBILE	901-902 FIXED MOBILE
		US116 US268 G2	Personal Communications (24)
		5.318 5.323	US116 US268 G2

902-928 FIXED Amateur Mobile except aeronautical mobile 5.325A Radiolocation 5.150 5.325 5.326	902-928 RADIOLOCATION G59	902-928 ISM Equipment (18) Private Land Mobile (90) Amateur (97)
928-942 FIXED MOBILE except aeronautical mobile 5.317A Radiolocation	5.150 US215 US218 US267 US275 G11 928-932	5.150 US215 US218 US267 US275 928-929 FIXED US116 US215 US268 NG120
		929-930 FIXED LAND MOBILE US116 US215 US268
		930-931 FIXED MOBILE US116 US215 US268
		931-932 FIXED LAND MOBILE US116 US215 US268 G2
		932-935 FIXED US215 US268 G2 935-940
		935-940 FIXED LAND MOBILE US116 US215 US268 G2 940-941
		940-941 FIXED MOBILE US116 US268 G2 See next page for 941-944 MHz
5.323	5.325	See next page for 941-944 MHz 5.327

International Table				941-1430 MHz (UHF)	United States Table	Page 41
Region 1	Region 2	Region 3				FCC Rule Part(s)
See previous page for 890-942 MHz						
942-960 FIXED MOBILE except aeronautical mobile 5.317A BROADCASTING 5.322	942-960 FIXED MOBILE 5.317A	942-960 FIXED MOBILE 5.317A BROADCASTING		941-944 FIXED US268 US301 US302 G2	941-944 FIXED US268 US301 US302 G2	Non-Federal Government Public Mobile (22) Fixed Microwave (101)
5.323			5.320	944-960 FIXED NG120	944-960 FIXED NG120	Public Mobile (22) Auxiliary Broadcast (74) Fixed Microwave (101)
960-1215 AERONAUTICAL RADIONAVIGATION				960-1215 AERONAUTICAL RADIONAVIGATION		Aviation (87)
5.328A				5.328 US224	1215-1240 RADIOLOCATION 5.333	1215-1240
1215-1240 EARTH EXPLORATION-SATELLITE (active) RADIOLOCATION RADIONAVIGATION-SATELLITE (space-to-Earth) (space-to-space) 5.329A SPACE RESEARCH (active)					G56 RADIONAVIGATION- SATELLITE (space-to- Earth)	
5.330 5.331 5.332					5.333	
1240-1260 EARTH EXPLORATION-SATELLITE (active) RADIOLOCATION RADIONAVIGATION-SATELLITE (space-to-Earth) (space-to-space) 5.329 5.329A SPACE RESEARCH (active) Amateur				1240-1300 RADIOLOCATION 5.333	1240-1300 Amateur	Amateur (97)
5.330 5.331 5.332 5.334 5.335						
1260-1300 EARTH EXPLORATION-SATELLITE (active) RADIOLOCATION RADIONAVIGATION-SATELLITE (space-to-Earth) (space-to-space) 5.329 5.329A SPACE RESEARCH (active) Amateur						
5.292 5.330 5.331 5.334 5.335A				5.334		5.282 5.333 5.334
1300-1350 AERONAUTICAL RADIONAVIGATION 5.337 RADIOLOCATION RADIONAVIGATION-SATELLITE (Earth-to-space)				1300-1350 AERONAUTICAL RADIO- NAVIGATION 5.337 RadioLocation G2	1300-1350 AERONAUTICAL RADIO- NAVIGATION 5.337	Aviation (87)
5.149 5.337A				5.149	5.149	

1350-1400 FIXED MOBILE RADIOLOCATION	1350-1400 RADIOLOCATION	1350-1390 FIXED MOBILE RADIOLOCATION G2	1350-1390 G27 G114	1350-1390 G27 G114
		5.149 5.334 5.339 US311	5.149 5.334 5.339 US311	5.149 5.334 5.339 US311
		1390-1395		1390-1392 FIXED MOBILE except aeronautical mobile FIXED-SATELLITE (Earth-to-space) US368
				5.149 5.339 US311 US351
				1392-1395 FIXED MOBILE except aeronautical mobile
				5.149 5.339 US311 US351
				1395-1400 LAND MOBILE US360
				5.149 U5.339 US311 US351
5.149 5.338 5.339	5.149 5.334 5.339			Personal (95)
1400-1427 EARTH EXPLORATION-SATELLITE (passive) RADIO ASTRONOMY SPACE RESEARCH (passive)		1400-1427 EARTH EXPLORATION-SATELLITE (passive) RADIO ASTRONOMY US74 SPACE RESEARCH (passive)		
5.340 5.341		5.341 US246		
1427-1429 SPACE OPERATION (Earth-to-space) FIXED MOBILE except aeronautical mobile		1427-1429.5 LAND MOBILE US360	1427-1429.5 LAND MOBILE Fixed (telemetry)	Private Land Mobile (90) Personal (95)
5.341	See next page for 1429-1452 MHz	5.341 US352	5.341 US352	
		See next page for 1429.5-1432 MHz	1429.5-1430 FIXED (telemetry) LAND MOBILE (telemetry)	
			5.341 US350 US352	

		International Table		1430-1610 MHz (UHF)		Page 43	
		Region 2	Region 3	Federal Government	United States Table	FCC Rule Part(s)	
				Non-Federal Government		See previous page	
Region 1		1429-1452 FIXED MOBILE except aeronautical Mobile	1429-1452 FIXED MOBILE 5.343	1429 5-1432	1430-1432 FIXED (telemetry) LAND MOBILE (telemetry) FIXED-SATELLITE (space-to-Earth) US368	Private Land Mobile (90) Personal (95)	See previous page
				5.341 US352	5.341 US350 US352		
				1432-1435	1432-1435 FIXED MOBILE except aeronautical mobile	Wireless Communications (27)	
				5.341 US361	5.341 US361		
				1435-1525	MOBILE (aeronautical telemetry)	Aviation (87)	
5.341 5.342	1452-1492 FIXED MOBILE except aeronautical mobile	1452-1492 FIXED MOBILE 5.343 BROADCASTING 5.345 5.347 BROADCASTING- SATELLITE 5.345 5.347					
				5.341 5.344	1492-1525 FIXED MOBILE 5.343 MOBILE-SATELLITE (space-to-Earth) 5.348A	1492-1525 FIXED MOBILE	
						5.341 5.348A	
						5.341 US78	
5.341 5.342	1492-1525 FIXED MOBILE except aeronautical mobile	1525-1530 SPACE OPERATION (space-to-Earth) FIXED MOBILE-SATELLITE (space-to-Earth) 5.351A Earth exploration-satellite Mobile 5.343			1525-1530 SPACE OPERATION (space-to-Earth) MOBILE-SATELLITE (space-to-Earth) 5.351A Earth exploration-satellite Fixed Mobile 5.349	1525-1530 MOBILE-SATELLITE (space-to-Earth) Mobile (aeronautical telemetry)	Satellite Communications (25) Aviation (87)
5.341 5.342 5.350 5.351 5.352A 5.354		5.341 5.351 5.354				5.341 5.351 5.354	5.341 5.351 US78

1530-1535 SPACE OPERATION (space-to-Earth) MOBILE-SATELLITE (space-to-Earth) 5.351A 5.353A Earth exploration-satellite Fixed Mobile except aeronautical mobile	1530-1535 SPACE OPERATION (space-to-Earth) MOBILE-SATELLITE (space-to-Earth) 5.351A 5.353A Earth exploration-satellite Fixed Mobile 5.343	1530-1535 MOBILE-SATELLITE (space-to-Earth) MARITIME MOBILE-SATELLITE (space-to-Earth) Mobile (aeronautical telemetry)	Satellite Communications (25)	
5.341 5.342 5.351 5.354	5.341 5.351 5.354	5.341 5.351 US78 US315	Satellite Maritime (80)	
1535-1559 MOBILE-SATELLITE (space-to-Earth) 5.351A	1535-1544 MOBILE-SATELLITE (space-to-Earth) MARITIME MOBILE-SATELLITE (space-to-Earth)	5.341 5.351 US315	Satellite Communications (25)	
		5.341 5.351 US315		
		1544-1545 MOBILE-SATELLITE (space-to-Earth)		
		5.341 5.356		
		1545-1549.5 AERONAUTICAL MOBILE-SATELLITE (R) (space-to-Earth) Mobile-satellite (space-to-Earth)		
		5.341 5.351 US308 US309		
		1549.5-1558.5 AERONAUTICAL MOBILE-SATELLITE (R) (space-to-Earth) MOBILE-SATELLITE (space-to-Earth)		
		5.341 5.351 US308 US309		
		1558.5-1559 AERONAUTICAL MOBILE-SATELLITE (R) (space-to-Earth)		
		5.341 5.351 US308 US309		
		1559-1610 AERONAUTICAL RADIONAVIGATION RADIONAVIGATION-SATELLITE (space-to-Earth) (space-to-space) 5.329A		
		5.341 5.351 US308 US309		
		1559-1610 AERONAUTICAL RADIONAVIGATION RADIONAVIGATION-SATELLITE (space-to-Earth)		
		5.341 US208 US260		
				Note: The NTIA Manual (footnote G126) states that differential GPS stations may be authorized in the 1559-1610 MHz band, but the FCC has not yet addressed this footnote.
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International Table				1610-1670 MHz (UHF)	Page 45
Region 1	Region 2	Region 3		United States Table	FCC Rule Part(s)
Federal Government		Non-Federal Government			
1610-1610.6 MOBILE-SATELLITE (Earth-to-space) 5.351A AERONAUTICAL RADIONAVIGATION	1610-1610.6 MOBILE-SATELLITE (Earth-to-space) 5.351A AERONAUTICAL RADIONAVIGATION RADIODETERMINATION- SATELLITE (Earth-to- space)	1610-1610.6 MOBILE-SATELLITE (Earth-to-space) 5.351A AERONAUTICAL RADIONAVIGATION RADIODETERMINATION-satellite (Earth-to-space)	1610-1610.6 MOBILE-SATELLITE (Earth-to-space) US319 AERONAUTICAL RADIONAVIGATION US260 RADIODETERMINATION-SATELLITE(Earth-to-space)		Satellite Communications (25) Aviation (87)
5.341 5.355 5.359 5.363 5.364 5.366 5.367 5.368 5.369 5.371 5.372	5.341 5.364 5.366 5.367 5.368 5.370 5.372	5.341 5.355 5.359 5.364 5.366 5.367 5.368 5.369 5.372	5.341 5.364 5.366 5.367 5.368 5.372 US208		
1610.6-1613.8 MOBILE-SATELLITE (Earth-to-space) 5.351A RADIO ASTRONOMY AERONAUTICAL RADIONAVIGATION	1610.6-1613.8 MOBILE-SATELLITE (Earth-to-space) 5.351A RADIO ASTRONOMY AERONAUTICAL RADIONAVIGATION RADIODETERMINATION- SATELLITE (Earth-to- space)	1610.6-1613.8 MOBILE-SATELLITE (Earth-to-space) 5.351A RADIO ASTRONOMY AERONAUTICAL RADIONAVIGATION RADIODETERMINATION-satellite (Earth-to-space)	1610.6-1613.8 MOBILE-SATELLITE (Earth-to-space) US319 RADIO ASTRONOMY AERONAUTICAL RADIONAVIGATION US260 RADIODETERMINATION-SATELLITE (Earth-to-space)		
5.149 5.341 5.355 5.359 5.363 5.364 5.366 5.367 5.368 5.369 5.371 5.372	5.149 5.341 5.364 5.366 5.367 5.368 5.370 5.372	5.149 5.341 5.355 5.359 5.364 5.366 5.367 5.368 5.369 5.372	5.149 5.341 5.364 5.366 5.367 5.368 5.372 US208		
1613.8-1626.5 MOBILE-SATELLITE (Earth-to-space) 5.351A AERONAUTICAL RADIONAVIGATION Mobile-satellite (space-to-Earth)	1613.8-1626.5 MOBILE-SATELLITE (Earth-to-space) 5.351A AERONAUTICAL RADIONAVIGATION RADIODETERMINATION- SATELLITE (Earth-to- space) Mobile-satellite (space-to- Earth)	1613.8-1626.5 MOBILE-SATELLITE (Earth-to-space) 5.351A AERONAUTICAL RADIONAVIGATION Mobile-satellite (space-to- Earth) Radiodetermination- satellite (Earth-to-space)	1613.8-1626.5 MOBILE-SATELLITE (Earth-to-space) US319 AERONAUTICAL RADIONAVIGATION US260 RADIODETERMINATION-SATELLITE (Earth-to-space) Mobile-satellite (space-to-Earth)		
5.341 5.355 5.359 5.363 5.364 5.365 5.366 5.367 5.368 5.369 5.371 5.372	5.341 5.364 5.365 5.366 5.367 5.368 5.370 5.372	5.341 5.355 5.359 5.364 5.365 5.366 5.367 5.368 5.369 5.372	5.341 5.364 5.365 5.366 5.367 5.368 5.372 US208		

1626 5-1660 MOBILE-SATELLITE (Earth-to-space) 5.351A	1626.5-1645.5 MOBILE-SATELLITE (Earth-to-space) MARITIME MOBILE-SATELLITE (Earth-to-space) 5.341 5.351 US315	Satellite Communications (25) Maritime (80)
	1645.5-1646.5 MOBILE-SATELLITE (Earth-to-space) 5.341 5.375	
	1646 5-1651 AERONAUTICAL MOBILE-SATELLITE (R) (Earth-to-space) Mobile-satellite (Earth-to-space) 5.341 5.351 US308 US309	Aviation (87)
	1651-1660 MOBILE-SATELLITE (Earth-to-space) AERONAUTICAL MOBILE-SATELLITE (R) (Earth-to-space)	
5.341 5.351 5.353A 5.354 5.355 5.357A 5.359 5.362A 5.374 5.375 5.376	5.341 5.351 US308 US309	
1660-1660.5 MOBILE-SATELLITE (Earth-to-space) 5.351A RADIO ASTRONOMY	1660-1660.5 AERONAUTICAL MOBILE-SATELLITE (R) (Earth-to-space) RADIO ASTRONOMY 5.149 5.341 5.351 US308 US309	
1660.5-1668.4 RADIO ASTRONOMY SPACE RESEARCH (passive) Fixed Mobile except aeronautical mobile 5.149 5.341 5.379 5.379A	1660.5-1668.4 RADIO ASTRONOMY US74 SPACE RESEARCH (passive) 5.341 US246	
1668 4-1670 METEOROLOGICAL AIDS FIXED MOBILE except aeronautical mobile RADIO ASTRONOMY	1668.4-1670 METEOROLOGICAL AIDS (radiosonde) RADIO ASTRONOMY US74 5.149 5.341 US99	

International Table				1670-2110 MHz (UHF)		Page 47	
Region 1	Region 2	Region 3		Federal Government	Non-Federal Government	FCC Rule Part(s)	
1670-1675 METEOROLOGICAL AIDS FIXED METEOROLOGICAL-SATELLITE (space-to-Earth) MOBILE 5.380				1670-1675 METEOROLOGICAL-SATELLITE (space-to-Earth) MOBILE except aeronautical mobile	1670-1675 FIXED MOBILE except aeronautical mobile	Wireless Communications (27)	
5.341 1675-1690 METEOROLOGICAL AIDS FIXED METEOROLOGICAL-SAT- ELITE (space-to-Earth) MOBILE except aeronautical mobile	1675-1690 METEOROLOGICAL AIDS FIXED METEOROLOGICAL-SAT- ELITE (space-to-Earth) MOBILE except aeronautical mobile	1675-1690 METEOROLOGICAL AIDS FIXED METEOROLOGICAL-SAT- ELITE (space-to-Earth) MOBILE except aeronautical mobile	5.341 US211 US362	1675-1700 METEOROLOGICAL AIDS (radiosonde) METEOROLOGICAL-SATELLITE (space-to-Earth)	1675-1700 METEOROLOGICAL AIDS (radiosonde) METEOROLOGICAL-SATELLITE (space-to-Earth)		
5.341 1690-1700 METEOROLOGICAL AIDS METEOROLOGICAL-SAT- ELITE (space-to-Earth) Fixed Mobile except aeronautical mobile	1690-1700 METEOROLOGICAL AIDS METEOROLOGICAL-SAT- ELITE (space-to-Earth) MOBILE-SATELLITE (Earth-to-space)	1690-1700 METEOROLOGICAL AIDS METEOROLOGICAL-SAT- ELITE (space-to-Earth) MOBILE-SATELLITE (Earth-to-space)	5.341 5.377	1690-1700 METEOROLOGICAL AIDS METEOROLOGICAL-SAT- ELITE (space-to-Earth)	1690-1700 METEOROLOGICAL AIDS METEOROLOGICAL-SAT- ELITE (space-to-Earth)		
5.289 5.341 5.382 1700-1710 FIXED METEOROLOGICAL-SAT- ELITE (space-to-Earth) MOBILE except aeronautical mobile	5.289 5.341 5.377 5.381 1700-1710 FIXED METEOROLOGICAL-SAT- ELITE (space-to-Earth) MOBILE except aeronautical mobile	5.289 5.341 5.381 1700-1710 FIXED METEOROLOGICAL-SAT- ELITE (space-to-Earth) MOBILE except aeronautical mobile	5.289 5.341 5.381 1700-1710 FIXED METEOROLOGICAL-SAT- ELITE (space-to-Earth) MOBILE except aeronautical mobile	5.289 5.341 US211 1700-1710 FIXED G118 METEOROLOGICAL-SAT- ELITE (space-to-Earth)	5.289 5.341 US211 1700-1710 FIXED G118 METEOROLOGICAL-SAT- ELITE (space-to-Earth)	1700-1710 METEOROLOGICAL-SAT- ELITE (space-to-Earth)- Fixed	
5.289 5.341 1710-1930 FIXED MOBILE 5.380 5.384A 5.385A	5.289 5.341 5.377 1710-1755 FIXED MOBILE	5.289 5.341 5.384 1710-1755 FIXED MOBILE	5.289 5.341 1710-1755 FIXED MOBILE	5.289 5.341 1710-1755 FIXED MOBILE	5.289 5.341 1710-1755 FIXED MOBILE	5.289 5.341 1710-1755 FIXED MOBILE	5.341 US256