Service Bulletin SB–GA200–2012–08, Issue 2, dated September 4, 2012.

(g) Other FAA AD Provisions

The following provisions also apply to this AD:

(1) *Alternative Methods of Compliance (AMOCs):* The Manager, Standards Office, FAA, has the authority to approve AMOCs for this AD, if requested using the procedures found in 14 CFR 39.19. Send information to ATTN: Doug Rudolph, Aerospace Engineer, FAA, Small Airplane Directorate, 901 Locust, Room 301, Kansas City, Missouri 64106; telephone: (816) 329–4059; fax: (816) 329–4090; email: *doug.rudolph@faa.gov.* Before using any approved AMOC on any airplane to which the AMOC applies, notify your appropriate principal inspector (PI) in the FAA Flight Standards District Office (FSDO), or lacking a PI, your local FSDO.

(2) *Airworthy Product:* For any requirement in this AD to obtain corrective actions from a manufacturer or other source, use these actions if they are FAA-approved. Corrective actions are considered FAA-approved if they are approved by the State of Design Authority (or their delegated agent). You are required to assure the product is airworthy before it is returned to service.

(3) *Reporting Requirements:* For any reporting requirement in this AD, a federal agency may not conduct or sponsor, and a person is not required to respond to, nor shall a person be subject to a penalty for failure to comply with a collection of information subject to the requirements of the Paperwork Reduction Act unless that collection of information displays a current valid OMB Control Number. The OMB Control Number for this information collection is 2120–0056. Public reporting for this collection of information is estimated to be approximately 5 minutes per response, including the time for reviewing instructions, completing and reviewing the collection of information. All responses to this collection of information are mandatory. Comments concerning the accuracy of this burden and suggestions for reducing the burden should be directed to the FAA at: 800 Independence Ave. SW., Washington, DC 20591, Attn: Information Collection Clearance Officer, AES–200.

(h) Related Information

Refer to MCAI Civil Aviation Safety Authority (CASA) AD AD/GA200/1, Amendment 1, dated September 21, 2012; GippsAero Mandatory Service Bulletin SB–GA200–2012–08, Issue 1, dated August 22, 2012; and GippsAero Mandatory Service Bulletin SB–GA200–2012–08, Issue 2, dated September 4, 2012, for related information.

(i) Material Incorporated by Reference

(1) The Director of the Federal Register approved the incorporation by reference (IBR) of the service information listed in this paragraph under 5 U.S.C. 552(a) and 1 CFR part 51.

(2) You must use this service information as applicable to do the actions required by this AD, unless the AD specifies otherwise.

(3) The following service information was approved for IBR on January 31, 2013.

(i) GippsAero Mandatory Service Bulletin SB–GA200–2012–08, Issue 2, dated September 4, 2012.

(ii) Reserved.

(4) The following service information was approved for IBR on September 14, 2012 (77 FR 55686, September 11, 2012).

(i) GippsAero Mandatory Service Bulletin SB–GA200–2012–08, Issue 1, dated August 22, 2012.

(ii) Reserved.

(5) For GippsAero service information identified in this AD, contact GippsAero, P.O. Box 881, Morwell, Victoria 3840, Australia, telephone: + 61 (0) 3 5172 1200; fax + 61 (0) 3 5172 1201; email: *support@gippsaero.com;* Internet: *www.gippsaero.com.*

(6) You may view this service information at FAA, Small Airplane Directorate, 901 Locust, Kansas City, Missouri 64106. For information on the availability of this material at the FAA, call (816) 329–4148.

(7) You may view this service information that is incorporated by reference at the National Archives and Records Administration (NARA). For information on the availability of this material at NARA, call 202–741–6030, or go to: *http://www.archives.gov/federal-register/cfr/index.html.*

Issued in Kansas City, Missouri, on December 12, 2012.

Earl Lawrence,

Manager, Small Airplane Directorate, Aircraft Certification Service.

[FR Doc. 2012–30627 Filed 12–26–12; 8:45 am]

BILLING CODE 4910–13–P

FEDERAL COMMUNICATIONS COMMISSION

47 CFR Parts 2, 15, and 90

[ET Docket No. 12–338; FCC 12–140]

WRC–07 Implementation Order

AGENCY: Federal Communications Commission.

ACTION: Final rule.

SUMMARY: This document amends the Commission's rules to correct grammatical, typographical, and display errors in the United States Table of Frequency Allocations (U.S. Table) and also remove inconsistencies between the non-Federal Table of Frequency Allocations (non-Federal Table) and parts 15 and 90 of the Commission's rules.

DATES: Effective January 28, 2013.

FOR FURTHER INFORMATION CONTACT: Tom Mooring, Office of Engineering and Technology, 202–418–2450, *tom.mooring@fcc.gov.*

SUPPLEMENTARY INFORMATION: This is a summary of the Commission's Order, ET Docket No. 12–338, FCC 12–140, adopted November 15, 2012 and released November 19, 2012. The full text of this document is available for inspection and copying during normal 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, Best Copy and Printing, Inc., 445 12th Street SW., Room, CY–B402, Washington, DC 20554. The full text may also be downloaded at: www.fcc.gov. People with Disabilities: To request materials in accessible formats for people with disabilities (braille, large print, electronic files, audio format), send an email to *fcc504@fcc.gov* or call the Consumer & Governmental Affairs Bureau at 202–418–0530 (voice), 202–418–0432 (tty).

Summary of the Order

1. In the Order, the Commission makes several non-substantial editorial revisions to the parts 2, 15, and 90 of the Commission's rules. The most significant of these updates are: 1) correct the cross references to Allocation Table footnotes in parts 15 and 90 of the Commission's rules; 2) update the list of grandfathered sites in the 1432–1435 MHz band; and 3) remove an unused Federal site from the list of grandfathered sites in the 3650–3700 MHz band.

2. *US117.* NTIA requested that the Commission correct the coordinates for Table Mountain Observatory in US117 by revising the latitude from 40° 07′ 50'' N to 40° 08′ 02'' N. The Commission noted that the requested change would have little or no impact on non-Federal operations because paragraph (b) of US117 states that non-Federal use of the 406.1–410 MHz band is limited to the radio astronomy service and as provided by US13 (i.e., two channels that are available for the specific purpose of transmitting hydrological and meteorological data). Accordingly, the Commission revised the coordinates of the Table Mountain Observatory in US117 as requested by NTIA.

3. *General Aviation Air-Ground Stations.* Section 22.805 lists 13 channel pairs that are allocated for the provision of radiotelephone service to airborne mobile subscribers in general aviation aircraft. The Commission amended NG12 to accurately reflect the frequency bands that may be assigned to domestic public land and mobile stations to provide a two-way air-ground public radiotelephone service per Section 22.805. Accordingly, the Commission replaced the 454.4–455 MHz and 459.4–460 MHz bands in NG12 with the more specific 454.6625–454.9875 MHz and

459.6625–459.9875 MHz bands, respectively. The Commission also takes this opportunity to renumber NG12 in frequency order as NG32.

4. *Radiolocation Use of 420–450 MHz.* The *WRC–07 Table Clean-up Order* renumbered US217 as US269, but did not update a cross reference to this footnote in § 90.103(c)(21). Accordingly, the Commission amended § 90.103 (''Radiolocation service'') by revising the cross reference in the last sentence of paragraph (c)(21) from ''US217'' to ''US269.''

5. *On-board Communications.* In 2006, the Commission added § 80.373(g)(2) to its rules to make four frequencies (457.5375 MHz, 457.5625 MHz, 467.5375 MHz, and 467.5625 MHz) available for narrowband use by on-board ship communication stations within U.S. territorial waters. An international footnote, RR 5.287, provides for on-board communication stations on these frequencies outside the territorial waters of the United States. A separate footnote, RR 5.288, makes different frequencies available for on-board communication stations within the territorial waters of the United States. RR 5.288 is incomplete because it does not include the four narrowband frequencies listed in RR 5.287 that the Commission allocated in 2006 for use by on-board communication stations in the U.S. territorial waters. To correctly show the 2006 Commission action in the Allocation Table, the Commission replaced RR 5.288 with a new U.S. footnote, which we number as US288. US288 incorporates the text from RR 5.288 and adds the four frequencies contained in RR 5.287. The Commission also added a cross reference to part 80 (Stations in the Maritime Mobile Services) to the 462.7375–467.5375 MHz and 467.5375–467.7375 MHz bands in the Allocation Table.

6. *US361.* The 1432–1435 MHz band was a Government transfer band and US361 lists 23 operating areas where Federal stations in the fixed and mobile services may operate indefinitely on a primary basis. At NTIA's request, the Commission amended US361 by correcting the name of a grandfathered site and by removing a grandfathered site. Specifically, the Commission corrected the Location name for 37° 29′ North latitude, 114° 14′ West longitude from ''Nellis AFB, NV'' to ''Nevada Test and Training Range (NTTR).'' Next, because the ''AUTEC'' location is not within the United States and its insular areas (the listed coordinates are on Andros Island in The Bahamas), it removed this location from US361. Finally, the Commission reorganized and simplified the text of US361 and renumbered this U.S. footnote in frequency order as US83.

7. *NG168.* In the *Mobile Use of MSS Bands R&O,* the Commission revised the text of NG168. It further amended the text of NG168 to make the following grammatical corrections. First, the Commission introduced the MSS abbreviation, *i.e.,* ''mobile-satellite service (MSS)'' in the first sentence and removed the introduction of the MSS abbreviation from the last sentence. Second, it made the word ''component'' plural in the first sentence. The Commission also took this opportunity to renumber NG168 in frequency order as NG43.

8. *US385.* The *WRC–07 Table Clean-up Order* added ''the current text of US269, which urges fixed and mobile except aeronautical mobile licensees in the 2655–2690 MHz band to coordinate their systems, along with the secondary allocation status of the radio astronomy service in the 2655–2690 MHz band that is shown in the U.S. Table, to US311, and renumber[ed] US311 as US385.'' However, the cross reference to US311 in § 15.242(e) was not updated at that time. Accordingly, the Commission amended the first sentence in paragraph (e) of § 15.242 by revising ''US 311'' to read ''US385.''

9. *US338.* The text of US338 applies to the 2305–2310 MHz and 2310–2320 MHz bands, but the reference to US338 is shown only in the 2305–2310 MHz band. The Commission added the missing U.S. footnote, which it renumbered in frequency order as US97, to the 2310–2320 MHz band.

10. *US348.* Primary Federal operations in the 3650–3700 MHz band are limited to three grandfathered radar sites, which are codified in US348 and in § 90.1331(b)(1). NTIA has informed us that one of these sites—Naval Station Pascagoula—has been closed. Accordingly, the Commission amended US348 and § 90.1331(b)(1) to remove the unused Federal site. It also takes this opportunity to renumber US348 in frequency order as US109.

11. *10–10.5 GHz.* With the concurrence of NTIA, the Commission amended the Federal Table by revising the ''10–10.45'' GHz band and the reference to ''G2'' to read ''10–10.5'' and ''G32,'' respectively. We also revise the text of three footnotes (US58, NG42, NG134) that pertain to the 10–10.5 GHz band. First, the Commission revised US58 by adding the existing amateur-satellite service allocation to the list of permitted non-Federal services in the 10–10.5 GHz band so that this footnote correctly lists all permitted non-Federal services, and it renumbered this footnote in frequency order as US128. Second, the Commission combined the text of NG42 and NG134 (which require that non-Federal stations in the radiolocation service not cause harmful interference to the amateur service in the 10–10.5 GHz band, and that these stations not cause harmful interference to the amateur-satellite service in the 10.45–10.5 GHz sub-band, respectively) and renumbered the new footnote in frequency order as NG50.

12. *US277 and US355.* Initially, NTIA requested that the Commission correct the coordinates for the Arecibo Observatory in US355 by approximately 68 meters (from 18° 20′ 39'' N, 66° 45′ 10'' W to 18° 20′ 37'' N, 66° 45′ 11'' W). Subsequently, NTIA requested that the Commission correct the elevations of nearly all of the radio astronomy observatories specified in US355. It noted that the requested changes are *de minimis* in nature and would affect only future non-geostationary satellite orbit systems in the fixed-satellite service (space-to-Earth). Accordingly, the Commission amended US355 by correcting the coordinates of the Arecibo Observatory and the elevations of 12 of the observatories. It also renumbered US355 in frequency order as US131 and added missing references to this footnote in the 10.6–10.68 GHz (Federal and non-Federal Tables) and 10.7–11.7 GHz bands (Federal Table). The Commission revised US277 by updating the cross reference from US355 to US131. Finally, the Commission renumbered US277 as US130, which places the allocation in US130 adjacent to the list of radio astronomy observatories in US131.

13. *G27 and G117.* At NTIA's request, the Commission amended the text of two Federal Government footnotes in § 2.106 of our rules. First, it amended G27 by revising ''255'' to read ''225.'' Second, the Commission amended G117 by replacing the ''17.3–17.7 GHz'' and ''17.8–21.2 GHz'' band entries with ''17.375–17.475 GHz'' and ''17.6–21.2 GHz.'' This action updates G117 by listing the sub-bands that are specified in US402 (17.375–17.475 GHz and 17.6–17.7 GHz) and by restricting Federal fixed-satellite service use of the 17.7–17.8 GHz band (which is authorized in US401) to military systems.

14. *Allocation Display Changes.* In the U.S. Table, the Commission generally does not subdivide a frequency band unless it is necessary to do so, *e.g.,* when we are adding a radio service in only a segment of an existing frequency band. In the non-Federal Table, the only difference between the 19.7–20.1 GHz and 20.1–20.2 GHz bands is RR 5.529, and the only differences between the 29.5–29.9 GHz and 29.9–30 GHz bands

are RR 5.529 and RR 5.543. Accordingly, the Commission merged these bands to form the 19.7–20.2 GHz and 29.5–30 GHz bands.

Paperwork Reduction Act

15. This *Order* contains no new or modified information collection requirements subject to the Paperwork Reduction Act of 1995 (PRA), Public Law 104–13. In addition, therefore, it does not contain any new or modified ''information collection burden for small business concerns with fewer than 25 employees,'' pursuant to the Small Business Paperwork Relief Act of 2002, Public Law 107–198, *see* 44 U.S.C. 3506(c)(4).

Congressional Review Act

16. The Commission will send a copy of this *Order* to Congress and the Government Accountability Office pursuant to the Congressional Review Act, *see* 5 U.S.C. 801(a)(1)(A).

Ordering Clauses

17. Pursuant to sections 1, 4, 301, 302(a), and 303 of the Communications Act of 1934, as amended, 47 U.S.C. sections 151, 154, 301, 302(a), and 303, and section 553(b)(B) of the Administrative Procedure Act, 5 U.S.C. 553(b)(B), this *order* is hereby *adopted* and the Commission's rules *are amended* as set forth in the Final rules.

18. The rule amendments adopted herein *shall become effective* January 28, 2013.

19. *It is further ordered* that the Commission *shall send* a copy of this *Order* in a report to be sent to Congress and the General Accounting Office pursuant to the Congressional Review Act, *see* 5 U.S.C. 801(a)(1)(A).

List of Subjects in 47 CFR Parts 2, 15, and 90

Spectrum, International telecommunications.

Federal Communications Commission

Marlene H. Dortch,

Secretary.

Final Rules

For the reasons discussed in the preamble, the Federal Communications Commission amends 47 CFR parts 2, 15, and 90 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 2.106, the Table of Frequency Allocations, is amended to read as follows.

■ a. Pages 27–28, 32, 36–37, 40, 47, 51–52, and 54 are revised.

■ b. In the list of United States (US) Footnotes, footnotes US83, US97, US109, US128, US130, US131, and US288 are added; footnotes US58, US277, US338, US348, US355, and US361 are removed; and footnote US117 is revised.

■ c. In the list of non-Federal Government (NG) Footnotes, footnotes NG32, NG43, and NG50 are added; and footnotes NG12, NG42, NG134, and NG168 are removed.

■ d. In the list of Federal Government (G) Footnotes, footnotes G27 and G117 are revised.

§ 2.106 Table of Frequency Allocations.

The revisions and additions read as follows:

* * * * *

BILLING CODE 6712–01–P

International Table			United States Table		FCC Rule Part(s)
Region 1 Table	Region 2 Table	Region 3 Table	Federal Table	Non-Federal Table	
410-420 FIXED MOBILE except aeronautical mobile SPACE RESEARCH (space-to-space) 5.268			410-420 FIXED MOBILE SPACE RESEARCH (space-to-space) 5.268 US13 US64 G5	410-420 US13 US64	Private Land Mobile (90) MedRadio (95I)
420-430 FIXED MOBILE except aeronautical mobile Radiolocation 5.269 5.270 5.271			420-450 RADIOLOCATION G2 G129 5.286 US64 US87 US230 US269 US270 US397 G8	420-450 Amateur US270 5.282 5.286 US64 US87 US230 US269 US397	Private Land Mobile (90) MedRadio (95I) Amateur Radio (97)
430-432 AMATEUR RADIOLOCATION 5.271 5.272 5.273 5.274 5.275 5.276 5.277	430-432 RADIOLOCATION Amateur 5.271 5.276 5.277 5.278 5.279				
432-438 AMATEUR RADIOLOCATION Earth exploration-satellite (active) 5.279A 5.138 5.271 5.272 5.276 5.277 5.280 5.281 5.282	432-438 RADIOLOCATION Amateur Earth exploration-satellite (active) 5.279A 5.271 5.276 5.277 5.278 5.279 5.281 5.282				
438-440 AMATEUR RADIOLOCATION 5.271 5.273 5.274 5.275 5.276 5.277 5.283	438-440 RADIOLOCATION Amateur 5.271 5.276 5.277 5.278 5.279				
440-450 FIXED MOBILE except aeronautical mobile Radiolocation 5.269 5.270 5.271 5.284 5.285 5.286					
450-455 FIXED MOBILE 5.286AA 5.209 5.271 5.286 5.286A 5.286B 5.286C 5.286D 5.286E			450-454 5.286 US64 US87	450-454 LAND MOBILE 5.286 US64 US87 NG112 NG124	Remote Pickup (74D) Low Power Auxiliary (74H) Private Land Mobile (90) MedRadio (95I)
			454-456	454-455 FIXED LAND MOBILE US64 NG32 NG112 NG148	Public Mobile (22) Maritime (80) MedRadio (95I)
455-456 FIXED MOBILE 5.286AA 5.209 5.271 5.286A 5.286B 5.286C 5.286E	455-456 FIXED MOBILE 5.286AA MOBILE-SATELLITE (Earth-to-space) 5.286A 5.286B 5.286C 5.209	455-456 FIXED MOBILE 5.286AA 5.209 5.271 5.286A 5.286B 5.286C 5.286E	US64	455-456 LAND MOBILE US64	Remote Pickup (74D) Low Power Auxiliary (74H) MedRadio (95I)

456-459 FIXED MOBILE 5.286AA 5.271 5.287 5.288			456-459 5.287 US64 US288	456-460 FIXED LAND MOBILE 5.287 US64 US288 NG32 NG112 NG124 NG148	Public Mobile (22) Maritime (80) Private Land Mobile (90) MedRadio (95I)
459-460 FIXED MOBILE 5.286AA 5.209 5.271 5.286A 5.286B 5.286C 5.286E	459-460 FIXED MOBILE 5.286AA MOBILE-SATELLITE (Earth-to-space) 5.286A 5.286B 5.286C 5.209	459-460 FIXED MOBILE 5.286AA 5.209 5.271 5.286A 5.286B 5.286C 5.286E	459-460		
460-470 FIXED MOBILE 5.286AA Meteorological-satellite (space-to-Earth) 5.287 5.288 5.289 5.290			460-470 Meteorological-satellite (space-to-Earth) 5.287 5.289 US73 US201 US209 US288	460-462.5375 FIXED LAND MOBILE 5.289 US201 US209 NG124	Private Land Mobile (90)
				462.5375-462.7375 LAND MOBILE 5.289 US201	Personal Radio (95)
				462.7375-467.5375 FIXED LAND MOBILE 5.287 5.289 US73 US201 US209 US288 NG124	Maritime (80) Private Land Mobile (90)
				467.5375-467.7375 LAND MOBILE 5.287 5.289 US201 US288	Maritime (80) Personal Radio (95)
				467.7375-470 FIXED LAND MOBILE 5.289 US73 US201 US288 NG124	Maritime (80) Private Land Mobile (90)
470-790 BROADCASTING 5.149 5.291A 5.294 5.296 5.300 5.302 5.304 5.306 5.311A 5.312	470-512 BROADCASTING Fixed Mobile 5.292 5.293	470-585 FIXED MOBILE BROADCASTING 5.291 5.298	470-608	470-512 FIXED LAND MOBILE BROADCASTING NG5 NG14 NG66 NG115 NG149	Public Mobile (22) Broadcast Radio (TV)(73) LPTV, TV Translator/Booster (74G) Low Power Auxiliary (74H) Private Land Mobile (90)
	512-608 BROADCASTING 5.297	585-610 FIXED MOBILE BROADCASTING RADIONAVIGATION 5.149 5.305 5.306 5.307		512-608 BROADCASTING NG5 NG14 NG115 NG149	Broadcast Radio (TV)(73) LPTV, TV Translator/Booster (74G) Low Power Auxiliary (74H)
	608-614 RADIO ASTRONOMY Mobile-satellite except aeronautical Mobile-satellite (Earth-to-space)		608-614 LAND MOBILE (medical telemetry and medical telecommand) RADIO ASTRONOMY US74 US246		Personal Radio (95)
	614-698 BROADCASTING Fixed Mobile 5.293 5.309 5.311A	610-890 FIXED MOBILE 5.313A 5.317A BROADCASTING 5.149 5.305 5.306 5.307 5.311A 5.320	614-698	614-698 BROADCASTING NG5 NG14 NG115 NG149	Broadcast Radio (TV)(73) LPTV, TV Translator/Booster (74G) Low Power Auxiliary (74H)

5.149 5.338 5.338A 5.339	5.149 5.334 5.339	1390-1395 5.339 US37 US342 US385 US398	1390-1392 FIXED MOBILE except aeronautical mobile Fixed-satellite (Earth-to-space) US368 5.339 US37 US342 US385 US398 1392-1395 FIXED MOBILE except aeronautical mobile 5.339 US37 US342 US385 US398	Wireless Communications (27)
		1395-1400 LAND MOBILE (medical telemetry and medical telecommand) 5.339 US37 US342 US385 US398		Personal Radio (95)
1400-1427 EARTH EXPLORATION-SATELLITE (passive) RADIO ASTRONOMY SPACE RESEARCH (passive) 5.340 5.341		1400-1427 EARTH EXPLORATION-SATELLITE (passive) RADIO ASTRONOMY US74 SPACE RESEARCH (passive) 5.341 US246		
1427-1429 SPACE OPERATION (Earth-to-space) FIXED MOBILE except aeronautical mobile 5.338A 5.341		1427-1429.5 LAND MOBILE (medical telemetry and medical telecommand) US350 5.341 US37 US398	1427-1429.5 LAND MOBILE (telemetry and telecommand) Fixed (telemetry) 5.341 US37 US350 US398	Private Land Mobile (90) Personal Radio (95)
1429-1452 FIXED MOBILE except aeronautical mobile 5.338A 5.341 5.342	1429-1452 FIXED MOBILE 5.343 5.338A 5.341	1429.5-1432 5.341 US37 US350 US398	1429.5-1430 FIXED (telemetry and telecommand) LAND MOBILE (telemetry and telecommand) 5.341 US37 US350 US398 1430-1432 FIXED (telemetry and telecommand) LAND MOBILE (telemetry and telecommand) Fixed-satellite (space-to-Earth) US368 5.341 US37 US350 US398	
		1432-1435 5.341 US83	1432-1435 FIXED MOBILE except aeronautical mobile 5.341 US83	Wireless Communications (27)
1452-1492 FIXED MOBILE except aeronautical mobile BROADCASTING 5.345 BROADCASTING-SATELLITE 5.208B 5.345 5.341 5.342	1452-1492 FIXED MOBILE 5.343 BROADCASTING 5.345 BROADCASTING-SATELLITE 5.208B 5.345 5.341 5.344	1435-1525 MOBILE (aeronautical telemetry) 5.341 US78		Aviation (87)

1980-2010 FIXED MOBILE MOBILE-SATELLITE (Earth-to-space) 5.351A 5.388 5.389A 5.389B 5.389F			1980-2025	NG177	
				2000-2020 FIXED MOBILE MOBILE-SATELLITE (Earth-to-space)	Satellite Communications (25)
2010-2025 FIXED MOBILE 5.388A 5.388B 5.388	2010-2025 FIXED MOBILE MOBILE-SATELLITE (Earth-to-space) 5.388 5.389C 5.389E	2010-2025 FIXED MOBILE 5.388A 5.388B 5.388		2020-2025 FIXED MOBILE NG177	
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) 5.392			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 US393	2025-2110 FIXED NG118 MOBILE 5.391 5.392 US90 US222 US346 US347 US393	TV Auxiliary Broadcasting (74F) Cable TV Relay (78) Local TV Transmission (101J)
2110-2120 FIXED MOBILE 5.388A 5.388B SPACE RESEARCH (deep space) (Earth-to-space) 5.388			2110-2120 US252	2110-2120 FIXED MOBILE US252	Public Mobile (22) Wireless Communications (27) Fixed Microwave (101)
2120-2170 FIXED MOBILE 5.388A 5.388B 5.388	2120-2160 FIXED MOBILE 5.388A 5.388B Mobile-satellite (space-to-Earth) 5.388 2160-2170 FIXED MOBILE MOBILE-SATELLITE (space-to-Earth) 5.388 5.389C 5.389E	2120-2170 FIXED MOBILE 5.388A 5.388B 5.388	2120-2200	2120-2180 FIXED MOBILE NG153 NG178	
2170-2200 FIXED MOBILE MOBILE-SATELLITE (space-to-Earth) 5.351A 5.388 5.389A 5.389F				2180-2200 FIXED MOBILE MOBILE-SATELLITE (space-to-Earth) NG43	Satellite Communications (25)

International Table			United States Table		FCC Rule Part(s)
Region 1 Table	Region 2 Table	Region 3 Table	Federal Table	Non-Federal Table	
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) 5.392			2200-2290 SPACE OPERATION (space-to-Earth) (space-to-space) EARTH EXPLORATION-SATELLITE (space-to-Earth) (space-to-space) FIXED (line-of-sight only) MOBILE (line-of-sight only including aeronautical telemetry, but excluding flight testing of manned aircraft) 5.391 SPACE RESEARCH (space-to-Earth) (space-to-space) 5.392 US303	2200-2290 US303	
2290-2300 FIXED MOBILE except aeronautical mobile SPACE RESEARCH (deep space) (space-to-Earth)			2290-2300 FIXED MOBILE except aeronautical mobile SPACE RESEARCH (deep space) (space-to-Earth)	2290-2300 SPACE RESEARCH (deep space) (space-to-Earth)	
2300-2450 FIXED MOBILE 5.384A Amateur Radiolocation	2300-2450 FIXED MOBILE 5.384A RADIOLOCATION Amateur		2300-2305 G122	2300-2305 Amateur	Amateur Radio (97)
			2305-2310 US97 G122	2305-2310 FIXED MOBILE except aeronautical mobile RADIOLOCATION Amateur US97	Wireless Communications (27) Amateur Radio (97)
			2310-2320 Fixed Mobile US339 Radiolocation G2 US97 US327	2310-2320 FIXED MOBILE US339 BROADCASTING-SATELLITE RADIOLOCATION 5.396 US97 US327	Wireless Communications (27) Aviation (87)
			2320-2345 Fixed Radiolocation G2 US327	2320-2345 BROADCASTING-SATELLITE 5.396 US327	Satellite Communications (25)
			2345-2360 Fixed Mobile US339 Radiolocation G2 US327	2345-2360 FIXED MOBILE US339 BROADCASTING-SATELLITE RADIOLOCATION 5.396 US327	Wireless Communications (27) Aviation (87)
			2360-2390 MOBILE US276 RADIOLOCATION G2 G120 Fixed US101	2360-2390 MOBILE US276 US101	Aviation (87) Personal Radio (95)

3300-3400 RADIOLOCATION 5.149 5.429 5.430	3300-3400 RADIOLOCATION Amateur Fixed Mobile 5.149	3300-3400 RADIOLOCATION Amateur 5.149 5.429	3300-3500 RADIOLOCATION US108 G2 US342	3300-3500 Amateur Radiolocation US108 5.282 US342	Private Land Mobile (90) Amateur Radio (97)
3400-3600 FIXED FIXED-SATELLITE (space-to-Earth) Mobile 5.430A Radiolocation 5.431	3400-3500 FIXED FIXED-SATELLITE (space-to-Earth) Amateur Mobile 5.431A Radiolocation 5.433 5.282	3400-3500 FIXED FIXED-SATELLITE (space-to-Earth) Amateur Mobile 5.432B Radiolocation 5.433 5.282 5.432 5.432A			
	3500-3700 FIXED FIXED-SATELLITE (space-to-Earth) MOBILE except aeronautical mobile Radiolocation 5.433	3500-3600 FIXED FIXED-SATELLITE (space-to-Earth) MOBILE except aeronautical mobile 5.433A Radiolocation 5.433	3500-3650 RADIOLOCATION G59 AERONAUTICAL RADIONAVIGATION (ground-based) G110	3500-3600 Radiolocation	Private Land Mobile (90)
3600-4200 FIXED FIXED-SATELLITE (space-to-Earth) Mobile		3600-3700 FIXED FIXED-SATELLITE (space-to-Earth) MOBILE except aeronautical mobile Radiolocation 5.433 5.435	US245	3600-3650 FIXED-SATELLITE (space-to-Earth) US245 Radiolocation	Satellite Communications (25) Private Land Mobile (90)
			3650-3700 US109 US349	3650-3700 FIXED FIXED-SATELLITE (space-to-Earth) NG169 NG185 MOBILE except aeronautical mobile US109 US349	
	3700-4200 FIXED FIXED-SATELLITE (space-to-Earth) MOBILE except aeronautical mobile		3700-4200	3700-4200 FIXED FIXED-SATELLITE (space-to-Earth) NG180	Satellite Communications (25) Fixed Microwave (101)
4200-4400 AERONAUTICAL RADIONAVIGATION 5.438 5.439 5.440			4200-4400 AERONAUTICAL RADIONAVIGATION US261		Aviation (87)
4400-4500 FIXED MOBILE 5.440A			4400-4500 FIXED MOBILE	4400-4500	
4500-4800 FIXED FIXED-SATELLITE (space-to-Earth) 5.441 MOBILE 5.440A			4500-4800 FIXED MOBILE US245	4500-4800 FIXED-SATELLITE (space-to-Earth) 5.441 US245	
4800-4990 FIXED MOBILE 5.440A 5.442 Radio astronomy 5.149 5.339 5.443			4800-4940 FIXED MOBILE US203 US342	4800-4940 US203 US342	
			4940-4990 5.339 US342 US385 G122	4940-4990 FIXED MOBILE except aeronautical mobile 5.339 US342 US385	Public Safety Land Mobile (90Y)

International Table			United States Table		FCC Rule Part(s)
Region 1 Table	Region 2 Table	Region 3 Table	Federal Table	Non-Federal Table	
10-10.45 FIXED MOBILE RADIOLOCATION Amateur 5.479	10-10.45 RADIOLOCATION Amateur 5.479 5.480	10-10.45 FIXED MOBILE RADIOLOCATION Amateur 5.479	10-10.5 RADIOLOCATION US108 G32 5.479 US128	10-10.45 Amateur Radiolocation US108 5.479 US128 NG50	Private Land Mobile (90) Amateur Radio (97)
10.45-10.5 RADIOLOCATION Amateur Amateur-satellite 5.481				10.45-10.5 Amateur Amateur-satellite Radiolocation US108 US128 NG50	
10.5-10.55 FIXED MOBILE Radiolocation	10.5-10.55 FIXED MOBILE RADIOLOCATION		10.5-10.55 RADIOLOCATION US59		Private Land Mobile (90)
10.55-10.6 FIXED MOBILE except aeronautical mobile Radiolocation			10.55-10.6	10.55-10.6 FIXED	Fixed Microwave (101)
10.6-10.68 EARTH EXPLORATION-SATELLITE (passive) FIXED MOBILE except aeronautical mobile RADIO ASTRONOMY SPACE RESEARCH (passive) Radiolocation 5.149 5.482 5.482A			10.6-10.68 EARTH EXPLORATION-SATELLITE (passive) SPACE RESEARCH (passive) US130 US131 US265	10.6-10.68 EARTH EXPLORATION-SATELLITE (passive) FIXED US265 SPACE RESEARCH (passive) US130 US131	
10.68-10.7 EARTH EXPLORATION-SATELLITE (passive) RADIO ASTRONOMY SPACE RESEARCH (passive) 5.340 5.483			10.68-10.7 EARTH EXPLORATION-SATELLITE (passive) RADIO ASTRONOMY US74 SPACE RESEARCH (passive) US131 US246		
10.7-11.7 FIXED FIXED-SATELLITE (space-to-Earth) 5.441 5.484A (Earth-to-space) 5.484 MOBILE except aeronautical mobile	10.7-11.7 FIXED FIXED-SATELLITE (space-to-Earth) 5.441 5.484A MOBILE except aeronautical mobile		10.7-11.7 US131 US211	10.7-11.7 FIXED FIXED-SATELLITE (space-to-Earth) 5.441 US131 US211 NG104 NG182 NG186	Satellite Communications (25) Fixed Microwave (101)
11.7-12.5 FIXED MOBILE except aeronautical mobile BROADCASTING BROADCASTING-SATELLITE 5.492	11.7-12.1 FIXED 5.486 FIXED-SATELLITE (space-to-Earth) 5.484A 5.488 Mobile except aeronautical mobile 5.485 12.1-12.2 FIXED-SATELLITE (space-to-Earth) 5.484A 5.488 5.485 5.489	11.7-12.2 FIXED MOBILE except aeronautical mobile BROADCASTING BROADCASTING-SATELLITE 5.492 5.487 5.487A	11.7-12.2	11.7-12.2 FIXED-SATELLITE (space-to-Earth) 5.485 5.488 NG143 NG183 NG187 NG184	Satellite Communications (25)

Table of Frequency Allocations — 17.7-23.6 GHz (SHF) — Page 51

International Table			United States Table		FCC Rule Part(s)
Region 1 Table	Region 2 Table	Region 3 Table	Federal Table	Non-Federal Table	
17.7-18.1 FIXED FIXED-SATELLITE (space-to-Earth) 5.484A (Earth-to-space) 5.516 MOBILE	17.7-17.8 FIXED FIXED-SATELLITE (space-to-Earth) 5.517 (Earth-to-space) 5.516 BROADCASTING-SATELLITE Mobile 5.515	17.7-18.1 FIXED FIXED-SATELLITE (space-to-Earth) 5.484A (Earth-to-space) 5.516 MOBILE	17.7-17.8 US401 G117	17.7-17.8 FIXED NG144 FIXED-SATELLITE (Earth-to-space) US271 US401	Satellite Communications (25) TV Broadcast Auxiliary (74F) Cable TV Relay (78) Fixed Microwave (101)
	17.8-18.1 FIXED FIXED-SATELLITE (space-to-Earth) 5.484A (Earth-to-space) 5.516 MOBILE 5.519		17.8-18.3 FIXED-SATELLITE (space-to-Earth) US334 G117 US519	17.8-18.3 FIXED NG144 US334 US519	TV Broadcast Auxiliary (74F) Cable TV Relay (78) Fixed Microwave (101)
18.1-18.4 FIXED FIXED-SATELLITE (space-to-Earth) 5.484A 5.516B (Earth-to-space) 5.520 MOBILE 5.519 5.521			18.3-18.6 FIXED-SATELLITE (space-to-Earth) US334 G117	18.3-18.6 FIXED-SATELLITE (space-to-Earth) NG164 US334 NG144	Satellite Communications (25)
18.4-18.6 FIXED FIXED-SATELLITE (space-to-Earth) 5.484A 5.516B MOBILE					
18.6-18.8 EARTH EXPLORATION-SATELLITE (passive) FIXED FIXED-SATELLITE (space-to-Earth) 5.522B MOBILE except aeronautical mobile Space research (passive) 5.522A 5.522C	18.6-18.8 EARTH EXPLORATION-SATELLITE (passive) FIXED FIXED-SATELLITE (space-to-Earth) 5.516B 5.522B MOBILE except aeronautical mobile SPACE RESEARCH (passive) 5.522A	18.6-18.8 EARTH EXPLORATION-SATELLITE (passive) FIXED FIXED-SATELLITE (space-to-Earth) 5.522B MOBILE except aeronautical mobile Space research (passive) 5.522A	18.6-18.8 EARTH EXPLORATION-SATELLITE (passive) FIXED-SATELLITE (space-to-Earth) US255 US334 G117 SPACE RESEARCH (passive) US254	18.6-18.8 EARTH EXPLORATION-SATELLITE (passive) FIXED-SATELLITE (space-to-Earth) US255 NG164 SPACE RESEARCH (passive) US254 US334 NG144	
18.8-19.3 FIXED FIXED-SATELLITE (space-to-Earth) 5.516B 5.523A MOBILE			18.8-20.2 FIXED-SATELLITE (space-to-Earth) US334 G117	18.8-19.3 FIXED-SATELLITE (space-to-Earth) NG165 US334 NG144	
19.3-19.7 FIXED FIXED-SATELLITE (space-to-Earth) (Earth-to-space) 5.523B 5.523C 5.523D 5.523E MOBILE				19.3-19.7 FIXED NG144 FIXED-SATELLITE (space-to-Earth) NG166 US334	Satellite Communications (25) TV Broadc't Auxiliary (74F) Cable TV Relay (78) Fixed Microwave (101)
19.7-20.1 FIXED-SATELLITE (space-to-Earth) 5.484A 5.516B Mobile-satellite (space-to-Earth) 5.524	19.7-20.1 FIXED-SATELLITE (space-to-Earth) 5.484A 5.516B MOBILE-SATELLITE (space-to-Earth) 5.524 5.525 5.526 5.527 5.528 5.529	19.7-20.1 FIXED-SATELLITE (space-to-Earth) 5.484A 5.516B Mobile-satellite (space-to-Earth) 5.524		19.7-20.2 FIXED-SATELLITE (space-to-Earth) MOBILE-SATELLITE (space-to-Earth)	Satellite Communications (25)

20.1-20.2 FIXED-SATELLITE (space-to-Earth) 5.484A 5.516B MOBILE-SATELLITE (space-to-Earth) 5.524 5.525 5.526 5.527 5.528				5.525 5.526 5.527 5.528 5.529 US334	
20.2-21.2 FIXED-SATELLITE (space-to-Earth) MOBILE-SATELLITE (space-to-Earth) Standard frequency and time signal-satellite (space-to-Earth) 5.524			20.2-21.2 FIXED-SATELLITE (space-to-Earth) MOBILE-SATELLITE (space-to-Earth) Standard frequency and time signal-satellite (space-to-Earth) G117	20.2-21.2 Standard frequency and time signal-satellite (space-to-Earth)	
21.2-21.4 EARTH EXPLORATION-SATELLITE (passive) FIXED MOBILE SPACE RESEARCH (passive)			21.2-21.4 EARTH EXPLORATION-SATELLITE (passive) FIXED MOBILE SPACE RESEARCH (passive) US263		Fixed Microwave (101)
21.4-22 FIXED MOBILE BROADCASTING-SATELLITE 5.208B 5.530	21.4-22 FIXED MOBILE	21.4-22 FIXED MOBILE BROADCASTING-SATELLITE 5.208B 5.530 5.531	21.4-22 FIXED MOBILE		
22-22.21 FIXED MOBILE except aeronautical mobile 5.149			22-22.21 FIXED MOBILE except aeronautical mobile US342		
22.21-22.5 EARTH EXPLORATION-SATELLITE (passive) FIXED MOBILE except aeronautical mobile RADIO ASTRONOMY SPACE RESEARCH (passive) 5.149 5.532			22.21-22.5 EARTH EXPLORATION-SATELLITE (passive) FIXED MOBILE except aeronautical mobile RADIO ASTRONOMY SPACE RESEARCH (passive) US263 US342		
22.5-22.55 FIXED MOBILE			22.5-22.55 FIXED MOBILE US211		
22.55-23.55 FIXED INTER-SATELLITE 5.338A MOBILE 5.149			22.55-23.55 FIXED INTER-SATELLITE US278 MOBILE US342		Satellite Communications (25) Fixed Microwave (101)
23.55-23.6 FIXED MOBILE			23.55-23.6 FIXED MOBILE		Fixed Microwave (101)

25.5-27 EARTH EXPLORATION-SATELLITE (space-to-Earth) 5.536B FIXED INTER-SATELLITE 5.536 MOBILE SPACE RESEARCH (space-to-Earth) 5.536C Standard frequency and time signal-satellite (Earth-to-space) 5.536A			25.5-27 EARTH EXPLORATION-SATELLITE (space-to-Earth) FIXED INTER-SATELLITE 5.536 MOBILE SPACE RESEARCH (space-to-Earth) Standard frequency and time signal-satellite (Earth-to-space) 5.536A US258	25.5-27 Inter-satellite 5.536 Standard frequency and time signal-satellite (Earth-to-space) 5.536A US258	
27-27.5 FIXED INTER-SATELLITE 5.536 MOBILE	27-27.5 FIXED FIXED-SATELLITE (Earth-to-space) INTER-SATELLITE 5.536 5.537 MOBILE		27-27.5 FIXED INTER-SATELLITE 5.536 MOBILE	27-27.5 Inter-satellite 5.536	
27.5-28.5 FIXED 5.537A FIXED-SATELLITE (Earth-to-space) 5.484A 5.516B 5.539 MOBILE 5.538 5.540			27.5-30	27.5-29.5 FIXED FIXED-SATELLITE (Earth-to-space) MOBILE	Satellite Communications (25) Fixed Microwave (101)
28.5-29.1 FIXED FIXED-SATELLITE (Earth-to-space) 5.484A 5.516B 5.523A 5.539 MOBILE Earth exploration-satellite (Earth-to-space) 5.541 5.540					
29.1-29.5 FIXED FIXED-SATELLITE (Earth-to-space) 5.516B 5.523C 5.523E 5.535A 5.539 5.541A MOBILE Earth exploration-satellite (Earth-to-space) 5.541 5.540					
29.5-29.9 FIXED-SATELLITE (Earth-to-space) 5.484A 5.516B 5.539 Earth exploration-satellite (Earth-to-space) 5.541 Mobile-satellite (Earth-to-space) 5.540 5.542	29.5-29.9 FIXED-SATELLITE (Earth-to-space) 5.484A 5.516B 5.539 MOBILE-SATELLITE (Earth-to-space) Earth exploration-satellite (Earth-to-space) 5.541 5.525 5.526 5.527 5.529 5.540 5.542	29.5-29.9 FIXED-SATELLITE (Earth-to-space) 5.484A 5.516B 5.539 Earth exploration-satellite (Earth-to-space) 5.541 Mobile-satellite (Earth-to-space) 5.540 5.542		29.5-30 FIXED-SATELLITE (Earth-to-space) MOBILE-SATELLITE (Earth-to-space) 5.525 5.526 5.527 5.529 5.543	Satellite Communications (25)
29.9-30 FIXED-SATELLITE (Earth-to-space) 5.484A 5.516B 5.539 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					

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United States (US) footnotes

* * * * *

US83 In the 1432–1435 MHz band, Federal stations in the fixed and mobile services may operate indefinitely on a primary basis at the 22 sites listed in the table below. The first 21 sites are in the United States and the last site is in Guam (GU). All other Federal stations in the fixed and mobile services shall operate in the band 1432–1435 MHz on a primary basis until re-accommodated in accordance with the National Defense Authorization Act of 1999.

State	Site	North	West	Radius
AK	Fort Greely	63°47′	145°52′	80
AL	Redstone Arsenal	34°35′	086°35′	80
AZ	Fort Huachuca	31°33′	110°18′	80
AZ	Yuma Proving Ground	32°29′	114°20′	160
CA	China Lake/Edwards AFB	35°29′	117°16′	100
CA	Lemoore	36°20′	119°57′	120
FL	Eglin AFB/Ft Rucker, AL	30°28′	086°31′	140
FL	NAS Cecil Field	30°13′	081°52′	160
MD	Patuxent River	38°17′	076°24′	70
ME	Naval Space Operations Center	44°24′	068°01′	80
MI	Alpene Range	44°23′	083°20′	80
MS	Camp Shelby	31°20′	089°18′	80
NC	MCAS Cherry Point	34°54′	076°53′	100
NM	White Sands Missile Range/Holloman AFB	32°11′	106°20′	160
NV	NAS Fallon	39°30′	118°46′	100
NV	Nevada Test and Training Range (NTTR)	37°29′	114°14′	130
SC	Beaufort MCAS	32°26′	080°40′	160
SC	Savannah River	33°15′	081°39′	3
UT	Utah Test and Training Range/Dugway Proving Ground, Hill AFB	40°57′	113°05′	160
VA	NAS Oceana	36°49′	076°01′	100
WA	NAS Whidbey Island	48°21′	122°39′	70
GU	NCTAMS	13°35′	144°51′	80

Note: The coordinates (North latitude and West longitude) are listed under the headings North and West. The Guam entry under the West heading is actually 144°51′ East longitude. The operating radii in kilometers are listed under the heading Radius.

* * * * *

US97 The following provisions shall apply in the band 2305–2320 MHz:

(a) In the sub-band 2305–2310 MHz, space-to-Earth operations are prohibited.

(b) Within 145 km of Goldstone, CA (35°25′33″ N, 116°53′23″ W), Wireless Communications Service (WCS) licensees operating base stations in the band 2305–2320 MHz shall, prior to operation of those base stations, achieve a mutually satisfactory coordination agreement with the National Aeronautics and Space Administration (NASA).

Note: NASA operates a deep space facility in Goldstone in the band 2290–2300 MHz.

* * * * *

US109 The band 3650–3700 MHz is also allocated to the Federal radiolocation service on a primary basis at the following sites: St. Inigoes, MD (38°10′ N,76°23′ W) and Pensacola, FL (30°21′28″ N, 87°16′26″ W). The FCC shall coordinate all non-Federal operations within 80 km of these sites with NTIA on a case-by-case basis.

* * * * *

US117 In the band 406.1–410 MHz, the following provisions shall apply:

(a) Stations in the fixed and mobile services are limited to a transmitter output power of 125 watts, and new authorizations for stations, other than mobile stations, are subject to prior coordination by the applicant in the following areas:

(1) Within Puerto Rico and the U.S. Virgin Islands, contact Spectrum Manager, Arecibo Observatory, HC3 Box 53995, Arecibo, PR 00612. Phone: 787–878–2612, Fax: 787–878–1861, Email: *prcz@naic.edu.*

(2) Within 350 km of the Very Large Array (34°04′44″ N, 107°37′06″ W), contact Spectrum Manager, National Radio Astronomy Observatory, P.O. Box O, 1003 Lopezville Road, Socorro, NM 87801. Phone: 505–835–7000, Fax: 505–835–7027, Email: *nrao-rfi@nrao.edu.*

(3) Within 10 km of the Table Mountain Observatory (40°08′02″ N, 105°14′40″ W) and for operations only within the sub-band 407–409 MHz, contact Radio Frequency Manager, Department of Commerce, 325 Broadway, Boulder, CO 80305. Phone: 303–497–4619, Fax: 303–497–6982, Email: *frequencymanager@its.bldrdoc.gov.*

(b) Non-Federal use is limited to the radio astronomy service and as provided by footnote US13.

* * * * *

US128 In the band 10–10.5 GHz, pulsed emissions are prohibited, except for weather radars on board meteorological satellites in the sub-band 10–10.025 GHz. The amateur service, the amateur-satellite service, and the non-Federal radiolocation service, which shall not cause harmful interference to the Federal radiolocation service, are the only non-Federal services permitted in this band. The non-Federal radiolocation service is limited to survey operations as specified in footnote US108.

US130 The band 10.6–10.68 GHz is also allocated on a primary basis to the radio astronomy service. However, the radio astronomy service shall not receive protection from stations in the fixed service which are licensed to operate in the one hundred most populous urbanized areas as defined by the 1990 U.S. Census. For the list of observatories operating in this band, see footnote US131.

US131 In the band 10.7–11.7 GHz, non-geostationary satellite orbit licensees in the fixed-satellite service (space-to-Earth), prior to commencing operations, shall coordinate with the following radio astronomy observatories to achieve a mutually acceptable agreement regarding the protection of the radio telescope facilities operating in the band 10.6–10.7 GHz:

Observatory	North latitude	West longitude	Elevation (in meters)
Arecibo Observatory, PR	18°20′37″	66°45′11″	497
Green Bank Telescope (GBT), WV	38°25′59″	79°50′23″	807
Very Large Array (VLA), Socorro, NM	34°04′44″	107°37′06″	2,115
Very Long Baseline Array (VLBA) Stations:			
Brewster, WA	48°07′52″	119°41′00″	250
Fort Davis, TX	30°38′06″	103°56′41″	1,606
Hancock, NH	42°56′01″	71°59′12″	296
Kitt Peak, AZ	31°57′23″	111°36′45″	1,902
Los Alamos, NM	35°46′30″	106°14′44″	1,962
Mauna Kea, HI	19°48′05″	155°27′20″	3,763
North Liberty, IA	41°46′17″	91°34′27″	222
Owens Valley, CA	37°13′54″	118°16′37″	1,196
Pie Town, NM	34°18′04″	108°07′09″	2,365
St. Croix, VI	17°45′24″	64°35′01″	16

* * * * *

US288 In the territorial waters of the United States, the preferred frequencies for use by on-board communication stations shall be 457.525 MHz, 457.550 MHz, 457.575 MHz and 457.600 MHz paired, respectively, with 467.750 MHz, 467.775 MHz, 467.800 MHz and 467.825 MHz. Where needed, equipment designed for 12.5 kHz channel spacing using also the additional frequencies 457.5375 MHz, 457.5625 MHz, 467.5375 MHz and 467.5625 MHz may be introduced for on-board communications. The characteristics of the equipment used shall conform to those specified in Recommendation ITU–R M.1174–2.

* * * * *

Non-Federal Government (NG) Footnotes

* * * * *

NG32 Frequencies in the bands 454.6625–454.9875 MHz and 459.6625–459.9875 MHz may be assigned to domestic public land and mobile stations to provide a two-way air-ground public radiotelephone service.

* * * * *

NG43 Except as permitted below, the use of the band 2180–2200 MHz is limited to the mobile-satellite service (MSS) and ancillary terrestrial components offered in conjunction with an MSS network, subject to the Commission's rules for ancillary terrestrial components and subject to all applicable conditions and provisions of an MSS authorization. In the band 2180–2200 MHz, where the receipt date of the initial application for facilities in the fixed and mobile services was prior to January 16, 1992, said facilities shall operate on a primary basis and all later-applied-for facilities shall operate on a secondary basis to the MSS; and not later than December 9, 2013, all such facilities shall operate on a secondary basis.

* * * * *

NG50 In the band 10–10.5 GHz, non-Federal stations in the radiolocation service shall not cause harmful interference to the amateur service; and in the sub-band 10.45–10.5 GHz, these stations shall not cause harmful interference to the amateur-satellite service.

* * * * *

Federal Government (G) Footnotes

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G27 In the bands 225–328.6 MHz, 335.4–399.9 MHz, and 1350–1390 MHz, the fixed and mobile services are limited to the military systems.

* * * * *

G117 In the bands 7.25–7.75 GHz, 7.9–8.4 GHz, 17.375–17.475 GHz, 17.6–21.2 GHz, 30–31 GHz, 33–36 GHz, 39.5–41 GHz, 43.5–45.5 GHz, and 50.4–51.4 GHz, the Federal fixed-satellite and mobile-satellite services are limited to military systems.

* * * * *

PART 15—RADIO FREQUENCY DEVICES

■ 3. The authority citation for Part 15 continues to read as follows:

Authority: 47 U.S.C. 154, 302a, 303, 304, 307, 336, 544a, and 549.

■ 4. Section 15.242 is amended by revising paragraph (e) to read as follows:

§ 15.242 Operation in the bands 174–216 MHz and 470–668 MHz.

* * * * *

(e) The user and the installer of a biomedical telemetry device operating within the frequency range 608–614 MHz and that will be located within 32 km of the very long baseline array (VLBA) stations or within 80 km of any of the other radio astronomy observatories noted in footnote US385 of Section 2.106 of this chapter must coordinate with, and obtain the written concurrence of, the director of the affected radio astronomy observatory before the equipment can be installed or operated. The National Science Foundation point of contact for coordination is: Spectrum Manager, Division of Astronomical Sciences, NSF Room 1045, 4201 Wilson Blvd., Arlington, VA 22230; tel: (703) 306–1823.

* * * * *

PART 90—PRIVATE LAND MOBILE RADIO SERVICES

■ 5. The authority citation for Part 90 continues to read as follows:

Authority: Sections 4(i), 11, 303(g), 303(r), and 332(c)(7) of the Communications Act of 1934, as amended, 154(i), 161, 303(g), 303(r), and 332(c)(7), and Title VI of the Middle Class Tax Relief and Job Creation Act of 2012, Pub. L. 112–96, 126 Stat. 156.

■ 6. Section 90.103 is amended by revising the last sentence in paragraph (c)(21) to read as follows:

§ 90.103 Radiolocation Service.

* * * * *

(c) * * *

(21) * * * Authorizations will be granted on a case-by-case basis; however, operations proposed to be located within the zones set forth in footnote US269, § 2.106 of this chapter should not expect to be accommodated.

* * * * *

■ 7. Section 90.1331 is amended by revising paragraph (b)(1) to read as follows:

§ 90.1331 Restrictions on the operation of base and fixed stations.

* * * * *

(b)(1) Except as specified in paragraph (b)(2) of this section, base and fixed stations may not be located within 80 km of the following Federal Government radiolocation facilities:

St. Inigoes, MD—38°10′ N., 76°, 23′ W.

Pensacola, FL—30°21′28″ N., 87°, 16′ 26″ W.

Note to paragraph (b)(1): Licensees installing equipment in the 3650–3700 MHz band should determine if there are any nearby Federal Government radar systems that could affect their operations. Information regarding the location and operational characteristics of the radar systems operating adjacent to this band are provided in NTIA TR–99–361.

* * * * *

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