

Amateur (Ham) Radio Frequency Table

This information is presented for people that are NOT hams, or amateur radio operators, that want to know something about the frequencies that hams are legally allowed to use. Hams are required to know this in order to get an amateur license, or ticket as a license is called, to operate a transmitter. You may also gain other information by looking at our [Frequency Wavelength Calculator](#), our [Citizens Band Radio \(CB\) Frequency Table](#), our [Family Radio \(FRS\) Frequency Table](#), our [General Device Frequency Information](#), our [Marine VHF Band Radio Frequency Table](#), our [49 Mhz Cordless Phone Frequency Table](#), our [900 Mhz Cordless Phone Frequency Information](#), our [Analog Cellular Phone Frequency Table](#), our [Cellular, PCS, GSM, and Japanese Digital Cellular Frequencies Table](#), and our [US And International Tables Of Frequency Allocations](#).

US Amateur Radio Bands Allocations

160 METERS

General Advanced Extra	CW, RTTY, Data, SSB(Phone), Image	1.800- 2.000 Mhz
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Amateur station operating at 1.900-2.000 Mhz must not cause harmful interference to the radio location service and are afforded no protection from radiolocation operations.

Considerate Operator's Frequency Guide

1.800-1.830 CW, data and other narrow band modes.

1.810 QRP CW calling frequency.

1.830-1.840 CW, data and other narrow band modes,
intercontinental QSOs only.

1.840-1.850 CW; SSB, SSTV and other wideband modes,
intercontinental QSOs only

1.850-2.000 CW; phone, SSTV and other wideband modes

1.910 QRP SSB calling frequency.

80 METERS

Novice Tech w/5wpm	CW Only	3.675 - 3.725 Mhz
General	CW, RTTY, Data SSB(Phone), CW, Image	3.525 - 3.750 Mhz 3.850 - 4.000 Mhz
Advanced	CW, RTTY, Data SSB(Phone), CW, Image	3.525 - 3.750 Mhz 3.775 - 4.000 Mhz
Extra	CW, RTTY, Data SSB(Phone), CW, Image	3.500 - 3.750 Mhz 3.750 - 4.000 Mhz

5.167.5 Mhz (SSB Only): Alaska emergency use only.

Considerate Operator's Frequency Guide

3.560 QRP CW calling frequency.

3.590 RTTY DX.

3.580-3.620 Data.

3.620-3.635 Automatically controlled data stations.

3.710 QRP Novice/Technician CW calling frequency.

3.790-3.800 DX window.

3.845 SSTV.

3.885 AM calling frequency.

3.985 QRP SSB calling frequency.

40 METERS

Novice Tech w/5wpm	CW Only	7.100 - 7.150 Mhz
General*	CW, RTTY, Data SSB(Phone), CW, Image	7.025 - 7.150 Mhz 7.225 - 7.300 Mhz

Advanced*	CW, RTTY, Data SSB(Phone), CW, Image	7.025 - 7.150 Mhz 7.150 - 7.300 Mhz
Extra*	CW, RTTY, Data SSB(Phone), CW, Image	7.000 - 7.150 Mhz 7.150 - 7.300 Mhz

* Phone operation is allowed on 7.025 - 7.100 Mhz in Puerto Rico, US Virgin Islands and areas of the Caribbean south of 20° north latitude; and in Hawaii and areas near ITU Region 3, including Alaska.

Considerate Operator's Frequency Guide

7.040 RTTY DX; QRP CW calling frequency.

7.080-7.100 Data.

7.100-7.105 Automatically controlled data stations.

7.110 QRP Novice/Technician CW calling frequency.

7.171 SSTV.

7.285 QRP SSB calling frequency.

7.290 AM calling frequency.

30 METERS

General	CW, RTTY, Data	10.100 - 10.150 Mhz
Advanced	CW, RTTY, Data	10.100 - 10.150 Mhz
Extra	CW, RTTY, Data	10.100 - 10.150 Mhz

Maximum power on 30 meters is 200 watts PEP output. Amateurs must avoid interference to the fixed service outside the US.

Considerate Operator's Frequency Guide

10.106 QRP CW calling frequency.

10.130-10.140 Data.

10.140-10.150 Automatically controlled data stations.

20 METERS

General	CW, RTTY, Data SSB(Phone), CW, Image	14.025 - 14.150 Mhz 14.225 - 14.350 Mhz
Advanced	CW, RTTY, Data SSB(Phone), CW, Image	14.025 - 14.150 Mhz 14.175 - 14.350 Mhz
Extra	CW, RTTY, Data SSB(Phone), CW, Image	14.000 - 14.150 Mhz 14.150 - 14.350 Mhz

Considerate Operator's Frequency Guide

14.060 QRP CW calling frequency.
14.070-14.095 Data.
14.095-14.0995 Automatically controlled data stations.
14.100 NCDXF/IARU beacons.
14.100-14.112 Automatically controlled data stations.
14.230 SSTV.
14.285 QRP SSB calling frequency.
14.286 AM calling frequency.

17 METERS

General Advanced Extra	CW, RTTY, Data SSB(Phone), CW, Image	18.068 - 18.110 Mhz 18.110 - 18.168 Mhz
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Considerate Operator's Frequency Guide

18.100-18.105 Data.
18.105-18.110 Automatically controlled data stations.

15 METERS

Novice Tech w/5wpm	CW Only	21.100 - 21.200 Mhz
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General	CW, RTTY, Data SSB(Phone), CW, Image	21.025 - 21.200 Mhz 21.300 - 21.450 Mhz
Advanced	CW, RTTY, Data SSB(Phone), CW, Image	21.025 - 21.200 Mhz 21.225 - 21.450 Mhz
Extra	CW, RTTY, Data SSB(Phone), CW, Image	21.000 - 21.200 Mhz 21.200 - 21.450 Mhz

Considerate Operator's Frequency Guide

21.060 QRP CW calling frequency.
21.070-21.100 Data.
21.090-21.100 Automatically controlled data stations.
21.340 SSTV.
21.385 QRP SSB calling frequency.

12 METERS

General Advanced Extra	CW, RTTY, Data SSB(Phone), CW, Image	24.890 - 24.930 Mhz 24.930 - 24.990 Mhz
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Considerate Operator's Frequency Guide

24.920-24.925 Data.
24.925-24.930 Automatically controlled data stations.

10 METERS

Novice Tech w/5wpm	CW, RTTY, Data SSB(Phone), CW	28.100 - 28.300 Mhz 28.300 - 28.500 Mhz
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General Advanced Extra	CW, RTTY, Data SSB(Phone), CW, Image	28.000 - 28.300 Mhz 28.300 - 29.700 Mhz
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Novices and Technicians are limited to 200 watts PEP output on 10 meters.

Considerate Operator's Frequency Guide

28.060 QRP CW calling frequency.

28.070-28.120 Data.

28.120-28.189 Automatically controlled data stations.

28.190-28.225 Beacons.

28.385 QRP SSB calling frequency.

28.680 SSTV.

29.000-29.200 AM.

29.300-29.510 Satellite downlinks.

29.520-29.580 Repeater inputs.

29.600 FM simplex.

29.620-29.680 Repeater outputs.

6 METERS

Novice Tech w/5wpm Tech No Code General Advanced Extra	CW, RTTY, Data, MCW, Test, SSB(Phone), Image CW Only	50.1 - 55.0 Mhz 50.0 - 50.1 Mhz
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2 METERS

Novice Tech w/5wpm Tech No Code General Advanced Extra	CW, RTTY, Data, MCW, Test, SSB(Phone), Image CW Only	144.1 - 148.0 Mhz 144.0 - 144.1 Mhz
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1.25 METERS

Novice Tech w/5wpm Tech No Code General Advanced Extra	CW, RTTY, Data, MCW, Test, SSB(Phone), Image	222.0 - 225.0 Mhz
Novices are limited to 25 watts PEP output from 222 to 225 Mhz.		
70 CENTIMETERS		
Novice Tech w/5wpm Tech No Code General Advanced Extra	CW, RTTY, Data, MCW, Test, SSB(Phone), Image	420.0 - 450.0 Mhz

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Citizens Band Radio Frequency Table

This table is the frequency chart for the legal Citizens Band Radio Service. There are 40 channels, designated 1 through 40. The service is AM but also allows for SSB operation on radios that are capable. CB, as it is called, is a two-way voice communication service for use in your personal and business activities. Expect a communication range of one to five miles. License documents are neither needed or issued. CB Rule 3 provides your authority to operate a CB unit in places where the FCC regulates radiocommunications, as long as you use only an unmodified FCC certificated CB unit (CB Rule 9). An FCC certificated unit has an identifying label placed on it by the manufacturer. Per the FCC, there is no age or citizenship requirement. You may operate your CB unit within the territorial limits of the fifty United States, the District of Columbia, and the Caribbean and Pacific Insular areas ("U.S."). You may also operate your CB on or over any other area of the world, except within the territorial limits of areas where radio-communications are regulated by another agency of the U.S. or within the territorial limits of any foreign government. You may also be permitted to use your CB unit in Canada subject to the rules of Industry Canada; other countries may also allow CB frequency use but it is your responsibility to verify that prior to use.

There are no height restrictions for antennas mounted on vehicles or for hand-held units (CB Rule 8). For structures, the highest point of your antenna must not be more than 20 feet above the highest point of the building or tree on which it is mounted, or 60 feet above the ground. There are lower height limits if your antenna structure is located within two miles of an airport. You may use any of the 40 CB channels on a "take-turns" basis. These channels must be shared by all CB users. There are no channels authorized in the CB Radio Service above 27.405 MHz or below 26.965 MHz. No CB channel is assigned to any specific individual or organization (CB Rule 7). Be cooperative. Keep your communications short. Never talk with another station for more than 5 minutes continuously. Then wait at least one minute before starting another communication (CB Rule 16). Use Channel 9 only for emergency communications or for traveler assistance. For complete information, see the [Commission's Rules for the Citizens Band \(CB\) Radio Service](#), 47 C.F.R. 95.401-95.428.

CHANNEL	FREQUENCY	CHANNEL	FREQUENCY
1	26.965 MHz	21	27.215 MHz
2	26.975 MHz	22	27.225 MHz
3	26.985 MHz	23	27.255 MHz
4	27.005 MHz	24	27.235 MHz
5	27.015 MHz	25	27.245 MHz
6	27.025 MHz	26	27.265 MHz
7	27.035 MHz	27	27.275 MHz
8	27.055 MHz	28	27.285 MHz
9	27.065 MHz	29	27.295 MHz
10	27.075 MHz	30	27.305 MHz
11	27.085 MHz	31	27.315 MHz
12	27.105 MHz	32	27.325 MHz
13	27.115 MHz	33	27.335 MHz
14	27.125 MHz	34	27.345 MHz
15	27.135 MHz	35	27.355 MHz
16	27.155 MHz	36	27.365 MHz
17	27.165 MHz	37	27.375 MHz
18	27.175 MHz	38	27.385 MHz
19	27.185 MHz	39	27.395 MHz
20	27.205 MHz	40	27.405 MHz

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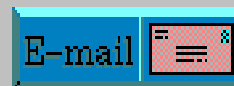
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Family Radio Service Frequency Table

This table is the frequency chart for the legal Family Radio Service. There are 14 channels, designated 1 through 14, representing 14 different [frequencies](#). FRS, as it is called, is a two-way voice communication service for use in your personal activities. Expect a communication range of one to five miles, generally [LOS](#). License documents are neither needed or issued. FRS is provided and governed by the FCC. The current regulations provide your authority to operate a FRS unit in places where the FCC regulates radiocommunications, as long as you use only an unmodified FCC certificated FRS unit. An FCC certificated unit has an identifying label placed on it by the manufacturer. Per the FCC, there is no age or citizenship requirement. You may operate your FRS unit within the territorial limits of the fifty United States, the District of Columbia, and the Caribbean and Pacific Insular areas ("U.S."). You may also operate your FRS on or over any other area of the world, except within the territorial limits of areas where radio communications are regulated by another agency of the U.S. or within the territorial limits of any foreign government. You may also be permitted to use your FRS unit in Canada subject to the rules of Industry Canada; other countries may also allow FRS frequency use but it is your responsibility to verify that prior to use.

For complete information, see the [Commission's Rules for the Family Radio Service](#), 47 C.F.R. 95.401-95.428.

FRS Designated Frequencies

CH - FREQ.

01 = 462.5625

02 = 462.5875

03 = 462.6125

04 = 462.6375

05 = 462.6625

06 = 462.6875

07 = 462.7125
08 = 467.5625
09 = 467.5875
10 = 467.6125
11 = 467.6375
12 = 467.6625
13 = 467.6875
14 = 467.7125

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General Device Frequency Information

This information section is frequency information for many different bands and devices. It is data extracted from the FCC's public domain information. The information is provided as an effort to assist in usage of these devices, and to assist in identification in possible RFI (radio frequency interference) problems. You may also find useful information on one of our telephone frequency pages, [49 Mhz Cordless Phone Frequency Table](#) and [900 Mhz Cordless Phone Frequency Information](#).

TELEPHONE-RELATED FREQUENCIES

TELEPHONE FREQUENCY BANDS - BY FREQUENCY

35.22 - 35.66 RADIO PAGING
43.22 - 43.64 RADIO PAGING
46.61 - 46.97 CORDLESS TELEPHONES
49.67 - 49.97 WIRELESS ROOM/BABY MONITORS
145.10 - 145.50 HAM AUTOPATCH
146.61 - 147.39 HAM AUTOPATCH
152.03 - 152.21 RCC ~& RADIO PAGING
152.48 - 152.825 IMTS TELEPHONE/CANADA
152.51 - 152.81 IMTS TELEPHONE ~& RADIO PAGING
157.74 - 158.10 RADIO PAGING
158.49 - 158.70 RADIO PAGING
158.91 - 161.565 RAILROADS/CANADA
160.215 - 161.565 RAILROADS/USA
161.80 - 162.025 MARINE OPERATOR SHIP/SHORE
223.85 - 224.98 HAM AUTOPATCH
442.00 - 445.00 HAM AUTOPATCH
447.00 - 450.00 HAM AUTOPATCH
451.175 - 451.6875 TELEPHONE REPAIR
454.025 - 454.35 RCC~ RADIO PAGING
454.40 - 454.65 IMTS TELEPHONE ~& RADIO PAGING
454.70 - 454.975 TELCO AIR/GROUND OPERATORS
459.025 - 459.65 RADIO PAGING
459.70 - 459.975 TELCO AIR/GROUND AIRCRAFT
479.025 - 493.00 OFFSHORE OIL PLATFORMS
861.0125 - 865.2375 BASIC EXCHANGE RADIO SERVICE
869.00 - 894.00 CELLULAR PHONES
902.00 - 928.00 900 MHZ CORDLESS PHONES
929.00 - 932.00 RADIO PAGING

TELEPHONE FREQUENCY BANDS - BY SERVICE

902.00 - 928.00 900 MHZ CORDLESS PHONES

861.0125 - 865.2375 BASIC EXCHANGE RADIO SERVICE
 869.00 - 894.00 CELLULAR PHONES
 46.61 - 46.97 CORDLESS TELEPHONES
 145.10 - 145.50 HAM AUTOPATCH
 146.61 - 147.39 HAM AUTOPATCH
 223.85 - 224.98 HAM AUTOPATCH
 442.00 - 445.00 HAM AUTOPATCH
 447.00 - 450.00 HAM AUTOPATCH
 152.48 - 152.825 IMTS TELEPHONE/CANADA
 152.51 - 152.81 IMTS TELEPHONE ~& RADIO PAGING
 454.40 - 454.65 IMTS TELEPHONE ~& RADIO PAGING
 161.80 - 162.025 MARINE OPERATOR SHIP/SHORE
 479.025 - 493.00 OFFSHORE OIL PLATFORMS
 35.22 - 35.66 RADIO PAGING
 43.22 - 43.64 RADIO PAGING
 157.74 - 158.10 RADIO PAGING
 158.49 - 158.70 RADIO PAGING
 459.025 - 459.65 RADIO PAGING
 929.00 - 932.00 RADIO PAGING
 158.91 - 161.565 RAILROADS/CANADA
 160.215 - 161.565 RAILROADS/USA
 152.03 - 152.21 RCC ~& RADIO PAGING
 454.025 - 454.35 RCC~ & RADIO PAGING
 454.70 - 454.975 TELCO AIR/GROUND OPERATORS
 459.70 - 459.975 TELCO AIR/GROUND AIRCRAFT
 451.175 - 451.6875 TELEPHONE REPAIR
 49.67 - 49.97 WIRELESS ROOM/BABY MONITORS

 900 MHZ CORDLESS TELEPHONE FREQUENCIES - (AFTER MID-1992) - 902 - 928 MHZ NFM

902.000 - 928.000 900 MHZ CORDLESS TELEPHONES (60-100 KHZ SPACING)

PANASONIC KX-T9000 (30 CHANNELS)

902.1 - 903.9 TRANSPONDER (BASE) FREQUENCIES (60 KHZ SPACING)

926.1 - 927.9 HANDSET FREQUENCIES

FIRST CHANNEL

902.1 DEFAULT TRANSPONDER FREQUENCY

926.1 HANDSET FREQUENCY (24 MHZ HIGHER)

CH BASE HANDSET CH BASE HANDSET

 01 902.100 926.100 08 902.310 926.310
 02 902.130 926.130 09 902.340 926.340
 03 902.160 926.160 10 902.370 926.370
 04 902.190 926.190 11 902.400 926.400
 05 902.220 926.220 ^ ^ ^
 06 902.250 926.250 ^ ^ ^
 07 902.280 926.280 59 903.870 927.870

V-TECH TROPEZ DX900 (20 CHANNELS)

905.6 - 907.5 TRANSPONDER (BASE) FREQUENCIES (100 KHZ SPACING)
925.5 - 927.4 HANDSET FREQUENCIES

ONE SUCH CHANNEL

906.375 DEFAULT TRANSPONDER FREQUENCY
926.275 HANDSET FREQUENCY

OTHER 900 MHZ CORDLESS PHONES

AT&T #9120 - 902-905 & 925-928 MHZ
OTRON CORP. #CP-1000 - 902.1-903.9 & 926.1-927.9 MHZ
SAMSUNG #SP-R912- 903 & 927 MHZ

CELLULAR TELEPHONE FREQUENCIES BANDS

824.0000 - 834.2600 NON-WIRELINE COS. (RADIO COMMON CARRIERS) MOBILES
845.0000 - 846.5000 NON-WIRELINE COS. (RADIO COMMON CARRIERS) MOBILES
869.0000 - 879.3600 NON-WIRELINE COS. (RADIO COMMON CARRIERS) BASES
890.0000 - 891.5000 NON-WIRELINE COS. (RADIO COMMON CARRIERS) BASES

835.6500 - 845.0000 WIRELINE COS. (LOCAL TELEPHONE COMPANY) MOBILES
846.5000 - 849.0000 WIRELINE COS. (LOCAL TELEPHONE COMPANY) MOBILES
880.6500 - 890.0000 WIRELINE COS. (LOCAL TELEPHONE COMPANY) MOBILES ?
891.5000 - 894.0000 WIRELINE COS. (LOCAL TELEPHONE COMPANY) MOBILES ?

829.000 - 849.000 CELLULAR TRANS. FREQUENCY RANGE (30 KHZ)
869.000 - 894.000 CELLULAR RECV. FREQUENCY RANGE (PAIRED FREQS)
869.0000 - 880.0000 SYSTEM A - NON WIRELINE TELEPHONE FREQUENCIES
880.0000 - 894.0000 SYSTEM B - WIRELINE TELEPHONE FREQUENCIES

CELLULAR TELEPHONE FREQUENCIES

Base Mobile Base Mobile
~Transmit Transmit~ Transmit~ Transmit
Channel Frequency Frequency Channel Frequency Frequency
Number (MHz) (MHz) ~ Number (MHz) (MHz) ~

1 870.0300 825.0300 30 870.9000 825.9000
2 870.0600 825.0600 31 870.9300 825.9300
3 870.0900 825.0900 32 870.9600 825.9600
4 870.1200 825.1200 33 870.9900 825.9900
5 870.1500 825.1500 34 871.0200 826.0200
6 870.1800 825.1800 35 871.0500 826.0500
7 870.2100 825.2100 36 871.0800 826.0800
8 870.2400 825.2400 37 871.1100 826.1100
9 870.2700 825.2700 38 871.1400 826.1400
10 870.3000 825.3000 39 871.1700 826.1700
11 870.3300 825.3300 40 871.2000 826.2000
12 870.3600 825.3600 41 871.2300 826.2300
13 870.3900 825.3900 42 871.2600 826.2600

14 870.4200 825.4200 43 871.2900 826.2900
15 870.4500 825.4500 44 871.3200 826.3200
16 870.4800 825.4800 45 871.3500 826.3500
17 870.5100 825.5100 46 871.3800 826.3800
18 870.5400 825.5400 47 871.4100 826.4100
19 870.5700 825.5700 48 871.4400 826.4400
20 870.6000 825.6000 49 871.4700 826.4700
21 870.6300 825.6300 50 871.5000 826.5000
22 870.6600 825.6600 51 871.5300 826.5300
23 870.6900 825.6900 52 871.5600 826.5600
24 870.7200 825.7200 53 871.5900 826.5900
25 870.7500 825.7500 54 871-6200 826-6200
26 870.7800 825.7800 55 871 6500 826.6500
27 870.8100 825.8100 56 871.6800 826.6800
28 870.8400 825.8400 57 871.7100 826.7100
29 870.8700 825.8700 58 871.7400 826.7400

59 871.7700 826.7700 111 873.3300 828.3300
60 871.8000 826.8000 112 873.3600 828.3600
61 871.8300 826.8300 113 873.3900 828.3900
62 871.8600 826.8600 114 873.4200 828.4200
63 871.8900 826.8900 115 873.4500 828.4500
64 871.9200 826.9200 116 873.4800 828.4800
65 871.9500 826.9500 117 873.5100 828.5100
66 871.9800 826.9800 118 873.5400 828.5400
67 872.0100 827.0100 119 873.5700 828.5700
68 872.0400 827.0400 120 873.6000 828.6000
69 872.0700 827.0700 121 873.6300 828.6300
70 872.1000 827.1000 122 873.6600 828.6600
71 872.1300 827.1300 123 873.6900 828.6900
72 872.1600 827.1600 124 873.7200 828.7200
73 872.1900 827.1900 125 873.7500 828.7500
74 872.2200 827.2200 126 873.7800 828.7800
75 872.2500 827.2500 127 873.8100 828.8100
76 872.2800 827.2800 128 873.8400 828.8400
77 872.3100 827.3100 129 873.8700 828.8700
78 872.3400 827.3400 130 873.9000 828.9000
79 872.3700 827.3700 131 873.9300 828.9300
80 872.4000 827.4000 132 873.9600 828.9600
81 872.4300 827.4300 133 873.9900 828.9900
82 872.4600 827.4600 134 874.0200 829.0200
83 872.4900 827.4900 135 874.0500 829.0500
84 872.5200 827.5200 136 874.0800 829.0800
85 872.5500 827.5500 137 874.1100 829.1100
86 872.5800 827.5800 138 874.1400 829.1400
87 872.6100 827.6100 139 874.1700 829.1700
88 872.6400 827.6400 140 874.2000 829.2000
89 872.6700 827.6700 141 874.2300 829.2300
90 872.7000 827.7000 142 874.2600 829.2600
91 872.7300 827.7300 143 874.2900 829.2900
92 872.7600 827.7600 144 874.3200 829.3200
93 872.7900 827.7900 145 874.3500 829.3500
94 872.8200 827.8200 146 874.3800 829.3800
95 872.8500 827.8500 147 874.4100 829.4100

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98 872.9400 827.9400 150 874.5000 829.5000
99 872.9700 827.9700 151 874.5300 829.5300
100 873.0000 828.0000 152 874.5600 829.5600
101 873.0300 828.0300 153 874.5900 829.5900
102 873.0600 828.0600 154 874.6200 829.6200
103 873.0900 828.0900 155 874.6500 829.6500
104 873.1200 828.1200 156 874.6800 829.6800
105 873.1500 828.1500 157 874.7100 829.7100
106 873.1800 828.1800 158 874.7400 829.7400
107 873.2100 828.2100 159 874.7700 829.7700
108 873.2400 828.2400 160 874.8000 829.8000
109 873.2700 828.2700 161 874.8300 829.8300
110 873.3000 828.3000 162 874.8600 829.8600

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164 874.9200 829.9200 216 876.4800 831.4800
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173 875.1900 830.1900 225 876.7500 831.7500
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208 876.2400 831.2400 260 877.8000 832.8000
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211 876.3300 831.3300 263 877.8900 832.8900
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308 879.2400 834.2400 360 880.8000 835.8000
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317 879.5100 834.5100 369 881.0700 836.0700
318 879.5400 834.5400 370 881.1000 836.1000

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413 882.3900 837.3900 465 883.9500 838.9500
414 882.4200 837.4200 466 883.9800 838.9800
415 882.4500 837.4500 467 884.0100 839.0100
416 882.4800 837.4800 468 884.0400 839.0400
417 882.5100 837.5100 469 884.0700 839.0700
418 882.5400 837.5400 470 884.1000 839.1000
419 882.5700 837.5700 471 884.1300 839.1300
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422 882 6000~ 837.6600~ 474 884.2200 839.2200

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515 885.4500 840.4500 567 887.0100 842.0100

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517 885.5100 840.5100 569 887.0700 842.0700
518 885.5400 840.5400 570 887.1000 842.1000
519 885.5700 840.5700 571 887.1300 842.1300
520 885.6000 840.6000 572 887.1600 842.1600
521 885.6300 840.6300 573 887.1900 842.1900
522 885.6600 840.6600 574 887.2200 842.2200
523 885.6900 840.6900 575 887.2500 842.2500
524 885.7200 840.7200 576 887.2800 842.2800
525 885.7500 840.7500 577 887.3100 842.3100

~ 579 887.3700 842.3700 623 888.6900 843.6900
580 887.4000 842.4000 624 888.7200 843.7200
581 887.4300 842.4300 625 888.7500 843.7500
582 887.4600 842.4600 626 888.7800 843.7800
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586 887.5800 842.5800 630 888.9000 843.9000
587 887.6100 842.6100 631 888.9300 843.9300
588 887.6400 842.6400 632 888.9600 843.9600
589 887.6700 842.6700 633 888.9900 843.9900
590 887.7000 842.7000 634 889.0200 844.0200
591 887.7300 842.7300 635 889.0500 844.0500
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593 887.7900 842.7900 637 889.1100 844.1100
594 887.8200 842.8200 638 889.1400 844.1400
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600 888.0000 843.0000 644 889.3200 844.3200
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602 888.0600 843.0600 646 889.3800 844.3800
603 888.0900 843.0900 647 889.4100 844.4100
604 888.1200 843.1200 648 889.4400 844.4400
605 888.1500 843.1500 649 889.4700 844.4700
606 888.1800 843.1800 650 889.5000 844.5000
607 888.2100 843.2100 651 889.5300 844.5300
608 888.2400 843.2400 652 889.5600 844.5600
609 888.2700 843.2700 653 889.5900 844.5900
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613 888.3900 843.3900 657 889.7100 844.7100
614 888.4200 843.4200 658 889.7400 844.7400
615 888.4500 843.4500 659 889.7700 844.7700
616 888.4800 843.4800 660 889.8000 844.8000
617 888.5100 843.5100 661 889.8300 844.8300
618 888.5400 843.5400 662 889.8600 844.8600
619 888.5700 843.5700 663 889.8900 844.8900
620 888.6000 843.6000 664 889.9200 844.9200
621 888.6300 843.6300 665 889.9500 844.9500

622 888.6600 843.6600 666 889.9800 844.9800

Note: The majority of the channels are used for voice communications, the exceptions are Channels 313 through 333 which are used for signalling and Channels 334 through 354 for control purposes.

TELEPHONES - CORDLESS - OLD CORDLESS TELEPHONES (PRIOR TO 1984)

1.7MHZ CORDLESS TELEPHONE BASE TRANSPONDER/HANDSET 49 MHZ
BASE FREQS: 1635, 1645, 1666 AND 1695
ALSO: 1725, 1735, 1755 AND 1776

49 MHZ ELECTRA FREEDOM PHONE & AT&T NOMAD 1000 PHONES:
CH #1 49.83 TX HANDSET/CH #1 49.875 TX BASE UNIT
CH #2 49.845 TX HANDSET/49.890 TX BASE UNIT

TELEPHONES - CORDLESS - PUBLIC SWITCHED TELEPHONE NETWORK (PSTN)

46.61 - 46.97 CORDLESS TELEPHONE BASE UNIT DUPLEX FREQUENCIES
49.67 - 49.99 CORDLESS TELEPHONE HANDSET FREQUENCIES
49.83 - 49.89 49 MHZ WALKIE-TALKIES (UNLICENSED)

46.6100 - 46.9700 BASES OPERATE ON TEN CHANELS WITHIN THIS BAND
49.6700 - 49.9900 HANDSETS OPERATE ON TEN CHANNELS WITHIN THIS BAND

CHANNEL BASE HANDSET

-
- 1 46.610 49.670
 - 2 46.630 49.845*
 - 3 46.670 49.860*
 - 4 46.710 49.770
 - 5 46.730 49.875*
 - 6 46.770 49.830*
 - 7 46.830 49.890*
 - 8 46.870 49.930
 - 9 46.930 49.990
 - 10 46.970 49.970

NOTE: SOME OF THE OLDER CORDLESS PHONES USING THE FREQUENCIES MARKED BY THE <*> ASTERISK ARE PAIRED WITH FREQUENCIES AROUND 1.7 MHZ. LISTENING TO THE 1.7 MHZ SIDE WILL YIELD BOTH SIDES OF THE CONVERSATION.

THE BEST FREQUENCIES TO MONITOR ARE THE 46 MHZ AS THEY WILL REPEAT BOTH SIDES OF THE CONVERSATION. POWER OUTPUT OF BOTH BASE AND HAND UNITS ARE LESS THAN 100 MW OR 1/10 WATT SO THE RANGE IS LIMITED. CAREFUL MONITORING WILL PRODUCE SOME OUTSTANDING RESULTS. IT IS NOT UNCOMMON TO HEAR CONVERSATIONS UP TO A MILE AWAY.

CORDLESS TELEPHONE BASE CHANNELS

46.61 CORDLESS PHONE CH. 1 BASE CHANNEL (PAIRED W/HANDSET 49.67)

- 46.63 CORDLESS PHONE CH. 2 BASE CHANNEL (PAIRED W/HANDSET 49.845)
- 46.67 CORDLESS PHONE CH. 3 BASE CHANNEL (PAIRED W/HANDSET 49.86)
- 46.71 CORDLESS PHONE CH. 4 BASE CHANNEL (PAIRED W/HANDSET 49.77)
- 46.73 CORDLESS PHONE CH. 5 BASE CHANNEL (PAIRED W/HANDSET 49.875)
- 46.77 CORDLESS PHONE CH. 6 BASE CHANNEL (PAIRED W/HANDSET 49.83)
- 46.83 CORDLESS PHONE CH. 7 BASE CHANNEL (PAIRED W/HANDSET 49.89)
- 46.87 CORDLESS PHONE CH. 8 BASE CHANNEL (PAIRED W/HANDSET 49.93)
- 46.93 CORDLESS PHONE CH. 9 BASE CHANNEL (PAIRED W/HANDSET 49.99)
- 46.97 CORDLESS PHONE CH. 10 BASE CHANNEL (PAIRED W/HANDSET 49.97)

CORDLESS TELEPHONE HANDSET CHANNELS

- 49.670 CORDLESS PHONE CH. 1 HANDSET CHANNEL (PAIRED W/BASE 46.61)
- 49.845 CORDLESS PHONE CH. 2 HANDSET CHANNEL (PAIRED W/BASE 46.63)
- 49.860 CORDLESS PHONE CH. 3 HANDSET CHANNEL (PAIRED W/BASE 46.67)
- 49.770 CORDLESS PHONE CH. 4 HANDSET CHANNEL (PAIRED W/BASE 46.71)
- 49.875 CORDLESS PHONE CH. 5 HANDSET CHANNEL (PAIRED W/BASE 46.73)
- 49.830 CORDLESS PHONE CH. 6 HANDSET CHANNEL (PAIRED W/BASE 46.77)
- 49.890 CORDLESS PHONE CH. 7 HANDSET CHANNEL (PAIRED W/BASE 46.83)
- 49.930 CORDLESS PHONE CH. 8 HANDSET CHANNEL (PAIRED W/BASE 46.87)
- 49.990 CORDLESS PHONE CH. 9 HANDSET CHANNEL (PAIRED W/BASE 46.93)
- 49.970 CORDLESS PHONE CH. 10 HANDSET CHANNEL (PAIRED W/BASE 46.97)

 TELEPHONES - CORDLESS - PROPOSED NEW CHANNELS

AN ADDITIONAL FIFTEEN CHANNELS HAVE BEEN PROPOSED USING THIRTY
 FREQUENCIES
 IN WHAT IS NOW THE PRIVATE LAND MOBILE RADIO SERVICE.

- 43.7200 - 44.64 PROPOSED CORDLESS BASE TELEPHONE FREQUENCIES
- 48.7600 - 49.50 PROPOSED CORDLESS BASE TELEPHONE FREQUENCIES

PROPOSED NEW/ADDITIONAL FIFTEEN CHANNEL CORDLESS TELEPHONE
 FREQUENCIES

CHAN BASE HANDSET

CHAN	BASE	HANDSET
1	43.72	48.76
2	43.74	48.84
3	43.82	48.86
4	43.84	48.92
5	43.92	49.02
6	43.96	49.08
7	44.12	49.10
8	44.16	49.16
9	44.18	49.20
10	44.20	49.24
11	44.32	49.28
12	44.36	49.36
13	44.40	49.40
14	44.46	49.46
15	44.48	49.50

PAGING - ONE WAY RADIO PAGING - TONES AND/OR VOICE - MHZ

MEDICAL & EMERGENCY SERVICES:

35.64 35.68 43.68 152.0075 157.45 163.25

BUSINESSES:

152.48 154.625 157.74 158.46 462.75 462.775 462.80 462.825
462.85 462.875 462.90 462.925 465.00

929.00 - 930.00

SERVICES TO PUBLIC SUBSCRIBERS:

35.22 35.26 35.30 35.34 35.38 35.42 35.46 35.50 35.54 35 58
35.62 35.66 43.22 43.26 43.30 43.34 43.38 43.42 43.46 43 50
43.54 43.58 43.64 72.02 72.04 72.06 72.08 72.10 72.12 72.14
72.18 72.20 72.22 72.24 72.26 72.28 72.30 72.32 72.34 72.36
72.38 72.40 72.42 72.44 72.46 72.48 72.50 72.52 72.54 72.56
72.58 72.60 72.62 72.64 72.66 72.68 72.70 72.72 72.74 72.76
72.78 72.80 72.82 72.84 72.86 72.88 72.90 72.92 72.94 72.96
72.98 75.42 75.44 75.46 75.48 75.50 75.52 75.54 75.56 75.58
75.60 75.62 75.64 75.66 75.6~0 75.70 75.72 75.74 75.76 75.78
75.80 75.84 75.86 75.88 75.90 75.92 75.94 75.96 75.98 152.24 152.84 158.10

931.00 - 932.00

AMATEUR RADIO - AUTOPATCH

OUTPUT FREQS. INPUT FREQS.

145.10 - 145.50 144.60 - 144.90
146.61 - 147.39 146.01 - 146.37
223.85 - 224.98 222.25 - 222.38
442.00 - 445.00 447.00 - 450.00
447.00 - 450.00 442.00 - 445.00

RAILROAD - PBX TELEPHONES - SELECTED MAJOR RAILROADS

AT&SF: 160.245 160.26 160.375 160.425
BURLINGTON NORTHERN: 160.425 160.62 161.130
CONRAIL: 161.130 161.445
CP RAIL: 160.175 160.265 160.845 161.175 161.265
161.505
L&N: 160.98 161.34
MISSOURI PACIFIC: 160.605 160.755 160.815
N&W: 160.515 161.275
RICHMOND, FREDERICKS-
BURG & POTOMAC: 161.220

SEABOARD: 160.215 161.265
SOUTHERN PACIFIC: 160.35 160.68 160.800 160.95 160.89
161.22 161.34
UNION PACIFIC: 160.29 161.28

MARINE - VHF-FM MARINE OPERATOR CHANNELS

CHANNEL SHORE FREQ. SHIP FREQ.

24 161.80 157.20
25 161.85 157.25
26 161.90 157.30
27 161.95 157.35
28 162.00 157.40
84 161.825 157.225
85 161.875 157.275
86 161.925 157.325
87 161.975 157.375
88* 162.025 157.425

* LIMITED AREAS ONLY: PUGET SOUND, GREAT LAKES (EX-LAKE MICHIGAN), ~ ST. LAWRENCE SEAWAY.

TELCO - AIR/GROUND OPERATIONS -

460.650 - 460.875 AIRLINE GROUND FREQUENCIES -BASE/MOBILE (20W)
465.650 - 465.875 AIRLINE GROUND FREQUENCIES -MOBILE ONLY (3W)

454.675 - 454.975 AIRCRAFT MOBILE TELEPHONE CHANNELS
849.000 - 851.000 AIR/GROUND PHONES GROUND STATIONS (6 KHZ)
LOWEST GROUND CHANNEL ON 849.016
894.000 - 896.000 AIR/GROUND PHONES AIRCRAFT CHANNELS (6 KHZ)
LOWEST PAIRED AIRCRAFT CHANNEL ON 894.016
945.204 - 946.394 AIRPHONE, INC. AIR TO GROUND TELEPHONE AM SSB

SKYPHONE (SKYTEL) - AIR/GROUND OPERATIONS - NATIONWIDE CHANNELS

FREQUENCY SERVICE USER NAME/CALL SIGN REMARKS

454.6750 SKYTEL SKYPHONE SIGNALLING GROUND-AIR ONLY
454.7000 SKYTEL SKYPHONE GROUND-AIR CH 6, DUPLEX, AIRCRAFT XMIT ON 459.7000
454.7250 SKYTEL SKYPHONE GROUND-AIR CH 7, DUPLEX, AIRCRAFT XMIT ON 459.7250
454.7500 SKYTEL SKYPHONE GROUND-AIR CH 5, DUPLEX, AIRCRAFT XMIT ON 459.7500
454.7750 SKYTEL SKYPHONE GROUND-AIR CH 8, DUPLEX, AIRCRAFT XMIT ON 459.7750
454.8000 SKYTEL SKYPHONE GROUND-AIR CH 4, DUPLEX, AIRCRAFT XMIT ON 459.8000
454.8250 SKYTEL SKYPHONE GROUND-AIR CH 9, DUPLEX, AIRCRAFT XMIT ON 459.8250
454.8500 SKYTEL SKYPHONE GROUND-AIR CH 3, DUPLEX, AIRCRAFT XMIT ON 459.8500
454.8750 SKYTEL SKYPHONE GROUND-AIR CH 10, DUPLEX, AIRCRAFT XMIT ON 459.8750
454.9000 SKYTEL SKYPHONE GROUND-AIR CH 2, DUPLEX, AIRCRAFT XMIT ON 459.9000
454.9250 SKYTEL SKYPHONE GROUND-AIR CH 11, DUPLEX, AIRCRAFT XMIT ON 459.9250

454.9500 SKYTEL SKYPHONE GROUND-AIR CH 1, DUPLEX, AIRCRAFT XMIT ON 459.9500
454.9750 SKYTEL SKYPHONE GROUND-AIR CH 12, DUPLEX, AIRCRAFT XMIT ON 459.9750
459.7000 SKYTEL SKYPHONE AIR-GROUND CH 6, DUPLEX, GROUND XMIT ON 454.7000
459.7250 SKYTEL SKYPHONE AIR-GROUND CH 7, DUPLEX, GROUND XMIT ON 454.7250
459.7500 SKYTEL SKYPHONE AIR-GROUND CH 5, DUPLEX, GROUND XMIT ON 454.7500
459.7750 SKYTEL SKYPHONE AIR-GROUND CH 8, DUPLEX, GROUND XMIT ON 454.7750
459.8000 SKYTEL SKYPHONE AIR-GROUND CH 4, DUPLEX, GROUND XMIT ON 454.8000
459.8250 SKYTEL SKYPHONE AIR-GROUND CH 9, DUPLEX, GROUND XMIT ON 454.8250
459.8500 SKYTEL SKYPHONE AIR-GROUND CH 3, DUPLEX, GROUND XMIT ON 454.8500
459.8750 SKYTEL SKYPHONE AIR-GROUND CH 10, DUPLEX, GROUND XMIT ON 454.8750
459.9000 SKYTEL SKYPHONE AIR-GROUND CH 2, DUPLEX, GROUND XMIT ON 454.9000
459.9250 SKYTEL SKYPHONE AIR-GROUND CH 11, DUPLEX, GROUND XMIT ON 454.9250
459.9500 SKYTEL SKYPHONE AIR-GROUND CH 1, DUPLEX, GROUND XMIT ON 454.9500
459.9750 SKYTEL SKYPHONE AIR-GROUND CH 12, DUPLEX, GROUND XMIT ON 454.9750

TELEPHONE - TELEPHONE COMPANY LINEMEN ~& MAINTENANCE OPERATIONS

35.160 43.160 151.985 158.340 451.175 451.225 451.275
451.300 451.325 451.350 451.375 451.400 451.425 451.450
451.500 451.525 451.575 451.625 451.675 462.475 462.525

TELEPHONE - TELEPHONE COMPANY LINEMEN ~& MAINTENANCE OPERATIONS
OFFSET CHANNELS AVAILABLE ON A RESTRICTED BASIS:

451.1625 451.1875 451.2125 451.2375 451.2625 451.2875 451.3125
451.3375 451.3625 451.3875 451.4125 451.4375 451.4625 451.4875
451.5125 451.5375 451.5625 451.5875 451.6125 451.6375 451.6625
451.6875 462.4625 462.4875 462.5125

456.1625 456.1875 456.2125 456.2375 456.2625 456.2875 456.3125
456.3375 456.3625 456.3875 456.4125 456.4375 456.4625 456.4875
456.5125 456.5375 456.5625 456.5875 456.6125 456.6375 456.6625
456.6875 467.4625 467.4875 467.5125

TELEPHONE - TELEPHONE COMPANY LINEMEN ~& MAINTENANCE OPERATIONS
UHF-T BAND CHANNELS AVAILABLE ON A RESTRICTED BASIS IN
CERTAIN METROPOLITAN AREAS (25 KHZ CHANNEL SPACING):

471.3125 - 471.4125 & 474.3125 - 474.4125
472.9625 - 472.9875 & 475.9625 - 475.9875
478.9625 - 478.9875 & 481.9625 - 481.9875
507.3125 - 507.4125 & 510.3125 - 510.4125

TELEPHONE - TELEPHONE COMPANY LINEMEN ~& MAINTENANCE OPERATIONS
OFFSET AND

UHF-T BAND CHANNELS, ALTHOUGH AVAILABLE, ARE IN LITTLE USE AT
THIS TIME, AND THEN ONLY FOR LOW POWER HANDHELD UNITS. MOST
TELEPHONE MAINTENANCE COMMUNICATIONS TAKE PLACE ON THE PRIMARY
CHANNELS (35.16, 43.16... LISTINGS).

AMATEUR RADIO - PHONE PATCH TELEPHONE CALLS

1840 - 2000 KHZ BAND (LSB MODE)
3750 - 4000 KHZ BAND (LSB MODE)
7150 - 7300 KHZ BAND (USB MODE)
14230 - 14350 KHZ BAND (USB MODE)
21200 - 21450 KHZ BAND (USB MODE)
24930 - 24990 KHZ BAND (USB MODE)
28300 - 29700 KHZ BAND (USB MODE)
50.10 - 51.00 MHZ BAND (USB MODE)

BANDS USED FOR HIGH SEAS TELEPHONE (WORLDWIDE) - USB MODE:

SHORE STATIONS SHIP STATIONS USED MOSTLY

4351 - 4438 KHZ 4065 - 4126 KHZ NIGHTS
6501 - 6525 KHZ 6200 - 6224 KHZ NIGHTS
8707 - 8815 KHZ 8195 - 8294 KHZ NIGHTS
1307I - 13200 KHZ 12230 - 12353 KHZ ALL HOURS
17242 - 17410 KHZ 16360 - 16528 KHZ DAYS
22696 - 22855 KHZ 22000 - 22159 KHZ DAYS
26145 - 26175 KHZ 25070 - 25100 KHZ DAYS

HIGH SEAS TELEPHONE STATIONS IN NORTH AMERICA - ALL KHZ

MOBILE, ALA. (WLO)

SHORE SHIPS

4366 4074
4396 4104
4411 4119
8788 8264
8803 8279
8806 8282
13110 12263
13149 12302
13152 12305
17260 16378
17335 16453
17362 16480
22774 22078
22786 22090
22804 22108

POINT REYES, CALIF. (KMI)

4357 4065
4402 4110
4405 4113
8728 8204
8743 8219
8782 8258
13077 12230

13080 12233
13083 12236
13161 12314

17245 16363
17248 16366
17311 16429
22735 22039
22762 22066
22777 22081
22801 22105

FORT LAUDERDALE, FLA. (WOM)

4363 4071
4390 4098
4405 4113
4423 4131
8722 8198
8731 8207
8746 8222
8758 8234
8791 8267
8809 8285
13092 12245
13098 12251
13101 12254
13110 12263
13143 12296
13164 12317
17242 16360
17266 16384
17269 16387
17272 16390
17287 16405
22738 22042
22741 22045
22759 22063

MANAHAWKIN, N.J. (WOO)

4384 4092
4387 4095
4402 4110
4420 4128
8740 8216
8749 8225
8761 8237
8794 8270
13083 12236
13104 12257
13107 12260
13158 12311
17254 16372
17299 16417

17317 16435
17341 16459
22696 22000
22708 22012
22723 22027
22801 22105

ST. THOMAS, V.L. (WAH)

6510 6209
6513 6212
17245 16363
17248 16366
22762 22066

VANCOUVER, B.C., CANADA (VAI)

4384 4092
4408 4116
6510 6209
6513 6212
8737 8213
8758 8234
13095 12248
17263 16381
22753 22057

FROBISHER BAY, N.T., CANADA (VFF)

4375 4083
6507 6206
8752 8228
13077 12230
17341 16459
22705 22009

HALIFAX, N.S., CANADA (CFH)

4363 4071
4408 4116
6504 6203
6513 6212
8746 8222
13113 12266
13161 12314
17251 16369
17260 16378
22699 22003

TELEPHONE - MILITARY (MARS) - POPULAR USAF MARS PATCH FREQUENCIES:

7633.5 14389.0 14877.0 20807.0
10267.0 14390.5 15632.0 20991.0
10270.0 1~402.0 16452.0 23862.0

11407.0 14530.0 17670.0 27736.0
13614.0 14606.0 19226.0 27829.0
13927.0 14829.0 20188.5 27978.0
14832.0 27991.0

TELEPHONE - MILITARY (MARS) - POPULAR USN ~MARS PATCH FREQUENCIES:

13530.0 13975.5 14468.5 14478.5
13827.5 14443.0 14471.5 14760

TELEPHONE - MILITARY (MARS) - POPULAR US ARMY MARS PATCH FREQUENCIES:

13997.5 14403.5 14485.5

TELEPHONE - MILITARY (MARS) - POPULAR CANADIAN FORCES AMATEUR RADIO
(CFAR) PATCH FREQUENCIES:

6905.0 13971.0 14384.5 14838.5 20957.0 20972.0

TELEPHONE - IMPROVED MOBILE TELEPHONE SERVICE - UNITED STATES

CHAN BASE ~ MOBILE

JJ* 152.48 157.74
JK 152.78 158.04
JL 152.51 157.77
JP 152.57 157.83
JR 152.81 158.07
JS 152.69 157.95
YJ 152.63 157.89
YK 152.66 157.92
YL 152.54 157.80
YP 152.60 157.86
YR 152.75 158.01
YS 152.72 157.98
QA 454.45 459.45
QB 454.55 459.55
QC 454.375 459.375
QD 454.425 459.425
QE 454.475 459.475
QF 454.65 459.65
QJ 454.40 459.40
QK 454.525 459.525
QO 454.575 459.575
QP 454.50 459.50
QR 454.60 459.60
QY 454.625 459.625

TELEPHONE - IMPROVED MOBILE TELEPHONE SERVICE - CANADA

CHAN BASE ~ MOBILE

JW* 152.84 158.10
XJ* 152.495 157.755
XK* 152.525 157.785
XL* 152.555 157.815
XP* 152.585 157.845
XR* 152.615 157.875
XS* 152.645 157.905
XT* 152.675 157.935
XU* 152.705 157.965
XV* 152.735 157.995
XW* 152.765 158.025
XX* 152.795 158.055
XY* 152.825 158.085

TELEPHONE - IMPROVED MOBILE TELEPHONE SERVICE

CONNECTICUT
BASE MOBILE
BRIDGEPORT 152.81 158.07
HARTFORD 152.51 157.77
NEW HAVEN 152.63 157.89
STAMFORD 152.60 157.86
WATERBURY 152.78 158.04

MAINE
BASE MOBILE
AUGUSTA 152.81 158.07
BANGOR 152.63 157.89
AERO 454.950 459.950
AERO 454.725 459.725
HOULTON 152.63 157.89
LEWISTON 152.57 157.83
NORRIDGEWOCK 152.66 157.92
N. ANSON 152.60 157.86
PORTLAND 152.63 157.89
PRESQUE ISLE 152.57 157.83
ROCKLAND 152.57 157.83
STRATTON 152.63 157.89
STRONG 152.69 157.95
UNITY 152.54 157.80
152.72 157.98

MASSACHUSETTS
BASE MOBILE
BOSTON 152.78 158.04
152.51 157.77
152.66 157.92
152.54 157.80
152.60 157.86

454.55 459.55
454.425 459.425
454.475 459.475
454.525 459.525
454.50 459.50
454.60 459.60
AERO 454.850 459.850
BROCKTON 152.72 157.98
454.65 459.65
HYANNIS 152.69 157.95
LAWRENCE 152.57 157.83
454.625 459.625
NEW BEDFORD 152.57 157.83
PITTSFIELD 152.72 157.98
SPRINGFIELD 152.57 157.83
152.66 157.92
152.60 157.86
WORCESTER 152.81 158.07
152.69 157.95
454.575 459.575

NEW HAMPSHIRE
BASE MOBILE
CONTOOCCOOK 152.72 157.98
DOVER 152.69 157.95
HILLSBORO 152.75 158.01
MANCHESTER 152.63 157.89
NEW LONDON 152.57 157.83

RHODE ISLAND
BASE MOBILE
PROVIDENCE 152.63 157.89
152.75 158.01

VERMONT
BASE MOBILE
BURLINGTON 152.57 157.83
LUDLOW 152.78 158.04
WAITSFIELD 454.575 459.575

AERONAUTICAL - TELEPHONE CHANNELS

A1 454.950 459.950
A2 454.900 459.900
A3 454.850 459.850
A4 454.800 459.800
A5 454.750 459.750

A6 454.700 459.700
A7 454.725 459.725
A8 454.775 459.775
A9 454.825 459.825
A10 454.875 459.875
ALL 454.925 459.925
A12 454.975 459.975

(ALL GROUND STATIONS SEND SIGNAL TONES ON 454.675 MHZ)

AERONAUTICAL - TELEPHONE CHANNELS - BOSTON, MASSACHUSETTS

454.675 AIRCRAFT PHONE BOSTON, MA KCC793 -----
454.850 AIRCRAFT PHONE KCC793 -----

AERONAUTICAL - AIRPHONE MOBILE TELEPHONE CHANNELS - BOSTON,
MASSACHUSETTS

945.8040 AIR MOBILE TEL. - -----
945.8100 AIR MOBILE TEL. - -----
945.8160 AIR MOBILE TEL. - -----
945.8220 AIR MOBILE TEL. - -----
945.8280 AIR MOBILE TEL. - -----
945.8340 AIR MOBILE TEL. - -----
945.8400 AIR MOBILE TEL. - -----
945.8460 AIR MOBILE TEL. - -----
945.8520 AIR MOBILE TEL. - -----
945.8580 AIR MOBILE TEL. - -----
945.8640 AIR MOBILE TEL. - -----
945.8700 AIR MOBILE TEL. - -----
945.8760 AIR MOBILE TEL. - -----
945.8820 AIR MOBILE TEL. - -----
945.8880 AIR MOBILE TEL. - -----
945.8940 AIR MOBILE TEL. - -----
945.9000 AIR MOBILE TEL. - -----
945.9060 AIR MOBILE TEL. - -----
945.9120 AIR MOBILE TEL. - -----
945.9180 AIR MOBILE TEL. - -----
945.9240 AIR MOBILE TEL. - -----
945.9300 AIR MOBILE TEL. - -----
945.9360 AIR MOBILE TEL. - -----
945.9420 AIR MOBILE TEL. - -----
945.9480 AIR MOBILE TEL. - -----
945.9540 AIR MOBILE TEL. - -----
945.9600 AIR MOBILE TEL. - -----
945.9660 AIR MOBILE TEL. - -----
945.9720 AIR MOBILE TEL. - -----
945.9780 AIR MOBILE TEL. - -----
945.9840 AIR MOBILE TEL. - -----
945.9940 AIR MOBILE TEL. - -----

LICENSED AS AN INFLIGHT TELEPHONE SERVICE ON AN EXPERIMENTAL BASIS.

TELEPHONE - PERSONAL COMMUNICATIONS SERVICES

"A" AT 1850-1856/1930-1945 MHZ
"B" AT 1865-1880/1945-1960 MHZ
"C" AT 1880-1890/1960-1970 MHZ - ONE 20 MHZ BLOCK
"D" AT 2130-2135/2180-2185 MHZ - ONE 10 MHZ BLOCK
"E" AT 2136-2140/2185-2190 MHZ - ONE 10 MHZ BLOCK
"F" AT 2140-2145/2190-2195 MHZ - ONE 10 MHZ BLOCK
"G" AT 2145-2150/2195-2200 MHZ - ONE 10 MHZ BLOCK

160 MHZ WITHIN 2 GHZ SPECTRUM HAS BEEN ALLOCATED AND CHANNELIZED INTO TWO 30 MHZ BLOCKS WHICH WILL BE AVAILABLE IN TWO DIFFERING TYPE OF GEOGRAPHIC UNITS: CHANNELS A-C WILL BE MTAS (MAJOR TRADING AREAS), AND D-G WILL BE BTAS (BASIC TRADING AREAS); THERE WILL BE A TOTAL OF 51 MTAS AND 492 BTAS AVAILABLE.

TELEPHONE - SATELLITE - HIGH SEAS SHIP/SHORE CALLS:

DOWNLINK BAND UPLINK BAND
1.537 - 1.543 GHZ 1.638 - 1.645 GHZ
4.194 - 4.201 GHZ 6.420 - 6.425 GHZ

TELEPHONE - SATELLITE - POINT-TO-POINT OVERSEAS/DOMESTIC LONG DISTANCE CALLS

DOWNLINK BAND UPLINK BAND
3.700 - 4.200 GHZ 5.925 - 6.405 GHZ
11.700 - 12.200 GHZ 14.000 - 14.500 GHZ







WIRELESS ROOM/BABY MONITORS - OLD PHONE HANDSETS - LOW POWER FREQUENCIES

CHAN FREQ

A 49.830
B 49.845
C 49.860
D 49.875
E 49.890

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VHF Marine Radio Service Frequency Table

This table is the frequency chart for the VHF Marine Radio Service. There are specifically designated channels for specific usage, as indicated in the chart below. Frequencies are in megahertz. Note that the letter **A** indicates simplex use of the ship station transmit side of an international duplex channel, and that operations are different than international operations on that channel. Some VHF transceivers are equipped with an "International - U.S." switch for that purpose. **A** channels are generally only used in the United States, and use is normally not recognized or allowed outside the U.S. The letter **B** indicates simplex use of the coast station transmit side of an international duplex channel. The U.S. does not currently use **B** channels for simplex communications in this band. Boaters should normally use channels listed as Non-Commercial. Channel 16 is used for calling other stations or for distress alerting. Channel 13 should be used to contact a ship when there is danger of collision. All ships of length 20m or greater are required to guard VHF channel 13, in addition to VHF channel 16, when operating within U.S. territorial waters. Users may be fined by the FCC for improper use of these channels. See the [Federal Communications Commission's Marine VHF Radio Channels page](#) for detailed information.

For complete NOAA weather radio information, see the [NOAA home page](#).

Marine VHF Designated Frequencies

Channel Number	Ship Transmit MHz	Ship Receive MHz	Intended And Designated Use
01A	156.050	156.050	Port Operations and Commercial, VTS. Available only in New Orleans / Lower Mississippi area.
05A	156.250	156.250	Port Operations or VTS in the Houston, New Orleans and Seattle areas.

06	156.300	156.300	Intership Safety
07A	156.350	156.350	Commercial
08	156.400	156.400	Commercial (Intership only)
09	156.450	156.450	Boater Calling. Commercial and Non-Commercial.
10	156.500	156.500	Commercial
11	156.550	156.550	Commercial. VTS in selected areas.
12	156.600	156.600	Port Operations. VTS in selected areas.
13	156.650	156.650	Intership Navigation Safety (Bridge-to-bridge). Ships >20m length maintain a listening watch on this channel in US waters.
14	156.700	156.700	Port Operations. VTS in selected areas.
15	--	156.750	Environmental (Receive only). Used by Class C EPIRBs.
16	156.800	156.800	International Distress, Safety and Calling. Ships required to carry radio, USCG, and most coast stations maintain a listening watch on this channel.
17	156.850	156.850	State Control
18A	156.900	156.900	Commercial
19A	156.950	156.950	Commercial

20	157.000	161.600	Port Operations (duplex)
20A	157.000	157.000	Port Operations
21A	157.050	157.050	U.S. Coast Guard only
22A	157.100	157.100	Coast Guard Liaison and Maritime Safety Information Broadcasts. Broadcasts announced on channel 16.
23A	157.150	157.150	U.S. Coast Guard only
24	157.200	161.800	Public Correspondence (Marine Operator)
25	157.250	161.850	Public Correspondence (Marine Operator)
26	157.300	161.900	Public Correspondence (Marine Operator)
27	157.350	161.950	Public Correspondence (Marine Operator)
28	157.400	162.000	Public Correspondence (Marine Operator)
63A	156.175	156.175	Port Operations and Commercial, VTS. Available only in New Orleans / Lower Mississippi area.
65A	156.275	156.275	Port Operations
66A	156.325	156.325	Port Operations
67	156.375	156.375	Commercial. Used for Bridge-to-bridge communications in lower Mississippi River. Intership only.

68	156.425	156.425	Non-Commercial
69	156.475	156.475	Non-Commercial
70	156.525	156.525	Digital Selective Calling (voice communications not allowed)
71	156.575	156.575	Non-Commercial
72	156.625	156.625	Non-Commercial (Intership only)
73	156.675	156.675	Port Operations
74	156.725	156.725	Port Operations
77	156.875	156.875	Port Operations (Intership only)
78A	156.925	156.925	Non-Commercial
79A	156.975	156.975	Commercial. Non-Commercial in Great Lakes only
80A	157.025	157.025	Commercial. Non-Commercial in Great Lakes only
81A	157.075	157.075	U.S. Government only - Environmental protection operations.
82A	157.125	157.125	U.S. Government only
83A	157.175	157.175	U.S. Coast Guard only
84	157.225	161.825	Public Correspondence (Marine Operator)
85	157.275	161.875	Public Correspondence (Marine Operator)

86	157.325	161.925	Public Correspondence (Marine Operator)
87	157.375	161.975	Public Correspondence (Marine Operator)
88	157.425	162.025	Public Correspondence only near Canadian border.
88A	157.425	157.425	Commercial, Intership only.
NOAA	Weather	WX1	162.550
NOAA	Weather	WX2	162.400
NOAA	Weather	WX3	162.475
NOAA	Weather	WX4	162.425
NOAA	Weather	WX5	162.450
NOAA	Weather	WX6	162.500
NOAA	Weather	WX7	162.525

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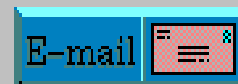
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49 Mhz Cordless Phone Frequency Table

This table is the frequency chart for the 49 Mhz cordless phone frequencies. These listings are only for information as it is illegal to monitor, record or disclose the contents of a cellular or cordless telephone conversation! In 1991 and again in late 1995, the FCC added additional frequencies to the 49 Mhz section for these phones, and changed the frequency shift from the base frequency and handset. Hence, for this division of cordless phones, there are three sections, pre 1991, pre and post 1995. In order to test the phone operation via scanner, it is necessary to program the BASE frequency to enable both sides of the conversation. As you can see from the chart, some of the frequencies overlap and can, in certain instances, cause problems for other units. Also be aware that baby monitor channels also fell into the 49 Mhz telephone range and OFTEN cause problems.

PRE-1991 CORDLESS FREQUENCIES

Channel ##	Base TX	Handset TX
=====	=====	=====
Channel 01A	49.9300	01.6950
Channel 06A	49.8300	01.7050
Channel 13A	49.8600	01.7650
Channel 19A	49.8750	01.7950
Channel 25A	49.8900	01.8250
Channel 27A	49.8450	01.7350

PRE-1995 CORDLESS FREQUENCIES

Channel	Base	Handset	Baby Monitor
Old-New	Frequencies		Channel
01	16	46.610	49.670
02	17	46.630	49.845 B
03	18	46.670	49.860 C
04	19	46.710	49.770
05	20	46.730	49.875 D
06	21	46.770	49.830 A
07	22	46.830	49.890 E
08	23	46.870	49.930
09	24	46.930	49.990
10	25	46.970	49.970

POST-1995 CORDLESS FREQUENCIES

Channel	Base	Handset
1	43.7200	48.7600
2	43.7400	48.8400
3	43.8200	48.8600
4	43.8400	48.9200
5	43.9200	49.0200
6	43.9600	49.0800
7	44.1200	49.1000
8	44.1600	49.1600
9	44.1800	49.2000
10	44.2000	49.2400
11	44.3200	49.2800
12	44.3600	49.3600
13	44.4000	49.4000
14	44.4600	49.4600
15	44.4800	49.5000
16	46.6100	49.6700
17	46.6300	49.8450
18	46.6700	49.8600
19	46.7100	49.7700
20	46.7300	49.8570
21	46.7700	49.8300
22	46.8300	49.8900
23	46.8700	49.9300
24	46.9300	49.9900
25	46.9700	49.9700

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For the single frequency model Panasonic phones, the color of the unit often determines which of the above channels is used by the phone. The following chart lists these allocations.

Color of Phone -----	CH --	BASE -----	HANDSET -----
Blue	01	902.1000	926.1000
Hot Pink	02	902.1300	926.1300
Banana	03	902.1600	926.1600
Cerise	04	902.1900	926.1900
White	05	902.2200	926.2200
Off White	06	902.2500	926.2500
Gray	07	902.2800	926.2800
Fuschia	08	902.3100	926.3100
Shocking Pink	09	902.3400	926.3400
Chartreuse	10	902.3700	926.3700
Neon Purple	11	902.4000	926.4000
Black	59	903.8700	927.8700

V-TECH TROPEZ DX900 (20 CHANNELS)

905.6000 - 907.5000 TRANSPONDER (BASE) FREQUENCIES (100 KHZ SPACING)

925.5000 - 927.4000 HANDSET FREQUENCIES

CH --	BASE ----	HANDSET -----	CH --	BASE ----	HANDSET -----	CH --	BASE ----	HANDSET -----
01	905.6000	925.5000	08	906.3000	926.2000	15	907.0000	926.9000
02	905.7000	925.6000	09	906.4000	926.3000	16	907.1000	927.0000
03	905.8000	925.7000	10	906.5000	926.4000	17	907.2000	927.1000
04	905.9000	925.8000	11	906.6000	926.5000	18	907.3000	927.2000
05	906.0000	925.9000	12	906.7000	926.6000	19	907.4000	927.3000
06	906.1000	926.0000	13	906.8000	926.7000	20	907.5000	927.4000
		07 906.2000	926.1000	14	906.9000	926.8000		

GE 2-9925 (30 Channels)

Base 902.1250 - 903.9850 Base frequencies (60Khz spacing)

Handset 926.1250 - 927.9850 Handset frequencies

CH --	BASE -----	HANDSET -----	CH --	BASE -----	HANDSET -----	CH --	BASE -----	HANDSET -----
01	902.1250	926.1250	11	902.7250	926.7250	21	903.3250	927.3250
02	902.1850	926.1850	12	902.7850	926.7850	22	903.3850	927.3850
03	902.2450	926.2450	13	902.8450	926.8450	23	903.4450	927.4450
04	902.3050	926.3050	14	902.9050	926.9050	24	903.5050	927.5050
05	902.3650	926.3650	15	902.9650	926.9650	25	903.5650	927.5650
06	902.4250	926.4250	16	903.0250	927.0250	26	903.6250	927.6250
07	902.4850	926.4850	17	903.0850	927.0850	27	903.6850	927.6850
08	902.5450	926.5450	18	903.1450	927.1450	28	903.7450	927.7450
09	902.6050	926.6050	19	903.2050	927.2050	29	903.8050	927.8050
10	902.6650	926.6650	20	903.2650	927.2650	30	903.8650	927.8650
		31 903.9250	927.9250	32	903.9850	927.9850		

OTHER 900 MHZ CORDLESS PHONES

AT&T #9120 - - - - - 902.0 - 905.0 & 925.0 - 928.0 MHZ
OTRON CORP. #CP-1000 902.1 - 903.9 & 926.1 - 927.9 MHZ
SAMSUNG #SP-R912- - - 903.0 & 927.0 MHZ

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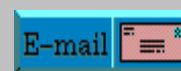
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Analog Cellular Phone Frequency Table

This table is the frequency chart for the analog cellular phone frequency data. These listings are only for information as it is illegal to monitor, record or disclose the contents of a cellular or cordless telephone conversation! While analog is still available, most of the cellular industry has moved in the direction of digital.

Cellular Frequencies - FCC Allocation 22.902

Channels	Base Frequencies (in MHz)	System	Use
991 - 1023	869.040 - 870.000	A - RCC	Voice
1 - 312	870.030 - 879.360	A - RCC	Voice
313 - 333	879.390 - 879.990	A - RCC	Data
334 - 354	880.020 - 880.620	B - Telco	Data
355 - 666	880.650 - 889.980	B - Telco	Voice
667 - 716	890.010 - 891.480	A - RCC	Voice
717 - 799	891.510 - 893.970	B - Telco	Voice

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Cellular, PCS, GSM, and Japanese Digital Cellular Frequencies Table

These tables are frequency information for the cellular, PCS, GSM, and Japanese Digital Cellular frequencies. This frequency range is current and phones in these ranges are in current production. Information will change most likely. These listings are only for information as it is illegal to monitor, record or disclose the contents of a cellular or cordless telephone conversation! In order to test the phone operation via scanner, it is often necessary to program both the transmit and receive frequencies to enable both sides of the conversation.

This table lists a few frequency allocations for common cellular and PCS services around the world. It is from this information, immediately clear why you can not easily travel with your cell phone, often in the same region or country. There are few if any standards and different countries use different frequencies, depending on their needs with the radio spectrum. The mobile technology produces elaborate units but the can't tune themselves automatically to the frequencies they find. They need the combination of the right hardware, software, and pseudo intelligence to use different frequencies. Those are reasons why travelers need what the industry terms dual or triple band phones to use phone service overseas. These units have additional circuitry built in to use the different frequencies in the countries most often traveled. Dual mode (as opposed to band) phones, by comparison, are those few that operate in perhaps a digital CDMA operating system, but can also use a non digital system like AMPS when no PCS signal is found. Sprint, a leader in the PCS industry, makes such a phone. The problem of few standards, if any, has tormented the electronics industry for years and is doing the same now in the cellular - PCS divisions. Every company, country, engineer and political figure feels that the idea they have is the RIGHT way to do things. The long discussed philosophy of radios instead of phones makes more sense than the current methodology. The future promises us even more operating systems and far more different frequency allocations, and my guess is, the problems that go with them.

General Frequency Table

American Cellular

AMPS, N-AMPS, D-AMPS (IS-136) CDMA	824-849 MHz 869-894 MHz	Mobile to base Base to mobile
------------------------------------	----------------------------	----------------------------------

American PCS

Narrowband	901-941 MHz	
Broadband	1850-1910MHz 1930-1990 MHz	Mobile to base Base to mobile

E-TACS

	872-905 MHz 917-950 MHz	Mobile to base Base to mobile
GSM	930-960MHz 890-915MHz	

JDC

	810-826 MHz 940-956 MHz 1429-1441 MHz 1477-1489 MHz	Mobile to base Base to mobile Base to mobile Mobile to base
--	--	--

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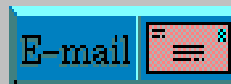
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Allocation Table and Footnotes

The Frequency Allocation Table and Footnotes have been extracted from Chapter 4 of the NTIA "Manual of Regulations and Procedures for Federal Radio Frequency Management", September 1995 edition. The entire NTIA Manual can be viewed in the Adobe Acrobat format at the URL <http://www.ntia.doc.gov/osmhome/redbook/redbook.html>. The Allocation Tables below require a browser capable of viewing HTML tables (such as Netscape version 1.1 or greater, or Internet Explorer 1.1 or greater).

[Allocation Tables Explanation](#) (excerpt from NTIA Manual, Chapter 4)

Allocation Tables by Frequency

- [Below 27.5 MHz](#)
- [27.5 MHz to 10 GHz](#)
- [Above 10 GHz](#)

Footnotes

- [International](#)
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4.1 FREQUENCY ALLOCATIONS

4.1.1 ITU Table of Frequency Allocations

The ITU Table of Frequency Allocations is that table contained in Article 8 of the ITU Radio Regulations, 1982 Edition.

4.1.2 National Table of Frequency Allocations

The National Table of Frequency Allocations is comprised of the U.S. Government Table of Frequency Allocations and the FCC Table of Frequency Allocations. The National Table indicates the normal national frequency allocation planning and the degree of conformity with the ITU Table. When required in the national interest and consistent with national rights, as

well as obligations undertaken by the United States to other countries that may be affected, additional uses of frequencies in any band may be authorized to meet service needs other than those provided for in the National Table.

Specific exceptions to the National Table of Frequency Allocations are as follows:

A Government frequency assignment may be authorized in a non-Government band, as an exception, provided a) the assignment is coordinated with the FCC and b) no harmful interference will be caused to the service rendered by non-Government stations, present or future.

A non-Government frequency assignment may be authorized in a Government band, as an exception, provided a) the assignment is coordinated with the IRAC and b) no harmful interference will be caused to the service rendered by Government stations, present or future.

In the case of bands shared by Government and non-Government services, frequency assignments therein shall be subject to coordination between the IRAC and the FCC and no priority is recognized unless the terms of such priority are specifically defined in the National Table of Frequency Allocations or unless they are subject to mutually agreed arrangements in specific cases.

4.1.3 U.S. Government Table of Frequency Allocations

The U.S. Government Table of Frequency Allocations shall be used as a guide in the assignment of radio frequencies to Government radio stations in the United States and Possessions. Exceptions to the Table may be made by the IRAC after careful consideration to avoid harmful interference and to ensure compliance with the ITU Radio Regulations.

For the use of frequencies by Government radio stations outside the United States and Possessions, Government agencies shall be guided insofar as practicable by the ITU Table of Frequency Allocations and, where applicable, by the authority of the host government. Maximum practicable effort should be made to avoid the possibility of harmful interference to other authorized U.S. operations. If harmful interference is considered likely, it is incumbent upon the agency conducting the operation to coordinate with other U.S. Flag users, as provided for in Section 8.3.11.

Application of the U.S. Government Table is subject to the recognition that:

below 25000 kHz the Table is only applicable in the assignment of frequencies after September 5, 1961;

under Article 38 of the International Telecommunication Convention, administrations "retain

their entire freedom with regard to military radio installations of their army, naval and air forces"; and under No. 342 of the ITU Radio Regulations, administrations may assign frequencies in derogation of the ITU Table of Frequency Allocations "on the express condition that harmful interference shall not be caused to services carried on by stations operating in accordance with the provisions of the Convention and of these Regulations."

Some frequency assignments below 25000 kHz that were made before September 5, 1961, are not in conformity with the Government Table. Because of the exception mentioned in the first subparagraph above, the status of these assignments can be determined only on a case-by-case basis. With this exception, the rules pertaining to the relative status between radio services are as follows:

Primary and permitted services have equal rights, except that, in the preparation of frequency plans, the primary service, as compared with the permitted service, shall have prior choice of frequencies.

Secondary services are on a non-interference basis to the primary and permitted services. Stations of a secondary service:

- (a) shall not cause harmful interference to stations of primary or permitted services to which frequencies are already assigned or to which frequencies may be assigned at a later date;
- (b) cannot claim protection from harmful interference from stations of a primary or permitted service to which frequencies are already assigned or may be assigned at a later date;
- (c) can claim protection, however, from harmful interference from stations of the same or other secondary service(s) to which frequencies may be assigned at a later date.

Additional allocation - where a band is indicated in a footnote of the Table as "also allocated" to a service in an area smaller than a Region, or in a particular country. For example, an allocation which is added in this area or in this country to the service or services which are indicated in the Table.

Alternative allocation - where a band is indicated in a footnote of the Table as "allocated" to one or more services in an area smaller than a Region, or in a particular country. For example, an allocation which replaces, in this area or in this country, the allocation indicated in the Table.

Different category of service - where the allocation category (primary, permitted, or secondary) of the service in the Table is changed. For example, the Table reflects the allocation as Fixed, Mobile and RADIOLocation, the category of these services are changed by the footnote to FIXED, MOBILE and Radiolocation.

An allocation or a footnote to the Government Table denoting relative status between radio services automatically applies to each assignment in the band to which the footnote or allocation pertains, unless at the time of a particular frequency assignment action a different provision is decided upon for the assignment concerned.

A priority note reflecting the same provisions as an allocation or an applicable footnote to the Government Table is redundant and shall not be applied to frequency assignments.

An assignment that is in conformity with the service allocation (as amplified by pertinent footnotes) for the band in which it is contained takes precedence over assignments therein that are not in conformity unless, at the time of the frequency assignment action, a different provision is decided upon.

Where in this Table a band is indicated as allocated to more than one service, such services are listed in the following order:

(a) services, the names of which are printed in all capital letters (example: FIXED); these services are called "primary" services;

(b) services, the names of which are printed in "capitals between oblique strokes" (example: /RADIOLOCATION/); these are called "permitted" services;

(c) services, the names of which are printed in "normal characters" (example: Mobile); these are "secondary" services.

The columns to the right of the double line show the national provisions; those to the left show the provisions of the ITU Table of Frequency Allocations.

Column 1 indicates the national band limits.

Column 2 indicates the Government allocation, including all "US" and "G" footnotes considered to be applicable to the Government nationally. Where the allocated service is followed by a function in parentheses, e.g., SPACE (space-to-Earth), the allocation is limited to the function shown.

Column 3 indicates the non-Government allocation including all "US" footnotes, and certain "NG" footnotes as contained in Part 2 of the FCC Rules and Regulations. Where the allocated service is followed by a function in parentheses, e.g., SPACE (space-to-Earth), the allocation is limited to the function shown. These data have been included in the Government Table for information purposes only.

Column 4 contains such remarks as serve to amplify the Government and non-Government

allocations or point up understanding between the FCC and IRAC/NTIA in respect thereof.

The international footnotes shown in the columns to the left of the double line are applicable only in the relationships between the United States and other countries. An international footnote is applicable to the U.S. Table of Allocations if the number also appears in Columns 2 and 3 of the U.S. Table. The international footnote is then applicable to both Government and non-Government use.

The texts of footnotes in this Table are listed in numerical order in sections headed Government Footnotes, U.S. Footnotes, International Footnotes, and NG Footnotes.

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US And International Tables Of Frequency Allocations (Rev.9/95)

This table is the frequency chart for the US and International assigned and allocated frequencies below 27.500 megahertz. It requires a browser capable of viewing HTML tables (such as Netscape version 1.1 or greater, or Internet Explorer 1.1 or greater). Because of the extreme size of this chart, you will have to use the scroll bars to see all of it vertically and horizontally. You may also wish to see the tables that include [a general introduction to all of the frequency information](#), [frequencies 27.5 MHz to 10 GHz](#) and [frequencies above 10 GHz](#). There are also [footnotes covering US, International, government and non-government information](#).

Frequency Allocation Tables (Below 27.5 MHz)

jump to [5,000/10,000/15,000/20,000](#) khz

INTERNATIONAL			UNITED STATES			
Region 1 kHz	Region 2 kHz	Region 3 kHz	Band kHz	Government Allocation	Non-Government Allocation	Remarks
Below 9 (Not Allocated) 444 445			Below 9	(Not Allocated) 444 445	(Not Allocated) 444 445	
9-14 RADIONAVIGATION			9-14	RADIONAVIGATION US18 US294	RADIONAVIGATION US18 US294	
14-19.95 FIXED MARITIME MOBILE 448 446 447			14-19.95	FIXED MARITIME MOBILE US294 448	Fixed US294 448	
19.95-20.05 STANDARD FREQUENCY AND TIME SIGNAL (20 kHz)			19.95- 20.05	STANDARD FREQUENCY AND TIME SIGNAL (20 kHz) US294	STANDARD FREQUENCY AND TIME SIGNAL (20 kHz) US294	FCC Rules and Regulations make no provisions for the licensing of standard frequency stations.

20.05-70 FIXED MARITIME MOBILE 448 447 449			20.05-59	FIXED MARITIME MOBILE US294 448	FIXED US294 448	FCC Rules and Regulations make no provisions for the licensing of standard frequency stations.
			59-61	STANDARD FREQUENCY AND TIME SIGNAL (60 kHz) US294	STANDARD FREQUENCY AND TIME SIGNAL (60 kHz) US294	
			61-70	FIXED MARITIME MOBILE US294 448	FIXED US294 448	
70-72 RADIONAVIGATION 451	70-90 FIXED MARITIME MOBILE 448 MARITIME RADIONAVIGATION 451 Radiolocation 452	70-72 RADIONAVIGATION 451 Fixed Maritime Mobile 448 450	70-90	FIXED MARITIME MOBILE Radiolocation US294 448 451	FIXED Radiolocation US294 448 451	
72-84 FIXED MARITIME MOBILE 448 RADIONAVIGATION 451 447	72-84 FIXED MARITIME MOBILE 448 RADIONAVIGATION 451	84-86 RADIONAVIGATION 451 Fixed Maritime Mobile 448 450				
84-86 RADIONAVIGATION 451						

86-90 FIXED MARITIME MOBILE 448 RADIONAVIGATION 447		86-90 FIXED MARITIME MOBILE 448 RADIONAVIGATION 451			
90-110 RADIONAVIGATION 453 Fixed 453A 454			90-110	RADIONAVIGATION US18 US104 US294 453	RADIONAVIGATION US18 US104 US294 453
110-112 FIXED MARITIME MOBILE RADIONAVIGATION 454	110-130 FIXED MARITIME MOBILE MARITIME RADIONAVIGATION 451 Radiolocation 452 454	110-112 FIXED MARITIME MOBILE RADIONAVIGATION 451 454			
112-115 RADIONAVIGATION 451		112-117.6 RADIONAVIGATION 451 Fixed Maritime Mobile 454 455	110-130	FIXED MARITIME MOBILE Radiolocation US294 451 454	FIXED MARITIME MOBILE Radiolocation US294 451 454
115-117.6 RADIONAVIGATION 451 Fixed Maritime Mobile 454 456					
117.6-126 FIXED MARITIME MOBILE RADIONAVIGATION 451 454		117.6-126 FIXED MARITIME MOBILE RADIONAVIGATION 451 454			

126-129 RADIONAVIGATION 451		126-129 RADIONAVIGATION 451 Fixed Maritime Mobile 454 455			
129-130 FIXED MARITIME MOBILE RADIONAVIGATION 451 454		129-130 FIXED MARITIME MOBILE RADIONAVIGATION 451 454			
130-148.5 MARITIME MOBILE /FIXED/ 454 457	130-160 FIXED MARITIME MOBILE 454	130-160 FIXED MARITIME MOBILE RADIONAVIGATION 454	130-160	FIXED MARITIME MOBILE US294 454	FIXED MARITIME MOBILE US294 454
148.5-255 BROADCASTING 460 461 462	160-190 FIXED 459	160-190 FIXED Aeronautical Radionavigation	160-190	FIXED MARITIME MOBILE US294 459	FIXED US294 459
	190-200 AERONAUTICAL RADIONAVIGATION		190-200	AERONAUTICAL RADIONAVIGATION US18 US226 US294	AERONAUTICAL RADIONAVIGATION US18 US226 US294
255-283.5 BROADCASTING /AERONAUTICAL RADIONAVIGATION/463 462 464	200-275 AERONAUTICAL RADIONAVIGATION Aeronautical Mobile	200-285 AERONAUTICAL RADIONAVIGATION Aeronautical Mobile	200-275	AERONAUTICAL RADIONAVIGATION Aeronautical Mobile US18 US294	AERONAUTICAL RADIONAVIGATION Aeronautical Mobile US18 US294

	275-285 AERONAUTICAL RADIONAVIGATION Aeronautical Mobile Maritime Radionavigation (Radiobeacons)		275-285	AERONAUTICAL RADIONAVIGATION Aeronautical Mobile Maritime Radionavigation (Radiobeacons) US18 US294	AERONAUTICAL RADIONAVIGATION Aeronautical Mobile Maritime Radionavigation (Radiobeacons) US18 US294
283.5-315 MARITIME RADIONAVIGATION (Radiobeacons) 466 /AERONAUTICAL RADIONAVIGATION/ 465 466A	285-315 MARITIME RADIONAVIGATION (Radiobeacons) 466 /AERONAUTICAL RADIONAVIGATION/			MARITIME RADIONAVIGATION (Radiobeacons) Aeronautical Radionavigation (Radiobeacons) US18 US294 G121 466	MARITIME RADIONAVIGATION (Radiobeacons) Aeronautical Radionavigation (Radiobeacons) US18 US294 466
315-325 AERONAUTICAL RADIONAVIGATION Maritime Radionavigation (Radiobeacons) 466 465 467	315-325 MARITIME RADIONAVIGATION (Radiobeacons) 466 Aeronautical Radionavigation	315-325 AERONAUTICAL RADIONAVIGATION MARITIME RADIONAVIGATION (Radiobeacons) 466	285-325		
325-405 AERONAUTICAL RADIONAVIGATION 465	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	AERONAUTICAL RADIONAVIGATION (Radiobeacons) Aeronautical Mobile Maritime Radionavigation (Radiobeacons) US18 US294
	335-405 AERONAUTICAL RADIONAVIGATION Aeronautical Mobile		335-405	AERONAUTICAL RADIONAVIGATION (Radiobeacons) Aeronautical Mobile US18 US294	AERONAUTICAL RADIONAVIGATION (Radiobeacons) Aeronautical Mobile US18 US294
405-415 RADIONAVIGATION 468 465	405-415 RADIONAVIGATION 468 Aeronautical Mobile		405-415	RADIONAVIGATION Aeronautical Mobile US18 US294 468	RADIONAVIGATION Aeronautical Mobile US18 US294 468

415-435 AERONAUTICAL RADIONAVIGATION /MARITIME MOBILE/470 465			415-435	AERONAUTICAL RADIONAVIGATION MARITIME MOBILE US294 469A 470	AERONAUTICAL RADIONAVIGATION MARITIME MOBILE US294 469A 470	
435-495 MARITIME MOBILE 470 Aeronautical Radionavigation 465 471 472A	415-495 MARITIME MOBILE 470 Aeronautical Radionavigation 470A 469 469A 471 472A		435-495	MARITIME MOBILE Aeronautical Radionavigation US231 US294 470 471 472A	MARITIME MOBILE US231 US294 470 471 472A	The frequency 480 kHz is available to low power Government Coast stations for the calibration of ship direction finders on the condition that harmful interference is not caused to the maritime mobile service.
495-505 MOBILE (Distress and Calling) 472			495-505	MOBILE (Distress and Calling) 472	MOBILE (Distress and Calling) 472	500 kHz Distress and Calling
505-526.5 MARITIME MOBILE 470 /AERONAUTICAL RADIONAVIGATION/ 465 471 474 476	505-510 MARITIME MOBILE 470 471	505-526.5 MARITIME MOBILE 470 474 /AERONAUTICAL RADIONAVIGATION/ Aeronautical Mobile Land Mobile 471	505-510	MARITIME MOBILE 470 471	MARITIME MOBILE 470 471	
	510-525 MOBILE 474 AERONAUTICAL RADIONAVIGATION		510-525	AERONAUTICAL RADIONAVIGATION (Radiobeacons) MARITIME MOBILE (Ships Only) US14 US18 US225 474	AERONAUTICAL RADIONAVIGATION (Radiobeacons) MARITIME MOBILE (Ships Only) US14 US18 US225 474	518 kHz is used for international NAVTEX in the maritime mobile service.
	525-535 BROADCASTING			AERONAUTICAL RADIONAVIGATION	AERONAUTICAL RADIONAVIGATION	530 kHz

526.5-1606.5 BROADCASTING	477 AERONAUTICAL RADIONAVIGATION	526.5-535 BROADCASTING Mobile 479	525-535	(Radiobeacons) MOBILE US18 US221 US239	(Radiobeacons) MOBILE US18 US221 US239	Travelers Information Service
478	535-1605 BROADCASTING	535-1606.5 BROADCASTING	535- 1605		BROADCASTING NG128	
1606.5-1625 MARITIME MOBILE 480A /FIXED/ /LAND MOBILE/ 483 484	1605-1625 BROADCASTING 480 480A		1605- 1615	MOBILE US221 480	MOBILE US221 480	1610 kHz Travelers Information Systems
			1615- 1625		BROADCASTING US237 US299 480	Broadcasting implementation is subject to decisions of a future Region 2 Administrative Radio Conference.
1625-1635 RADIOLOCATION 487 485 486	1625-1705 BROADCASTING 480 /FIXED/ /MOBILE/ Radiolocation 480A	1606.5-1800 FIXED MOBILE RADIOLOCATION RADIONAVIGATION 482	1625- 1705	Radiolocation US238 US299 480	BROADCASTING Radiolocation US238 US299 480	
1635-1800 MARITIME MOBILE 480A /FIXED/ /MOBILE/ 483 484 488	1705-1800 FIXED MOBILE RADIOLOCATION AERONAUTICAL RADIONAVIGATION		1705- 1800	FIXED MOBILE RADIOLOCATION US240	FIXED MOBILE RADIOLOCATION US240	
1800-1810 RADIOLOCATION 487 485 486						
	1800-1850 AMATEUR		1800-		AMATEUR	

1810-1850 AMATEUR 490 491 492 493		1800-2000 AMATEUR FIXED MOBILE except aero- nautical mobile RADIONAVIGATION Radiolocation	1900			
1850-2000 FIXED MOBILE except aero- nautical mobile 484 488 495	1850-2000 AMATEUR FIXED MOBILE except aero- nautical mobile RADIOLOCATION RADIONAVIGATION 494	489	1900- 2000	RADIOLOCATION US290	RADIOLOCATION US290	
2000-2025 FIXED MOBILE except aero- nautical mobile (R) 484 495	2000-2065 FIXED MOBILE		2000- 2065	FIXED MOBILE	MARITIME MOBILE NG19	2003 kHz, intership frequency on the Great Lakes.
2025-2045 FIXED MOBILE except aero- nautical mobile (R) Meteorological Aids 496 484 495						
2045-2160 MARITIME MOBILE /FIXED/ /LAND MOBILE/	2065-2107 MARITIME MOBILE 497 498		2065-- 2107	MARITIME MOBILE	MARITIME MOBILE	
			2065- 2068.5	Ship and coast (telephony) 497	Ship and coast (telephony) 497	
			2068.5- 2078.5	Ship (Wide-band telegraphy, facsimile and space transmission systems) US296	Ship (Wide-band telegraphy, facsimile and space transmission systems) US296	

483 484		2078.5-2089.5	Ship and coast (telephony) 497	Ship and coast (telephony) 497	
		2089.5-2092.5	Ship (Calling, telegraphy)	Ship (Calling, telegraphy)	
		2092.5-2107	Ship and coast (telephony) 497	Ship and coast (telephony) 497	
2160-2170 RADIOLOCATION 487 485 486 499	2107-2170 FIXED MOBILE	2107-2170	FIXED MOBILE	FIXED LAND MOBILE MARITIME MOBILE NG19	
2170-2173.5 MARITIME MOBILE		2170-2173.5	MARITIME MOBILE (Telephony)	MARITIME MOBILE (Telephony)	
2173.5-2190.5 MOBILE (Distress and Calling) 500 500A 500B 501		2173.5-2190.5	MOBILE (Distress and calling) US279 500 500A 500B 501	MOBILE (Distress and calling) US279 500 500A 500B 501	2182 kHz Distress and Calling
2190.5-2194 MARITIME MOBILE		2190.5-2194	MARITIME MOBILE (Telephony)	MARITIME MOBILE (Telephony)	
2194-2300 FIXED MOBILE except aeronautical mobile (R) 484 495 502	2194-2300 FIXED MOBILE 502	2194-2495	FIXED MOBILE	FIXED LAND MOBILE MARITIME MOBILE NG19	
2300-2498 FIXED MOBILE except aeronautical mobile (R) BROADCASTING 503 495	2300-2495 FIXED MOBILE BROADCASTING 503				

2498-2501 STANDARD FREQUENCY AND TIME SIGNAL (2500 kHz)	2495-2501 STANDARD FREQUENCY AND TIME SIGNAL (2500 kHz)	2495- 2505	STANDARD FREQUENCY AND TIME SIGNAL (2500 kHz) G106	STANDARD FREQUENCY AND TIME SIGNAL (2500 kHz)	FCC Rules and Regulations make no provisions for licensing of standard frequency stations.
2501-2502 STANDARD FREQUENCY AND TIME SIGNAL Space Research					
2502-2625 FIXED MOBILE except aero- nautical mobile (R) 484 495 504	2502-2505 STANDARD FREQUENCY AND TIME SIGNAL				
2625-2650 MARITIME MOBILE MARITIME RADIONAVIGATION 484	2505-2850 FIXED MOBILE	2505- 2850	FIXED MOBILE US285	FIXED LAND MOBILE MARITIME MOBILE US285	2635 kHz and 2638 kHz intership frequencies
2650-2850 FIXED MOBILE except aero- nautical mobile (R) 484 495					2738 kHz intership frequency except in Gulf of Mexico
2850-3025 AERONAUTICAL MOBILE (R) 501 505		2850- 3025	AERONAUTICAL MOBILE (R) US283 501 505	AERONAUTICAL MOBILE (R) US283 501 505	2830 kHz intership frequency in Gulf of Mexico

3025-3155 AERONAUTICAL MOBILE (OR)			3025-3155	AERONAUTICAL MOBILE (OR)	AERONAUTICAL MOBILE (OR)	Operation in the (OR) bands by Non-Government stations shall be authorized only by special arrangements between the FCC and the IRAC.
3155-3200 FIXED MOBILE except aeronautical mobile (R) 506 507			3155-3230	FIXED MOBILE except aeronautical mobile (R)	FIXED MOBILE except aeronautical mobile (R)	
3200-3230 FIXED MOBILE except aeronautical mobile (R) BROADCASTING 503 506						
3230-3400 FIXED MOBILE except aeronautical mobile BROADCASTING 503 506 508			3230-3400	FIXED MOBILE except aeronautical mobile Radiolocation	FIXED MOBILE except aeronautical mobile Radiolocation	
3400-3500 AERONAUTICAL MOBILE (R)			3400-3500	AERONAUTICAL MOBILE (R) US283	AERONAUTICAL MOBILE (R) US283	
3500-3800 AMATEUR 510 FIXED MOBILE except aeronautical mobile 484	3500-3750 AMATEUR 510 509 511	3500-3900 AMATEUR 510 FIXED MOBILE				

3800-3900 FIXED AERONAUTICAL MOBILE (OR) LAND MOBILE	3750-4000 AMATEUR 510 FIXED MOBILE except aero- nautical mobile (R) 511 512 514 515		3500- 4000	510	AMATEUR 510	
3900-3950 AERONAUTICAL MOBILE (OR) 513		3900-3950 AERONAUTICAL MOBILE BROADCASTING				
3950-4000 FIXED BROADCASTING		3950-4000 FIXED BROADCASTING 516				
4000-4063 FIXED MARITIME MOBILE 517 516			4000- 4063	MARITIME MOBILE US236	MARITIME MOBILE US236	See Section 4.3.13 for use.
			4063- 4438	MARITIME MOBILE	MARITIME MOBILE	
			4063- 4065	Ship stations, oceanographic data transmission	Ship stations, oceanographic data transmission	
			4065- 4146	Ship stations, telephony, duplex operation 520	Ship stations, telephony, duplex operation 520	
			4146- 4152	Ship and coast stations, telephony simplex operation US82	Ship and coast stations, telephony simplex operation US82	

4063-4438
 MARITIME MOBILE 500A 500B 520 520A 520B
 518 519

4152-4172	Ship stations, wide-band telegraphy, facsimile and special transmission systems US296	Ship stations, wide-band telegraphy, facsimile and special transmission systems US296	See Annex H for Maritime Mobile channel use.
4172-4181.75	Ship stations, narrow-band direct-printing telegraphy and data transmission systems (paired frequencies) 500B	Ship stations, narrow-band direct-printing telegraphy and data transmission systems (paired frequencies) 500B	
4181.75-4186.75	Ship stations, A1A Morse telegraphy, calling	Ship stations, A1A Morse telegraphy, calling	
4186.75-4202.25	Ship stations, A1A Morse telegraphy, working	Ship stations, A1A Morse telegraphy, working	
4202.25-4207.25	Ship stations, narrow-band direct-printing telegraphy and A1A Morse telegraphy, working (non-paired frequencies)	Ship stations, narrow-band direct-printing telegraphy and A1A Morse telegraphy, working (non-paired frequencies)	
4207.25-4209.25	Ship stations, digital selective calling 500A	Ship stations, digital selective calling 500A	
4209.25-4219.25	Coast stations, narrow-band direct-printing telegraph data transmission systems (paired frequencies) 520B	Coast stations, narrow-band direct-printing telegraph data transmission systems (paired frequencies) 520B	
4219.25-4221	Coast stations, digital selective calling	Coast stations, digital selective calling	

			4221-4351	Coast stations, wide-band and A1A Morse telegraphy, facsimile, special and data transmission systems and direct-printing telegraphy systems	Coast stations, wide-band and A1A Morse telegraphy, facsimile, special and data transmission systems and direct-printing telegraphy systems	
			4351-4438	Coast stations, telephony, duplex operation	Coast stations, telephony, duplex operation	
4438-4650 FIXED MOBILE except aeronautical mobile (R)	4438-4650 FIXED MOBILE except aeronautical mobile	4438-4650	FIXED MOBILE except aeronautical mobile (R)	FIXED MOBILE except aeronautical mobile (R)		
4650-4700 AERONAUTICAL MOBILE (R)			4650-4700	AERONAUTICAL MOBILE (R) US282 US283	AERONAUTICAL MOBILE (R) US282 US283	
4700-4750 AERONAUTICAL MOBILE (OR)			4700-4750	AERONAUTICAL MOBILE (OR)	AERONAUTICAL MOBILE (OR)	Operations in the (OR) bands by Non-Government stations shall be authorized only by special arrangements between the FCC and the IRAC.
4750-4850 FIXED AERONAUTICAL MOBILE (OR) LAND MOBILE BROADCASTING 503	4750-4850 FIXED MOBILE except aeronautical mobile (R) BROADCASTING 503	4750-4850 FIXED BROADCASTING 503 Land Mobile	4750-4850	FIXED MOBILE except aeronautical mobile (R)	FIXED MOBILE except aeronautical mobile (R)	
4850-4995 FIXED LAND MOBILE BROADCASTING 503			4850-4995	FIXED MOBILE	FIXED	

TABLES OF FREQUENCY ALLOCATIONS

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INTERNATIONAL			UNITED STATES			
Region 1 kHz	Region 2 kHz	Region 3 kHz	Band kHz	Government Allocation	Non-Government Allocation	Remarks
4995-5003 STANDARD FREQUENCY AND TIME SIGNAL (5000 kHz)			4995-5005	STANDARD FREQUENCY AND TIME SIGNAL (5000 kHz) G106	STANDARD FREQUENCY AND TIME SIGNAL (5000 kHz)	FCC Rules and Regulations make no provisions for the licensing of standard frequency stations.
5003-5005 STANDARD FREQUENCY AND TIME SIGNAL Space Research						
5005-5060 FIXED BROADCASTING 503			5005-5060	FIXED	FIXED	
5060-5250 FIXED Mobile except aeronautical mobile 521			5060-5450	FIXED Mobile except aero- nautical mobile US212	FIXED Mobile except aero- nautical mobile US212	
5250-5450 FIXED MOBILE except aeronautical mobile						
5450-5480 FIXED AERONAUTICAL MOBILE (OR) LAND MOBILE	5450-5480 AERONAUTICAL MOBILE (R)	5450-5480 FIXED AERONAUTICAL MOBILE (OR) LAND MOBILE	5450-5680	AERONAUTICAL MOBILE (R) US283 501 505	AERONAUTICAL MOBILE (R) US283 501 505	
5480-5680 AERONAUTICAL MOBILE (R) 501 505						

5680-5730 AERONAUTICAL MOBILE (OR)			5680-5730	AERONAUTICAL MOBILE (OR)	AERONAUTICAL MOBILE (OR)	Operation in the (OR) bands by Non-Government stations shall be authorized only by special arrangements between the FCC and the IRAC.
501 505				501 505	501 505	
5730-5900 FIXED LAND MOBILE	5730-5900 FIXED MOBILE except aeronautical mobile (R)	5730-5900 FIXED Mobile except aeronautical mobile (R)	5730-5950	FIXED MOBILE except aero- nautical mobile (R)	FIXED MOBILE except aero- nautical mobile (R)	
5900-5950 BROADCASTING 521A 521B 521C						
5950-6200 BROADCASTING			5950-6200	BROADCASTING	BROADCASTING	
			6200-6525	MARITIME MOBILE	MARITIME MOBILE	
			6200-6224	Ship stations, telephony, duplex operation 520	Ship stations, telephony, duplex operation 520	
			6224-6233	Ship and coast stations, telephony, simplex operation US82	Ship and coast stations, telephony, simplex operation US82	
			6233-6261	Ship stations, wide-band telegraphy, facsimile and special transmission systems US296	Ship stations, wide-band telegraphy, facsimile and special transmission systems US296	
			6261- 6262.75	Ship stations, oceanographic data transmission	Ship stations, oceanographic data transmission	

6200-6525
MARITIME MOBILE 500A 500B 520 520B
522

6262.75-6275.75	Ship stations, narrow-band direct-printing telegraphy and data transmission systems (paired frequencies) 500B	Ship stations, narrow-band direct-printing telegraphy and data transmission systems (paired frequencies) 500B
6275.75-6280.75	Ship stations, A1A Morse telegraphy, calling	Ship stations, A1A Morse telegraphy, calling
6280.75-6284.75	Ship stations, narrow-band direct-printing telegraphy and data transmission systems (paired frequencies)	Ship stations, narrow-band direct-printing telegraphy and data transmission systems (paired frequencies)
6284.75-6300.25	Ship stations, A1A Morse telegraphy, working	Ship stations, A1A Morse telegraphy, working
6300.25-6311.75	Ship stations, narrow-band direct-printing telegraph and A1A Morse telegraphy, working (non-paired frequencies)	Ship stations, narrow-band direct-printing telegraph and A1A Morse telegraphy, working (non-paired frequencies)
6311.75-6313.75	Ship stations, digital selective calling 500A	Ship stations, digital selective calling 500A
6313.75-6330.75	Coast stations, narrow-band direct-printing telegraphy and data transmission systems (paired frequencies) 520B	Coast stations, narrow-band direct-printing telegraphy and data transmission systems (paired frequencies) 520B
6330.75-6332.5	Coast stations, digital selective calling	Coast stations, digital selective calling

See Annex H for Maritime Mobile channel use.

			6332.5-6501	Coast stations, wide-band and A1A Morse telegraphy, facsimile, special and data transmission systems and direct-printing telegraphy systems	Coast stations, wide-band and A1A Morse telegraphy, facsimile, special and data transmission systems and direct-printing telegraphy systems	
			6501-6525	Coast stations, telephony, duplex operation	Coast stations, telephony, duplex operation	
6525-6685 AERONAUTICAL MOBILE (R)			6525-6685	AERONAUTICAL MOBILE (R) US283	AERONAUTICAL MOBILE (R) US283	
6685-6765 AERONAUTICAL MOBILE (OR)			6685-6765	AERONAUTICAL MOBILE (OR)	AERONAUTICAL MOBILE (OR)	Operation in the (OR) bands by Non-Government stations shall be authorized only by special arrangement between the FCC and the IRAC.
6765-7000 FIXED Land Mobile 525 524			6765-7000	FIXED Mobile 524	FIXED Mobile 524	ISM 6780 15 kHz
7000-7100 AMATEUR 510 AMATEUR-SATELLITE 526 527			7000-7100	510	AMATEUR AMATEUR-SATELLITE 510	
7100-7300 BROADCASTING	7100-7300 AMATEUR 510 528	7100-7300 BROADCASTING	7100-7300	510 528	AMATEUR 510 528	

7300-7350 BROADCASTING 521A 521B 528A	7300-8100	FIXED Mobile	FIXED Mobile	
7350-8100 FIXED Land Mobile 529				
8100-8195 FIXED MARITIME MOBILE	8100-8195	MARITIME MOBILE US236	MARITIME MOBILE US236	See Section 4.3.13 for use.
	8195-8815	MARITIME MOBILE	MARITIME MOBILE	
	8195-8294	Ship stations, telephony, duplex operation 529A	Ship stations, telephony, duplex operation 529A	
	8294-8300	Ship and Coast stations, telephony, simplex operation US82	Ship and Coast stations, telephony, simplex operation US82	
	8300-8340	Ship stations, wide-band telegraphy, facsimile, and special transmission systems US296	Ship stations, wide-band telegraphy, facsimile, and special transmission systems US296	
	8340- 8341.75	Ship stations, oceanographic data transmission	Ship stations, oceanographic data transmission	
	8341.75- 8365.75	Ship stations, A1A Morse telegraphy, working 501	Ship stations, A1A Morse telegraphy, working 501	
	8365.75- 8370.75	Ship stations, A1A Morse telegraphy, calling	Ship stations, A1A Morse telegraphy, calling	

8195-8815 MARITIME MOBILE 500A 500B 520B 529A 501	8370.75-8376.25	Ship stations, A1A Morse telegraphy, working	Ship stations, A1A Morse telegraphy, working	See Annex H for Maritime Mobile channel use.
	8376.25-8396.25	Ship stations, narrow-band direct-printing telegraphy and data transmission systems (paired frequencies) 500B	Ship stations, narrow-band direct-printing telegraphy and data transmission systems (paired frequencies) 500B	
	8396.25-8414.25	Ship stations, narrow-band direct-printing telegraphy and A1A Morse telegraphy, working (non-paired frequencies)	Ship stations, narrow-band direct-printing telegraphy and A1A Morse telegraphy, working (non-paired frequencies)	
	8414.25-8416.25	Ship stations, digital selective calling 500A	Ship stations, digital selective calling 500A	
	8416.25-8436.25	Coast stations, narrow-band direct-printing telegraphy and data transmission systems (paired frequencies) 520B	Coast stations, narrow-band direct-printing telegraphy and data transmission systems (paired frequencies) 520B	
	8436.25-8438	Coast stations, digital selective calling	Coast stations, digital selective calling	
	8438-8707	Coast stations, wide-band and A1A Morse telegraphy, facsimile, special and data transmission systems and direct-printing telegraphy systems	Coast stations, wide-band and A1A Morse telegraphy, facsimile, special and data transmission systems and direct-printing telegraphy systems	
	8707-8815	Coast stations, telephony, duplex operation	Coast stations, telephony, duplex operation	
8815-8965 AERONAUTICAL MOBILE (R)	8815-8965 AERONAUTICAL MOBILE (R)	AERONAUTICAL MOBILE (R)	AERONAUTICAL MOBILE (R)	

8965-9040 AERONAUTICAL MOBILE (OR)	8965-9040	AERONAUTICAL MOBILE (OR)	AERONAUTICAL MOBILE (OR)	Operation in the (OR) bands by Non-Government stations shall be authorized only by special arrangements between the FCC and the IRAC.
9040-9400 FIXED	9040-9500	FIXED	FIXED	
9400-9500 BROADCASTING 521A 521B 529B				
9500-9900 BROADCASTING 530 531	9500-9900	BROADCASTING US235	BROADCASTING US235	
9900-9995 FIXED	9900-9995	FIXED	FIXED	

Frequency Allocation Tables (Below 27.5 MHz) *continued*

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INTERNATIONAL			UNITED STATES			
Region 1 kHz	Region 2 kHz	Region 3 kHz	Band kHz	Government Allocation	Non-Government Allocation	Remarks
9995-10003 STANDARD FREQUENCY AND TIME SIGNAL (10 000 kHz) 501			9995-10005	STANDARD FREQUENCY AND TIME SIGNAL (10 000 kHz)	STANDARD FREQUENCY AND TIME SIGNAL (10 000 kHz)	FCC Rules and Regulations make no provisions for the

10003-10005 STANDARD FREQUENCY AND TIME SIGNAL Space Research 501		501 G106	501	licensing of standard frequency stations.
10005-10100 AERONAUTICAL MOBILE (R) 501	10005-10100	AERONAUTICAL MOBILE (R) US283 501	AERONAUTICAL MOBILE (R) US283 501	
10100-10150 FIXED Amateur 510	10100-10150	US247 510	AMATEUR US247 510	
10150-11175 FIXED Mobile except aeronautical mobile (R)	10150-11175	FIXED Mobile except aero- nautical mobile (R)	FIXED Mobile except aero- nautical mobile (R)	
11175-11275 AERONAUTICAL MOBILE (OR)	11175-11275	AERONAUTICAL MOBILE (OR)	AERONAUTICAL MOBILE (OR)	Operation in the (OR) bands by Non- Government stations shall be authorized only by special arrangement between the FCC and the IRAC.
11275-11400 AERONAUTICAL MOBILE (R)	11275-11400	AERONAUTICAL MOBILE (R) US283	AERONAUTICAL MOBILE (R) US283	
11400-11600 FIXED	11400-11650	FIXED	FIXED	
11600-11650 BROADCASTING 521A 521B 529B				
11650-12050 BROADCASTING 530 531	11650-12050	BROADCASTING US235	BROADCASTING US235	

12050-12100 BROADCASTING 521A 521B 529B	12050-12230	FIXED	FIXED	See Annex H for Maritime Mobile channel use.
12100-12230 FIXED				
12230-13200 MARITIME MOBILE 500A 500B 520B 529A	12230-13200	MARITIME MOBILE	MARITIME MOBILE	
	12230-12353	Ship stations, telephony, duplex operation 529A	Ship stations, telephony, duplex operation 529A	
	12353-12368	Ship and Coast stations, telephony, simplex operation US82	Ship and Coast stations, telephony, simplex operation US82	
	12368-12420	Ship stations, wide-band telegraphy, facsimile and special transmission systems US296	Ship stations, wide-band telegraphy, facsimile and special transmission systems US296	
	12420-12421.75	Ship stations, oceanographic data transmission	Ship stations, oceanographic data transmission	
	12421.75- 12476.75	Ship stations, A1A Morse telegraphy, working	Ship stations, A1A Morse telegraphy, working	
	12476.75- 12549.75	Ship stations, narrow-band direct- printing telegraphy and data transmission systems (paired frequencies) 500B	Ship stations, narrow-band direct- printing telegraphy and data transmission systems (paired frequencies) 500B	
	12549.75- 12554.75	Ship stations, A1A Morse telegraphy, calling	Ship stations, A1A Morse telegraphy, calling	
	12554.75- 12559.75	Ship stations, narrow-band direct- printing telegraphy and data transmission systems (paired frequencies)	Ship stations, narrow-band direct- printing telegraphy and data transmission systems (paired frequencies)	

	12559.75-12576.75	Ship stations, narrow-band direct-printing telegraphy and A1A Morse telegraphy, working (non-paired frequencies)	Ship stations, narrow-band direct-printing telegraphy and A1A Morse telegraphy, working (non-paired frequencies)	
	12576.75-12578.75	Ship stations, digital selective calling 500A	Ship stations, digital selective calling 500A	
	12578.75-12656.75	Coast stations, narrow-band direct-printing telegraphy and data transmission systems (paired frequencies) 520B	Coast stations, narrow-band direct-printing telegraphy and data transmission systems (paired frequencies) 520B	
	12656.75-12658.5	Coast stations, digital selective calling	Coast stations, digital selective calling	
	12658.5-13077	Coast stations, wide-band and A1A Morse telegraphy, facsimile, special and data transmission systems and direct-printing telegraphy systems	Coast stations, wide-band and A1A Morse telegraphy, facsimile, special and data transmission systems and direct-printing telegraphy systems	
	13077-13200	Coast stations, telephony, duplex operation	Coast stations, telephony, duplex operation	
13200-13260 AERONAUTICAL MOBILE (OR)	13200-13260	AERONAUTICAL MOBILE (OR)	AERONAUTICAL MOBILE (OR)	Operation in the (OR) bands by Non-Government stations shall be authorized only by special arrangement between the FCC and the IRAC.
13260-13360 AERONAUTICAL MOBILE (R)	13260-13360	AERONAUTICAL MOBILE (R) US283	AERONAUTICAL MOBILE (R) US283	

13360-13410 FIXED RADIO ASTRONOMY 533	13360-13410	RADIO ASTRONOMY 533 G115	RADIO ASTRONOMY 533	
13410-13570 FIXED Mobile except aeronautical mobile (R) 534	13410-13600	FIXED Mobile except aeronautical mobile (R) 534	FIXED 534	ISM 13560 7 kHz
13570-13600 BROADCASTING 521A 521B 534A				
13600-13800 BROADCASTING 531	13600-13800	BROADCASTING US235	BROADCASTING US235	
13800-13870 BROADCASTING 521A 521B 534A	13800-14000	FIXED Mobile except aeronautical mobile (R)	FIXED	
13870-14000 FIXED Mobile except aeronautical mobile (R)				
14000-14250 AMATEUR 510 AMATEUR-SATELLITE	14000-14250	510	AMATEUR AMATEUR-SATELLITE 510	
14250-14350 AMATEUR 510 535	14250-14350	510	AMATEUR 510	
14350-14990 FIXED Mobile except aeronautical mobile (R)	14350-14990	FIXED Mobile except aeronautical mobile (R)	FIXED	

Frequency Allocation Tables

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INTERNATIONAL			UNITED STATES			
Region 1 kHz	Region 2 kHz	Region 3 kHz	Band kHz	Government Allocation	Non-Government Allocation	Remarks
14990-15005 STANDARD FREQUENCY AND TIME SIGNAL (15 000 kHz)			14990-15010	STANDARD FREQUENCY AND TIME SIGNAL (15 000 kHz)	STANDARD FREQUENCY AND TIME SIGNAL (15 000 kHz)	FCC Rules and Regulations make no provisions for the licensing of standard frequency stations.
501				501 G106	501	
15005-15010 STANDARD FREQUENCY AND TIME SIGNAL Space Research						
15010-15100 AERONAUTICAL MOBILE (OR)			15010-15100	AERONAUTICAL MOBILE (OR)	AERONAUTICAL MOBILE (OR)	Operation in the (OR) bands by Non- Government stations shall be authorized only by special arrangement between the FCC and the IRAC.
15100-15600 BROADCASTING			15100-15600	BROADCASTING	BROADCASTING	
531				US235	US235	
15600-15800 BROADCASTING 521A 521B 529B			15600-16360	FIXED	FIXED	
15800-16360 FIXED 536						
			16360-17410	MARITIME MOBILE	MARITIME MOBILE	

16360-17410 MARITIME MOBILE 500A 500B 520B 529A	16360-16528	Ship stations, telephony, duplex operation 529A	Ship stations, telephony, duplex operation 529A	See Annex H for Maritime Mobile channel use.
	16528-16549	Ship and Coast stations, telephony, simplex operation US82	Ship and Coast stations, telephony, simplex operation US82	
	16549-16617	Ship stations, wide-band telegraphy, facsimile, and special transmission systems US296	Ship stations, wide-band telegraphy, facsimile, and special transmission systems US296	
	16617-16618.75	Ship stations, oceanographic data transmission	Ship stations, oceanographic data transmission	
	16618.75-16683.25	Ship stations, A1A Morse telegraphy, working	Ship stations, A1A Morse telegraphy, working	
	16683.25-16733.75	Ship stations, narrow-band direct-printing telegraphy and data transmission systems (paired frequencies) 500B	Ship stations, narrow-band direct-printing telegraphy and data transmission systems (paired frequencies) 500B	
	16733.75-16738.75	Ship stations, A1A Morse telegraphy, calling	Ship stations, A1A Morse telegraphy, calling	
	16738.75-16784.75	Ship stations, narrow-band direct-printing telegraphy and data transmission systems (paired frequencies)	Ship stations, narrow-band direct-printing telegraphy and data transmission systems (paired frequencies)	
	16784.75-16804.25	Ship stations, narrow-band direct-printing and A1A Morse telegraphy, working (non-paired frequencies)	Ship stations, narrow-band direct-printing and A1A Morse telegraphy, working (non-paired frequencies)	
	16804.25-16806.25	Ship stations, digital selective calling 500A	Ship stations, digital selective calling 500A	

	16806.25-16902.75	Coast stations, narrow-band direct-printing telegraph and data transmission systems (paired frequencies) 520B	Coast stations, narrow-band direct-printing telegraph and data transmission systems (paired frequencies) 520B	
	16902.75-16904.5	Coast stations, digital selective calling	Coast stations, digital selective calling	
	16904.5-17242	Coast stations, wide-band and A1A Morse telegraphy, facsimile, special and data transmission systems and direct-printing telegraphy systems	Coast stations, wide-band and A1A Morse telegraphy, facsimile, special and data transmission systems and direct-printing telegraphy systems	
	17242-17410	Coast stations, telephony, duplex operation	Coast stations, telephony, duplex operation	
17410-17480 FIXED	17410-17550	FIXED	FIXED	
17480-17550 BROADCASTING 521A 521B 529B				
17550-17900 BROADCASTING 531	17550-17900	BROADCASTING US235	BROADCASTING US235	
17900-17970 AERONAUTICAL MOBILE (R)	17900-17970	AERONAUTICAL MOBILE (R) US283	AERONAUTICAL MOBILE (R) US283	
17970-18030 AERONAUTICAL MOBILE (OR)	17970-18030	AERONAUTICAL MOBILE (OR)	AERONAUTICAL MOBILE (OR)	

18030-18052 FIXED				
18052-18068 FIXED Space Research	18030-18068	FIXED		FIXED
18068-18168 AMATEUR 510 AMATEUR-SATELLITE 538	18068-18168	510		AMATEUR AMATEUR-SATELLITE 510
18168-18780 FIXED Mobile except aeronautical mobile	18168-18780	FIXED Mobile		FIXED Mobile
18780-18900 MARITIME MOBILE	18780-18900	MARITIME MOBILE		MARITIME MOBILE
	18780-18825	Ship stations, telephony, duplex operation		Ship stations, telephony, duplex operation
	18825-18846	Ship and Coast stations, telephony, simplex operation US82		Ship and Coast stations, telephony, simplex operation US82
	18846-18870	Ship stations, wide-band telegraphy, facsimile, and special transmission systems US296		Ship stations, wide-band telegraphy, facsimile, and special transmission systems US296
	18870-18892.75	Ship stations, narrow-band direct-printing telegraphy and data transmission systems (paired frequencies)		Ship stations, narrow-band direct-printing telegraphy and data transmission systems (paired frequencies)
	18892.75-18898.25	Ship stations, narrow-band direct-printing telegraphy and A1A Morse telegraphy, working (non-paired frequencies)		Ship stations, narrow-band direct-printing telegraphy and A1A Morse telegraphy, working (non-paired frequencies)
	18898.25-18899.75	Ship stations, digital selective calling		Ship stations, digital selective calling
				See Annex H for Maritime Mobile channel use.

18900-19020 BROADCASTING 521A 521B 529B	18900-19680	FIXED	FIXED	See Annex H for Maritime Mobile channel use.
19020-19680 FIXED				
19680-19800 MARITIME MOBILE 520B	19680-19800	MARITIME MOBILE	MARITIME MOBILE	
	19680.25- 19703.25	Coast stations, narrow-band direct-printing telegraphy and data transmission systems (paired frequencies) 520B	Coast stations, narrow-band direct-printing telegraphy and data transmission systems (paired frequencies) 520B	
	19703.25-19705	Coast stations, digital selective calling	Coast stations, digital selective calling	
	19705-19755	Coast stations, wide-band and A1A Morse telegraphy, facsimile, special and data transmission systems and direct- printing telegraphy systems	Coast stations, wide-band and A1A Morse telegraphy, facsimile, special and data transmission systems and direct- printing telegraphy systems	
19755-19800	Coast stations, telephony, duplex operation	Coast stations, telephony, duplex operation		
19800-19990 FIXED	19800-19990	FIXED	FIXED	

Frequency Allocation Tables (Below 27.5 MHz) *continued*

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INTERNATIONAL			UNITED STATES			
Region 1 kHz	Region 2 kHz	Region 3 kHz	Band kHz	Government Allocation	Non-Government Allocation	Remarks

1990-1995 STANDARD FREQUENCY AND TIME SIGNAL Space Research 501	1990-20010	STANDARD FREQUENCY AND TIME SIGNAL (20 000 kHz) 501 G106	STANDARD FREQUENCY AND TIME SIGNAL (20 000 kHz) 501	FCC Rules and Regulations make no provisions for the licensing of standard frequency stations.
1995-20010 STANDARD FREQUENCY AND TIME SIGNAL (20 000 kHz) 501				
20010-21000 FIXED Mobile	20010-21000	FIXED Mobile	FIXED	
21000-21450 AMATEUR 510 AMATEUR-SATELLITE	21000-21450	510	AMATEUR AMATEUR-SATELLITE 510	
21450-21850 BROADCASTING 531	21450-21850	BROADCASTING US235	BROADCASTING US235	
21850-21870 FIXED 539	21850-21924	FIXED	FIXED	
21870-21924 AERONAUTICAL FIXED				
21924-22000 AERONAUTICAL MOBILE (R)	21924-22000	AERONAUTICAL MOBILE (R)	AERONAUTICAL MOBILE (R)	
	22000-22855	MARITIME MOBILE	MARITIME MOBILE	
	22000-22159	Ship stations, telephony, duplex operation	Ship stations, telephony, duplex operation	

22000-22855 MARITIME MOBILE 520B 540	22159-22180	Ship and Coast stations, telephony, simplex operation US82	Ship and Coast stations, telephony, simplex operation US82	See Annex H for Maritime Mobile channel use.
	22180-22240	Ship stations, wide-band telegraphy, facsimile and special transmission systems US296	Ship stations, wide-band telegraphy, facsimile and special transmission systems US296	
	22240-22241.75	Ship stations, oceanographic data transmission	Ship stations, oceanographic data transmission	
	22241.75- 22279.25	Ship stations, A1A Morse telegraphy, working	Ship stations, A1A Morse telegraphy, working	
	22279.25- 22284.25	Ship stations, A1A Morse telegraphy, calling	Ship stations, A1A Morse telegraphy, calling	
	22284.25- 22351.75	Ship stations, narrow-band direct-printing telegraphy and data transmission systems, working (paired frequencies)	Ship stations, narrow-band direct-printing telegraphy and data transmission systems, working (paired frequencies)	
	22351.75- 22374.25	Ship stations, narrow-band direct-printing telegraphy and A1A Morse telegraphy, working (non-paired frequencies)	Ship stations, narrow-band direct-printing telegraphy and A1A Morse telegraphy, working (non-paired frequencies)	
	22374.25- 22375.75	Ship stations, digital selective calling	Ship stations, digital selective calling	
	22375.75- 22443.75	Coast stations, narrow-band direct-printing telegraphy and data transmission systems (paired frequencies) 520B	Coast stations, narrow-band direct-printing telegraphy and data transmission systems (paired frequencies) 520B	
	22443.75- 22445.5	Coast stations, digital selective calling	Coast stations, digital selective calling	

	22445.5-22696	Coast stations, wide-band and A1A Morse telegraphy, facsimile, special and data transmission and direct-printing telegraphy systems	Coast stations, wide-band and A1A Morse telegraphy, facsimile, special and data transmission and direct-printing telegraphy systems	
	22696-22855	Coast stations, telephony, duplex operation	Coast stations, telephony, duplex operation	
22855-23000 FIXED 540	22855-23000	FIXED	FIXED	
23000-23200 FIXED Mobile except aeronautical mobile (R) 540	23000-23200	FIXED Mobile except aeronautical mobile (R)	FIXED	
23200-23350 AERONAUTICAL FIXED AERONAUTICAL MOBILE (OR)	23200-23350	AERONAUTICAL MOBILE (OR)	AERONAUTICAL MOBILE (OR)	Operation in the (OR) bands by Non-Government stations shall be authorized only by special arrangement between the FCC and the IRAC.
23350-24000 FIXED MOBILE except aeronautical mobile 541 542	23350-24890	FIXED MOBILE except aeronautical mobile	FIXED	
24000-24890 FIXED LAND MOBILE 542				
24890-24990 AMATEUR 510 AMATEUR-SATELLITE 542	24890-24990	510	AMATEUR AMATEUR-SATELLITE 510	

24990-25005 STANDARD FREQUENCY AND TIME SIGNAL (25 000 kHz)	24990-25010	STANDARD FREQUENCY AND TIME SIGNAL (25 000 kHz)	STANDARD FREQUENCY AND TIME SIGNAL (25 000 kHz)	
25005-25010 STANDARD FREQUENCY AND TIME SIGNAL Space Research		G106		
25010-25070 FIXED MOBILE except aeronautical mobile	25010-25070		LAND MOBILE NG112	25.02-25.06 kHz Industrial
25070-25210 MARITIME MOBILE	25070-25210	MARITIME MOBILE US281	MARITIME MOBILE US281 NG112	See Annex H for Maritime Mobile channel use.
	25070-25100	Ship stations, telephony, duplex operation	Ship stations, telephony, duplex operation	
	25100-25121	Ship and Coast stations, telephony, simplex operation US82	Ship and Coast stations, telephony, simplex operation US82	
	25121-25161.25	Ship stations, wide-band telegraphy, facsimile, and special transmission systems US296	Ship stations, wide-band telegraphy, facsimile, and special transmission systems US296	
	25161.25-25171.25	Ship stations, A1A Morse telegraphy, working	Ship stations, A1A Morse telegraphy, working	
	25171.25-25172.75	Ship stations, A1A Morse telegraphy, calling	Ship stations, A1A Morse telegraphy, calling	
	25172.75-25192.75	Ship stations, narrow-band direct-printing telegraphy and data transmission systems (paired frequencies)	Ship stations, narrow-band direct-printing telegraphy and data transmission systems (paired frequencies)	

	25192.75-25208.25	Ship stations, narrow-band direct-printing telegraphy and data transmission systems (non-paired frequencies)	Ship stations, narrow-band direct-printing telegraphy and data transmission systems (non-paired frequencies)	
	25208.25-25210	Ship stations, digital selective calling	Ship stations, digital selective calling	
25210-25550 FIXED MOBILE except aeronautical mobile	25210-25330		LAND MOBILE	25.12-25.32 kHz Industrial
	25330-25550	FIXED MOBILE except aeronautical mobile		
25550-25670 RADIO ASTRONOMY 545	25550-25670	RADIO ASTRONOMY US74 545	RADIO ASTRONOMY US74 545	
25670-26100 BROADCASTING	25670-26100	BROADCASTING US25	BROADCASTING US25	International broadcasting
26100-26175 MARITIME MOBILE 520B	26100-26175	MARITIME MOBILE	MARITIME MOBILE	See Annex H for Maritime Mobile channel use.
	26100.25-26120.75	Coast stations, narrow-band direct-printing telegraphy and data transmission systems (paired frequencies) 520B	Coast stations, narrow-band direct-printing telegraphy and data transmission systems (paired frequencies) 520B	
	26120.75-26122.5	Coast stations, digital selective calling	Coast stations, digital selective calling	
	26122.5-26145	Coast stations, wide-band and A1A Morse telegraphy, facsimile, special and data transmission systems and direct-printing telegraphy systems	Coast stations, wide-band and A1A Morse telegraphy, facsimile, special and data transmission systems and direct-printing telegraphy systems	
	26145-26175	Coast stations, telephony, duplex operation	Coast stations, telephony, duplex operation	
	26175-26480		LAND MOBILE	

26175-27500 FIXED MOBILE except aeronautical mobile 546	26480-26950	FIXED MOBILE except aero- nautical mobile US10	US10	
	26950-26960	546	FIXED 546	26.955 kHz International fixed public
	26960-27230	546	MOBILE except aero- nautical mobile 546	ISM 27120 160 kHz
	27230-27410	546	FIXED MOBILE except aero- nautical mobile 546	ISM 27120 160 kHz Personal Public Safety Industrial Land Transportation

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US And International Tables Of Frequency Allocations (Rev.9/95)

This table is the frequency chart for the US and International assigned and allocated frequencies below 27.500 megahertz. It requires a browser capable of viewing HTML tables (such as Netscape version 1.1 or greater, or Internet Explorer 1.1 or greater). Because of the extreme size of this chart, you will have to use the scroll bars to see all of it vertically and horizontally. You may also wish to see the tables that include [a general introduction to all of the frequency information](#), [frequencies below 27.5 MHz](#) and [frequencies above 10 GHz](#). There are also [footnotes covering US, International, government and non-government information](#).

TABLES OF FREQUENCY ALLOCATIONS (27.5 - 10000 MHz)

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INTERNATIONAL			UNITED STATES			
Region 1 MHz	Region 2 MHz	Region 3 MHz	Band MHz	Government Allocation	Non-Government Allocation	Remarks
27.5-28 METEOROLOGICAL AIDS FIXED MOBILE			27.41- 27.54		LAND MOBILE	Industrial
			27.54-28	FIXED MOBILE US298	US298	
28-29.7 AMATEUR AMATEUR-SATELLITE			28-29.7		AMATEUR AMATEUR-SATELLITE	
29.7-30.005 FIXED MOBILE			29.7-29.8		LAND MOBILE	Industrial
			29.8-29.89		FIXED	29.81-29.88 MHz Aeronautical fixed International fixed public

	29.89-29.91	FIXED MOBILE		See Section 4.3.6 of the NTIA Manual for Channeling Plan.
	29.91-30		FIXED	29.92-29.99 MHz Aeronautical fixed International fixed public
30.005-30.01 FIXED MOBILE SPACE RESEARCH SPACE OPERATION (satellite identification)	30-30.56	FIXED MOBILE		See Section 4.3.6 of the NTIA Manual for Channeling Plan.
	30.56-32		LAND MOBILE NG124	Industrial Land Transportation Public Safety
	32-33	FIXED MOBILE		See Section 4.3.6 of the NTIA Manual for Channeling Plan.
	33-34		LAND MOBILE NG124	33.00-33.01 MHz Land Transportation 33.01-33.11 MHz Public Safety 33.11-33.41 MHz Industrial 33.41-34 MHz Public Safety
30.01-37.5 FIXED MOBILE				

	34-35	FIXED MOBILE		See Section 4.3.6 of the NTIA Manual for Channeling Plan.
	35-36		LAND MOBILE NG124	35.00-35.19 MHz Industrial 35.19-35.69 MHz Domestic Public Industrial Public Safety 35.69-36.00 MHz Industrial
	36-37	FIXED MOBILE US220	US220	See Section 4.3.6 of the NTIA Manual for Channeling Plan.
	37-37.5		LAND MOBILE NG124	37.00-37.01 MHz Industrial 37.01-37.43 MHz Public Safety 37.43-37.5 MHz Industrial
37.5-38.25 FIXED MOBILE Radio Astronomy 547	37.5-38	Radio Astronomy 547	LAND MOBILE Radio Astronomy 547 NG59 NG124	37.50-37.89 MHz Industrial 37.89-38.00 Public Safety
	38-38.25	FIXED MOBILE RADIO ASTRONOMY US81 547	RADIO ASTRONOMY US81 547	See Section 4.3.6 of the NTIA Manual for Channeling Plan.
38.25-39.986 FIXED MOBILE	38.25-39	FIXED MOBILE		See Section 4.3.6 of the NTIA Manual for Channeling Plan.

<p>39.986-40.02 FIXED MOBILE Space Research</p>	<p>39-40</p>		<p>LAND MOBILE NG124</p>	<p>Public Safety</p>
<p>40.02-40.98 FIXED MOBILE 548</p>	<p>40-42</p>	<p>FIXED MOBILE US210 US220 548</p>	<p>US210 US220 548</p>	<p>See Section 4.3.6 of the NTIA Manual for Channeling Plan. ISM 40.68 0.02 MHz</p>
<p>40.98-41.015 FIXED MOBILE Space Research 549 550</p>				
<p>44-47 FIXED MOBILE 552</p>	<p>46.6-47</p>	<p>FIXED MOBILE</p>		<p>See Section 4.3.6 of the NTIA Manual for Channeling Plan.</p>

47-68 BROADCASTING 553 554 555 559 561	47-50 FIXED MOBILE	47-50 FIXED MOBILE BROADCASTING	47-49.6		LAND MOBILE NG124	47.00-47.43 MHz Public safety 47.43-47.69 MHz Public Safety Industrial 47.69-49.60 Industrial
			49.6-50	FIXED MOBILE		See Section 4.3.6 of the NTIA Manual for Channeling Plan.
	50-54 AMATEUR 556 557 558 560		50-54		AMATEUR	
	54-68 BROADCASTING Fixed Mobile 562	54-68 FIXED MOBILE BROADCASTING	54-72		BROADCASTING NG128 NG149	Television broadcasting
68-74.8 FIXED MOBILE except aero- nautical mobile 564 565 567 568 571 572	68-72 BROADCASTING Fixed Mobile 563					
	72-73 FIXED MOBILE	68-74.8 FIXED MOBILE	72-73		FIXED MOBILE NG3 NG49 NG56	72.02-72.98 MHz Operational fixed
	73-74.6 RADIO ASTRONOMY 570	566 568 571 572	73-74.6	RADIO ASTRONOMY US74	RADIO ASTRONOMY US74	
	74.6-74.8 FIXED MOBILE 572		74.6-74.8	FIXED MOBILE US273 572	FIXED MOBILE US273 572	

74.8-75.2 AERONAUTICAL RADIONAVIGATION 572 572A			74.8-75.2	AERONAUTICAL RADIONAVIGATION 572	AERONAUTICAL RADIONAVIGATION 572	75 MHz Marker beacons.
75.2-87.5 FIXED MOBILE except aero- nautical mobile 565 571 572 575 578	75.2-75.4 FIXED MOBILE 571 572		75.2-75.4	FIXED MOBILE US273 572	FIXED MOBILE US273 572	
	75.4-76 FIXED MOBILE	75.4-87 FIXED MOBILE 573 575 577 579	75.4-76		FIXED MOBILE NG3 NG49 NG56	75.42-75.98 MHz Operational Fixed
	76-88 BROADCASTING Fixed Mobile	87-100 FIXED MOBILE BROADCASTING 580	76-88	576	BROADCASTING 576 NG128 NG129 NG149	Television broadcasting
	87.5-100 BROADCASTING 581		88-100 BROADCASTING			
100-108 BROADCASTING 584 585 586 587 588 589			88-108	US93	BROADCASTING US93 NG2 NG128 NG129	FM broadcasting
108-117.975 AERONAUTICAL RADIONAVIGATION 590A			108- 117.975	AERONAUTICAL RADIONAVIGATION US93	AERONAUTICAL RADIONAVIGATION US93	
			117.975- 121.9375	AERONAUTICAL MOBILE (R) US26 US28 501 591 592 593	AERONAUTICAL MOBILE (R) US26 US28 501 591 592 593	
			121.9375- 123.0875	US30 US31 US33 US80 US102 US213 591	AERONAUTICAL MOBILE US30 US31 US33 US80 US102 US213 591	Private aircraft

117.975-136 AERONAUTICAL MOBILE (R) 501 591 592 593 594	123.0875- 123.5875	AERONAUTICAL MOBILE US32 US33 US112 591 593	AERONAUTICAL MOBILE US32 US33 US112 591 593	123.1 MHz for SAR Scene-of Action communications (See Section 7.5.4 of the NTIA Manual)
	123.5875- 128.8125	AERONAUTICAL MOBILE (R) US26 591	AERONAUTICAL MOBILE (R) US26 591	
	128.8125- 132.0125	 591	AERONAUTICAL MOBILE (R) 591	
	132.0125- 136.00	AERONAUTICAL MOBILE (R) US26 591	AERONAUTICAL MOBILE (R) US26 591	
136-137 AERONAUTICAL MOBILE (R) Fixed Mobile except aeronautical mobile (R) 591 594A 595	136-137	 US244 591	AERONAUTICAL MOBILE (R) US244 591	
137-137.025 SPACE OPERATION (space-to-Earth) METEOROLOGICAL-SATELLITE (space-to-Earth) SPACE RESEARCH (space-to-Earth) MOBILE-SATELLITE (space-to-Earth) 599B Fixed Mobile except aeronautical mobile(R) 596 597 598 599 599A	137- 137.025 599A	SPACE OPERATION (space-to-Earth) METEOROLOGICAL SATELLITE (space-to-Earth) SPACE RESEARCH (space-to-Earth) MOBILE-SATELLITE (space-to-Earth) US319 US320 599B US318 599A	SPACE OPERATION (space-to-Earth) METEOROLOGICAL SATELLITE (space-to-Earth) SPACE RESEARCH (space-to-Earth) MOBILE-SATELLITE (space-to-Earth) US319 US320 599B US318 599A	

<p>137.025-137.175 SPACE OPERATION (space-to-Earth) METEOROLOGICAL-SATELLITE (space-to-Earth) SPACE RESEARCH (space-to-Earth) Fixed Mobile-Satellite (space-to-Earth) 599B Mobile except aeronautical mobile (R)</p> <p>596 597 598 599 599A</p>	<p>137.025- 137.175</p>	<p>SPACE OPERATION (space-to-Earth) METEOROLOGICAL SATELLITE (space-to-Earth) SPACE RESEARCH (space-to-earth) Mobile-Satellite (space-to-Earth)</p> <p>US319 US320 599B</p> <p>US318 599A</p>	<p>SPACE OPERATION (space-to-Earth) METEOROLOGICAL- SATELLITE (space-to-Earth) SPACE RESEARCH (space-to-Earth) Mobile-Satellite (space-to-Earth)</p> <p>US319 US320 599B</p> <p>US318 599A</p>
<p>137.175-137.825 SPACE OPERATION (space-to-Earth) METEOROLOGICAL-SATELLITE (space-to-Earth) SPACE RESEARCH (space-to-Earth) MOBILE-SATELLITE (space-to-Earth) 599B Fixed Mobile except aeronautical mobile (R)</p> <p>596 597 598 599 599A</p>	<p>137.175- 137.825</p>	<p>SPACE OPERATION (space-to-Earth) METEOROLOGICAL SATELLITE (space-to-Earth) SPACE RESEARCH (space-to-Earth) MOBILE-SATELLITE (space-to-Earth)</p> <p>US319 US320 599B</p> <p>US318 599A</p>	<p>SPACE OPERATION (space-to-Earth) METEOROLOGICAL SATELLITE (space-to-Earth) SPACE RESEARCH (space-to-Earth) MOBILE-SATELLITE (space-to-Earth)</p> <p>US319 US320 599B</p> <p>US318 599A</p>

137.825-138 SPACE OPERATION (space-to-Earth) METEOROLOGICAL-SATELLITE (space-to-Earth) SPACE RESEARCH (space-to-Earth) Fixed Mobile-Satellite (space-to-Earth) 599B Mobile except aeronautical mobile (R)			137.825-138	SPACE OPERATION (space-to-Earth) METEOROLOGICAL-SATELLITE (space-to-Earth) SPACE RESEARCH (space-to-Earth) Mobile-Satellite (space-to-Earth)	SPACE OPERATION (space-to-Earth) METEOROLOGICAL-SATELLITE (space-to-Earth) SPACE RESEARCH (space-to-Earth) Mobile-Satellite (space-to-Earth)
596 597 598 599 599A				US319 US320 599B US318 599A	US319 US320 599B US318 599A
138-143.6 AERONAUTICAL MOBILE (OR) 600 601 602 604	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	US10
143.6-143.65 AERONAUTICAL MOBILE (OR) SPACE RESEARCH (space-to-Earth)	143.6-143.65 FIXED MOBILE SPACE RESEARCH (space-to-Earth) /RADIOLOCATION/	143.6-143.65 FIXED MOBILE SPACE RESEARCH (space-to-Earth)			
601 602 604		599 603			
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	US10
600 601 602 604		599 603			

144-146 AMATEUR 510 AMATEUR-SATELLITE			144-146		AMATEUR AMATEUR-SATELLITE	
605 606				510	510	
146-148 FIXED MOBILE except aeronautical mobile (R)	146-148 AMATEUR 607	146-148 AMATEUR FIXED MOBILE 607	146-148		AMATEUR	
148-149.9 FIXED MOBILE except aeronautical mobile (R) MOBILE- SATELLITE (Earth- to-space) 599B	148-149.9 FIXED MOBILE MOBILE-SATELLITE (Earth-to-space) 599B 608 608A 608C		148-149.9	FIXED MOBILE MOBILE-SATELLITE (Earth-to-space) 599B US319 US320 US323 US325 608 608A US10 G30	MOBILE-SATELLITE (Earth-to-space) 599B US319 US320 US323 US325 608 608A US10	
149.9-150.05 RADIONAVIGATION-SATELLITE LAND MOBILE-SATELLITE (Earth-to-space) 599B 609B			149.9- 150.05	RADIONAVIGATION SATELLITE MOBILE SATELLITE (Earth-to-space) 599B US319 US322 608B 609A	RADIONAVIGATION SATELLITE MOBILE SATELLITE (Earth-to-space) 599B US319 US322 608B 609A	
608B 609 609A						
150.05-153 FIXED MOBILE except aero- nautical mobile RADIO ASTRONOMY			150.05- 150.8	FIXED MOBILE US216 G30	US216	
610						
						150.80-150.98

<p>153-154 FIXED MOBILE except aeronautical mobile (R) Meteorological Aids</p>	<p>150.05-156.7625 FIXED MOBILE 611 613 613A</p>	<p>150.8-156.2475</p>	<p>US216 613</p>	<p>LAND MOBILE US216 613 NG4 NG51 NG112 NG117 NG124 NG148</p>	<p>MHz Land Transportation 150.98-151.4825 MHz Public Safety 151.4825-151.4975 MHz Industrial 151.4975-152.000 MHz Industrial Public Safety 152.00-152.255 MHz Domestic Public 152.255-152.465 MHz Land Transportation 152.465-152.495 MHz Industrial 152.495-152.855 MHz Domestic Public 152.885-153.7325 MHz Industrial 153.7325-154.4825 MHz Industrial Public Safety 154.2 MHz Earth Telecommand 154.4825-154.6375 MHz Industrial 154.6375-156.2475 MHz Public Safety</p>
<p>154-156.7625 FIXED MOBILE except aeronautical mobile (R) 613 613A</p>					

156.7625-156.8375 MARITIME MOBILE (Distress and Calling) 501 613		156.2475-157.0375	US77 US106 US107 US266 613	MARITIME MOBILE US77 US106 US107 US266 613 NG117	
156.8375-174 FIXED MOBILE except aero- nautical mobile 613 613B 615	156.8375-174 FIXED MOBILE 613 616 617 618	157.0375-157.1875	MARITIME MOBILE US214 US266 613 G109	US214 US266 613	
		157.1875-157.45	US223 US266 613	MARITIME MOBILE US223 US266 613 NG111	
		157.45-161.575	US266 613	LAND MOBILE US266 613 NG6 NG28 NG70 NG111 NG112 NG124 NG148	157.45-157.725 MHz Land Transportation 157.725-157.755 MHz Industrial 157.755-158.115 MHz Domestic Public 158.115-158.475 MHz Industrial 158.715-159.480 Public Safety 159.480-161.575 MHz Land Transportation
		161.575-161.625	US77 613	MARITIME MOBILE US77 613 NG6 NG17	
		161.625-161.775	613	LAND MOBILE 613 NG6	Remote pickup broadcast

		161.775-162.0125	US266 613	MARITIME MOBILE US266 613 NG6	
		162.0125-173.2	FIXED MOBILE US8 US11 US13 US216 US223 US300 US312 613 G5	US8 US11 US13 US216 US223 US300 US312 613	The Channeling Plan for assignments in this band is shown in Section 4.3.7 of the NTIA Manual.
		173.2-173.4		FIXED Land Mobile NG124	Industrial Public Safety
		173.4-174	FIXED MOBILE G5		The Channeling Plan of assignments in this band is shown in Section 4.3.7 of the NTIA Manual.

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INTERNATIONAL			UNITED STATES			
Region 1 MHz	Region 2 MHz	Region 3 MHz	Band MHz	Government Allocation	Non-Government Allocation	Remarks
174-223 BROADCASTING 621 623 628 629	174-216 BROADCASTING Fixed Mobile 620	174-223 FIXED MOBILE BROADCASTING 619 624 625 626 630	174-216		BROADCASTING NG115 NG128 NG149	Television broadcasting

	216-220 FIXED MARITIME MOBILE Radiolocation 627 627A		216-220	MARITIME MOBILE Aeronautical Mobile Fixed Land Mobile Radiolocation US210 US229 US274 US317 627 G2	MARITIME MOBILE Aeronautical Mobile Fixed Land Mobile US210 US229 US274 US317 627 NG152	
			220-222	LAND MOBILE Radiolocation 627 G2	LAND MOBILE 627	The Channeling Plan for Land Mobile assignments in this band is shown in Section 4.3.15 of the NTIA Manual.
223-230 BROADCASTING Fixed Mobile 622 628 629 631 632 635	220-225 AMATEUR FIXED MOBILE Radiolocation 627	223-230 FIXED MOBILE BROADCASTING AERONAUTICAL RADIONAVIGATION Radiolocation 636 637	222-225	Radiolocation 627 G2	AMATEUR 627	
230-235 FIXED MOBILE 629 632 635 638 639	225-235 FIXED MOBILE	230-235 FIXED MOBILE AERONAUTICAL RADIONAVIGATION 637				
235-267 FIXED MOBILE 501 592 635 640 641 642						

267-272 FIXED MOBILE Space Operation (space-to-Earth) 641 643	225- 328.6	FIXED MOBILE 501 592 642 644 G27 G100	501 592 642 644	The FAA provides air traffic control communications to the military services on selected frequencies in this band.
272-273 SPACE OPERATION (space-to-Earth) FIXED MOBILE 641				
273-312 FIXED MOBILE 641				
312-315 FIXED MOBILE Mobile-Satellite (Earth-to-space) 641 641A				
315-322 FIXED MOBILE 641				
322-328.6 FIXED MOBILE RADIO ASTRONOMY 644				
328.6-335.4 AERONAUTICAL RADIONAVIGATION 645 645A	328.6- 335.4	AERONAUTICAL RADIONAVIGATION 645	AERONAUTICAL RADIONAVIGATION 645	

<p>335.4-387 FIXED MOBILE</p> <p>641</p>	<p>335.4- 399.9</p>	<p>FIXED MOBILE</p> <p>G27 G100</p>		<p>The FAA provides air traffic control communications to the military services on selected frequencies in this band.</p>
<p>387-390 FIXED MOBILE Mobile-Satellite (space-to-Earth) 641 641A</p>				
<p>390-399.9 FIXED MOBILE</p> <p>641</p>				
<p>399.9-400.05 RADIONAVIGATION-SATELLITE</p> <p>609 645B</p>	<p>399.9- 400.05</p>	<p>399.9-400.05 RADIONAVIGATION-SATELLITE MOBILE-SATELLITE (Earth-to-space) US319 US326</p> <p>645B</p>	<p>399.9-400.05 RADIONAVIGATION-SATELLITE MOBILE-SATELLITE (Earth-to-space) US319 US326</p> <p>645B</p>	
<p>400.05-400.15 STANDARD FREQUENCY AND TIME SIGNAL-SATELLITE (400.1 MHz)</p> <p>646 647</p>	<p>400.05- 400.15</p>	<p>STANDARD FREQUENCY AND TIME SIGNAL-SATELLITE (400.1 MHz)</p> <p>646</p>	<p>STANDARD FREQUENCY AND TIME SIGNAL-SATELLITE (400.1 MHz)</p> <p>646</p>	
<p>400.15-401 METEOROLOGICAL AIDS METEOROLOGICAL-SATELLITE (space-to-Earth) SPACE RESEARCH (space-to-Earth) 647A MOBILE-SATELLITE (space-to-Earth) 599B Space Operation (space-to-Earth)</p>	<p>400.15- 401</p>	<p>METEOROLOGICAL AIDS (radiosonde) METEOROLOGICAL SATELLITE (space-to-Earth) SPACE RESEARCH (space-to-Earth) 647A MOBILE-SATELLITE (space-to-Earth) 599B US319</p>	<p>METEOROLOGICAL AIDS (radiosonde) SPACE RESEARCH (space-to-Earth) 647A MOBILE-SATELLITE (space-to-Earth) 599B US319 US320 US324 Space Operation (space-to-Earth)</p>	<p>SATELLITE COMMUNICATION (25)</p>

647 647B		US320 US324 Space Operation (space-to-Earth) 647 647B US70	647 647B US70	
401-402 METEOROLOGICAL AIDS SPACE OPERATION (space-to-Earth) Earth Exploration-Satellite (Earth-to-space) Fixed Meteorological-Satellite (Earth-to-space) Mobile except aeronautical mobile	401-402	METEOROLOGICAL AIDS (Radiosonde) SPACE OPERATION (space-to-Earth) Earth Exploration-Satellite (Earth-to-space) Meteorological-Satellite (Earth-to-space) US70	METEOROLOGICAL AIDS (Radiosonde) SPACE OPERATION (space-to-Earth) Earth Exploration-Satellite (Earth-to-space) Meteorological-Satellite (Earth-to-space) US70	
402-403 METEOROLOGICAL AIDS Earth Exploration-Satellite (Earth-to-space) Fixed Meteorological-Satellite (Earth-to-space) Mobile except aeronautical mobile	402-403	METEOROLOGICAL AIDS (Radiosonde) Earth Exploration-Satellite (Earth-to-space) Meteorological-Satellite (Earth-to-space) US70	METEOROLOGICAL AIDS (Radiosonde) Earth Exploration-Satellite (Earth-to-space) Meteorological-Satellite (Earth-to-space) US70	
403-406 METEOROLOGICAL AIDS Fixed Mobile except aeronautical mobile 648	403-406	METEOROLOGICAL AIDS (Radiosonde) US70 G6	METEOROLOGICAL AIDS (Radiosonde) US70	
406-406.1 MOBILE-SATELLITE (Earth-to-space) 649 649A	406-406.1	MOBILE-SATELLITE (Earth-to-space) 649 649A	MOBILE-SATELLITE (Earth-to-space) 649 649A	Satellite Emergency Position Indicating Radiobeacon (EPIRB).

406.1-410 FIXED MOBILE except aeronautical mobile RADIO ASTRONOMY 648 650		406.1-410	FIXED MOBILE RADIO ASTRONOMY US13 US74 US117 G5 G6	RADIO ASTRONOMY US13 US74 US117	The Channeling Plan for assignments in these bands are shown in Section 4.3.9 of the NTIA Manual.
410-420 FIXED MOBILE except aeronautical mobile Space Research (space-to-space) 651A		410-420	FIXED MOBILE Space Research (space-to-space) US13 G5 651A	US13	
420-430 FIXED MOBILE except aeronautical mobile Radiolocation 651 652 653		420-450	RADIOLOCATION US7 US87 US217 US228 US230 664 668 G2 G8	Amateur US7 US87 US217 US228 US230 664 668 NG135	
430-440 AMATEUR RADIOLOCATION 653 654 655 656 657 658 659 661 662 663 664 665	430-440 RADIOLOCATION Amateur 653 658 659 660 660A 663 664				
440-450 FIXED MOBILE except aeronautical mobile Radiolocation 651 652 653 666 667 668					

<p>450-460 FIXED MOBILE 653 668 669 670</p>	<p>450-460</p>	<p>US87 668 669 670</p>	<p>LAND MOBILE US87 668 669 670 NG12 NG112 NG124 NG148</p>	<p>450-451 MHz Remote pickup broadcast 451-454 MHz Public Safety Industrial Land Transportation 454-455 MHz Domestic Public 455-456 MHz Remote pickup broadcast 456-459 MHz Public Safety Industrial Land Transportation 459-460 MHz Domestic Public</p>
<p>460-470 FIXED MOBILE Meteorological-Satellite (space-to-Earth) 669 670 671 672</p>	<p>460-470</p>	<p>Meteorological-Satellite (space-to-Earth) US201 US209 US216 669 670 671</p>	<p>LAND MOBILE US201 US209 US216 669 670 671 NG124</p>	<p>460-462.5375 MHz Public Safety Industrial Land Transportation 462.5375-462.7375 MHz Personal 462.7375-467.5375 MHz Public Safety Industrial Land Transportation 467.5375-467.7375 MHz Personal 467.7375-470 MHz Public Safety Industrial Land Transportation</p>

470-790 BROADCASTING 676 677A 683 684 685 686 686A 687 689 693 694	470-512 BROADCASTING Fixed Mobile 674 675	470-585 FIXED MOBILE BROADCASTING 673 677 679	470-512		BROADCASTING LAND MOBILE NG66 NG114 NG127 NG128 NG149	Broadcasting Public Safety Industrial Land Transportation Domestic Public
	512-608 BROADCASTING 678	585-610 FIXED MOBILE BROADCASTING RADIONAVIGATION	512-608		BROADCASTING NG128 NG149	Television broadcasting
	608-614 RADIO ASTRONOMY Mobile-Satellite except aeronauti- cal mobile-satel- lite (Earth- to-space)	688 689 690	608-614	RADIO ASTRONOMY US74 US246	RADIO ASTRONOMY US74 US246	
	614-806 BROADCASTING Fixed Mobile 675 692 692A 693	610-890 FIXED MOBILE BROADCASTING 677 688 689 690 691 693 701	614-806		BROADCASTING NG30 NG43 NG128 NG149	
	806-890 FIXED MOBILE BROADCASTING 692A 700 700A					806-821 MHz Conventional and Trunked Systems 821-824 MHz Public Safety 824-825 MHz Cellular 825-849 MHz Cellular 849-851 MHz Reserve

<p>862-890 FIXED MOBILE except aero- nautical mobile BROADCASTING 703 700B 704</p>			<p>806-902</p>	<p>US116 US268 704A G2</p>	<p>LAND MOBILE US116 US268 704A NG30 NG43 NG63 NG151</p>	<p>851-866 MHz Conventional and Trunked Systems 866-869 MHz Public Safety 869-870 MHz Cellular 890-894 MHz Cellular 894-896 MHz Reserve 896-901 MHz Private Land Mobile 901-902 MHz Reserve</p>
	<p>890-902 FIXED MOBILE except aero- nautical mobile Radiolocation 700A 704A 705</p>					
<p>890-942 FIXED MOBILE except aero- nautical mobile BROADCASTING 703 Radiolocation</p>	<p>902-928 FIXED Amateur Mobile except aero- nautical mobile Radiolocation 705 707 707A</p>	<p>890-942 FIXED MOBILE BROADCASTING Radiolocation</p>	<p>902-928</p>	<p>RADIOLOCATION US215 US218 US267 US275 707 G11 G59</p>	<p>US215 US218 US267 US275 707</p>	<p>ISM 915 13 MHz</p>
<p>704</p>	<p>928-942</p>	<p>706</p>	<p>928-929</p>	<p>US116 US215 US268 G2</p>	<p>FIXED US116 US215 US268 NG120</p>	
			<p>929-932</p>	<p>US116 US215 US268 G2</p>	<p>LAND MOBILE US116 US215 US268 NG120</p>	

	FIXED MOBILE except aero- nautical mobile Radiolocation 705		932-935	FIXED US215 US268 G2	FIXED US215 US268 NG120	The Channeling Plan for assignments in this band is shown in Section 4.3.14 of the NTIA Manual.
			935-940	US116 US215 US268 G2	LAND MOBILE US116 US215 US268 N120	
			940-941	US116 US268 G2	MOBILE US116 US268	
942-960 FIXED MOBILE except aero- nautical mobile BROADCASTING 703 704	942-960 FIXED MOBILE	942-960 FIXED MOBILE BROADCASTING 701	941-944	FIXED US268 US301 US302 G2	FIXED US268 US301 US302 NG64 NG120	The Channeling Plan for assignments in this band is shown in Section 4.3.14 of the NTIA Manual.
			944-960		FIXED NG64 NG120	
960-1215 AERONAUTICAL RADIONAVIGATION 709			960- 1215	AERONAUTICAL RADIONAVIGATION US224 709	AERONAUTICAL RADIONAVIGATION US224 709	
1215-1240 RADIOLOCATION RADIONAVIGATION-SATELLITE (space-to-Earth) 710 711 712 712A 713			1215- 1240	RADIOLOCATION RADIONAVIGATION- SATELLITE (space- to-Earth) 713 G56	713	
1240-1260 RADIOLOCATION RADIONAVIGATION-SATELLITE (space-to-Earth) 710 Amateur 711 712 712A 713 714			1240- 1300	RADIOLOCATION 664 713 714 G56	Amateur 664 713 714	

1260-1300
RADIOLOCATION
Amateur

664 711 712A 713 714

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INTERNATIONAL			UNITED STATES			
Region 1 MHz	Region 2 MHz	Region 3 MHz	Band MHz	Government Allocation	Non-Government Allocation	Remarks
1300-1350 AERONAUTICAL RADIONAVIGATION 717 Radiolocation 715 716 718			1300- 1350	AERONAUTICAL RADIONAVIGATION Radiolocation 717 718 G2	AERONAUTICAL RADIONAVIGATION 717 718	
1350-1400 FIXED MOBILE RADIOLOCATION 718 719 720	1350-1400 RADIOLOCATION 714 718 720		1350- 1400	FIXED MOBILE RADIOLOCATION US311 714 718 720 G2 G27 G114	US311 714 718 720	
1400-1427 EARTH EXPLORATION-SATELLITE (Passive) RADIO ASTRONOMY SPACE RESEARCH (Passive) 721 722			1400- 1427	EARTH EXPLORATION- SATELLITE (Passive) RADIO ASTRONOMY SPACE RESEARCH (Passive) US74 US246 722	EARTH EXPLORATION- SATELLITE (Passive) RADIO ASTRONOMY SPACE RESEARCH (Passive) US74 US246 722	
1427-1429 SPACE OPERATION (Earth-to-space) FIXED MOBILE except aeronautical mobile 722			1427- 1429	FIXED MOBILE except aero- nautical mobile SPACE OPERATION (Earth-to-space) 722 G30	SPACE OPERATION (Earth-to-space) Land Mobile (Telemetry and telecommand) Fixed (Telemetry) 722	

<p>1429-1452 FIXED MOBILE except aeronautical mobile 722 723B</p>	<p>1429-1452 FIXED MOBILE 723 722</p>		<p>1429- 1435</p>	<p>FIXED MOBILE 722 G30</p>	<p>Land Mobile (Telemetry and telecommand) Fixed (Telemetry) 722</p>
<p>1452-1492 BROADCASTING 722A 722AAA BROADCASTING- SATELLITE 722A 722AAA FIXED MOBILE except aeronautical mobile 722 723B</p>	<p>1452-1492 BROADCASTING 722A 722AAA BROADCASTING-SATELLITE 722 722AAA FIXED MOBILE 723 722 722B</p>		<p>1435- 1530</p>	<p>MOBILE (Aeronautical telemetry) US78 722</p>	<p>MOBILE (Aeronautical telemetry) US78 722</p>
<p>1492-1525 FIXED MOBILE except aeronautical mobile 722 723B</p>	<p>1492-1525 FIXED MOBILE 723 MOBILE-SATELLITE (space-to-Earth) 722 722B 723X</p>	<p>1492-1525 FIXED MOBILE 723 722</p>			
<p>1525-1530 FIXED MARITIME MOBILE- SATELLITE (space-to- Earth) SPACE OPERATION (space-to-Earth) Land Mobile-Satellite (space-to-Earth) 726B Earth Exploration- Satellite Mobile except aero- nautical mobile 724 722 723B 725 726A 726D</p>	<p>1525-1530 MOBILE-SATELLITE (space-to-Earth) SPACE OPERATION (space-to-Earth) Earth Exploration- Satellite Fixed Mobile 723 722 723A 726A 726D</p>	<p>1525-1530 FIXED MOBILE-SATELLITE (space-to-Earth) SPACE OPERATION (space-to-Earth) Earth Exploration- Satellite Mobile 723 724 722 726A 726D</p>			

<p>1530-1533 SPACE OPERATION (space-to-Earth) MARITIME MOBILE-SATELLITE (space-to-Earth) LAND MOBILE-SATELLITE (space-to-Earth) Earth Exploration-Satellite Fixed Mobile except aeronautical mobile</p> <p>722 723B 726A 726D</p>	<p>1530-1533 SPACE OPERATION (space-to-Earth) MARITIME MOBILE-SATELLITE (space-to-Earth) LAND MOBILE-SATELLITE (space-to-Earth) Earth Exploration-Satellite Fixed Mobile 723</p> <p>722 726A 726C 726D</p>			
<p>1533-1535 SPACE OPERATION (space-to-Earth) MARITIME MOBILE-SATELLITE (space-to-Earth) Land Mobile-Satellite (space-to-Earth) 726B Earth Exploration-Satellite Fixed Mobile except aeronautical mobile</p> <p>722 723B 726A 726D</p>	<p>1533-1535 SPACE OPERATION (space-to-Earth) MARITIME MOBILE-SATELLITE (space-to-Earth) Land Mobile-Satellite (space-to-Earth) 726B Earth Exploration-Satellite Fixed Mobile 723</p> <p>722 726A 726C 726D</p>	<p>1530-1535</p>	<p>MARITIME MOBILE-SATELLITE (space-to-Earth) MOBILE-SATELLITE (space-to-Earth) Mobile (Aeronautical telemetering)</p> <p>US78 US315 722 726A</p>	<p>MARITIME MOBILE-SATELLITE (space-to-Earth) MOBILE-SATELLITE (space-to-Earth) Mobile (Aeronautical telemetering)</p> <p>US78 US315 722 726A</p>
<p>1535-1544 MARITIME MOBILE-SATELLITE (space-to-Earth) Land Mobile-Satellite (space-to-Earth) 726B</p> <p>722 726A 726C 726D 727</p>		<p>1535-1544</p>	<p>MARITIME MOBILE-SATELLITE (space-to-Earth) MOBILE-SATELLITE (space-to-Earth)</p> <p>US315 722 726A</p>	<p>MARITIME MOBILE-SATELLITE (space-to-Earth) MOBILE-SATELLITE (space-to-Earth)</p> <p>US315 722 726A</p>
<p>1544-1545 MOBILE-SATELLITE (space-to-Earth)</p> <p>722 726D 727 727A</p>		<p>1544-1545</p>	<p>MOBILE-SATELLITE (space-to-Earth)</p> <p>722 727A</p>	<p>MOBILE-SATELLITE (space-to-Earth)</p> <p>722 727A</p>

1545-1555 AERONAUTICAL MOBILE-SATELLITE (R) (space-to-Earth) 722 726A 726D 727 729 729A 730			1545-1549.5	AERONAUTICAL MOBILE-SATELLITE (R) (space-to-Earth) Mobile-Satellite (space-to-Earth) US308 US309 722 726A	AERONAUTICAL MOBILE-SATELLITE (R) (space-to-Earth) Mobile-Satellite (space-to-Earth) US308 US309 722 726A
			1549.5-1558.5	AERONAUTICAL MOBILE-SATELLITE (R) (space-to-Earth) MOBILE-SATELLITE (space-to-Earth) US308 US309 722 726A	AERONAUTICAL MOBILE-SATELLITE (R) (space-to-Earth) MOBILE-SATELLITE (space-to-Earth) US308 US309 722 726A
1555-1559 LAND MOBILE-SATELLITE (space-to-Earth) 722 726A 726D 727 730 730A 730B 730C			1558.5-1559	AERONAUTICAL MOBILE-SATELLITE (R) (space-to-Earth) US308 US309 722 726A	AERONAUTICAL MOBILE-SATELLITE (R) (space-to-Earth) US308 US309 722 726A
			1559-1610	AERONAUTICAL RADIONAVIGATION RADIONAVIGATION-SATELLITE (space-to-Earth) 722 727 730 731	AERONAUTICAL RADIONAVIGATION RADIONAVIGATION-SATELLITE (space-to-Earth) US208 US260 722
1610-1610.6 AERONAUTICAL RADIONAVIGATION MOBILE-SATELLITE (Earth-to-space) 722 727 730 731 731E 732 733 733A 733B 733E 733F	1610-1610.6 AERONAUTICAL RADIONAVIGATION RADIODETERMINATION-SATELLITE (Earth-to-space) MOBILE-SATELLITE (Earth-to-space) 722 731E 732 733 733A 733C 733D 733E	1610-1610.6 AERONAUTICAL RADIONAVIGATION Radiodetermination-Satellite (Earth-to-space) MOBILE-SATELLITE (Earth-to-space) 722 727 730 731E 732 733 733A 733B 733E	1610-1610.6	AERONAUTICAL RADIONAVIGATION RADIODETERMINATION SATELLITE (Earth-to-space) MOBILE-SATELLITE (Earth-to-space) US208 US260 US319 722 731E 732 733 733A 733E	AERONAUTICAL RADIONAVIGATION RADIODETERMINATION SATELLITE (Earth-to-space) MOBILE-SATELLITE (Earth-to-space) US208 US260 US319 722 731E 732 733 733A 733E

<p>1610.6-1613.8</p> <p>AERONAUTICAL RADIONAVIGATION MOBILE-SATELLITE (Earth-to-space) RADIO ASTRONOMY</p> <p>722 727 730 731 731E 732 733 733A 733B 733E 733F 734</p>	<p>1610.6-1613.8</p> <p>AERONAUTICAL RADIONAVIGATION RADIODETERMINATION- SATELLITE (Earth-to- space) MOBILE-SATELLITE (Earth-to-space) RADIO ASTRONOMY</p> <p>722 731E 732 733 733A 733C 733D 733E 734</p>	<p>1610.6-1613.8</p> <p>AERONAUTICAL RADIONAVIGATION Radiodetermination- Satellite (Earth-to- space) MOBILE-SATELLITE (Earth-to-space) RADIO ASTRONOMY</p> <p>722 727 730 731E 732 733 733A 733B 733E 734</p>	<p>1610.6- 1613.8</p>	<p>AERONAUTICAL RADIONAVIGATION RADIODETERMINATION SATELLITE (Earth-to-space) MOBILE-SATELLITE (Earth-to-space) RADIO-ASTRONOMY</p> <p>US208 US260 US319 722 731E 732 733 733A 733E 734</p>	<p>AERONAUTICAL RADIONAVIGATION RADIODETERMINATION SATELLITE (Earth-to-space) MOBILE-SATELLITE (Earth-to-space) RADIO-ASTRONOMY</p> <p>US208 US260 US319 722 731E 732 733 733A 733E 734</p>
<p>1613.8-1626.5</p> <p>AERONAUTICAL RADIONAVIGATION MOBILE-SATELLITE (Earth-to-space) Mobile Satellite (space-to-Earth)</p> <p>722 727 730 731 731E 731F 732 733 733A 733B 733E 733F</p>	<p>1613.8-1626.5</p> <p>AERONAUTICAL RADIONAVIGATION RADIODETERMINATION- SATELLITE (Earth-to- space) MOBILE-SATELLITE (Earth-to-space) Mobile Satellite (space-to-Earth)</p> <p>722 731E 731F 732 733 733A 733C 733D 733E</p>	<p>1613.8-1626.5</p> <p>AERONAUTICAL RADIONAVIGATION Radiodetermination- Satellite (Earth-to-space) MOBILE-SATELLITE (Earth-to-space) Mobile Satellite (space-to-Earth)</p> <p>722 727 730 731E 731F 732 733 733A 733B 733E</p>	<p>1613.8- 1626.5</p>	<p>AERONAUTICAL RADIONAVIGATION RADIODETERMINATION SATELLITE (Earth-to-space) MOBILE-SATELLITE (Earth-to-space) Mobile-Satellite (space-to- Earth)</p> <p>US208 US260 US319 722 731E 731F 732 733 733E</p>	<p>AERONAUTICAL RADIONAVIGATION RADIODETERMINATION SATELLITE (Earth-to-space) MOBILE-SATELLITE (Earth-to-space) Mobile-Satellite (space-to-Earth)</p> <p>US208 US260 US319 722 731E 731F 732 733 733E</p>
<p>1626.5-1631.5</p> <p>MARITIME MOBILE- SATELLITE (Earth-to- space) Land Mobile-Satellite (Earth-to-space) 726B</p> <p>722 726A 726D 727 730</p>	<p>1626.5-1631.5</p> <p>MOBILE-SATELLITE (Earth-to-space)</p> <p>722 726A 726C 726D 727 730</p>		<p>1626.5- 1645.5</p>	<p>MARITIME MOBILE- SATELLITE (Earth- to-space) MOBILE-SATELLITE (Earth-to-space)</p> <p>US315 722 726A</p>	<p>MARITIME MOBILE- SATELLITE (Earth- to-space) MOBILE-SATELLITE (Earth-to-space)</p> <p>US315 722 726A</p>
<p>1631.5-1634.5</p> <p>MARITIME MOBILE-SATELLITE (Earth-to-space) LAND MOBILE-SATELLITE (Earth-to-space)</p> <p>722 726A 726C 726D 727 730 734A</p>					

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1670-1675 FIXED METEOROLOGICAL AIDS METEOROLOGICAL-SATELLITE (space-to-Earth) MOBILE 740A 722			1670-1690	METEOROLOGICAL AIDS (Radiosonde) METEOROLOGICAL-SATELLITE (space-to-Earth) US211 722	METEOROLOGICAL AIDS (Radiosonde) METEOROLOGICAL-SATELLITE (space-to-Earth) US211 722
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1710-1930 FIXED MOBILE 740A 722 744 745 746 746A			1710-1850	FIXED MOBILE US256 722 G42	US256 722
1930-1980 FIXED MOBILE 764A	1930-1970 FIXED MOBILE Mobile-Satellite (Earth-to-space) 746A	1930-1980 FIXED MOBILE 746A	1850-1990	US331	FIXED MOBILE US331
	1970-1980 FIXED MOBILE MOBILE-SATELLITE (Earth-to-space) 746A 746B 746C				
1980-2010 FIXED MOBILE MOBILE-SATELLITE (Earth-to-space) 746A 746B 746C			1990-2110	US90 US111 US219 US222	FIXED MOBILE US90 US111 US219 US222 NG23 NG118
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2110-2120 FIXED MOBILE SPACE RESEARCH (deep space) (Earth-to-space) 746A		2110-2150		FIXED MOBILE
			US111 US252	US111 US252 NG23 NG153
2120-2170 FIXED MOBILE 746A	2120-2160 FIXED MOBILE Mobile-Satellite (space-to-Earth) 746A	2120-2170 FIXED MOBILE	2150-2160	FIXED NG23
	2160-2170 FIXED MOBILE MOBILE-SATELLITE (space-to-Earth) 746A 746B 746C	746A	2160-2200	FIXED MOBILE
2170-2200 FIXED MOBILE MOBILE-SATELLITE (space-to-Earth) 746A 746B 746C				NG23 NG153

2200-2290 FIXED MOBILE 747A SPACE RESEARCH (space-to-Earth) (space-to-space) SPACE OPERATION (space-to-Earth) (space-to-space) EARTH EXPLORATION-SATELLITE (space-to-Earth) (space-to-space) 750A		2200-2290	FIXED (LOS* only) MOBILE (LOS only including aeronautical telemetering, but excluding flight testing of manned aircraft) SPACE RESEARCH (space-to-Earth) (space-to-space) SPACE OPERATION (space-to-Earth) (space-to-space) EARTH EXPLORATION-SATELLITE (space-to-Earth) (space-to-space) US303 750A	US303	* Line of sight.
2290-2300 FIXED MOBILE except aeronautical mobile SPACE RESEARCH (Deep Space) (space-to-Earth)		2290-2300	FIXED MOBILE except aeronautical mobile SPACE RESEARCH (space-to-Earth) (Deep Space only)	SPACE RESEARCH (space-to-Earth) (Deep Space only)	
2300-2450 FIXED MOBILE Amateur Radiolocation 664 751A 752	2300-2450 FIXED MOBILE RADIOLOCATION Amateur 664 750B 751 751B 752	2300-2310	G123	Amateur US253	
		2310-2360	Mobile Radiolocation Fixed 751B US276 US327 US328 G2 G120	BROADCASTING-SATELLITE Mobile 751B US276 US327 US328	
		2360-2390	MOBILE RADIOLOCATION Fixed US276 G2 G120	MOBILE US276	

		2390-2400	G122	AMATEUR	
		2400-2402	664 752 G123	Amateur 664 752	ISM 2450 50 MHz
		2402-2417	664 752 G122	AMATEUR 664 752	ISM 2450 50 MHz
		2417-2450	Radiolocation 664 752 G2 G124	Amateur 664 752	ISM 2450 50 MHz
2450-2483.5 FIXED MOBILE Radiolocation 752 753	2450-2483.5 FIXED MOBILE RADIOLOCATION 751 752	2450-2483.5	US41 752	FIXED MOBILE Radiolocation US41 752	ISM 2450 50 MHz
2483.5-2500 FIXED MOBILE MOBILE-SATELLITE (space-to-Earth) Radiolocation 733F 752 753 753A 753B 753C 753F	2483.5-2500 FIXED MOBILE MOBILE-SATELLITE (space-to-Earth) RADIODETERMINATION- SATELLITE (space- to-Earth) 753A RADIOLOCATION 752 753D 753F	2483.5-2500 FIXED MOBILE MOBILE-SATELLITE (space-to-Earth) RADIOLOCATION Radiodetermination- Satellite (space- to-Earth) 753A 752 753C 753F	2483.5-2500	RADIODETERMINATION- -SATELLITE (space-to- Earth) 753A MOBILE-SATELLITE (space-to-Earth) US41 US319 752 753F	RADIODETERMINATION- SATELLITE (space- to-Earth) 753A MOBILE-SATELLITE (space-to-Earth) US41 US319 752 753F NG147
2500-2520 FIXED 762 763 764 MOBILE except aeronautical mobile MOBILE-SATELLITE (space-to-Earth) 754 754B 755A 756 759 760X	2500-2520 FIXED 762 764 FIXED-SATELLITE (space-to-Earth) 761 MOBILE except aeronautical mobile MOBILE-SATELLITE (space-to-Earth) 754 754A 755 755A 760X				
				BROADCASTING- SATELLITE	

<p>2520-2655 FIXED 762 763 764 MOBILE except aeronautical mobile BROADCASTING-SATELLITE 757 760 720 754 754B 756 758 759</p>	<p>2520-2655 FIXED 762 764 FIXED-SATELLITE (space-to-Earth) 761 MOBILE except aeronautical mobile BROADCASTING-SATELLITE 757 760 720 754 755</p>	<p>2520-2535 FIXED 762 764 FIXED-SATELLITE (space-to-Earth) 761 MOBILE except aeronautical mobile BROADCASTING-SATELLITE 757 760 754</p>	<p>2500-2655</p>	<p>US205 US269 720</p>	<p>FIXED US205 US269 720 NG47 NG101 NG102</p>
<p>2655-2670 FIXED 762 763 764 MOBILE except aeronautical mobile BROADCASTING-SATELLITE 757 760 Earth Exploration-Satellite (Passive) Radio Astronomy Space Research (Passive) 758 759 765 766</p>	<p>2655-2670 FIXED 762 764 FIXED-SATELLITE (Earth-to-space) (space-to-Earth) 761 MOBILE except aeronautical mobile BROADCASTING-SATELLITE 757 760 Earth Exploration-Satellite (Passive) Radio Astronomy Space Research (Passive) 765 766</p>	<p>2655-2670 FIXED 762 764 FIXED-SATELLITE (Earth-to-space) 761 MOBILE except aeronautical mobile BROADCASTING-SATELLITE 757 760 Earth Exploration-Satellite (Passive) Radio Astronomy Space Research (Passive) 765 766</p>	<p>2655-2690</p>	<p>Earth Exploration-Satellite (Passive) Radio Astronomy Space Research (Passive) US205 US269</p>	<p>BROADCASTING-SATELLITE FIXED Earth Exploration-Satellite (Passive) Radio Astronomy Space Research (Passive) US205 US269 NG47 NG101 NG102</p>

<p>2670-2690 FIXED 762 763 764 MOBILE except aeronautical mobile MOBILE-SATELLITE (Earth-to-space) Earth Exploration-Satellite (Passive) Radio Astronomy Space Research (Passive) 764A 765 766</p>	<p>2670-2690 FIXED 762 764 FIXED-SATELLITE (Earth-to-space) 761 (space-to-Earth) MOBILE except aeronautical mobile MOBILE-SATELLITE (Earth-to-space) Earth Exploration- Satellite (Passive) Radio Astronomy Space Research (Passive) 764A 765 766</p>	<p>2670-2690 FIXED 762 764 FIXED-SATELLITE (Earth-to-space) 761 MOBILE except aeronautical mobile MOBILE-SATELLITE (Earth-to-space) Earth Exploration-Satellite (Passive) Radio Astronomy Space Research (Passive) 764A 765 766</p>				
<p>2690-2700 EARTH EXPLORATION-SATELLITE (Passive) RADIO ASTRONOMY SPACE RESEARCH (Passive) 767 768 769</p>		<p>2690-2700</p>	<p>EARTH EXPLORATION-SATELLITE (Passive) RADIO ASTRONOMY SPACE RESEARCH (Passive) US74 US246</p>	<p>EARTH EXPLORATION-SATELLITE (Passive) RADIO ASTRONOMY SPACE RESEARCH (Passive) US74 US246</p>		
<p>2700-2900 AERONAUTICAL RADIONAVIGATION 717 Radiolocation 770 771</p>		<p>2700-2900</p>	<p>AERONAUTICAL RADIONAVIGATION METEOROLOGICAL AIDS Radiolocation US18 717 770 G2 G15</p>	<p>US18 717 770</p>		
<p>2900-3100 RADIONAVIGATION 773 Radiolocation 772 775A</p>		<p>2900-3100</p>	<p>MARITIME RADIONAVIGATION Radiolocation US44 US316 775A G56</p>	<p>MARITIME RADIONAVIGATION Radiolocation US44 US316 775A</p>		
<p>3100-3300 RADIOLOCATION 713 777 778</p>		<p>3100-3300</p>	<p>RADIOLOCATION US110 713 778 G59</p>	<p>Radiolocation US110 713 778</p>	<p>See Part 7.18 of the NTIA Manual.</p>	

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INTERNATIONAL			UNITED STATES			
Region 1 MHz	Region 2 MHz	Region 3 MHz	Band MHz	Government Allocation	Non-Government Allocation	Remarks
3300-3400 RADIOLOCATION 778 779 780	3300-3400 RADIOLOCATION Amateur Fixed Mobile 778 780	3300-3400 RADIOLOCATION Amateur 778 779	3300- 3500	RADIOLOCATION US108 664 778 G31	Amateur Radiolocation US108 664 778	
3400-3600 FIXED FIXED-SATELLITE (space-to-Earth) Mobile Radiolocation 781 785	3400-3500 FIXED FIXED-SATELLITE (space-to-Earth) Amateur Mobile Radiolocation 784 664 783					
3600-4200 FIXED FIXED-SATELLITE (space-to-Earth) Mobile	3500-3700 FIXED FIXED-SATELLITE (space-to-Earth) MOBILE except aeronautical mobile Radiolocation 784 786		3500- 3600	AERONAUTICAL RADIONAVIGATION (Ground-based) RADIOLOCATION US110 G59 G110	Radiolocation US110	
	3700-4200 FIXED FIXED-SATELLITE (space-to-Earth) MOBILE except aeronautical mobile 787		3600- 3700	AERONAUTICAL RADIONAVIGATION (Ground-based) RADIOLOCATION US110 US245 G59 G110	FIXED-SATELLITE (space-to-Earth) Radiolocation US110 US245	
4200-4400 AERONAUTICAL RADIONAVIGATION 789 788 790 791			3700- 4200		FIXED FIXED-SATELLITE (space-to-Earth) NG41	
			4200- 4400	AERONAUTICAL RADIONAVIGATION US261 791	AERONAUTICAL RADIONAVIGATION US261 791	

4400-4500 FIXED MOBILE	4400-4500	FIXED MOBILE		
4500-4800 FIXED FIXED-SATELLITE (space-to-Earth) MOBILE 792A	4500-4660	FIXED MOBILE US245	FIXED-SATELLITE (space-to-Earth) US245 792A	
	4660-4685	G122	FIXED FIXED-SATELLITE (space-to-Earth) MOBILE US245 792A	
	4685-4800	FIXED MOBILE US245	FIXED-SATELLITE (space-to-Earth) US245 792A	
4800-4990 FIXED MOBILE 793 Radio Astronomy 720 778 794	4800-4990	FIXED MOBILE US203 US257 720 778	US203 US257 720 778	
4990-5000 FIXED MOBILE except aeronautical mobile RADIO ASTRONOMY Space Research (Passive) 795	4990-5000	RADIO ASTRONOMY Space Research (Passive) US74 US246	RADIO ASTRONOMY Space Research (Passive) US74 US246	
5000-5250 AERONAUTICAL RADIONAVIGATION 733 796 797 797A 797B	5000-5250	AERONAUTICAL RADIONAVIGATION US211 US260 US307 733 796 797 797A	AERONAUTICAL RADIONAVIGATION US211 US260 US307 733 796 797 797A	
5250-5255 RADIOLOCATION Space Research 713 798	5250-5350	RADIOLOCATION US110 713 G59	Radiolocation US110 713	See Part 7.18 of the NTIA

5255-5350 RADIOLOCATION 713 798					Manual.
5350-5460 AERONAUTICAL RADIONAVIGATION 799 Radiolocation		5350-5460	AERONAUTICAL RADIONAVIGATION RADIOLOCATION US48 799 G56	AERONAUTICAL RADIONAVIGATION Radiolocation US48 799	
5460-5470 RADIONAVIGATION 799 Radiolocation		5460-5470	RADIONAVIGATION Radiolocation US49 US65 799 G56	RADIONAVIGATION Radiolocation US49 US65 799	See Part 7.18 of the NTIA Manual.
5470-5650 MARITIME RADIONAVIGATION Radiolocation 800 801 802		5470-5600	MARITIME RADIONAVIGATION Radiolocation US50 US65 G56	MARITIME RADIONAVIGATION Radiolocation US50 US65	
		5600-5650	MARITIME RADIONAVIGATION METEOROLOGICAL AIDS Radiolocation US51 US65 802 G56	MARITIME RADIONAVIGATION METEOROLOGICAL AIDS Radiolocation US51 US65 802	
5650-5725 RADIOLOCATION Amateur Space Research (Deep Space) 664 801 803 804 805		5650-5850	RADIOLOCATION 664 806 808 G2	Amateur 664 806 808	ISM 5800 75 MHz
5725-5850 FIXED-SATELLITE (Earth-to-space) RADIOLOCATION Amateur 801 803 805 806 807 808	5725-5850 RADIOLOCATION Amateur 803 805 806 808				

5850-5925 FIXED FIXED-SATELLITE (Earth-to-space) MOBILE 806	5850-5925 FIXED FIXED-SATELLITE (Earth-to-space) MOBILE Amateur Radiolocation 806	5850-5925 FIXED FIXED-SATELLITE (Earth-to-space) MOBILE Radiolocation 806	5850-5925	RADIOLOCATION US245 806 G2	FIXED-SATELLITE (Earth-to-space) Amateur US245 806
5925-7075 FIXED FIXED-SATELLITE (Earth-to-space) MOBILE 791 792A 809			5925-6425		FIXED FIXED-SATELLITE (Earth-to-space) NG41
			6425-6525	791 809	FIXED-SATELLITE (Earth-to-space) MOBILE 791 809 NG122
			6525-6875	809	FIXED FIXED-SATELLITE (Earth-to-space) 809
			6875-7075	809	FIXED FIXED-SATELLITE (Earth-to-space) MOBILE 809 NG118
7075-7250 FIXED MOBILE 809 810 811			7075-7125	809	FIXED MOBILE 809 NG118
			7125-7190	FIXED US252 809 G116	US252 809

	7190-7235	FIXED SPACE RESEARCH (Earth-to-space) 809	809
	7235-7250	FIXED 809	809
7250-7300 FIXED FIXED-SATELLITE (space-to-Earth) MOBILE 812	7250-7300	FIXED-SATELLITE (space-to-Earth) MOBILE-SATELLITE (space-to-Earth) Fixed G117	
7300-7450 FIXED FIXED-SATELLITE (space-to-Earth) MOBILE except aeronautical mobile 812	7300-7450	FIXED FIXED-SATELLITE (space-to-Earth) Mobile-Satellite (space-to-Earth) G117	
7450-7550 FIXED FIXED-SATELLITE (space-to-Earth) METEOROLOGICAL-SATELLITE (space-to-Earth) MOBILE except aeronautical mobile	7450-7550	FIXED FIXED-SATELLITE (space-to-Earth) METEOROLOGICAL- SATELLITE (space- to-Earth) Mobile-Satellite (space-to-Earth) G104 G117	
7550-7750 FIXED FIXED-SATELLITE (space-to-Earth) MOBILE except aeronautical mobile	7550-7750	FIXED FIXED-SATELLITE (space-to-Earth) Mobile-Satellite (space-to-Earth) G117	

7750-7900 FIXED MOBILE except aeronautical mobile			7750-7900	FIXED	
7900-8025 FIXED FIXED-SATELLITE (Earth-to-space) MOBILE 812			7900-8025	FIXED-SATELLITE (Earth-to-space) MOBILE-SATELLITE (Earth-to-space) Fixed G117	
8025-8175 FIXED FIXED-SATELLITE (Earth-to-space) MOBILE Earth Exploration-Satellite (space-to-Earth) 813 815	8025-8175 EARTH EXPLORATION-SATELLITE (space-to-Earth) FIXED FIXED-SATELLITE (Earth-to-space) MOBILE 814	8025-8175 FIXED FIXED-SATELLITE (Earth-to-space) MOBILE Earth Exploration-Satellite (space-to-Earth) 813 815	8025-8175	EARTH EXPLORATION-SATELLITE (space-to-Earth) FIXED FIXED-SATELLITE (Earth-to-space) Mobile-Satellite (Earth-to-space) (No Airborne Transmission) US258 G117	US258
8175-8215 FIXED FIXED-SATELLITE (Earth-to-space) METEOROLOGICAL-SATELLITE (Earth-to-space) MOBILE Earth Exploration-Satellite (space-to-Earth) 813 815	8175-8215 EARTH EXPLORATION-SATELLITE (space-to-Earth) FIXED FIXED-SATELLITE (Earth-to-space) METEOROLOGICAL-SATELLITE (Earth-to-space) MOBILE 814	8175-8215 FIXED FIXED-SATELLITE (Earth-to-space) METEOROLOGICAL-SATELLITE (Earth-to-space) MOBILE Earth Exploration-Satellite (space-to-Earth) 813 815	8175-8215	EARTH EXPLORATION-SATELLITE (space-to-Earth) FIXED FIXED-SATELLITE (Earth-to-space) METEOROLOGICAL-SATELLITE (Earth-to-space) Mobile-Satellite (Earth-to-space) (No Airborne Transmissions) US258 G104 G117	US258

8215-8400 FIXED FIXED-SATELLITE (Earth-to-space) MOBILE Earth Exploration-Satellite (space-to-Earth) 813 815	8215-8400 EARTH EXPLORATION-SATELLITE (space-to-Earth) FIXED FIXED-SATELLITE (Earth-to-space) MOBILE 814	8215-8400 FIXED FIXED-SATELLITE (Earth-to-space) MOBILE Earth Exploration-Satellite (space-to-Earth) 813 815	8215-8400	EARTH EXPLORATION-SATELLITE (space-to-Earth) FIXED FIXED-SATELLITE (Earth-to-space) Mobile-Satellite (Earth-to-space) (No Airborne Transmissions) US258 G117	US258	
8400-8500 FIXED MOBILE except aeronautical mobile SPACE RESEARCH (space-to-Earth) 816 817 818			8400-8450	FIXED SPACE RESEARCH (space-to-Earth) (Deep Space only)		
			8450-8500	FIXED SPACE RESEARCH (space-to-Earth)	SPACE RESEARCH (space-to-Earth)	
8500-8750 RADIOLOCATION 713 819 820			8500-9000	RADIOLOCATION US53 US110 713 G59	Radiolocation US53 US110 713	See Part 7.18 of the NTIA Manual.
8750-8850 RADIOLOCATION AERONAUTICAL RADIONAVIGATION 821 822						
8850-9000 RADIOLOCATION MARITIME RADIONAVIGATION 823 824						
9000-9200 AERONAUTICAL RADIONAVIGATION 717 Radiolocation 822			9000-9200	AERONAUTICAL RADIONAVIGATION Radiolocation US48 US54 717 G2 G19	AERONAUTICAL RADIONAVIGATION Radiolocation US48 US54 717	See Part 7.18 of the NTIA Manual.

9200-9300 RADIOLOCATION MARITIME RADIONAVIGATION 823 824 824A	9200-9300	MARITIME RADIONAVIGATION Radiolocation US110 823 824A G59	MARITIME RADIONAVIGATION Radiolocation US110 823 824A	See Part 7.18 of the NTIA Manual.
9300-9500 RADIONAVIGATION 825A Radiolocation 775A 824A 825	9300-9500	RADIONAVIGATION Meteorological Aids Radiolocation US51 US66 US67 US71 775A 824A 825A G56	RADIONAVIGATION Meteorological Aids Radiolocation US51 US66 US67 US71 775A 824A 825A	See Part 7.18 of the NTIA Manual.
9500-9800 RADIOLOCATION RADIONAVIGATION 713	9500-10000	RADIOLOCATION US110 713 828	Radiolocation US110 713 828	See Part 7.18 of the NTIA Manual.
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US And International Tables Of Frequency Allocations (Rev.9/95)

This table is the frequency chart for the US and International assigned and allocated frequencies above 10 gigahertz. It requires a browser capable of viewing HTML tables (such as Netscape version 1.1 or greater, or Internet Explorer 1.1 or greater). Because of the extreme size of this chart, you will have to use the scroll bars to see all of it vertically and horizontally. You may also wish to see the tables that include [a general introduction to all of the frequency information](#), [frequencies below 27.5 MHz](#) and [frequencies 27.5 MHz to 10 GHz](#). There are also [footnotes covering US, International, government and non-government information](#).

Frequency Allocation Tables (10 GHz and Greater)

jump to [30 GHz](#)

INTERNATIONAL			UNITED STATES			
Region 1 GHz	Region 2 GHz	Region 3 GHz	Band GHz	Government Allocation	Non-Government Allocation	Remarks
10-10.45 FIXED MOBILE RADIOLOCATION Amateur 828	10-10.45 RADIOLOCATION Amateur 828 829	10-10.45 FIXED MOBILE RADIOLOCATION Amateur 828	10-10.45	RADIOLOCATION US58 US108 828 G32	Amateur Radiolocation US58 US108 828 NG42	
10.45-10.5 RADIOLOCATION Amateur Amateur-Satellite 830			10.45-10.5	RADIOLOCATION US58 US108 G32	RADIOLOCATION Amateur Amateur-Satellite US58 US108 NG42 NG134	

10.5-10.55 FIXED MOBILE Radiolocation	10.5-10.55 FIXED MOBILE RADIOLOCATION	10.5- 10.55	RADIOLOCATION US59	RADIOLOCATION US59
10.55-10.6 FIXED MOBILE except aeronautical mobile Radiolocation		10.55- 10.6		FIXED
10.6-10.68 EARTH EXPLORATION-SATELLITE (Passive) FIXED MOBILE except aeronautical mobile RADIO ASTRONOMY SPACE RESEARCH (Passive) Radiolocation 831 832		10.6- 10.68	EARTH EXPLORATION- SATELLITE (Passive) SPACE RESEARCH (Passive) US265 US277	EARTH EXPLORATION- SATELLITE (Passive) FIXED SPACE RESEARCH (Passive) US265 US277
10.68-10.7 EARTH EXPLORATION-SATELLITE (Passive) RADIO ASTRONOMY SPACE RESEARCH (Passive) 833 834		10.68- 10.7	EARTH EXPLORATION- SATELLITE (Passive) RADIO ASTRONOMY SPACE RESEARCH (Passive) US74 US246	EARTH EXPLORATION- SATELLITE (Passive) RADIO ASTRONOMY SPACE RESEARCH (Passive) US74 US246
10.7-11.7 FIXED FIXED- SATELLITE (space-to-Earth) (Earth-to-space) 792A 835 MOBILE except aero- nautical mobile	10.7-11.7 FIXED FIXED-SATELLITE (space-to-Earth) 792A MOBILE except aeronautical mobile	10.7- 11.7	US211	FIXED FIXED-SATELLITE (space-to-Earth) 792A US211 NG41 NG104

11.7-12.5 FIXED BROADCASTING BROADCASTING- SATELLITE Mobile except aero- nautical mobile	11.7-12.1 FIXED 837 FIXED-SATELLITE (space-to-Earth) Mobile except aero- nautical mobile	11.7-12.2 FIXED MOBILE except aero- nautical mobile BROADCASTING BROADCASTING- SATELLITE	11.7- 12.2	837 839	FIXED-SATELLITE (space-to-Earth) Mobile except aero- nautical mobile 837 839 NG143 NG145
	836 839	838			
838	12.1-12.2 FIXED-SATELLITE (space-to-Earth)				
	836 839 842				
838	12.2-12.7 FIXED MOBILE except aero- nautical mobile BROADCASTING BROADCASTING- SATELLITE	12.2-12.5 FIXED MOBILE except aero- nautical mobile BROADCASTING	12.2- 12.7	839 843 844	FIXED BROADCASTING- SATELLITE 839 843 844 NG139
	839 844 846	838 845			
12.5-12.75 FIXED- SATELLITE (space-to-Earth) (Earth-to-space)	12.7-12.75 FIXED FIXED-SATELLITE (Earth-to-space) MOBILE except aero- nautical mobile	12.5-12.75 FIXED FIXED-SATELLITE (space-to-Earth) MOBILE except aero- nautical mobile BROADCASTING- SATELLITE 847	12.7- 12.75		FIXED FIXED-SATELLITE (Earth-to-space) MOBILE NG53 NG118
	848 849 850				
12.75-13.25 FIXED FIXED-SATELLITE (Earth-to-space) 792A MOBILE Space Research (Deep Space) (space-to-Earth)			12.75- 13.25	US251	FIXED FIXED-SATELLITE (Earth-to-space) MOBILE 792A US251 NG53 NG104 NG118

<p>13.25-13.4 AERONAUTICAL RADIONAVIGATION 851 852 853</p>	<p>13.25-13.4</p>	<p>AERONAUTICAL RADIONAVIGATION Space Research (Earth-to-space) 851</p>	<p>AERONAUTICAL RADIONAVIGATION Space Research (Earth-to-space) 851</p>	
<p>13.4-13.75 RADIOLOCATION Standard Frequency and Time Signal-Satellite (Earth-to-space) Space Research 713 853 854 855</p>	<p>13.4-14</p>	<p>RADIOLOCATION Space Research Standard Frequency and Time Signal-Satellite (Earth-to-space) US110 713 G59</p>	<p>Radiolocation Space Research Standard Frequency and Time Signal-Satellite (Earth-to-space) US110 713</p>	<p>See Part 7.18 of the NTIA Manual.</p>
<p>13.75-14 FIXED-SATELLITE (Earth-to-space) RADIOLOCATION Standard Frequency and Time Signal-Satellite (Earth-to-space) 713 853 854 855 855A 855B</p>				
<p>14-14.25 FIXED-SATELLITE (Earth-to-space) 858 RADIONAVIGATION 856 Space Research 857 859</p>	<p>14-14.2</p>	<p>RADIONAVIGATION Space Research US287 US292</p>	<p>FIXED-SATELLITE (Earth-to-space) RADIONAVIGATION Space Research US287 US292</p>	
<p>14.25-14.3 FIXED-SATELLITE (Earth-to-space) 858 RADIONAVIGATION 856 Space Research 857 859 860 861</p>	<p>14.2-14.3</p>	<p>US287</p>	<p>FIXED-SATELLITE (Earth-to-space) US287</p>	

<p>14.3-14.4 FIXED FIXED-SATELLITE (Earth-to-space) 858 MOBILE except aero- nautical mobile Radionavigation- Satellite 859</p>	<p>14.3-14.4 FIXED-SATELLITE (Earth-to-space) 858 Radionavigation- Satellite 859</p>	<p>14.3-14.4 FIXED FIXED-SATELLITE (Earth-to-space) 858 MOBILE except aero- nautical mobile Radionavigation- Satellite 859</p>	<p>14.3- 14.4</p>	<p>US287</p>	<p>FIXED-SATELLITE (Earth-to-space) US287</p>
<p>14.4-14.47 FIXED FIXED-SATELLITE (Earth-to-space) 858 MOBILE except aeronautical mobile Space Research (space-to-Earth) 859</p>			<p>14.4- 14.5</p>	<p>Fixed Mobile US203 US287 862</p>	<p>FIXED-SATELLITE (Earth-to-space) US203 US287 862</p>
<p>14.47-14.5 FIXED FIXED-SATELLITE (Earth-to-space) 858 MOBILE except aeronautical mobile Radio Astronomy 859 862</p>					
<p>14.5-14.8 FIXED FIXED-SATELLITE (Earth-to-space) 863 MOBILE Space Research</p>			<p>14.5- 14.7145</p>	<p>FIXED Mobile Space Research</p>	
			<p>14.7145- 15.1365</p>	<p>MOBILE Fixed Space Research US310</p>	<p>US310</p>

<p>14.8-15.35 FIXED MOBILE Space Research</p> <p>720</p>	<p>15.1365- 15.35</p>	<p>FIXED Mobile Space Research</p> <p>US211 720</p>	<p>US211 720</p>	
<p>15.35-15.4 EARTH EXPLORATION-SATELLITE (Passive) RADIO ASTRONOMY SPACE RESEARCH (Passive)</p> <p>864 865</p>	<p>15.35- 15.4</p>	<p>EARTH EXPLORATION- SATELLITE (Passive) RADIO ASTRONOMY SPACE RESEARCH (Passive)</p> <p>US74 US246</p>	<p>EARTH EXPLORATION- SATELLITE (Passive) RADIO ASTRONOMY SPACE RESEARCH (Passive)</p> <p>US74 US246</p>	
<p>15.4-15.7 AERONAUTICAL RADIONAVIGATION</p> <p>733 797</p>	<p>15.4- 15.7</p>	<p>AERONAUTICAL RADIONAVIGATION</p> <p>US211 US260 733 797</p>	<p>AERONAUTICAL RADIONAVIGATION</p> <p>US211 US260 733 797</p>	
<p>15.7-16.6 RADIOLOCATION</p> <p>866 867</p>	<p>15.7- 16.6</p>	<p>RADIOLOCATION</p> <p>US110 G59</p>	<p>Radiolocation</p> <p>US110</p>	<p>See Part 7.18 and Section 8.2.46 of the NTIA Manual.</p>
<p>16.6-17.1 RADIOLOCATION Space Research (Deep Space)(Earth-to-space)</p> <p>866 867</p>	<p>16.6- 17.1</p>	<p>RADIOLOCATION Space Research (Deep Space) (Earth-to-space)</p> <p>US110 G59</p>	<p>Radiolocation</p> <p>US110</p>	<p>See Part 7.18 and Section 8.2.46 of the NTIA Manual.</p>

17.1-17.2 RADIOLOCATION 866 867			17.1-17.2	RADIOLOCATION US110 G59	Radiolocation US110	See Part 7.18 and Section 8.2.46 of the NTIA Manual.
17.2-17.3 RADIOLOCATION Earth Exploration-Satellite (Active) Space Research (Active) 866 867			17.2-17.3	RADIOLOCATION Earth Exploration-Satellite (Active) Space Research (Active) US110 G59	Earth Exploration-Satellite (Active) Radiolocation Space Research (Active) US110	See Part 7.18 and Section 8.2.46 of the NTIA Manual.
17.3-17.7 FIXED-SATELLITE (Earth-to-space) 869 Radiolocation 868	17.3-17.7 BROADCASTING-SATELLITE FIXED-SATELLITE (Earth-to-space) 869 Radiolocation 868 868A 869A	17.3-17.7 FIXED-SATELLITE (Earth-to-space) 869 Radiolocation 868	17.3-17.7	Radiolocation US259 US271 G59	FIXED-SATELLITE (Earth-to-space) US259 US271 NG140	See Part 7.18 of the NTIA Manual.
17.7-18.1 FIXED FIXED-SATELLITE (space-to-Earth) (Earth-to-space) 869 MOBILE	17.7-17.8 BROADCASTING-SATELLITE FIXED FIXED-SATELLITE (space-to-Earth) (Earth-to-space) 869 Mobile 869B 868A 869A	17.7-18.1 FIXED FIXED-SATELLITE (space-to-Earth) (Earth-to-space) 869 MOBILE	17.7-17.8	US271	FIXED FIXED-SATELLITE (space-to-Earth) (Earth-to-space) MOBILE US271 NG140 NG144	
	17.8-18.1 FIXED FIXED-SATELLITE (space-to-Earth) (Earth-to-space) 869 MOBILE					

18.1-18.4 FIXED FIXED-SATELLITE (space-to-Earth) (Earth-to-space) 870A MOBILE 870 870B			17.8- 18.6	870 US334 G117	FIXED FIXED-SATELLITE (space-to-Earth) MOBILE 870 US334 NG144
18.4-18.6 FIXED FIXED-SATELLITE (space-to-Earth) MOBILE					
18.6-18.8 FIXED FIXED-SATELLITE (space-to-Earth) 872 MOBILE except aero- nautical mobile Earth Exploration- Satellite (Passive) Space Research (Passive) 871	18.6-18.8 EARTH EXPLORATION- SATELLITE (Passive) FIXED FIXED-SATELLITE (space-to-Earth) 872 MOBILE except aero- nautical mobile SPACE RESEARCH (Passive) 871	18.6-18.8 FIXED FIXED-SATELLITE (space-to-Earth) 872 MOBILE except aero- nautical mobile Earth Exploration- Satellite (Passive) Space Research (Passive) 871	18.6- 18.8	EARTH EXPLORATION- SATELLITE (Passive) SPACE RESEARCH (Passive) US254 US255 US334 G117	FIXED FIXED-SATELLITE (space-to-Earth) EARTH EXPLORATION- SATELLITE (Passive) MOBILE except aero- nautical mobile SPACE RESEARCH (Passive) US254 US255 US334 NG144
18.8-19.7 FIXED FIXED-SATELLITE (space-to-Earth) MOBILE				18.8- 19.7	US334 G117

<p>19.7-20.1 FIXED-SATELLITE (space-to-Earth) Mobile-Satellite (space-to-Earth) 873</p>	<p>19.7-20.1 FIXED-SATELLITE (space-to-Earth) MOBILE-SATELLITE (space-to-Earth) 873 873A 873B 873C 873D 873E</p>	<p>19.7-20.1 FIXED-SATELLITE (space-to-Earth) Mobile-Satellite (space-to-Earth) 873</p>	<p>19.7-20.1</p>	<p>US334 G117</p>	<p>FIXED-SATELLITE (space-to-Earth) MOBILE-SATELLITE (space-to-Earth) 873A 873B 873C 873D 873E US334</p>
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