****

BANDPLAN & USEFUL FREQUENCIES

****

160 METERS

1.800-2.000	CW
1.800-1.810	Digital Modes
1.810	QRP CW calling frequency
1.843-2.000	SSB, SSTV and other wideband modes
1.910	QRP SSB calling frequency
1.995-2.000	Experimental
1.999-2.000	Beacons

80 METERS

3.500-3.510	CW DX window
3.560	QRP CW calling frequency
3.570-3.600	RTTY/Data
3.585-3.600	Automatically controlled data stations
3.590	RTTY/Data DX
3.790-3.800	SSB DX window
3.845	SSTV
3.885	AM calling frequency
3.985	QRP SSB calling frequency

40 METERS

7.030	QRP CW calling frequency
7.040	RTTY/Data DX
7.070-7.125	RTTY/Data
7.100-7.105	Automatically controlled data stations
7.171	SSTV
7.173	D-SSTV
7.285	QRP SSB calling frequency
7.290	AM calling frequency - AVOID

30 METERS

10.130-10.140	RTTY/Data
10.140-10.150	Automatically controlled data stations

20 METERS

14.060	QRP CW calling frequency
14.070-14.095	RTTY/Data
14.095-14.0995	Automatically controlled data stations
14.100	IBP/NCDXF beacons
14.1005-14.112	Automatically controlled data stations
14.230	SSTV
14.233	D-SSTV
14.236	Digital Voice
14.285	QRP SSB calling frequency
14.286	AM calling frequency

17 METERS

18.100-18.105	RTTY/Data
18.105-18.110	Automatically controlled data stations
18.110	IBP/NCDXF beacons
18.162.5	Digital Voice

15 METERS

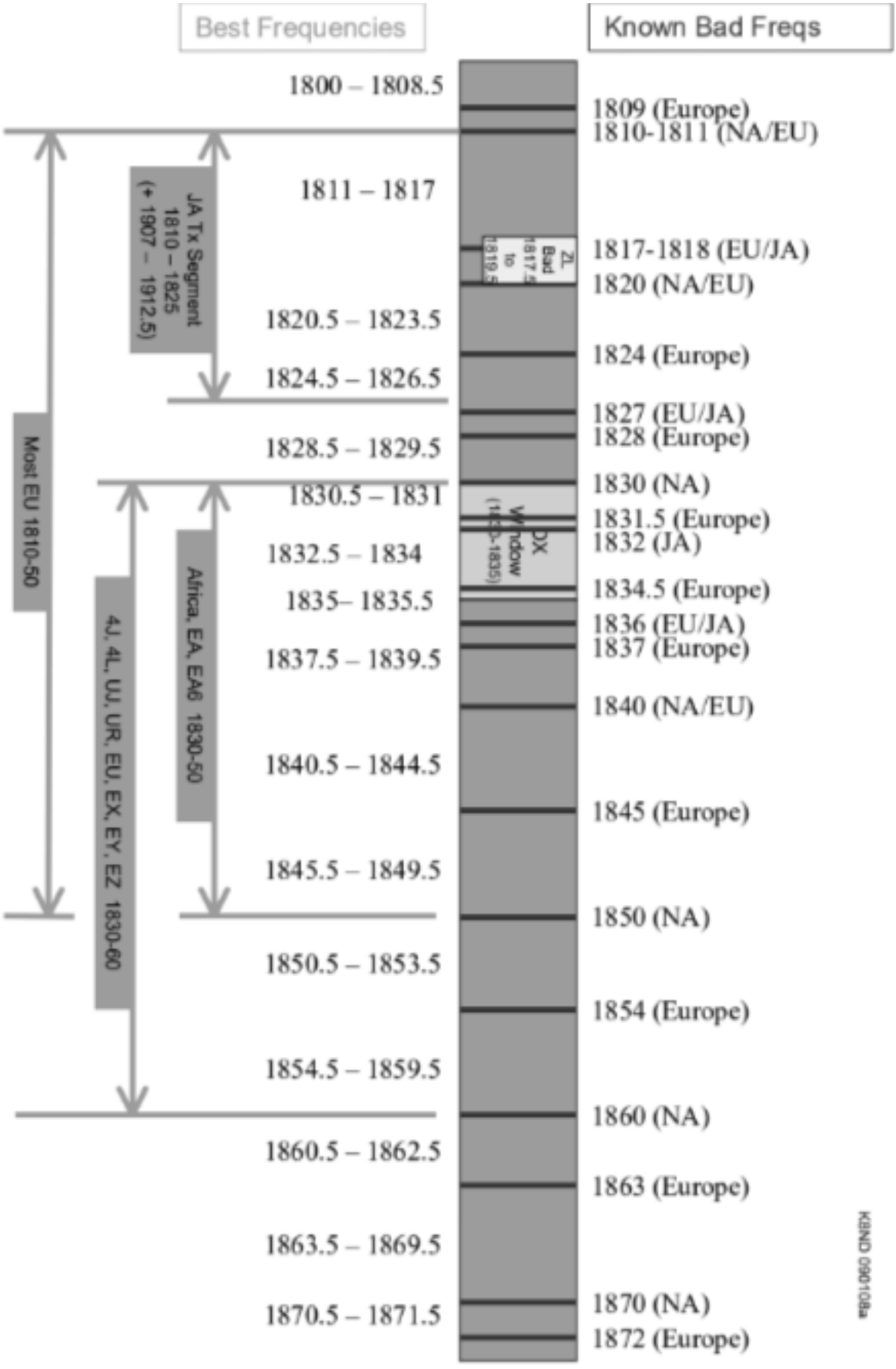
21.060	QRP CW calling frequency
21.070-21.110	RTTY/Data
21.090-21.100	Automatically controlled data stations
21.150	IBP/NCDXF beacons
21.340	SSTV
21.385	QRP SSB calling frequency

12 METERS

24.920-24.925	RTTY/Data
24.925-24.930	Automatically controlled data stations
24.930	IBP/NCDXF beacons

10 METERS

28.060	QRP CW calling frequency
28.070-28.120	RTTY/Data
28.120-28.189	Automatically controlled data stations
28.190-28.225	Beacons
28.200	IBP/NCDXF 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


Best Frequencies
Known Bad Freqs
1800 – 1808.5
1809 (Europe)
1810-1811 (NA/EU)
1811 – 1817
JA Tx Segment
1810 – 1825
(+ 1907 – 1912.5)
ZL Bad 1817.5 to 1819.5
1817-1818 (EU/JA)
1820 (NA/EU)
1820.5 – 1823.5
1824 (Europe)
1824.5 – 1826.5
1827 (EU/JA)
1828 (Europe)
1828.5 – 1829.5
Most EU 1810-50
1830 (NA)
1830.5 – 1831
DX Window (1831.5-1835)
1831.5 (Europe)
1832 (JA)
1832.5 – 1834
Africa, EA, EA6 1830-50
1834.5 (Europe)
1835– 1835.5
1836 (EU/JA)
4J, 4L, UJ, UR, EU, EX, EY, EZ 1830-60
1837 (Europe)
1837.5 – 1839.5
1840 (NA/EU)
1840.5 – 1844.5
1845 (Europe)
1845.5 – 1849.5
1850 (NA)
1850.5 – 1853.5
1854 (Europe)
1854.5 – 1859.5
1860 (NA)
1860.5 – 1862.5
1863 (Europe)
1863.5 – 1869.5
1870 (NA)
1870.5 – 1871.5
1872 (Europe)
K8ND 090108a

US Amateur Radio Bands

US AMATEUR POWER LIMITS

FCC 97.313 An amateur station must use the minimum transmitter power necessary to carry out the desired communications.
(b) No station may transmit with a transmitter power exceeding 1.5 kW PEP.

ARRL The national association for AMATEUR RADIO®

Amateurs wishing to operate on either 2,200 or 630 meters must first register with the Utilities Technology Council online at **https://utc.org/plc-database-amateur-notification-process/.** You need only register once for each band.

2,200 Meters (135 kHz)



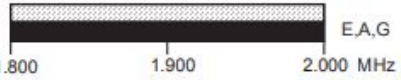
630 Meters (472 kHz)

5 W EIRP maximum, except in Alaska within 496 miles of Russia where the power limit is 1 W EIRP.

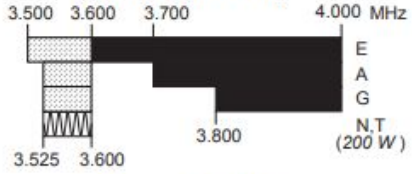


160 Meters (1.8 MHz)

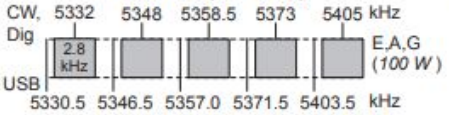
Avoid interference to radiolocation operations from 1.900 to 2.000 MHz



80 Meters (3.5 MHz)

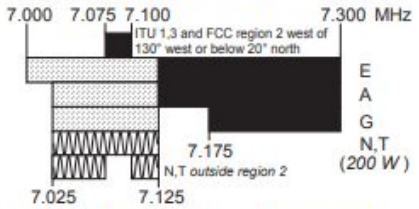


60 Meters (5.3 MHz)



General, Advanced, and Amateur Extra licensees may operate on these five channels on a secondary basis with a maximum effective radiated power (ERP) of 100 W PEP relative to a half-wave dipole. Permitted operating modes include upper sideband voice (USB), CW, RTTY, PSK31 and other digital modes such as PACTOR III. Only one signal at a time is permitted on any channel.

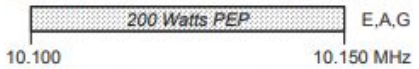
40 Meters (7 MHz)



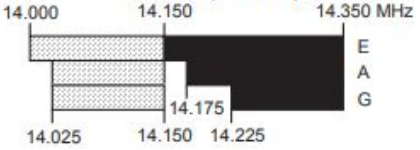
See Sections 97.305(c), 97.307(f)(11) and 97.301(e). These exemptions do not apply to stations in the continental US.

30 Meters (10.1 MHz)

Avoid interference to fixed services outside the US.



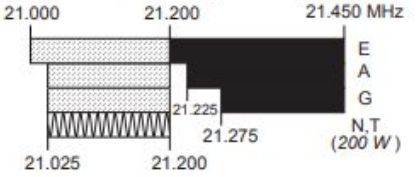
20 Meters (14 MHz)



17 Meters (18 MHz)



15 Meters (21 MHz)



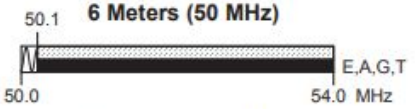
12 Meters (24 MHz)



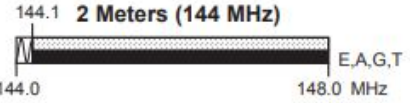
10 Meters (28 MHz)



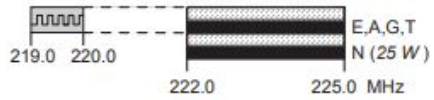
6 Meters (50 MHz)



2 Meters (144 MHz)



1.25 Meters (222 MHz)



*Geographical and power restrictions may apply to all bands above 420 MHz. See *The ARRL Operating Manual* for information about your area.

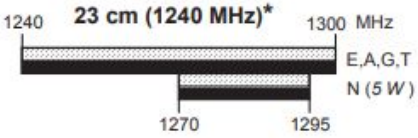
70 cm (420 MHz)*



33 cm (902 MHz)*



23 cm (1240 MHz)*



All licensees except Novices are authorized all modes on the following frequencies:

2300-2310 MHz	10.0-10.5 GHz ‡	122.25-123.0 GHz
2390-2450 MHz	24.0-24.25 GHz	134-141 GHz
3300-3500 MHz	47.0-47.2 GHz	241-250 GHz
5650-5925 MHz	76.0-81.0 GHz	All above 275 GHz

‡ No pulse emissions

KEY

Note:

CW operation is permitted throughout all amateur bands.

MCW is authorized above 50.1 MHz, except for 144.0-144.1 and 219-220 MHz.

Test transmissions are authorized above 51 MHz, except for 219-220 MHz

- = RTTY and data
- = phone and image
- = CW *only*
- = SSB phone
- = USB phone, CW, RTTY, and data.
- = Fixed digital message forwarding systems *only*

E = Amateur Extra
A = Advanced
G = General
T = Technician
N = Novice

See *ARRLWeb at www.arrl.org* for detailed band plans.

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