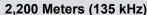
# **US Amateur Radio Bands**

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.



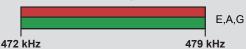
Amateurs wishing to operate on either 2,200 or 630 meters must first register with the Utilities Technology Council online at <a href="https://utc.org/plc-database-amateur-notification-process/">https://utc.org/plc-database-amateur-notification-process/</a>. You need only register once for each band.





#### 630 Meters (472 kHz)

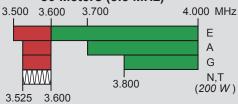
5 W EIRP maximum, except in Alaska within 496 miles of Russia where the power limit is 1 W EIRP.



#### 160 Meters (1.8 MHz)

Avoid interference to radiolocation operations from 1.900 to 2.000 MHz



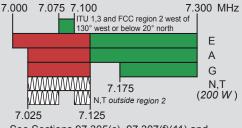


### 60 Meters (5.3 MHz)



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)



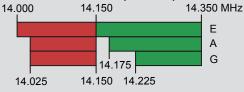
See Sections 97.305(c), 97.307(f)(11) and 97.301(e). These exemptions do not apply to stations in the continental US.

#### 30 Meters (10.1 MHz)

Avoid interference to fixed services outside the US.



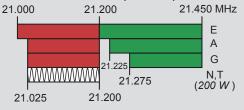
### 20 Meters (14 MHz)



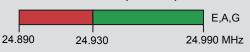
### 17 Meters (18 MHz)



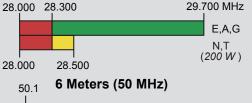
### 15 Meters (21 MHz)



#### 12 Meters (24 MHz)



## 10 Meters (28 MHz)



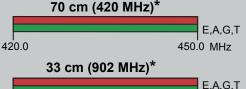
## E,A,G,T 50.0 54.0 MHz

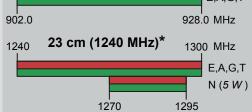


#### 1.25 Meters (222 MHz)



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





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		

#### KFY-

#### 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



WWW = CW only



= 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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