

# 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.

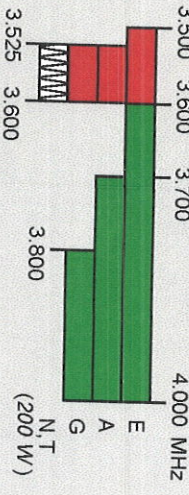


## 160 Meters (1.8 MHz)

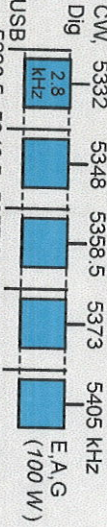
Avoid interference to radiolocation operations from 1,900 to 2,000 MHz



## 80 Meters (3.5 MHz)

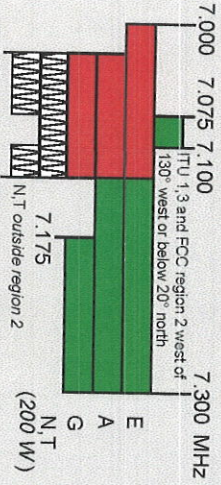


## 60 Meters (5.3 MHz)



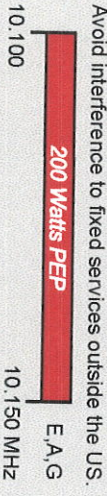
General Advanced, and Amateur Extra licensees may operate on these five channels on a secondary basis with a maximum effective radiated power (ERP) of 100 W PEP relative to a half-wave dipole. Permitted operating modes include upper sideband voice (USB), CW, RTTY, PSK31 and other digital modes such as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

## 40 Meters (7 MHz)

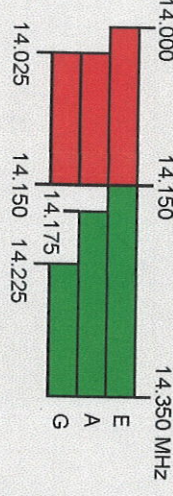


See Sections 97.305(c), 97.307(f)(1) and 97.301(e). These exemptions do not apply to stations in the continental US.

## 30 Meters (10.1 MHz)



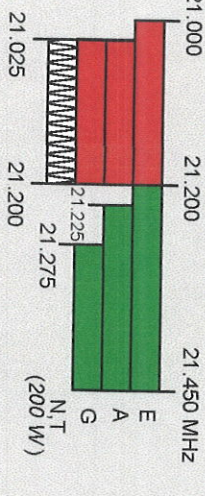
## 20 Meters (14 MHz)



## 17 Meters (18 MHz)



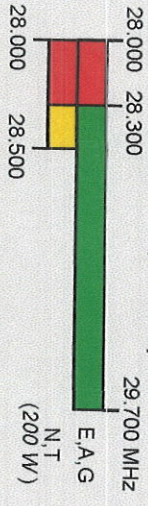
## 15 Meters (21 MHz)



## 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.

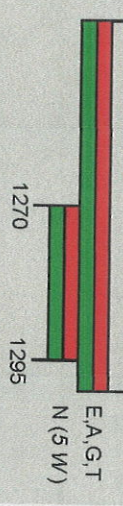
## 70 cm (420 MHz)\*



## 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

### KEY

- Note: CW operation is permitted throughout all amateur bands.
- MICW 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.
- [Red bar] = RTTY and data
- [Green bar] = phone and image
- [Blue bar] = CW only
- [Yellow bar] = SSB phone
- [Orange bar] = USB phone, CW, RTTY, and data
- [White bar with black border] = Fixed digital message forwarding systems only
- E = Amateur Extra
- A = Advanced
- G = General
- T = Technician
- N = Novice

See [ARRLWeb](http://ARRLWeb) at [www.arrl.org](http://www.arrl.org) for detailed band plans.

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