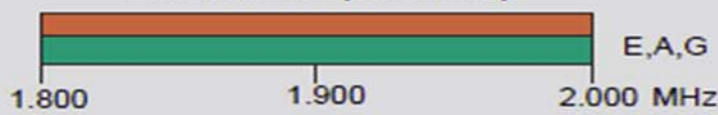
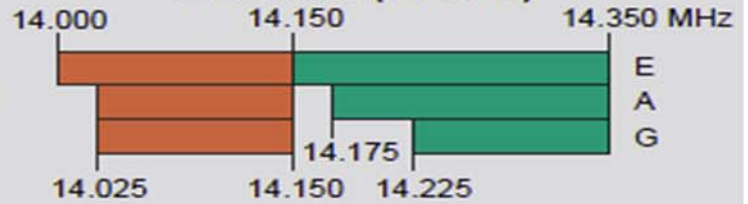


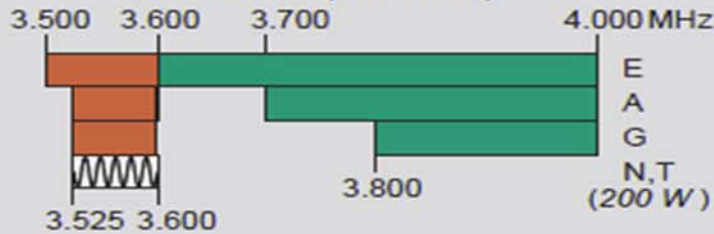
160 Meters (1.8 MHz)



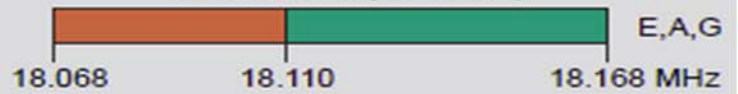
20 Meters (14 MHz)



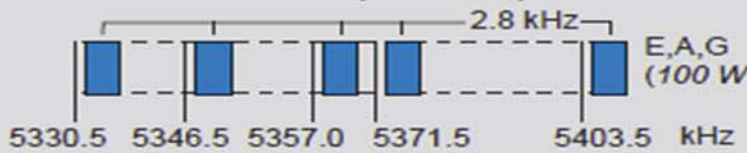
80 Meters (3.5 MHz)



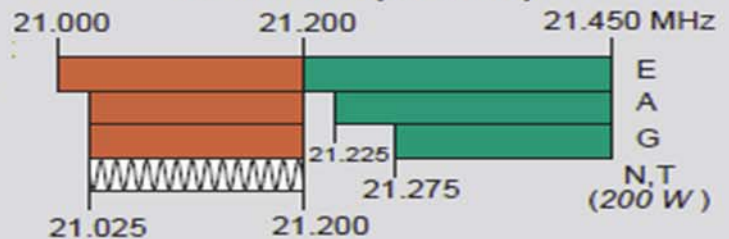
17 Meters (18 MHz)



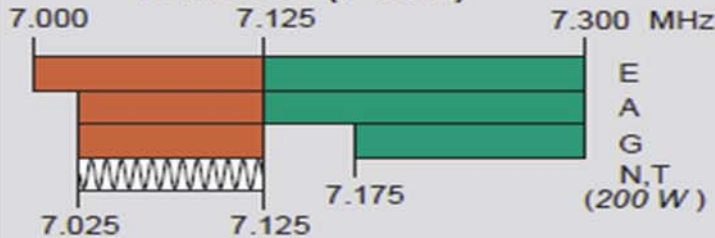
60 Meters (5.3 MHz)



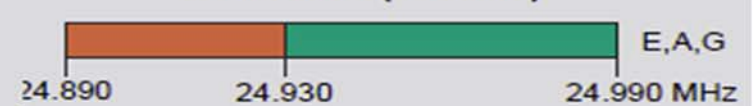
15 Meters (21 MHz)



40 Meters (7 MHz)



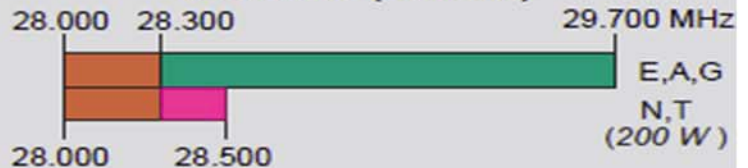
12 Meters (24 MHz)



30 Meters (10.1 MHz)



10 Meters (28 MHz)

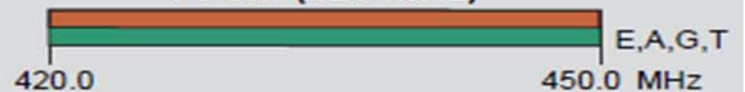


VHF & UHF BANDS

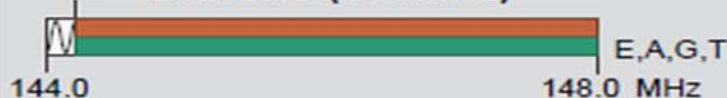
6 Meters (50 MHz)



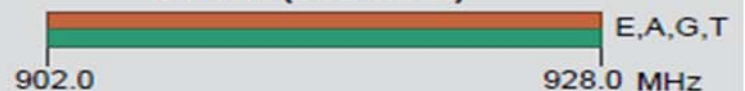
70 cm (420 MHz)*



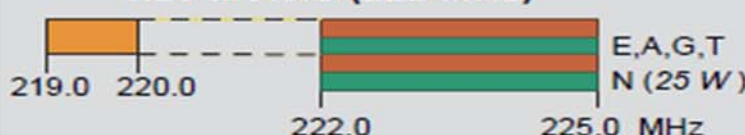
2 Meters (144 MHz)



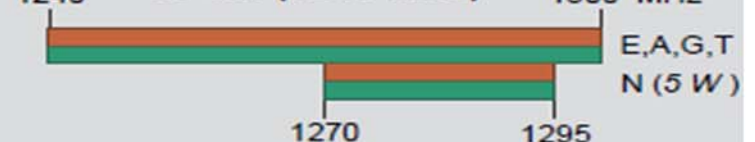
33 cm (902 MHz)*



1.25 Meters (222 MHz)



23 cm (1240 MHz)*



█ RTTY & data
 █ phone & image
 CW only
 █ USB phone, CW, RTTY & data
 █ SSB phone
 █ Fixed Digital Message Forwarding

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



- QRL • Is the frequency busy? The frequency is busy. Please do not interfere.**
- QRM • Abbreviation for interference from other signals.**
- QRN • Abbreviation for interference from natural or man-made static.**
- QRO • Shall I increase power? Increase power.**
- QRP • Shall I decrease power? Decrease power.**
- QRQ • Shall I send faster? Send faster (WPM).**
- QRS • Shall I send more slowly? Send more slowly (___WPM).**
- QRT • Shall I stop sending? Stop sending.**
- QRU • Have you anything more for me? I have nothing more for you.**
- QRV • Are you ready? I am ready.**
- QRX • Standby.**
- QRZ • Who is calling me?**
- QSB • Abbreviation for signal fading.**
- QSL • Received and understood.**
- QSO • Abbreviation for a contact.**
- QST • General call preceding a message addressed to all amateurs.**
- QSX • I am listening on ___ kHz.**
- QSY • Change to transmission on another frequency (or to ___ kHz).**
- QTH • What is your location? My location is ____.**

Phonetic Alphabet & Morse Code

- A = Alpha**
- B = Bravo**
- C = Charlie**
- D = Delta**
- E = Echo**
- F = Foxtrot**
- G = Golf**
- H = Hotel**
- I = India**
- J = Juliet**
- K = Kilo**
- L = Lima**
- M = Mike**
- N = November**
- O = Oscar**
- P = Papa**
- Q = Quebec**
- R = Romeo**
- S = Sierra**
- T = Tango**
- U = Uniform**
- V = Victor**
- W = Whiskey**
- X = X-ray**
- Y = Yankee**
- Z = Zulu**

A ● ———
B ——— ● ● ●
C ——— ● ——— ●
D ——— ● ●
E ●
F ● ● ——— ●
G ——— ——— ●
H ● ● ● ●
I ● ●
J ● ——— ——— ———
K ——— ● ———
L ● ——— ● ●
M ——— ———
N ——— ●
O ——— ——— ———
P ● ——— ——— ●
Q ——— ——— ● ———
R ● ——— ●
S ● ● ●
T ———

U ● ● ———
V ● ● ● ———
W ● ——— ———
X ——— ● ● ———
Y ——— ● ——— ———
Z ——— ——— ● ●

1 ● ——— ——— ———
2 ● ● ——— ———
3 ● ● ● ——— ———
4 ● ● ● ● ———
5 ● ● ● ● ●
6 ——— ● ● ● ●
7 ——— ——— ● ● ●
8 ——— ——— ——— ● ●
9 ——— ——— ——— ——— ●
0 ——— ——— ——— ——— ———

