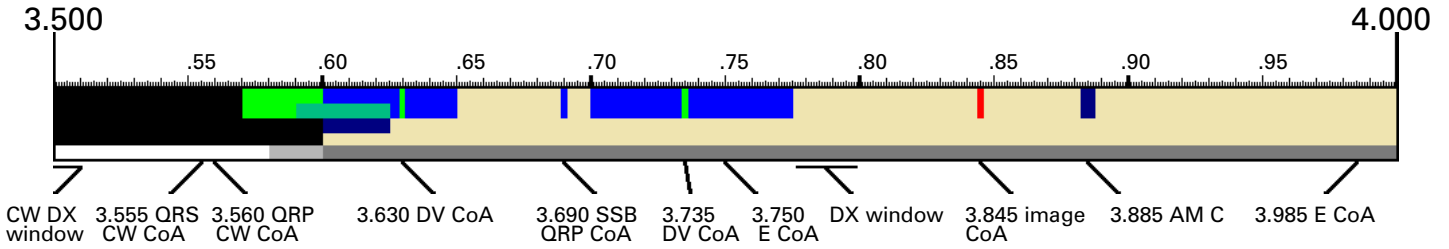
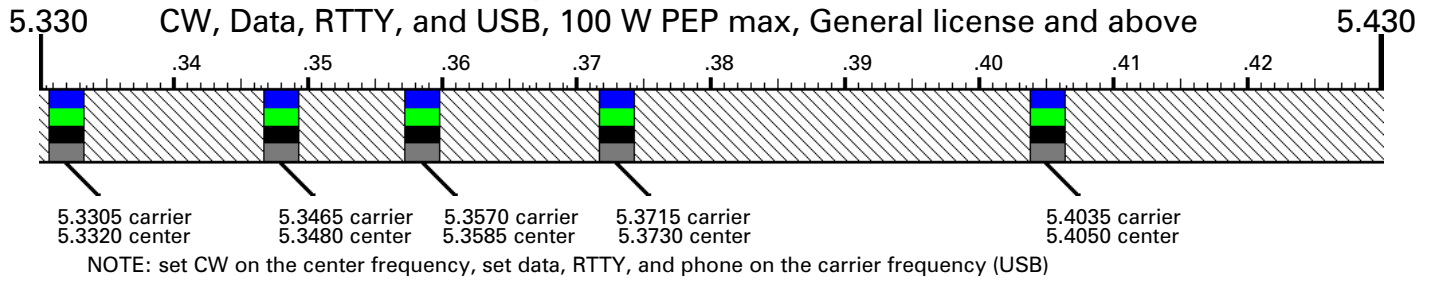


# HF Band Plan

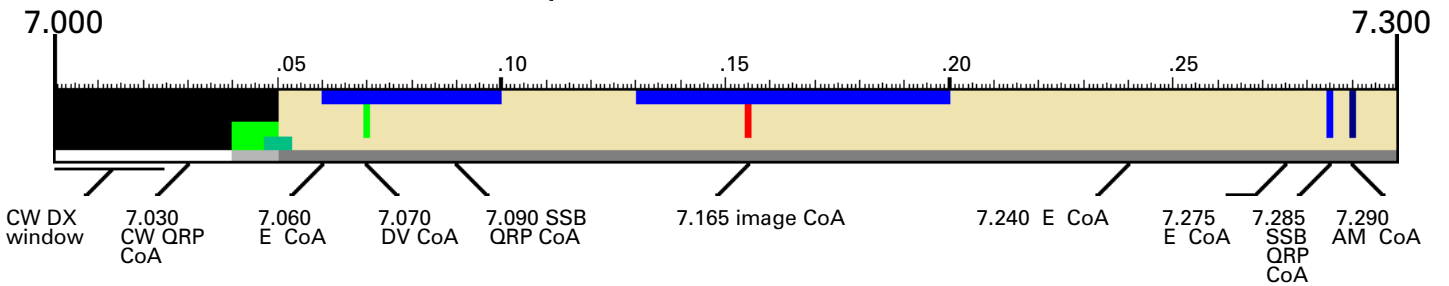
## 80 M, 3.500 - 4.000 MHz



## 60 M, 5.330 - 5.407 MHz



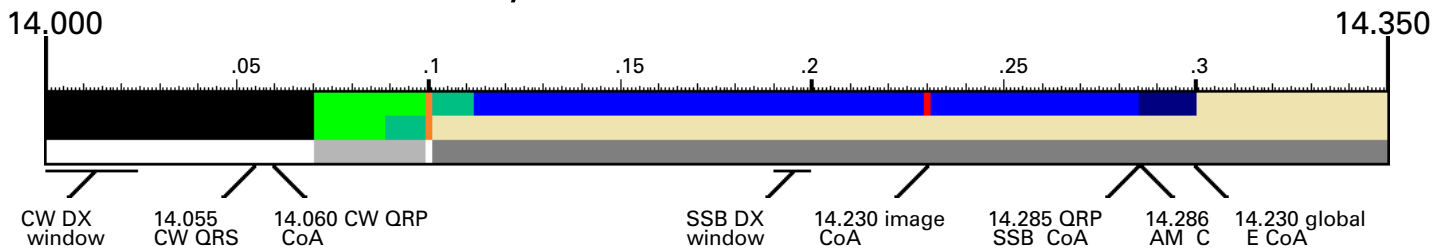
## 40 M, 7.000 - 7.300 MHz

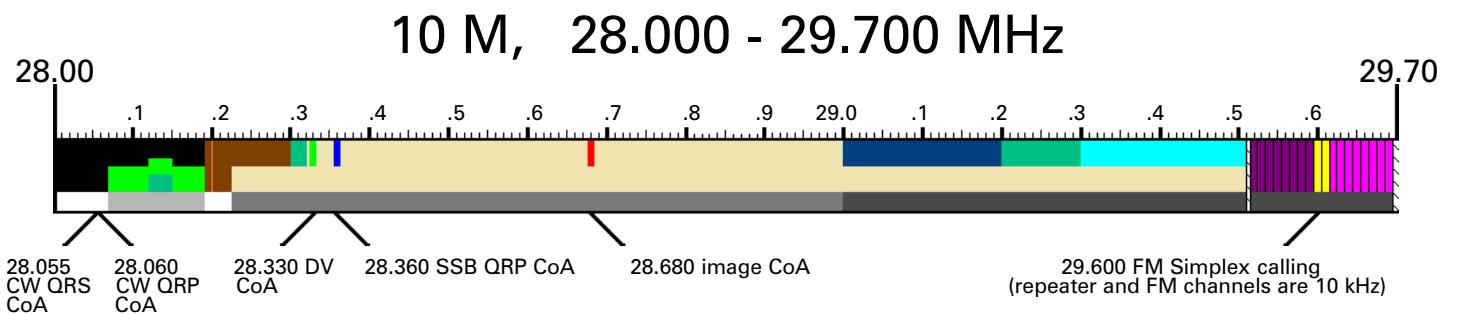
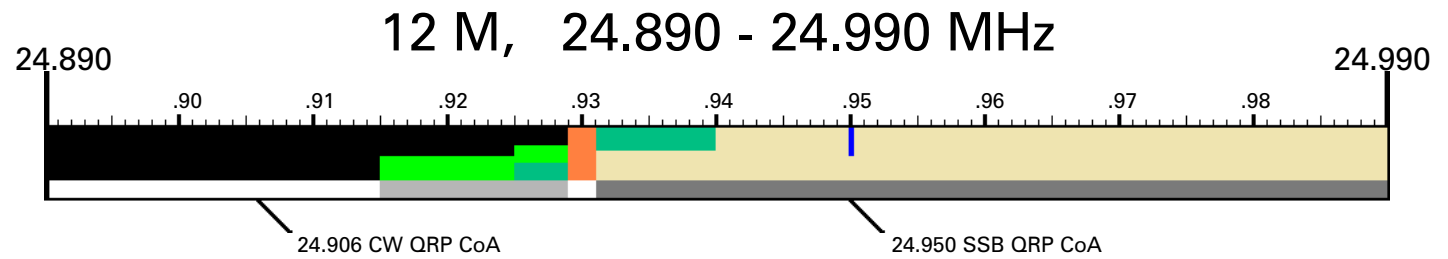
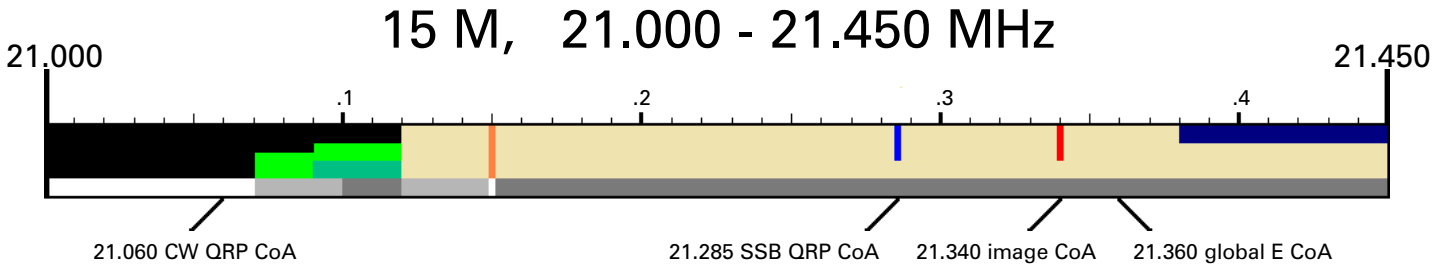
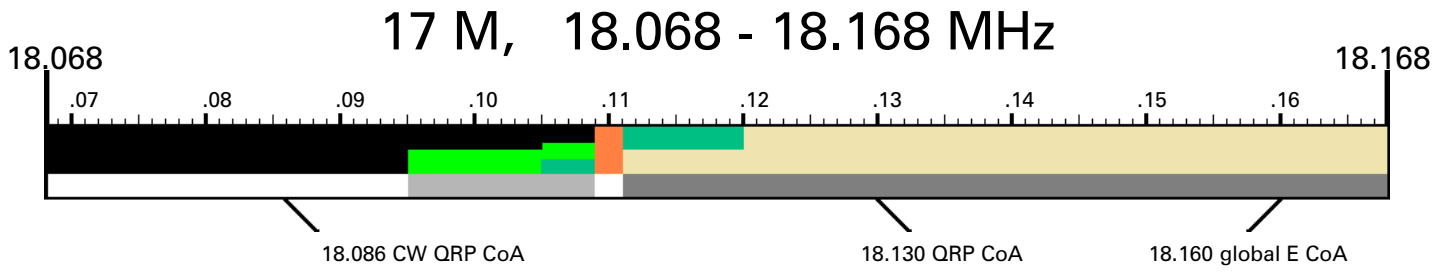


## 30 M, 10.100 - 10.150 MHz



## 20 M, 14.000 - 14.350 MHz





AM (6 kHz bandwidth exception)	Guard band (no TX)
Beacons	Phone (non-FM, SSB)
NCDXF Beacons	Repeater input (FM, DV)
CW	Repeater Output (FM, DV)
Digital (RTTY, data)	Satellite (downlinks)
Digital Automatically controlled	200 Hz bandwidth
Image (FAX, SSTV)	500 Hz bandwidth
FM Simplex	2.7 kHz bandwidth
All Modes	6 kHz bandwidth

CoA – Center of Activity    C – Calling    DV – Digital Voice    E – Emergency

References: IARU, HF band plan for region 2, effective Oct. 14, 2016 [www.iaru-r2.org/band-plan](http://www.iaru-r2.org/band-plan)  
 ARRL [www.arrl.org](http://www.arrl.org)  
 Beacons: NCDXF [www.ncdxf.org/beacons.html](http://www.ncdxf.org/beacons.html)

# Typical Digital and Image Usage

These frequencies were gathered from several sources, there's no guarantee it is complete or accurate.

This list is intended to serve as guidelines as to where activity in each mode might be found.

	AMTOR	CLOVER	MFSK16	MT63	PACKET	PACTOR	PSK31	RTTY	THROB
80 M	3.618, 3.620 3.622, 3.625	3.628 3.630	3.580 3.584	3.590 3.635	3.594 3.598 3.607	3.585, 3.611 3.618, 3.620 3.622	3.58015 3.582	3.550-3.650 3.590	3.580
40 M	7.076 7.1005	7.066 7.067	7.037 7.740	7.035 7.037	7.038, 7.0865 7.091 7.1005 †	7.045 7.060-7.080	7.035 7.08015 7.1032 ‡	7.077-7.090 7.040 7.080	7.037
30 M	10.126 10.128	10.137 10.143	10.137-10.14 10.147 10.148	10.140	10.141 † 10.145, 10.149 10.147 †	10.130-10.140 10.145	10.130 10.1389 ‡ 10.140 10.14215	10.130-10.140	10.147 10.148
20 M	14.065-14.085 14.0715 14.076, 14.098	14.067 14.114	14.075 14.080	14.106 14.109 14.114	14.098 †, 14.102, 14.105 14.108	14.060-14.080 14.080, 14.111 14.780	14.07015 14.097 ‡	14.070-14.095	14.075 14.080
17 M			18.105	18.105	18.106 18.108	18.100-18.110 18.095, 18.113	18.10015 18.1039 ‡	18.100-18.109	18.105
15 M			21.080	21.130	21.096 21.098	21.060-21.080 21.080	21.070 21.08015 21.1188 ‡	21.070-21.120	21.080
12 M			24.929	24.925	24.926 24.928	24.925	24.92015	24.920-24.929	24.929
10 M			28.080	28.130	28.102 28.104	28.080-28.120 28.110	28.12015	28.070-28.150	28.080

† packet BBS forwarding

‡ PSK31 beacons

**RTTY or AMTOR:** Listed frequencies are with the MARK tone. MARK is the low tone, SPACE is the high tone. The dial frequency is the carrier. To set the listed frequencies with the MARK tone: on LSB **add** the MARK frequency to the carrier frequency to get the dial frequency, and for USB **subtract** the MARK frequency from the carrier frequency to get the dial frequency.

	FAX	Hellschreiber	SSTV
80 M	3.730-3.740	3.574-3.584	3.730 , 3.840, 3.845, 3.857
40 M	7.035-7.045	7.037, 7.077-7.084	7.035-7.045, 7.170, 7.171, 7.172
30 M		10.137	
20 M	14.230	14.063-14.069, 14.0635 , 14.074	14.230, 14.233, 14.236
17 M		18.103, 18.104	
15 M	21.340	21.063, 21.074	21.340
12 M		24.924	
10 M	28.680	28.074, 28.12015	28.680, 28.690, 28.700

FM Repeater Pair	
Output	Input
29.620	29.520
29.630	29.530
29.640	29.540
29.650	29.550
29.660	29.560
29.670	29.570
29.680	29.580
29.690	29.590
FM Simplex	
29.600	calling
29.610	