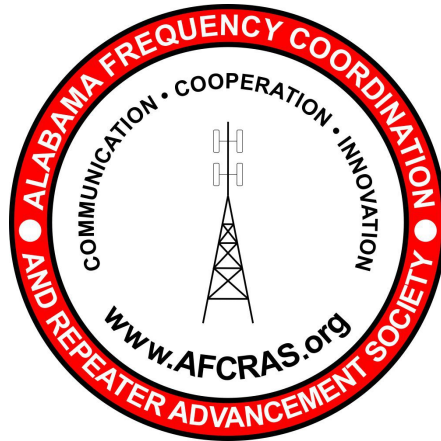


Alabama Frequency Coordination & Repeater Advancement Society



Frequency Utilization Plan: 2-Meter (144-148 MHz) VHF Spectrum

*Revision 20180206b
Approved and Adopted February 13, 2018*

144-148 MHz Spectrum Utilization General Overview

144.000 - 144.050	EME CW
144.050 - 144.100	General CW Operation
144.100	CW National Calling Frequency
144.100 - 144.200	EME and Weak Signal SSB
144.200	SSB National Calling Frequency
144.200 - 144.300	General SSB Operation
144.275 - 144.300	Propagation Beacons
144.300 - 144.500	Multi-Mode Operation
144.390	APRS Nationwide (Mode = 1200 Baud FM Packet)
144.510 - 144.890	FM and D-Star Repeater Inputs
144.910 - 145.090	FM Digital/Packet Simplex and D-Star Repeater Outputs
145.110 - 145.490	FM and D-Star Repeater Outputs
145.510 - 145.790	FM Digital/Packet Simplex (Auxiliary)
145.800 - 146.000	Satellite Sub-Band
146.010 - 146.385	FM and APCO P25 Repeater Inputs
146.400 - 146.585	FM Voice Simplex and Alternate Repeater Inputs
146.420 - 146.480	D-Star Voice Simplex and Repeater Inputs
146.520	FM National Calling Frequency
146.610 - 147.390	FM and APCO P25 Repeater Outputs
147.405 - 147.585	FM Voice Simplex and Alternate Repeater Inputs
147.420 - 147.480	D-Star Voice Simplex and Repeater Inputs
147.600 - 147.990	FM and APCO P25 Repeater Inputs

Analog FM Repeaters

Repeater Sub-band 144.50 - 145.50 MHz

20 KHz spacing, 600 KHz in/out

144.510 - 145.110
144.530 - 145.130
144.550 - 145.150
144.570 - 145.170
144.590 - 145.190
144.610 - 145.210
144.630 - 145.230
144.650 - 145.250
144.670 - 145.270
144.690 - 145.290
144.710 - 145.310
144.730 - 145.330
144.750 - 145.350
144.770 - 145.370
144.790 - 145.390
144.810 - 145.410
144.830 - 145.430
144.850 - 145.450
144.870 - 145.470
144.890 - 145.490

These pairs are available for the coordination and assignment of analog FM repeaters. Their coordination and assignment is determined using nominal FM coordination guidelines, and other considerations, and those pertinent to co-channel and adjacent channel assignment.

D-Star and NXDN Repeater Pairs

20 KHz spacing, 600 KHz in/out

144.520 - 145.120

144.540 - 145.140

144.560 - 145.160

144.580 - 145.180

144.600 - 145.200

144.620 - 145.220

144.640 - 145.240

144.660 - 145.260

144.680 - 145.280

144.700 - 145.300

144.720 - 145.320

144.740 - 145.340

144.760 - 145.360

144.780 - 145.380

144.800 - 145.400

144.820 - 145.420

144.840 - 145.440

144.860 - 145.460

144.880 - 145.480

D-Star - NXDN - P25 Only Repeater Pairs (wide offsets)

***** D-Star Only Repeater Pairs *****

20 KHz spacing, 2500 KHz in/out

147.420 - 144.920

147.440 - 144.940

147.460 - 144.960

147.480 - 144.980

D-Star - NXDN - P25 Only Repeater Pairs

20 KHz spacing, 1400 KHz in/out

146.420 - 145.020

146.440 - 145.040

146.460 - 145.060

146.480 - 145.080

IMPORTANT NOTE: Due to the prior assignment of frequencies in these ranges for alternate FM repeater inputs, these D-Star only pairs may not initially be available in all areas.

Digital/Packet Simplex Frequencies

144.910
144.930
144.950
144.970
144.990
145.010
145.030
145.050
145.070
145.090
145.510
145.530
145.550
145.570
145.590
145.610
145.630
145.650
145.670
145.690
145.710
145.730
145.750
145.770
145.790

FM Voice Simplex Frequencies

146.400*
146.415*
146.430*
146.445*
146.460*
146.475*
146.490*
146.505*
146.520 National FM Voice Simplex Calling Frequency
146.535
146.550
146.565
146.580
146.595
147.405*
147.420*
147.435*
147.450*
147.465*
147.480*
147.495*
147.510
147.525
147.540
147.555
147.570
147.585

IMPORTANT NOTE: = Frequencies marked with * are permitted for simplex use as long as it does not cause interference to nearby repeater inputs. SERA and other frequency coordinator service providers coordinate some of these frequencies as repeater inputs in some areas. Consult available repeater directories and other sources and carefully monitor these frequencies to determine whether or not such repeaters may be present.

D-Star - DMR - NXDN - P25 Digital Voice Simplex Frequencies

146.420*

146.440*

146.460*

146.480*

147.420*

147.440*

147.460*

147.480*

IMPORTANT NOTE: Frequencies marked with * are permitted for simplex use as long as it does not cause interference to nearby repeater inputs. Please be aware that SERA and other coordinating entities may coordinate some of these frequencies as repeater inputs in some areas. Be sure to check check repeater directories and other sources of information for repeater coordinations in your area to see if any such repeaters are present. The use of these frequencies for D-Star operation, whether for simplex or repeater inputs, may impact FM simplex and repeater operations and such utilization should be considered very carefully.

Standard Repeater Band 146 - 148 MHz

15 KHz spacing, 600 KHz in/out, (with alternate input & output frequency pairs shown)

146.010 - 146.610
146.025 - 146.625
146.040 - 146.640
146.055 - 146.655
146.070 - 146.670
146.085 - 146.685
146.100 - 146.700
146.115 - 146.715
146.130 - 146.730
146.145 - 146.745
146.160 - 146.760
146.175 - 146.775
146.190 - 146.790
146.205 - 146.805
146.220 - 146.820
146.235 - 146.835
146.250 - 146.850
146.265 - 146.865
146.280 - 146.880
146.295 - 146.895
146.310 - 146.910
146.325 - 146.925
146.340 - 146.940
146.355 - 146.955
146.370 - 146.970
146.385 - 146.985
146.400 - 147.000
146.415 - 147.015*
146.430 - 147.030*
146.445 - 147.045*
146.460 - 147.060*
146.475 - 147.075*
146.490 - 147.090*
146.505 - 147.105
147.405 - 146.805
147.420 - 146.820*
147.435 - 146.835*
147.450 - 146.850*
147.465 - 146.865*
147.480 - 146.880*
147.495 - 146.895
147.600 - 147.000
147.615 - 147.015
147.630 - 147.030
147.645 - 147.045
147.660 - 147.060

147.675 - 147.075
147.690 - 147.090
147.705 - 147.105
147.720 - 147.120
147.735 - 147.135
147.750 - 147.150
147.765 - 147.165
147.780 - 147.180
147.795 - 147.195
147.810 - 147.210
147.825 - 147.225
147.840 - 147.240
147.855 - 147.255
147.870 - 147.270
147.885 - 147.285
147.900 - 147.300
147.915 - 147.315
147.930 - 147.330
147.945 - 147.345
147.960 - 147.360
147.975 - 147.375
147.990 - 147.390

IMPORTANT NOTE: Due to the allocation of frequencies in this range for D-Star repeater inputs, *it is recommended that the frequency pairs marked with * utilizing these alternate inputs be avoided for future applications and frequency assignments..*