

SERA FREQUENCY UTILIZATION PLAN for 144 - 148 MHz

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 - 144.300	General SSB Operation
144.200	SSB National Calling Frequency
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

Repeater Sub-band 144.50 - 145.50 MHz

20 Repeater Pairs, 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.

19 D-Star Only 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		

These interleaved pairs are exclusively available for the coordination and assignment of D-Star digital voice technology (DVT) repeaters, which is determined using nominal FM coordination guidelines and other considerations relating to the narrow bandwidth signals of DVT and those pertinent to co-channel and adjacent channel assignment.

D-Star Only Repeater Pairs (wide offsets)

4 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		

4 D-Star 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

25 Simplex Channels

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	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			

146.520 is the National FM Voice Simplex Calling Frequency

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 coordinates some of these frequencies as repeater inputs in some areas. Check the repeater directory in your area to see if any such repeaters are present.

D-Star 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 coordinates some of these frequencies as repeater inputs in some areas. Check the repeater directory 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 their selection should be carefully considered.

Standard Repeater Band 146 - 148 MHz 68 Repeater Pairs, 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 - 146.910 146.355 - 146.955	146.325 - 146.925 146.370 - 146.970	146.340 - 146.940 146.385 - 146.985
146.400 - 147.000 146.445 - 147.045* 146.490 - 147.090*	146.415 - 147.015* 146.460 - 147.060* 146.505 - 147.105	146.430 - 147.030* 146.475 - 147.075*
147.405 - 146.805 147.450 - 146.850* 147.495 - 146.895	147.420 - 146.820* 147.465 - 146.865*	147.435 - 146.835* 147.480 - 146.880*
147.600 - 147.000 147.645 - 147.045 147.690 - 147.090	147.615 - 147.015 147.660 - 147.060 147.705 - 147.105	147.630 - 147.030 147.675 - 147.075
147.720 - 147.120 147.765 - 147.165 147.810 - 147.210 147.855 - 147.255 147.900 - 147.300 147.945 - 147.345 147.990 - 147.390	147.735 - 147.135 147.780 - 147.180 147.825 - 147.225 147.870 - 147.270 147.915 - 147.315 147.960 - 147.360	147.750 - 147.150 147.795 - 147.195 147.840 - 147.240 147.885 - 147.285 147.930 - 147.330 147.975 - 147.375

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 * using these alternate inputs not be selected for application and assignment for FM repeaters going forward.

Changes to the SERA 144-148 MHz FUP approved by action of the SERA Board of Directors on January 05, 2008.
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