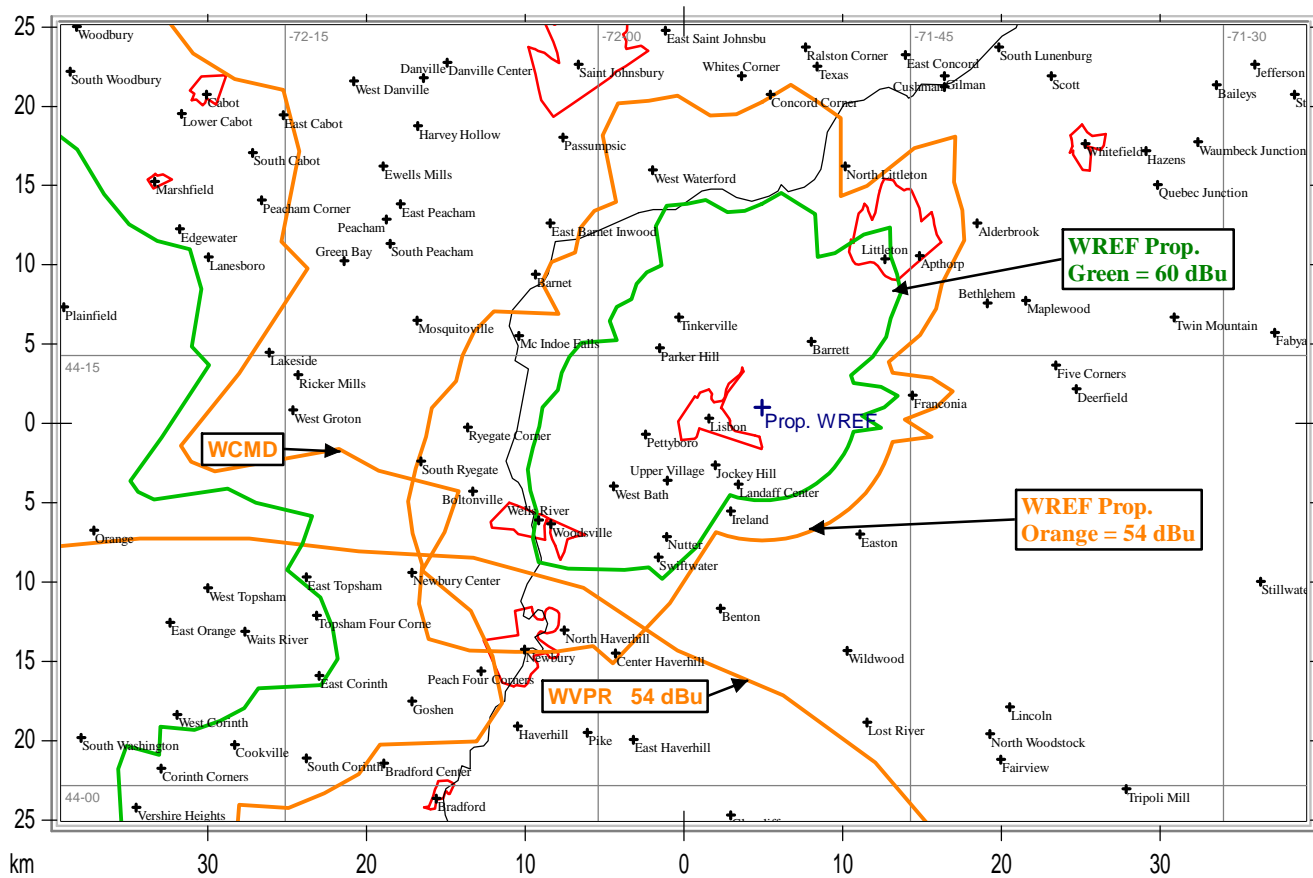


Prop. WREF CP Mod. does not interfere with any other Station or Authorization



Prop. WREF Facilities will be co-located on the WLTN-FM Tower.

State Borders City Borders Lat/Lon Grid

**Prop. WRE, Ch. 209 @ WLTN-FM, Lisbon, NH**  
**Frequency Separation Study (Table)**

**44-13-11.0 N, 71-52-7.0 W**

**130 Watts ERP @ 38 Meters AGL**

Close by protected stations are listed in Red

<u>Callsign</u>	<u>State</u>	<u>City</u>	<u>Freq</u>	<u>Channel</u>	<u>ERP_w</u>	<u>Class</u>	<u>Status</u>	<u>Distance km</u>	<u>Sep</u>	<u>Clr</u>
	QU	FLEURIMONT	89.7	209	0	B		130.82	206	24.85 dB
	QU	SHERBROOKE	89.7	209	0	B		130.82	206	24.85 dB
	QU	SHERBROOKE	89.7	209	0	B		125.21	206	22.23 dB
CBF-2	QC	SHERBROOKE	89.7	209	680	B		130.82	206	13.25 dB
CBF-FM-20	QU	SAINT-DONAT	89.7	209	10000	B		298.92	206	33.66 dB
CBMT	QC	MONTREAL	82.1	6	100000	TV	LIC	197.43	0	0
CBVT-6	QC	BEARN/FABRE	82.1	6	11100	TV	APP	239.67	0	0
CBVT6	QC	BEAUCEVILLE	82.1	6	19500	TV	LIC	239.67	0	0
NEW	NH	DUBLIN	89.9	210	4500	A	CP	148.1	72	27.33 dB
NEW	QU	SAINT-DONAT	89.7	209	11600	B		292.74	206	30.97 dB
NEW	VT	MIDDLEBURY	89.1	206	3100	A	CP	105.76	31	39.68 dB
VACANT	QC	MONTR AL	82.1	6	2400	TV	APP	197.43	0	0
W12BZ	NY	ROME	82.1	6	600	TV	APP	312.13	0	0
<b>WCMD-FM</b>	<b>VT</b>	<b>BARRE</b>	<b>89.9</b>	<b>210</b>	<b>940</b>	<b>A</b>	<b>LIC</b>	<b>49.74</b>	<b>72</b>	<b>3.10 dB</b>
WERU-FM	ME	BLUE HILL	89.9	210	11500	B	LIC	262.59	113	37.86 dB
WEVF	NH	COLEBROOK	90.3	212	270	A	LIC	91.03	31	31.68 dB
WEVO	NH	CONCORD	89.1	206	15000	B1	LIC	114.15	48	31.72 dB
WEVO	NH	CONCORD	89.1	206	50000	B	LIC	114.15	69	25.26 dB
WGBH	MA	BOSTON	89.7	209	22500	B	LIC	231.36	178	17.81 dB
WGBH	MA	BOSTON	89.7	209	98000	B	LIC	231.36	178	11.02 dB
WKVJ	NY	DANNEMORA	89.7	209	4400	C2	LIC	149.21	166	10.40 dB
WMEA	ME	PORTLAND	90.1	211	24500	C	LIC	101.08	95	9.74 dB
WMEA	ME	PORTLAND	90.1	211	48300	C	CP	101.08	95	8.19 dB
WMHB	ME	WATERVILLE	89.7	209	110	A	LIC	179.85	115	34.94 dB
WMSJ	ME	FREEPORT	89.3	207	7500	B1	LIC	133.85	48	38.54 dB
WMSJ	ME	FREEPORT	89.3	207	14000	B	CP	133.85	69	34.90 dB
WNGF	VT	SWANTON	89.9	210	10000	C3	CP	126.92	89	35.04 dB

WRGB	NY	SCHENECTADY	82.1	6	4640	TV	CP	247.93	0	0
WRGB	NY	SCHENECTADY	82.1	6	14000	TV	APP	246.16	0	0
WRGB	NY	SCHENECTADY	82.1	6	30200	TV	CP	247.93	0	0
WSLU	NY	CANTON	89.5	208	40000	C2	LIC	259.67	106	37.95 dB
WSSK	NY	SARATOGA SPRINGS	89.7	209	50	A	LIC	190.21	115	32.78 dB
WTBP	ME	BATH	89.7	209	10500	B1	CP MOD	183.65	143	15.07 dB
WTBR-FM	MA	PITTSFIELD	89.7	209	380	A	LIC	226.4	115	38.47 dB
<b>WVPR</b>	<b>VT</b>	<b>WINDSOR</b>	<b>89.5</b>	<b>208</b>	<b>1700</b>	<b>B</b>	<b>LIC</b>	<b>98.78</b>	<b>113</b>	<b>0.68 dB</b>
WWDG-CA	NY	ROME	82.1	6	600	TV	APP	312.13	0	0
WXLG	NY	NORTH CREEK	89.9	210	200	C3	LIC	185.33	89	33.83 dB
WYTC-LP	VT	HYDE PARK	89.1	206	100	LP100	LIC	74.06	29	39.17 dB

**WREF Ch. 209, Lisbon, New Hampshire**  
**Distance to 70 dBu Contour**

**Site:** Prop. WREF  
**Coordinat** 44-13-11.0 N, 71-52-07.0 W  
**Freq:** 89.70000 MHz  
**ERP:** 130.00 W

<u>Bearing</u>	<u>ERP W</u>	<u>HAAT</u>	<u>DH</u>	<u>Distance</u>	<u>Lat</u>	<u>Lon</u>
0	130	145	290	13.16	44.3381	-71.8686
5	130	160	440	13.89	44.3442	-71.8534
10	130	149	440	13.36	44.33809	-71.8394
15	130	140	280	12.91	44.33189	-71.8266
20	130	88	320	10.35	44.30716	-71.8241
25	130	100	210	10.99	44.3093	-71.8102
30	130	140	220	12.91	44.32026	-71.7875
35	130	166	220	14.18	44.32414	-71.7664
40	130	136	300	12.72	44.30734	-71.7658
45	130	124	290	12.15	44.29697	-71.7606
50	130	110	460	11.5	44.28617	-71.7579
55	130	82	600	9.99	44.27124	-71.7658
60	130	68	430	9.13	44.26075	-71.7693
65	130	50	400	7.76	44.24919	-71.7803
70	130	-18	240	6.01	44.2382	-71.7977
75	130	-6	810	6.01	44.2337	-71.7957
80	130	49	840	7.68	44.23168	-71.7737
85	130	61	940	8.66	44.22646	-71.7603
90	130	50	640	7.76	44.21968	-71.7712
95	130	34	710	6.37	44.2147	-71.789
100	130	49	780	7.68	44.20769	-71.7737
105	130	7	730	6.01	44.2057	-71.7957
110	130	-32	840	6.01	44.2012	-71.7977
115	130	-94	560	6.01	44.19684	-71.8002
120	130	-106	660	6.01	44.19266	-71.8033
125	130	-124	430	6.01	44.18868	-71.8068
130	130	-160	630	6.01	44.18494	-71.8108
135	130	-210	700	6.01	44.18146	-71.8153
140	130	-158	690	6.01	44.17828	-71.8201
145	130	-108	470	6.01	44.1754	-71.8254
150	130	-78	500	6.01	44.17287	-71.8309
155	130	-73	530	6.01	44.17069	-71.8367
160	130	-38	500	6.01	44.16889	-71.8428
165	130	11	630	6.01	44.16747	-71.8491
170	130	28	820	6.01	44.16645	-71.8555
175	130	6	770	6.01	44.16584	-71.862
180	130	8	470	6.01	44.16563	-71.8686

185	130	6	460	6.01	44.16584	-71.8752
190	130	10	300	6.01	44.16645	-71.8817
195	130	18	380	6.01	44.16747	-71.8881
200	130	26	290	6.01	44.16889	-71.8944
205	130	82	100	9.99	44.13824	-71.9215
210	130	137	150	12.77	44.12022	-71.9486
215	130	134	220	12.63	44.12664	-71.9594
220	130	156	220	13.71	44.12524	-71.979
225	130	180	250	14.79	44.1256	-71.9996
230	130	216	360	16.2	44.12596	-72.0241
235	130	248	320	17.44	44.12959	-72.0477
240	130	233	320	16.88	44.14368	-72.0518
245	130	208	340	15.88	44.15922	-72.049
250	130	204	350	15.72	44.1712	-72.0539
255	130	198	370	15.49	44.18351	-72.0563
260	130	182	380	14.86	44.19636	-72.0522
265	130	168	420	14.27	44.2084	-72.047
270	130	162	390	13.98	44.21959	-72.0441
275	130	143	380	13.06	44.22984	-72.0319
280	130	141	290	12.96	44.23985	-72.0288
285	130	136	250	12.72	44.24924	-72.0229
290	130	126	300	12.25	44.25731	-72.0132
295	130	86	260	10.23	44.25857	-71.9851
300	130	104	320	11.2	44.27002	-71.9904
305	130	106	290	11.3	44.27797	-71.9849
310	130	98	280	10.89	44.28261	-71.9734
315	130	106	430	11.3	44.29155	-71.969
320	130	108	460	11.4	44.29826	-71.9607
325	130	104	420	11.2	44.3022	-71.9493
330	130	152	340	13.51	44.32493	-71.9535
335	130	170	220	14.37	44.3368	-71.945
340	130	162	280	13.98	44.33791	-71.9288
345	130	159	190	13.85	44.34	-71.9137
350	130	138	180	12.82	44.33325	-71.8966
355	130	136	330	12.72	44.33372	-71.8826

**WREF Ch. 209, Lisbon, New Hampshire**  
**Distance to 60 dBu Contour**

**Site:** Prop. WREF  
**Coordinat** 44-13-11.0 N, 71-52-07.0 W  
**Freq:** 89.70000 MHz  
**ERP:** 130.00 W

<u>Bearing</u>	<u>ERP W</u>	<u>HAAT</u>	<u>DH</u>	<u>Distance</u>	<u>Lat</u>	<u>Lon</u>
0	130	145	290	19.73	44.3972	-71.8686
5	130	160	440	20.92	44.40715	-71.8457
10	130	149	440	20.06	44.39737	-71.8248
15	130	140	280	19.32	44.38757	-71.8057
20	130	88	320	14.53	44.3425	-71.8061
25	130	100	210	15.78	44.34829	-71.7848
30	130	140	220	19.32	44.37017	-71.7471
35	130	166	220	21.37	44.37705	-71.7144
40	130	136	300	18.99	44.35048	-71.7151
45	130	124	290	18	44.33412	-71.7085
50	130	110	460	16.77	44.31659	-71.7071
55	130	82	600	13.93	44.29151	-71.7252
60	130	68	430	12.78	44.27712	-71.7296
65	130	50	400	11.08	44.26176	-71.7425
70	130	-18	240	8.59	44.24609	-71.7673
75	130	-6	810	8.59	44.23967	-71.7645
80	130	49	840	10.96	44.23676	-71.7331
85	130	61	940	12.2	44.22918	-71.7161
90	130	50	640	11.08	44.21964	-71.7296
95	130	34	710	9.09	44.21254	-71.7549
100	130	49	780	10.96	44.20252	-71.7332
105	130	7	730	8.59	44.19969	-71.7645
110	130	-32	840	8.59	44.19326	-71.7674
115	130	-94	560	8.59	44.18704	-71.771
120	130	-106	660	8.59	44.18107	-71.7753
125	130	-124	430	8.59	44.17539	-71.7804
130	130	-160	630	8.59	44.17005	-71.7861
135	130	-210	700	8.59	44.16508	-71.7925
140	130	-158	690	8.59	44.16054	-71.7994
145	130	-108	470	8.59	44.15644	-71.8069
150	130	-78	500	8.59	44.15282	-71.8148
155	130	-73	530	8.59	44.14971	-71.8231
160	130	-38	500	8.59	44.14714	-71.8318
165	130	11	630	8.59	44.14512	-71.8408
170	130	28	820	8.59	44.14366	-71.8499
175	130	6	770	8.59	44.14278	-71.8592
180	130	8	470	8.59	44.14249	-71.8686

185	130	6	460	8.59	44.14278	-71.878
190	130	10	300	8.59	44.14366	-71.8873
195	130	18	380	8.59	44.14512	-71.8965
200	130	26	290	8.59	44.14714	-71.9054
205	130	82	100	13.93	44.10612	-71.9424
210	130	137	150	19.07	44.07108	-71.988
215	130	134	220	18.83	44.08091	-72.0038
220	130	156	220	20.61	44.07758	-72.0345
225	130	180	250	22.32	44.07758	-72.0662
230	130	216	360	24.4	44.0784	-72.1027
235	130	248	320	26.01	44.08521	-72.1354
240	130	233	320	25.3	44.10562	-72.143
245	130	208	340	23.96	44.12834	-72.1407
250	130	204	350	23.73	44.14638	-72.1481
255	130	198	370	23.39	44.16493	-72.1518
260	130	182	380	22.44	44.18434	-72.1458
265	130	168	420	21.51	44.20254	-72.1375
270	130	162	390	21.07	44.21942	-72.1331
275	130	143	380	19.57	44.2348	-72.1133
280	130	141	290	19.4	44.24978	-72.1086
285	130	136	250	18.99	44.26371	-72.099
290	130	126	300	18.17	44.27542	-72.0831
295	130	86	260	14.33	44.27409	-72.0318
300	130	104	320	16.18	44.29235	-72.0447
305	130	106	290	16.38	44.30411	-72.0373
310	130	98	280	15.56	44.30958	-72.0184
315	130	106	430	16.38	44.32382	-72.0142
320	130	108	460	16.58	44.33391	-72.0027
325	130	104	420	16.18	44.33887	-71.9853
330	130	152	340	20.3	44.37774	-71.9963
335	130	170	220	21.66	44.39619	-71.9838
340	130	162	280	21.07	44.3978	-71.9593
345	130	159	190	20.84	44.40078	-71.9365
350	130	138	180	19.16	44.38941	-71.9105
355	130	136	330	18.99	44.3899	-71.8894



Prop. Ch. 209, WREF, Lisbon, New Hampshire  
Transmitter Site. Co-located with WLTN-FM.  
44-13-11.0N, 71-52-7.0 W

