

NOTES:**DAYTIME BANDSCANS - 19 & 27 APR 2001 -BILLERICA, MA - (GC= 71.221 W / 42.533 N)****Sorting order is by bearing (degrees clockwise of true north)****N = in noise, S = in slop, U = under dominant****X = in noise, in slop, or subdominant for one of the conditions, exact comparison not available****PENNANT ANTENNA TESTS - GROUP 1 - STATIONS WITH NULL / PEAK DATA**

						<i>Pennant</i>	<i>Pennant</i>	<i>Pennant</i>	<i>Pennant</i>	<i>Pennant</i>
<i>Bearing</i>	<i>Dist.</i>	<i>Freq.</i>	<i>Call</i>	<i>City</i>	<i>State/</i>	<i>PEAK</i>	<i>NULL</i>	<i>PK-N</i>	<i>PEAK R</i>	<i>NULL R</i>
<i>degrees</i>	<i>km</i>	<i>kHz</i>			<i>Prov.</i>	<i>dB over zero</i>	<i>dB over zero</i>	<i>dB</i>	<i>ohms</i>	<i>ohms</i>
8.56	16.18	800	WCCM	LAWRENCE	MA	63.0	53.4	9.6	>20K	54
8.56	16.18	1620	pirate	LAWRENCE	MA	34.8	28.2	6.6	>20K	54
8.56	16.18	1670	pirate	LAWRENCE	MA	22.8	N	X	>20K	54
14.62	87.04	930	WGIN	ROCHESTER	NH	44.4	37.2	7.2	>20K	54
19.89	28.72	1490	WHAV	HAVERTHILL	MA	52.2	46.8	5.4	>20K	54
22.20	78.58	1270	WTSN	DOVER	NH	37.2	31.2	6.0	>20K	486
24.21	56.10	1540	WGIP	EXETER	NH	46.8	42.0	4.8	>20K	54
24.81	139.07	870	WLAM	GORHAM	ME	27.0	19.2	7.8	>20K	54
36.61	322.00	620	WZON	BANGOR	ME	24.0	24.0	0.0	no var.	no var.
41.83	43.83	1450	WNBP	NEWBURYPORT	MA	47.4	46.2	1.2	54	>20K
54.81	758.59	720	CHTN	CHARLOTTETOWN	PI	18.0	18.0	0.0	no var.	no var.
92.41	29.42	1230	WESX	SALEM	MA	56.0	53.4	2.6	>20K	54
112.87	21.47	1360	WLYN	LYNN	MA	59.0	58.0	1.0	>20K	54
119.13	21.19	950	WROL	BOSTON	MA	72.0	69.0	3.0	>20K	54
134.56	39.72	1030	WBZ	BOSTON	MA	85.0	81.0	4.0	>20K	54
137.87	17.82	1090	WILD	BOSTON	MA	72.0	65.0	7.0	>20K	54
139.78	18.48	1430	WXKS	EVERETT	MA	66.0	62.0	4.0	>20K	54
141.50	17.52	590	WEZE	BOSTON	MA	65.0	62.0	3.0	>20K	54
145.50	75.67	1390	WPLM	PLYMOUTH	MA	37.8	33.6	4.2	>20K	54
146.30	36.10	1300	WJDA	QUINCY	MA	57.0	49.8	7.2	>20K	54
153.11	32.40	1260	WMKI	BOSTON	MA	58.0	51.6	6.4	>20K	54
157.34	17.24	740	WJIB	CAMBRIDGE	MA	56.0	45.6	10.4	54	>20K
159.69	30.82	1640	pirate	BOSTON	MA	19.8	18.0	1.8	>20K	54

160.72	71.37	1530	WVBF	MIDDLEBOROUGH	MA	34.8	27.0	7.8	>20K	54
164.55	54.41	1410	WMSX	BROCKTON	MA	43.2	36.0	7.2	>20K	129
165.52	100.97	1420	WBSM	NEW BEDFORD	MA	39.6	33.0	6.6	>20K	335
165.77	55.25	1460	WBET	BROCKTON	MA	46.2	37.2	9.0	>20K	54
169.81	73.06	1570	WPEP	TAUNTON	MA	33.6	24.6	9.0	>20K	54
173.25	28.00	1600	WUNR	BROOKLINE	MA	57.0	52.2	4.8	>20K	54
174.22	16.08	1510	WWZN	BOSTON	MA	88.0	72.0	16.0	>20K	54
176.77	12.96	1150	WAMG	BOSTON	MA	68.0	56.0	12.0	>20K	275
177.93	4.42	680	WRKO	BOSTON	MA	96.0	88.0	8.0	>20K	152
178.36	89.69	1480	WSAR	FALL RIVER	MA	44.4	34.8	9.6	>20K	238
180.00	6.67	1700	TIS	BURLINGTON	MA	31.8	N	X	54	1077
185.29	19.32	1550	WNTN	NEWTON	MA	66.0	54.0	12.0	>20K	288
185.81	84.46	630	WPRO	PROVIDENCE	RI	40.8	26.4	14.4	>20K	432
186.36	83.77	920	WHJJ	PROVIDENCE	RI	45.6	39.6	6.0	>20K	524
187.68	49.37	1170	WDIS	NORFOLK	MA	44.4	33.0	11.4	>20K	426
187.90	28.29	850	WEEI	BOSTON	MA	75.0	62.0	13.0	>20K	618
188.86	78.31	790	WSKO	PROVIDENCE	RI	40.2	27.0	13.2	>20K	582
189.06	21.40	530	TIS	WESTON	MA	27.0	19.2	7.8	>20K	372
189.85	80.04	1220	WRIB	PROVIDENCE	RI	39.6	28.8	10.8	>20K	562
190.08	19.83	1330	WRCA	WALTHAM	MA	64.0	52.8	11.2	>20K	432
192.02	71.08	550	WICE	PAWTUCKET	RI	39.0	24.0	15.0	>20K	540
193.95	77.23	1290	WRNI	PROVIDENCE	RI	42.0	31.2	10.8	>20K	479
201.09	64.33	1240	WOON	WOONSOCKET	RI	38.4	35.4	3.0	>20K	951
201.11	61.95	1380	WNRI	WOONSOCKET	RI	43.2	37.8	5.4	>20K	764
201.34	119.66	1180	WJFF	HOPE VALLEY	RI	27.6	N	X	>20K	565
205.66	71.48	990	WALE	GREENVILLE	RI	33.6	N	X	>20K	612
207.63	35.51	890	WBPS	DEDHAM	MA	56.0	46.2	9.8	54	1060
207.63	35.51	650	WJLT	NATICK	MA	44.4	34.8	9.6	54	1172
212.68	32.08	1200	WKOX	FRAMINGHAM	MA	65.0	52.8	12.2	>20K	942
212.90	32.02	1060	WBIX	NATICK	MA	75.0	61.0	14.0	>20K	1141
217.95	242.63	1590	WSMN	NASHUA	NH	49.2	34.8	14.4	54	970
218.45	89.19	1350	WINY	PUTNAM	CT	37.2	30.0	7.2	54	718

220.63	258.09	540	WLUX	ISLIP	NY	19.2	N	X	54	1716
228.94	301.59	1560	WQEW	NEW YORK	NY	28.2	N	X	54	1070
229.78	282.65	660	WFAN	NEW YORK	NY	37.8	24.0	13.8	54	1658
229.78	282.65	880	WCBS	NEW YORK	NY	39.6	25.2	14.4	54	2096
230.73	82.12	970	WESO	SOUTHBRIDGE	MA	37.8	U	X	54	1185
231.31	299.79	1130	WBBR	NEW YORK	NY	30.6	N	X	54,>20K	1273
231.46	310.65	570	WMCA	NEW YORK	NY	25.8	N	X	54	1365
231.46	310.65	820	WNYC	NEW YORK	NY	27.6	N	X	54	2052
231.97	307.20	710	WOR	NEW YORK	NY	33.6	N	X	54	1585
231.97	304.53	1050	WEVD	NEW YORK	NY	34.8	18.0	16.8	54	1462
232.13	307.35	1190	WLIB	NEW YORK	NY	27.6	N	X	54	970
232.29	307.16	1010	WINS	NEW YORK	NY	31.8	18.0	13.8	54	1301
232.46	294.81	770	WABC	NEW YORK	NY	28.8	N	X	54	1319
234.44	62.79	1440	WWTM	WORCESTER	MA	48.0	33.0	15.0	54	1103
235.28	59.84	1310	WORC	WORCESTER	MA	49.2	38.4	10.8	54,>20K	1250
235.72	159.75	910	WNEZ	NEW BRITAIN	CT	32.4	U	X	54	2198
237.89	155.23	1080	WTIC	HARTFORD	CT	39.6	25.2	14.4	54,>20K	1486
241.92	19.25	1120	WBNW	CONCORD	MA	64.0	52.8	11.2	54,>20K	1250
241.94	66.34	830	WCRN	WORCESTER	MA	58.0	36.0	22.0	54	2993
242.97	34.12	1470	WSRO	MARLBOROUGH	MA	50.4	32.4	18.0	54	1154
246.39	77.09	760	WVNE	LEICESTER	MA	46.2	24.0	22.2	54	2154
246.68	53.79	580	WTAG	WORCESTER	MA	37.8	19.8	18.0	54	1950
250.80	122.21	730	WACE	CHICOPEE	MA	36.0	U	X	54	1599
253.00	125.80	560	WHYN	SPRINGFIELD	MA	34.2	U	X	54	1486
253.31	131.76	640	WNNZ	WESTFIELD	MA	35.4	N	X	>20K	1486
266.38	50.00	960	WFGL	FITCHBURG	MA	46.2	39.0	7.2	54	1510
269.21	42.24	1000	WCMX	LEOMINSTER	MA	48.6	40.2	8.4	54	1558
274.58	113.80	1520	WGAM	GREENFIELD	MA	41.4	S	X	>20K	1172
276.37	62.61	1340	WGAW	GARDNER	MA	41.4	31.2	10.2	54	1008
278.28	51.02	1280	WEIM	FITCHBURG	MA	54.0	42.0	12.0	54	1486
278.29	229.23	810	WGY	SCHENECTADY	NY	37.2	N	X	54	2023
310.59	9.92	1610	TIS	CHELMSFORD	MA	36.0	N	X	54	1064

320.03	18.07	980	WCAP	LOWELL	MA	65.0	53.4	11.6	>20K	787
320.25	121.28	1020	WNTK	NEWPORT	NH	38.4	S	X	>20K	498
320.61	33.06	900	WMVU	NASHUA	NH	49.8	43.2	6.6	54	951
331.12	15.24	1400	WLLH	LOWELL	MA	66.0	62.0	4.0	54	947
334.85	46.38	1370	WFEA	MANCHESTER	NH	52.2	40.2	12.0	>20K	498
336.57	58.36	1250	WKBR	MANCHESTER	NH	49.2	33.0	16.2	>20K	486
344.85	55.99	610	WGIR	MANCHESTER	NH	44.4	32.4	12.0	>20K	395
347.58	111.30	1350	WEZS	LACONIA	NH	38.4	30.0	8.4	>20K	718
350.95	26.09	1110	WNNW	SALEM	NH	54.0	37.2	16.8	>20K	200
351.67	37.81	1320	WDER	DERRY	NH	46.2	33.0	13.2	>20K	238
?	?	1690	pirate?	?	?	20.4	N	X	54	>20K
?	?	1580	pirate	?	?	22.2	N	X	>20K	314

PENNANT ANTENNA TESTS - GROUP 2 - STATIONS FOR WHICH COMPLETE NULL / PEAK INFO. WAS UNAVAILABLE

<i>Bearing</i>	<i>Dist.</i>	<i>Freq.</i>	<i>Call</i>	<i>City</i>	<i>State/</i>	<i>Pennant</i>	<i>Pennant</i>	<i>Pennant</i>
<i>degrees</i>	<i>km</i>	<i>kHz</i>			<i>Prov.</i>	<i>PEAK</i>	<i>NULL</i>	<i>PK-N</i>
						<i>dB over zero</i>	<i>dB over zero</i>	<i>dB</i>
0.78	118.11	1420	WASR	WOLFEBORO	NH	38.4	33.0	5.4
19.45	75.53	1340	WWNH	MADBURY	NH	32.4	31.2	1.2
20.23	106.94	1220	WPHX	SANFORD	ME	27.6	U	X
26.06	274.82	1160	WSKW	SKOWHEGAN	ME	S	S	X
27.78	145.01	1440	WJAE	WESTBROOK	ME	33.0	U	X
28.96	147.81	1310	WLOB	PORTLAND	ME	U	U	X
29.32	148.34	560	WGAN	PORTLAND	ME	25.2	U	X
30.70	69.09	1380	WMYF	PORTSMOUTH	NH	39.0	U	X
31.09	140.10	970	WZAN	PORTLAND	ME	35.4	U	X
36.15	186.63	730	WJTO	BATH	ME	30.0	U	X
37.74	319.96	910	WABI	BANGOR	ME	30.0	U	X
50.92	649.63	1070	CBA	MONCTON	NB	19.2	S	X
66.31	649.49	780	CFDR	DARTMOUTH	NS	N	N	X
84.25	31.56	1570	WNSH	BEVERLY	MA	OFF	OFF	OFF

132.11	136.57	1170	WFPB	ORLEANS	MA	43.2	39.0	4.2
137.58	25.58	1650	TIS	BOSTON	MA	OFF	OFF	OFF
140.27	128.76	1240	WBUR	WEST YARMOUTH	MA	36.0	U	X
166.06	104.00	1340	WNBH	NEW BEDFORD	MA	32.4	31.2	1.2
192.73	91.44	1590	WARV	WARWICK	RI	U	U	X
208.29	50.47	1490	WMRC	MILFORD	MA	42.0	U	X
217.95	242.63	1580	WLIM	PATCHOGUE	NY	N	N	X
223.88	73.07	940	WGFP	WEBSTER	MA	S	S	X
226.04	226.43	600	WICC	BRIDGEPORT	CT	S	N	X
228.07	225.09	1530	WDJZ	BRIDGEPORT	CT	N	N	X
232.18	303.57	1660	WWRU	JERSEY CITY	NJ	N	N	X
234.01	157.04	1410	WPOP	HARTFORD	CT	36.0	U	X
239.80	57.13	1230	WNEB	WORCESTER	MA	U	N	X
270.68	422.32	870	WHCU	ITHACA	NY	N	N	X
297.33	98.08	1220	WKBK	KEENE	NH	28.8	U	X
297.70	99.31	1290	WKNE	KEENE	NH	36.0	U	X
322.84	292.36	1070	WGLY	PLATTSBURGH	NY	U	N	X
324.74	274.72	620	WVMT	BURLINGTON	VT	U	U	X
327.73	366.48	990	CKGM	MONTREAL	QC	U	N	X
329.12	237.13	550	WDEV	WATERBURY	VT	24.0	U	X
330.01	370.53	940	CINW	MONTREAL	QC	S	S	X
341.68	107.87	1240	WFTN	FRANKLIN	NH	35.4	U	X