

72305 MHX Newport Observations at 00Z 24 Jul 2015

PRES hPa	HGHT m	TEMP C	DWPT C	RELH %	MIXR g/kg	DRCT deg	SKNT knot	THTA K	THTE K	THTV K
1011.0	11	23.0	22.5	97	17.30	110	5	295.2	345.0	298.3
1000.0	105	22.8	22.7	99	17.72	130	14	295.9	347.1	299.1
977.4	305	21.9	21.8	100	17.19	130	17	296.9	346.8	300.0
971.0	362	21.6	21.6	100	17.05	136	17	297.2	346.7	300.3
954.0	517	23.0	20.7	87	16.40	151	16	300.2	348.4	303.1
943.8	610	22.3	20.2	88	16.04	160	15	300.4	347.6	303.3
925.0	786	21.0	19.2	89	15.38	170	13	300.8	346.1	303.6
924.0	795	21.0	19.1	89	15.30	171	13	300.9	346.0	303.6
911.5	914	21.4	17.6	79	14.13	185	10	302.5	344.5	305.0
906.0	967	21.6	17.0	75	13.64	193	10	303.2	343.9	305.7
879.9	1219	19.9	16.1	79	13.27	230	8	303.9	343.6	306.3
856.0	1458	18.2	15.3	83	12.94	222	6	304.6	343.4	306.9
850.0	1518	18.0	14.2	78	12.12	220	6	305.0	341.5	307.2
849.4	1524	18.0	14.1	78	12.08	255	3	305.1	341.4	307.3
845.0	1569	18.0	13.7	76	11.79	262	3	305.5	341.1	307.7
819.6	1829	16.5	12.7	78	11.41	305	5	306.6	341.2	308.7
801.0	2026	15.4	12.0	80	11.12	324	10	307.4	341.3	309.5
790.9	2134	15.4	10.7	73	10.28	335	12	308.6	340.1	310.5
789.0	2154	15.4	10.4	72	10.13	335	12	308.8	339.9	310.6
742.0	2672	11.0	9.1	88	9.87	326	13	309.4	339.8	311.3
735.8	2743	10.9	9.3	90	10.13	325	13	310.1	341.3	311.9
732.0	2786	10.8	9.5	92	10.28	320	13	310.4	342.2	312.3
713.0	3006	10.2	7.6	84	9.27	297	10	312.1	341.0	313.8
700.0	3159	9.2	7.4	89	9.31	280	9	312.6	341.7	314.4
672.0	3496	6.8	6.0	95	8.80	297	12	313.6	341.3	315.3
658.9	3658	6.0	4.8	92	8.23	305	14	314.5	340.5	316.1
655.0	3707	5.8	4.4	91	8.07	305	14	314.8	340.3	316.3
644.0	3845	5.4	2.1	79	6.96	305	14	315.9	338.1	317.2
634.8	3962	4.5	1.8	82	6.89	305	14	316.2	338.2	317.5
611.4	4267	2.2	0.8	90	6.70	275	14	317.0	338.5	318.2
595.0	4487	0.6	0.2	97	6.57	282	14	317.5	338.7	318.8
588.7	4572	0.3	-0.2	97	6.45	285	14	318.1	339.0	319.4
566.7	4877	-0.9	-1.6	95	6.04	300	22	320.2	339.9	321.4
556.0	5029	-1.5	-2.3	94	5.85	297	24	321.2	340.5	322.4
547.0	5160	-1.3	-3.9	82	5.27	294	25	323.0	340.5	324.0
544.0	5203	-1.5	-5.6	74	4.66	293	25	323.3	338.8	324.2
532.0	5380	-3.1	-6.2	79	4.55	290	27	323.4	338.6	324.3
526.0	5470	-3.3	-5.0	88	5.04	288	28	324.2	341.1	325.2
519.0	5576	-3.5	-5.7	85	4.85	286	29	325.2	341.5	326.2
500.0	5870	-5.5	-7.0	89	4.55	280	32	326.3	341.7	327.2
494.0	5965	-6.1	-7.0	93	4.61	282	32	326.7	342.3	327.6
485.8	6096	-7.0	-8.2	91	4.28	285	33	327.2	341.8	328.0
477.0	6238	-7.9	-9.4	89	3.95	283	35	327.7	341.3	328.5
459.0	6537	-8.7	-11.0	83	3.62	278	40	330.4	342.9	331.1
431.5	7010	-11.6	-13.8	83	3.06	270	47	332.6	343.4	333.2
400.0	7590	-15.1	-17.3	83	2.48	265	46	335.3	344.2	335.8
398.4	7620	-15.3	-17.5	83	2.45	265	46	335.4	344.3	335.9
362.0	8343	-19.1	-21.4	82	1.92	253	44	339.6	346.8	340.0
352.7	8534	-20.5	-22.9	81	1.74	250	43	340.3	346.8	340.7
324.5	9144	-24.8	-27.5	78	1.24	260	41	342.5	347.3	342.8
311.3	9449	-27.0	-29.8	77	1.04	265	41	343.6	347.7	343.8
300.0	9720	-28.9	-31.9	75	0.89	265	40	344.5	348.0	344.7
298.0	9768	-29.1	-32.1	75	0.87	265	40	344.9	348.4	345.1

250.0	10990	-39.3	-43.5	64	0.33	260	45	347.5	348.9	347.6
249.0	11018	-39.7	-44.0	63	0.31	260	45	347.3	348.6	347.4
229.0	11582	-44.7	-48.6	65	0.20	260	45	348.1	349.0	348.1
220.0	11853	-47.1	-50.8	66	0.16	256	39	348.4	349.1	348.4
211.0	12130	-48.9	-53.3	60	0.13	251	33	349.8	350.4	349.8
209.0	12192	-49.4	-53.8	60	0.12	250	32	349.9	350.4	349.9
200.0	12480	-51.9	-56.1	60	0.10	245	34	350.4	350.9	350.4
160.0	13886	-64.5	-69.0	54	0.02	231	43	352.2	352.3	352.2
158.0	13963	-63.9	-68.5	53	0.02	231	44	354.5	354.6	354.5
156.5	14021	-64.2	-68.8	53	0.02	230	44	355.0	355.1	355.0
153.0	14160	-64.9	-69.5	53	0.02	233	41	356.1	356.2	356.1
150.0	14280	-66.3	-70.9	52	0.02	235	39	355.7	355.8	355.7
141.0	14651	-69.5	-73.9	53	0.01	243	42	356.4	356.5	356.4
134.4	14935	-71.0	-75.6	51	0.01	250	45	358.6	358.7	358.6
130.0	15131	-72.1	-76.7	50	0.01	255	46	360.1	360.2	360.1
127.6	15240	-71.2	-75.9	49	0.01	270	51	363.7	363.8	363.7
126.0	15315	-70.5	-75.4	48	0.01	273	49	366.3	366.3	366.3
120.0	15603	-72.5	-78.5	40	0.01	285	41	367.7	367.8	367.7
117.0	15752	-69.3	-76.3	36	0.01	291	37	376.3	376.4	376.3
115.1	15850	-69.7	-77.3	33	0.01	295	34	377.3	377.3	377.3
109.3	16154	-71.1	-80.2	25	0.01	275	19	380.3	380.3	380.3
103.0	16505	-72.7	-83.7	18	0.00	298	22	383.8	383.8	383.8
102.0	16562	-70.9	-82.9	16	0.00	302	22	388.3	388.3	388.3
100.0	16680	-68.9	-81.9	14	0.00	310	23	394.4	394.4	394.4

Station information and sounding indices

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Station identifier: MHX
Station number: 72305
Observation time: 150724/0000
Station latitude: 34.78
Station longitude: -76.88
Station elevation: 11.0
Showalter index: 0.80
Lifted index: -1.31
LIFT computed using virtual temperature: -1.49
SWEAT index: 214.40
K index: 35.90
Cross totals index: 19.70
Vertical totals index: 23.50
Totals totals index: 43.20
Convective Available Potential Energy: 212.96
CAPE using virtual temperature: 256.98
Convective Inhibition: -84.26
CINS using virtual temperature: -63.45
Equilibrium Level: 383.07
Equilibrium Level using virtual temperature: 381.71
Level of Free Convection: 760.31
LFCT using virtual temperature: 770.04
Bulk Richardson Number: 3.40
Bulk Richardson Number using CAPV: 4.10
Temp [K] of the Lifted Condensation Level: 295.00
Pres [hPa] of the Lifted Condensation Level: 976.94
Mean mixed layer potential temperature: 296.99
Mean mixed layer mixing ratio: 17.22
1000 hPa to 500 hPa thickness: 5765.00
Precipitable water [mm] for entire sounding: 60.28

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Description of the [data columns](#) or [sounding indices](#).

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Questions about the weather data provided by this site can be addressed to [Larry Oolman \(ldoolman@uwyo.edu\)](mailto:Larry.Oolman@uwyo.edu)
