

74494 CHH Chatham 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
1009.0	16	22.4	17.4	73	12.54	265	12	294.8	330.9	297.0
1000.0	93	22.4	13.4	57	9.75	255	17	295.6	323.9	297.3
998.0	110	22.4	13.4	57	9.77	255	17	295.7	324.1	297.5
975.9	305	20.9	11.9	56	9.06	255	17	296.1	322.6	297.8
971.0	348	20.6	11.6	56	8.91	254	16	296.2	322.3	297.8
941.9	610	18.2	11.7	66	9.26	250	10	296.4	323.5	298.1
925.0	765	16.8	11.8	72	9.48	250	9	296.5	324.2	298.2
909.0	914	15.3	11.3	77	9.36	280	7	296.4	323.7	298.1
904.0	960	14.8	11.2	79	9.32	285	8	296.4	323.6	298.0
892.0	1074	14.8	8.8	67	8.03	298	10	297.5	321.2	298.9
876.8	1219	13.6	7.9	69	7.70	315	13	297.7	320.5	299.1
850.0	1480	11.4	6.4	71	7.14	290	14	298.1	319.3	299.4
845.5	1524	11.1	6.2	72	7.05	290	14	298.2	319.1	299.4
815.1	1829	8.8	4.4	74	6.48	300	16	298.9	318.2	300.0
808.0	1901	8.2	4.0	75	6.35	305	17	299.0	318.0	300.2
785.5	2134	6.8	0.9	66	5.22	320	22	300.0	315.8	300.9
785.0	2139	6.8	0.8	66	5.19	320	22	300.0	315.8	300.9
756.8	2438	4.6	-0.8	68	4.78	320	21	300.8	315.4	301.7
734.0	2687	2.8	-2.2	70	4.46	320	23	301.4	315.1	302.2
728.9	2743	2.3	-2.2	72	4.48	320	23	301.5	315.3	302.3
701.8	3048	-0.3	-2.4	86	4.60	305	22	301.9	316.0	302.7
700.0	3069	-0.5	-2.4	87	4.60	310	25	301.9	316.1	302.7
692.0	3161	-1.3	-2.9	89	4.49	295	25	302.0	315.8	302.8
682.0	3277	-1.3	-4.9	76	3.91	277	26	303.3	315.5	304.0
675.5	3353	1.2	-14.9	29	1.80	265	26	306.9	312.8	307.2
673.0	3383	2.2	-18.8	19	1.29	265	26	308.3	312.7	308.6
670.0	3419	3.0	-30.0	7	0.48	265	26	309.6	311.3	309.7
650.4	3658	1.6	-34.2	5	0.33	265	26	310.7	311.9	310.8
636.0	3838	0.6	-37.4	4	0.24	269	27	311.5	312.4	311.6
626.0	3965	0.8	-32.2	6	0.41	273	28	313.2	314.7	313.3
602.6	4267	-1.7	-27.7	12	0.66	280	30	313.7	316.1	313.9
579.9	4572	-4.2	-23.1	21	1.03	280	33	314.3	317.9	314.5
577.0	4612	-4.5	-22.5	23	1.10	279	34	314.4	318.2	314.6
557.7	4877	-6.5	-22.8	26	1.10	275	39	315.1	318.9	315.3
536.3	5182	-8.8	-23.2	30	1.11	270	40	315.8	319.7	316.0
532.0	5244	-9.3	-23.3	31	1.11	271	40	316.0	319.9	316.2
500.0	5720	-12.7	-28.7	25	0.72	275	43	317.5	320.1	317.6
499.0	5735	-12.9	-28.9	25	0.71	275	43	317.4	320.0	317.6
479.0	6046	-15.3	-25.3	42	1.03	271	46	318.2	321.9	318.4
475.8	6096	-15.7	-25.5	43	1.01	270	46	318.4	322.0	318.6
458.0	6383	-17.7	-26.7	45	0.95	271	48	319.3	322.7	319.5
443.0	6631	-19.7	-30.7	37	0.67	272	49	319.8	322.3	320.0
437.0	6733	-20.7	-28.7	49	0.82	272	49	319.8	322.8	320.0
410.0	7201	-24.7	-30.7	57	0.73	274	52	320.5	323.2	320.7
400.0	7380	-25.9	-31.9	57	0.66	275	53	321.2	323.7	321.4
386.9	7620	-28.0	-34.0	56	0.56	270	55	321.6	323.7	321.7
375.0	7844	-29.9	-35.9	56	0.48	271	56	321.9	323.7	322.0
343.0	8473	-34.9	-48.9	23	0.13	275	60	323.4	324.0	323.5
340.0	8534	-35.2	-49.8	21	0.12	275	60	323.8	324.3	323.9
324.0	8869	-36.9	-54.9	14	0.07	275	75	326.0	326.3	326.0
311.3	9144	-37.5	-56.6	12	0.06	275	88	328.9	329.1	328.9
300.0	9400	-38.1	-58.1	10	0.05	275	96	331.6	331.8	331.6
297.9	9449	-38.3	-58.3	10	0.05	275	101	331.9	332.1	331.9

293.0	9563	-38.9	-58.9	10	0.05	275	102	332.7	332.9	332.7
279.0	9899	-40.9	-60.9	10	0.04	275	103	334.5	334.6	334.5
261.0	10351	-44.5	-63.5	10	0.03	275	106	335.6	335.8	335.6
260.5	10363	-44.5	-63.5	10	0.03	275	106	335.7	335.9	335.7
260.0	10377	-44.6	-63.6	10	0.03	275	106	335.8	336.0	335.8
250.0	10640	-45.7	-64.7	10	0.03	280	104	338.0	338.1	338.0
248.0	10693	-46.1	-65.1	10	0.02	280	104	338.2	338.3	338.2
240.0	10912	-46.1	-66.1	9	0.02	279	103	341.4	341.5	341.4
216.6	11582	-52.4	-70.7	9	0.01	275	101	341.8	341.8	341.8
212.0	11723	-53.7	-71.7	9	0.01	275	100	341.8	341.9	341.8
208.0	11845	-53.7	-71.7	9	0.01	272	95	343.7	343.8	343.7
205.0	11939	-51.1	-70.1	9	0.01	269	92	349.2	349.3	349.2
204.0	11971	-50.7	-70.7	8	0.01	268	91	350.3	350.4	350.3
200.0	12100	-51.1	-71.1	7	0.01	265	86	351.7	351.8	351.7
197.2	12192	-51.5	-70.8	8	0.01	265	87	352.4	352.5	352.4
196.0	12231	-51.7	-70.7	8	0.01	265	86	352.8	352.8	352.8
193.0	12331	-50.9	-70.9	8	0.01	266	84	355.6	355.7	355.6
187.0	12537	-51.1	-71.1	7	0.01	268	79	358.5	358.6	358.5
181.0	12749	-50.3	-71.3	7	0.01	270	74	363.2	363.2	363.2
179.5	12802	-50.6	-71.5	7	0.01	270	73	363.6	363.6	363.6
171.3	13106	-52.1	-72.5	7	0.01	265	79	366.0	366.0	366.0
164.0	13388	-53.5	-73.5	7	0.01	267	74	368.2	368.2	368.2
150.0	13960	-55.1	-76.1	6	0.01	270	64	374.9	375.0	374.9
149.0	14003	-55.5	-76.5	6	0.01	270	63	375.0	375.0	375.0
144.0	14220	-54.5	-76.5	5	0.01	272	58	380.4	380.4	380.4
134.0	14680	-55.3	-76.3	6	0.01	275	49	386.9	386.9	386.9
127.0	15022	-54.3	-77.3	4	0.01	278	42	394.6	394.7	394.6
122.7	15240	-55.3	-77.7	5	0.01	280	37	396.7	396.7	396.7
114.0	15708	-57.5	-78.5	5	0.01	280	35	401.1	401.1	401.1
112.0	15820	-57.5	-79.5	4	0.01	280	35	403.1	403.1	403.1
111.0	15877	-56.1	-78.1	5	0.01	280	35	406.8	406.8	406.8
106.2	16154	-56.3	-79.2	4	0.01	280	34	411.5	411.5	411.5
106.0	16169	-56.3	-79.3	4	0.01	281	33	411.8	411.8	411.8
100.0	16540	-54.7	-78.7	4	0.01	295	16	421.8	421.8	421.8
91.3	17120	-57.5	-79.5	4	0.01	264	28	427.3	427.4	427.3
88.8	17296	-55.3	-79.3	4	0.01	254	31	435.1	435.2	435.1
87.7	17374	-55.6	-79.4	4	0.01	250	33	436.1	436.1	436.1
83.6	17678	-56.7	-79.8	4	0.01	285	23	439.9	439.9	439.9
82.8	17742	-56.9	-79.9	4	0.01	284	21	440.6	440.7	440.6
79.7	17983	-56.8	-80.1	4	0.01	280	14	445.8	445.8	445.8
76.0	18288	-56.6	-80.4	3	0.01	270	12	452.3	452.4	452.3
74.5	18412	-56.5	-80.5	3	0.01	250	12	455.0	455.0	455.0
72.4	18593	-55.7	-80.1	3	0.01	220	13	460.4	460.5	460.4
70.0	18810	-54.7	-79.7	3	0.01	260	17	467.0	467.1	467.0
69.0	18898	-54.5	-79.7	3	0.01	270	16	469.4	469.4	469.4
61.7	19620	-52.5	-79.5	2	0.01	323	7	489.0	489.1	489.0
57.1	20117	-53.4	-79.8	3	0.01	0	0	497.9	498.0	497.9
54.8	20382	-53.9	-79.9	3	0.01	45	2	502.7	502.8	502.7
50.0	20970	-53.1	-80.1	2	0.01	145	6	517.9	518.0	517.9
47.2	21336	-52.6	-80.9	2	0.01	15	11	527.7	527.8	527.7
46.0	21508	-52.3	-81.3	2	0.01	49	14	532.3	532.4	532.3
45.1	21641	-52.5	-81.5	2	0.01	75	17	535.0	535.1	535.0
43.0	21946	-53.0	-82.0	2	0.01	110	15	541.1	541.2	541.1
41.5	22172	-53.3	-82.3	2	0.01	121	14	545.7	545.8	545.7
41.0	22250	-53.0	-82.2	2	0.01	125	13	548.3	548.4	548.3
38.1	22724	-51.3	-81.3	2	0.01	98	13	564.3	564.4	564.3
37.3	22860	-51.5	-81.5	2	0.01	90	13	567.3	567.5	567.3
35.6	23165	-51.8	-81.8	2	0.01	80	12	574.2	574.3	574.2
34.0	23470	-52.1	-82.1	2	0.01	65	14	581.1	581.2	581.1
31.1	24037	-52.7	-82.7	1	0.01	93	15	594.2	594.4	594.2
30.9	24079	-52.6	-82.6	2	0.01	95	15	595.6	595.7	595.6

30.0	24270	-52.1	-82.1	2	0.02	90	16	602.0	602.1	602.0
29.5	24384	-51.6	-82.4	1	0.02	80	17	606.5	606.6	606.5
28.8	24534	-50.9	-82.9	1	0.01	75	19	612.4	612.5	612.4
28.1	24689	-51.2	-82.8	1	0.01	70	21	615.7	615.9	615.7
27.0	24953	-51.7	-82.7	1	0.02	83	21	621.5	621.7	621.5
26.8	24994	-51.5	-82.7	1	0.02	85	21	623.2	623.4	623.2
24.5	25586	-48.5	-82.5	1	0.02	66	31	648.2	648.4	648.3
24.4	25603	-48.5	-82.5	1	0.02	65	31	648.7	648.9	648.7
20.0	26920	-48.1	-82.1	1	0.02	85	33	688.2	688.4	688.2
19.4	27127	-48.0	-82.3	1	0.02	95	37	694.7	695.0	694.7
18.5	27432	-47.8	-82.5	1	0.02	95	33	704.5	704.7	704.5
17.8	27688	-47.7	-82.7	1	0.02	95	34	712.7	713.0	712.8
17.0	27993	-45.3	-80.3	1	0.04	94	34	729.9	730.3	729.9
15.4	28651	-45.5	-80.5	1	0.04	93	35	750.1	750.5	750.1
13.2	29687	-41.3	-78.3	1	0.07	91	37	798.3	799.1	798.4
11.8	30480	-40.3	-77.3	1	0.09	90	39	828.9	830.0	828.9
10.0	31580	-38.9	-75.9	1	0.13	100	37	873.2	874.8	873.3
9.4	32004	-38.7	-75.7	1	0.14	97	38	889.5	891.3	889.6
7.6	33528	-31.3	-71.3	1	0.33	85	40	976.5	981.1	976.7
7.6	33486	-31.3	-71.3	1	0.33	85	40	975.0	979.7	975.2
7.4	33675	-31.5	-71.5	1	0.33			981.7	986.3	981.9

Station information and sounding indices

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Station identifier: CHH
Station number: 74494
Observation time: 150724/0000
Station latitude: 41.66
Station longitude: -69.96
Station elevation: 16.0
Showalter index: 4.17
Lifted index: 1.83
LIFT computed using virtual temperature: 1.55
SWEAT index: 147.82
K index: 28.60
Cross totals index: 19.10
Vertical totals index: 24.10
Totals totals index: 43.20
Convective Available Potential Energy: 49.78
CAPE using virtual temperature: 68.30
Convective Inhibition: -46.78
CINS using virtual temperature: -35.26
Equilibrium Level: 677.82
Equilibrium Level using virtual temperature: 676.47
Level of Free Convection: 782.49
LFCT using virtual temperature: 811.93
Bulk Richardson Number: 3.25
Bulk Richardson Number using CAPV: 4.46
Temp [K] of the Lifted Condensation Level: 283.96
Pres [hPa] of the Lifted Condensation Level: 865.46
Mean mixed layer potential temperature: 295.94
Mean mixed layer mixing ratio: 9.53
1000 hPa to 500 hPa thickness: 5627.00
Precipitable water [mm] for entire sounding: 26.30

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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:ldoolman@uwyo.edu)
