

72528 BUF Buffalo Int Observations at 00Z 25 Jul 2015

PRES hPa	HGHT m	TEMP C	DWPT C	RELH %	MIXR g/kg	DRCT deg	SKNT knot	THTA K	THTE K	THTV K
1000.0	126									
989.0	215	25.0	10.0	39	7.85	240	11	299.1	322.5	300.5
982.0	278	24.0	8.0	36	6.90	242	11	298.7	319.3	299.9
946.0	607	21.8	3.8	31	5.34	250	11	299.7	315.9	300.6
945.6	610	21.8	3.9	31	5.37	250	11	299.7	315.9	300.6
925.0	803	20.0	8.0	46	7.32	275	7	299.8	321.7	301.1
913.1	914	18.9	7.7	48	7.26	270	5	299.7	321.4	301.0
910.0	944	18.6	7.6	49	7.24	271	5	299.7	321.4	301.0
881.0	1219	16.2	7.1	55	7.24	280	7	300.0	321.7	301.4
850.0	1524	13.6	6.6	63	7.24	315	9	300.4	322.1	301.7
819.5	1829	11.1	5.6	69	6.99	320	19	300.8	321.9	302.1
790.0	2134	8.5	4.5	76	6.74	330	18	301.3	321.6	302.5
773.0	2316	7.0	3.9	81	6.59	333	20	301.5	321.4	302.7
761.6	2438	6.1	2.8	79	6.17	335	21	301.9	320.6	303.0
755.0	2509	5.6	2.1	78	5.93	343	20	302.1	320.1	303.1
750.0	2564	5.6	0.6	70	5.36	349	19	302.6	319.1	303.6
745.0	2618	6.4	-5.6	42	3.40	356	17	304.1	314.8	304.7
741.0	2663	6.8	-11.2	26	2.20	1	17	305.0	312.1	305.4
736.0	2718	6.4	-8.6	33	2.73	7	15	305.1	313.9	305.6
733.8	2743	6.3	-9.2	32	2.60	10	15	305.3	313.6	305.7
719.0	2909	5.4	-13.6	24	1.87	1	16	306.1	312.2	306.4
713.0	2978	5.6	-24.4	9	0.75	358	16	307.0	309.6	307.2
700.0	3128	5.2	-23.8	10	0.80	350	17	308.2	311.0	308.4
682.0	3340	5.2	-34.8	4	0.29	344	18	310.5	311.6	310.6
655.8	3658	3.4	-34.9	4	0.30	335	20	311.9	313.1	312.0
637.0	3893	2.0	-35.0	4	0.31	333	23	313.0	314.1	313.1
617.0	4149	1.0	-44.0	2	0.13	331	26	314.7	315.2	314.7
608.0	4267	0.5	-23.0	15	1.00	330	28	315.4	318.9	315.6
607.0	4280	0.4	-20.6	19	1.23	330	28	315.5	319.8	315.7
602.0	4347	0.4	-27.6	10	0.66	327	29	316.2	318.6	316.4
596.0	4427	-0.1	-19.1	22	1.42	325	30	316.6	321.5	316.8
585.2	4572	-0.8	-23.2	16	1.01	320	31	317.4	321.0	317.6
563.2	4877	-2.2	-31.8	8	0.48	325	31	319.2	321.0	319.3
556.0	4979	-2.7	-34.7	6	0.36	326	31	319.8	321.2	319.9
539.0	5224	-4.9	-20.9	27	1.35	329	32	320.1	324.8	320.3
529.0	5371	-6.3	-20.3	32	1.45	330	33	320.1	325.2	320.4
523.0	5460	-6.7	-23.7	25	1.09	331	33	320.7	324.6	320.9
506.0	5717	-7.5	-40.5	5	0.22	334	35	322.7	323.6	322.8
502.0	5779	-7.5	-32.5	12	0.50	335	35	323.5	325.4	323.6
500.0	5810	-7.5	-35.5	9	0.37	335	35	323.8	325.3	323.9
499.0	5826	-7.5	-41.5	5	0.20	335	35	324.0	324.8	324.1
481.9	6096	-9.0	-43.0	4	0.18	340	41	325.4	326.2	325.5
476.0	6192	-9.5	-43.5	4	0.17	341	42	325.9	326.6	326.0
458.0	6489	-11.7	-28.7	23	0.79	343	44	326.8	329.7	327.0
445.1	6706	-13.7	-27.9	29	0.87	345	46	327.0	330.2	327.1
435.0	6881	-15.3	-27.3	35	0.94	342	46	327.1	330.6	327.3
426.0	7039	-16.3	-36.3	16	0.40	339	46	327.8	329.3	327.9
420.0	7145	-16.9	-28.9	35	0.84	337	47	328.3	331.5	328.5
407.0	7381	-19.1	-32.1	31	0.64	332	47	328.4	330.9	328.6
400.0	7510	-19.1	-44.1	9	0.19	330	47	330.1	330.9	330.1
397.0	7566	-19.3	-48.3	6	0.12	330	47	330.5	331.0	330.6
394.1	7620	-19.6	-46.6	7	0.15	330	46	330.9	331.5	330.9
387.0	7755	-20.3	-42.3	12	0.24	328	46	331.6	332.6	331.7

371.0	8065	-22.9	-43.9	13	0.21	323	46	332.2	333.1	332.2
362.7	8230	-24.6	-38.9	25	0.36	320	46	332.1	333.6	332.2
361.0	8264	-24.9	-37.9	29	0.41	320	46	332.1	333.7	332.2
321.0	9105	-31.7	-46.7	21	0.18	330	50	334.1	334.8	334.1
319.2	9144	-31.9	-47.4	20	0.17	330	50	334.3	335.0	334.4
302.0	9534	-33.7	-54.7	10	0.08	330	50	337.1	337.4	337.1
300.0	9580	-34.1	-55.1	10	0.07	330	50	337.2	337.5	337.2
281.0	10035	-37.9	-58.9	9	0.05	332	51	338.1	338.3	338.1
259.0	10592	-42.9	-53.9	29	0.10	334	52	338.7	339.1	338.7
250.0	10830	-44.9	-54.9	32	0.09	335	53	339.2	339.6	339.2
245.0	10965	-45.9	-55.9	31	0.08	335	53	339.6	340.0	339.7
244.7	10973	-46.0	-55.9	32	0.08	335	53	339.7	340.0	339.7
231.0	11355	-49.3	-55.3	49	0.09	331	58	340.2	340.6	340.3
215.0	11824	-51.7	-57.7	48	0.07	326	65	343.6	343.9	343.6
212.9	11887	-52.2	-58.0	50	0.07	325	66	343.7	344.0	343.7
205.0	12132	-54.3	-59.3	54	0.06	325	69	344.2	344.5	344.2
200.0	12290	-55.3	-61.3	47	0.05	325	71	345.0	345.3	345.1
190.0	12615	-57.5	-64.5	40	0.03	331	69	346.6	346.8	346.6
184.4	12802	-57.8	-67.2	29	0.02	335	68	349.0	349.1	349.0
183.0	12852	-57.9	-67.9	27	0.02	334	68	349.7	349.8	349.7
161.0	13646	-64.1	-72.1	33	0.01	320	66	352.3	352.3	352.3
159.2	13716	-63.5	-71.5	33	0.02	320	71	354.4	354.4	354.4
159.0	13723	-63.5	-71.5	33	0.02	320	71	354.5	354.6	354.5
153.0	13958	-63.9	-73.9	24	0.01	328	75	357.8	357.8	357.8
151.4	14021	-62.7	-73.2	23	0.01	330	76	360.9	361.0	360.9
150.0	14080	-61.5	-72.5	22	0.01	330	75	363.9	364.0	363.9
149.0	14122	-60.8	-72.2	21	0.01	330	76	365.9	366.0	365.9
146.0	14249	-58.5	-71.5	17	0.02	332	71	371.9	372.0	372.0
144.0	14336	-58.1	-72.1	15	0.02	333	67	374.1	374.2	374.1
130.8	14935	-60.7	-77.6	9	0.01	340	42	379.9	379.9	379.9
126.0	15170	-61.7	-79.7	7	0.01	325	46	382.2	382.2	382.2
124.6	15240	-61.4	-80.1	7	0.01	320	47	383.9	383.9	383.9
124.0	15269	-61.3	-80.3	6	0.01	321	47	384.6	384.7	384.6
121.0	15422	-59.3	-79.3	6	0.01	324	47	391.0	391.0	391.0
118.0	15579	-59.5	-79.5	6	0.01	328	48	393.4	393.5	393.4
113.0	15850	-60.7	-81.4	5	0.00	335	48	396.1	396.1	396.1
110.0	16017	-61.5	-82.5	5	0.00	335	44	397.6	397.7	397.7
106.0	16247	-60.3	-83.3	3	0.00	335	38	404.2	404.2	404.2
100.0	16610	-60.9	-84.9	3	0.00	335	29	409.8	409.8	409.8
95.4	16904	-58.9	-84.9	2	0.00	329	22	419.3	419.3	419.3
88.5	17374	-59.0	-86.2	2	0.00	320	12	428.2	428.2	428.2
84.3	17678	-59.0	-87.0	2	0.00	320	17	434.0	434.1	434.1
79.0	18086	-59.1	-88.1	1	0.00	340	14	442.1	442.1	442.1
77.0	18248	-56.5	-87.5	1	0.00	348	13	450.7	450.7	450.7
76.5	18288	-56.6	-87.6	1	0.00	350	13	451.3	451.3	451.3
72.9	18593	-57.5	-88.5	1	0.00	330	12	455.6	455.6	455.6
70.0	18850	-58.3	-89.3	1	0.00	350	17	459.3	459.3	459.3
69.5	18898	-58.1	-89.1	1	0.00	355	20	460.7	460.7	460.7
69.4	18904	-58.1	-89.1	1	0.00	356	20	460.9	460.9	460.9
66.2	19202	-56.6	-88.2	1	0.00	25	15	470.3	470.3	470.3
63.4	19476	-55.3	-87.3	1	0.00	12	14	479.1	479.1	479.1
63.1	19507	-55.4	-87.4	1	0.00	10	14	479.6	479.6	479.6
60.2	19805	-56.1	-88.1	1	0.00	59	10	484.4	484.5	484.4
60.1	19812	-56.0	-88.1	1	0.00	60	10	484.8	484.8	484.8
58.1	20031	-54.1	-87.1	1	0.00	61	10	493.9	493.9	493.9
50.0	20990	-54.9	-86.9	1	0.00	65	9	513.7	513.7	513.7
48.5	21185	-55.3	-87.3	1	0.00	96	6	517.2	517.2	517.2
47.4	21336	-54.8	-86.9	1	0.00	120	4	522.0	522.0	522.0
42.2	22079	-52.1	-85.1	1	0.01	246	2	546.1	546.1	546.1
41.1	22250	-52.2	-85.2	1	0.01	275	1	549.9	549.9	549.9
37.4	22860	-52.8	-85.8	1	0.01	95	20	563.5	563.5	563.5

33.2	23627	-53.5	-86.5	1	0.01	82	18	581.1	581.2	581.1
30.9	24079	-53.1	-86.1	1	0.01	75	17	594.0	594.1	594.0
30.0	24280	-52.9	-85.9	1	0.01	85	20	599.8	599.9	599.8
29.5	24384	-52.9	-85.8	1	0.01	85	19	602.7	602.8	602.7
28.2	24689	-52.7	-85.7	1	0.01	80	19	611.5	611.5	611.5
28.2	24679	-52.7	-85.7	1	0.01	80	19	611.1	611.2	611.1
26.9	24994	-51.5	-85.0	1	0.01	60	23	622.9	623.0	622.9
24.5	25603	-49.3	-83.7	1	0.01	85	27	646.2	646.3	646.2
23.4	25908	-48.2	-83.0	1	0.02	70	28	658.1	658.3	658.2
22.9	26036	-47.7	-82.7	1	0.02	72	28	663.2	663.4	663.2
20.0	26930	-46.9	-81.9	1	0.02	85	26	691.8	692.1	691.9
19.0	27271	-46.3	-81.3	1	0.03	85	30	703.9	704.2	703.9
18.6	27432	-45.7	-80.8	1	0.03	85	32	710.8	711.1	710.8
17.7	27737	-44.5	-80.0	1	0.04	85	26	723.9	724.3	723.9
16.7	28136	-42.9	-78.9	1	0.05	85	31	741.3	741.8	741.3
15.5	28651	-43.5	-79.5	1	0.05	85	38	755.8	756.3	755.8
15.4	28682	-43.5	-79.5	1	0.05	85	38	756.7	757.2	756.7
13.2	29732	-38.3	-75.3	1	0.11	91	34	808.7	809.9	808.7
11.8	30480	-38.1	-76.0	1	0.11	95	31	834.7	836.0	834.8
11.6	30622	-38.1	-76.1	1	0.11	94	31	839.8	841.1	839.9
10.6	31241	-40.1	-77.1	1	0.10	92	32	854.4	855.6	854.4
10.0	31640	-39.5	-76.5	1	0.12	90	32	871.0	872.4	871.0
8.3	32921	-37.1	-75.1	1	0.17			928.0	930.4	928.1
8.3	32918	-37.1	-75.1	1	0.17	75	33	927.9	930.2	928.0

Station information and sounding indices

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Station identifier: BUF
Station number: 72528
Observation time: 150725/0000
Station latitude: 42.93
Station longitude: -78.73
Station elevation: 215.0
Showalter index: 7.84
Lifted index: 10.20
LIFT computed using virtual temperature: 9.96
SWEAT index: 132.19
K index: -1.30
Cross totals index: 14.10
Vertical totals index: 21.10
Totals totals index: 35.20
Convective Available Potential Energy: 0.00
CAPE using virtual temperature: 0.00
Convective Inhibition: 0.00
CINS using virtual temperature: 0.00
Bulk Richardson Number: 0.00
Bulk Richardson Number using CAPV: 0.00
Temp [K] of the Lifted Condensation Level: 275.69
Pres [hPa] of the Lifted Condensation Level: 750.64
Mean mixed layer potential temperature: 299.25
Mean mixed layer mixing ratio: 6.22
1000 hPa to 500 hPa thickness: 5684.00
Precipitable water [mm] for entire sounding: 19.79

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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)
