

72476 GJT Grand Junction Observations at 00Z 26 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	55									
925.0	754									
853.0	1475	32.2	7.2	21	7.52	140	3	319.5	343.9	321.0
850.0	1502	31.4	7.4	22	7.65	150	3	319.0	343.8	320.5
848.0	1523	30.6	6.6	22	7.26	160	3	318.4	341.9	319.8
838.0	1629	29.4	6.4	23	7.24	213	3	318.2	341.6	319.6
819.0	1829	27.4	5.6	25	6.99	315	2	318.2	340.9	319.6
790.8	2134	24.5	4.3	27	6.63	315	2	318.3	339.7	319.5
763.7	2438	21.5	3.0	30	6.27	315	2	318.2	338.6	319.4
737.4	2743	18.5	1.8	33	5.93	275	4	318.2	337.5	319.3
726.0	2879	17.2	1.2	34	5.78	287	4	318.2	337.0	319.3
700.0	3189	14.4	1.4	41	6.09	315	4	318.4	338.2	319.6
661.0	3658	10.1	-1.1	46	5.38	260	7	318.8	336.4	319.8
613.7	4267	4.5	-4.3	53	4.57	240	14	319.2	334.2	320.1
569.6	4877	-1.1	-7.5	62	3.85	245	19	319.4	332.3	320.2
564.0	4958	-1.9	-7.9	64	3.76	247	19	319.5	332.0	320.2
556.0	5071	-2.5	-13.5	43	2.44	249	19	320.1	328.4	320.5
543.0	5258	-3.5	-21.5	23	1.27	252	20	321.1	325.6	321.3
538.0	5331	-2.7	-36.7	5	0.31	254	20	322.9	324.1	322.9
532.0	5420	-1.7	-42.7	3	0.17	255	20	325.1	325.8	325.1
520.0	5601	-2.3	-45.3	2	0.13	259	20	326.5	327.0	326.5
500.0	5910	-4.7	-49.7	2	0.08	265	21	327.2	327.6	327.3
488.1	6096	-6.2	-49.7	2	0.08	250	23	327.7	328.0	327.7
426.0	7146	-14.7	-49.7	3	0.10	253	26	329.8	330.2	329.8
400.0	7620	-18.3	-49.3	5	0.11	255	28	331.1	331.6	331.1
370.0	8198	-22.7	-52.7	5	0.08	242	28	332.7	333.1	332.8
353.3	8534	-24.9	-54.4	5	0.07	235	28	334.2	334.5	334.2
337.0	8878	-27.1	-56.1	5	0.06	235	36	335.7	336.0	335.7
325.0	9139	-27.7	-59.7	3	0.04	235	43	338.4	338.6	338.4
324.8	9144	-27.7	-59.7	3	0.04	235	43	338.4	338.6	338.4
306.0	9570	-31.1	-62.1	3	0.03	243	45	339.5	339.6	339.5
300.0	9710	-32.1	-58.1	6	0.05	245	46	340.0	340.2	340.0
271.0	10419	-38.1	-54.1	17	0.09	245	55	341.3	341.7	341.3
261.3	10668	-40.2	-57.1	15	0.07	245	58	341.8	342.1	341.8
260.0	10703	-40.5	-57.5	14	0.06	244	58	341.9	342.1	341.9
255.0	10835	-40.7	-61.7	9	0.04	242	59	343.5	343.6	343.5
250.0	10970	-41.7	-66.7	5	0.02	240	59	343.9	344.0	343.9
239.0	11274	-44.5	-65.5	8	0.02	241	60	344.2	344.3	344.2
214.0	12008	-48.5	-68.5	8	0.02	244	61	349.0	349.1	349.0
210.0	12131	-49.6	-69.8	8	0.01	245	61	349.2	349.3	349.2
208.1	12192	-50.1	-70.5	7	0.01	245	61	349.3	349.4	349.3
200.0	12450	-52.3	-73.3	6	0.01	250	57	349.8	349.8	349.8
181.0	13086	-57.1	-75.1	8	0.01	247	53	352.1	352.1	352.1
170.0	13479	-58.9	-78.9	6	0.00	244	51	355.5	355.5	355.5
150.0	14250	-64.9	-83.9	6	0.00	240	46	358.1	358.1	358.1
148.1	14326	-65.5	-84.3	6	0.00	240	45	358.3	358.4	358.3
142.0	14583	-67.5	-85.5	6	0.00	234	45	359.2	359.2	359.2
135.0	14888	-68.3	-85.3	7	0.00	228	45	363.0	363.0	363.0
129.0	15159	-70.5	-88.5	6	0.00	222	45	363.8	363.8	363.8
127.3	15240	-70.8	-88.6	6	0.00	220	45	364.7	364.8	364.7
120.0	15588	-71.9	-88.9	6	0.00	225	52	368.8	368.8	368.8
116.0	15789	-70.5	-87.5	7	0.00	240	51	375.0	375.0	375.0
114.8	15850	-70.6	-87.4	7	0.00	245	51	376.0	376.0	376.0

110.0	16105	-70.9	-86.9	8	0.00	256	36	380.0	380.0	380.0
109.0	16159	-70.5	-86.5	8	0.00	258	33	381.7	381.8	381.7
107.0	16270	-66.9	-84.9	6	0.00	262	27	390.6	390.6	390.6
106.0	16327	-65.7	-84.7	6	0.00	265	24	393.9	393.9	393.9
103.7	16459	-66.6	-85.2	6	0.00	270	16	394.6	394.7	394.7
100.0	16680	-68.1	-86.1	6	0.00	285	10	395.9	395.9	395.9
91.3	17224	-68.9	-86.9	6	0.00	266	12	404.7	404.8	404.7
88.9	17385	-64.9	-84.9	5	0.00	260	13	415.8	415.8	415.8
84.7	17678	-63.0	-85.6	3	0.00	250	14	425.3	425.3	425.3
84.0	17732	-62.7	-85.7	3	0.00	260	13	427.1	427.1	427.1
82.6	17835	-60.1	-85.1	2	0.00	279	10	434.4	434.4	434.4
76.8	18288	-62.2	-88.1	2	0.00	0	0	439.3	439.3	439.3
76.4	18319	-62.3	-88.3	2	0.00	351	0	439.6	439.6	439.6
74.2	18499	-60.9	-87.9	2	0.00	301	3	446.3	446.3	446.3
72.2	18668	-61.7	-89.7	1	0.00	254	5	448.1	448.1	448.1
70.0	18860	-60.7	-89.7	1	0.00	200	8	454.2	454.2	454.2
69.4	18914	-60.7	-89.7	1	0.00	208	8	455.3	455.3	455.3
67.0	19135	-56.9	-87.9	1	0.00	242	9	468.1	468.1	468.1
65.3	19298	-56.3	-88.3	1	0.00	267	9	472.9	472.9	472.9
62.1	19617	-57.7	-88.7	1	0.00	315	10	476.6	476.6	476.6
60.2	19812	-57.3	-88.8	1	0.00	345	11	481.7	481.7	481.7
58.3	20017	-56.9	-88.9	1	0.00	45	11	487.1	487.1	487.1
57.4	20117	-57.6	-89.2	1	0.00	75	11	487.7	487.7	487.7
56.0	20271	-58.7	-89.7	1	0.00	87	11	488.6	488.6	488.6
52.5	20680	-56.1	-88.1	1	0.00	117	10	503.8	503.8	503.8
50.0	20990	-56.5	-88.5	1	0.00	140	9	509.9	509.9	509.9
48.9	21131	-57.1	-89.1	1	0.00	111	9	511.7	511.8	511.7
47.4	21336	-56.0	-88.0	1	0.00	70	10	519.2	519.2	519.2
47.0	21383	-55.7	-87.7	1	0.00	75	10	520.9	520.9	520.9
45.1	21641	-55.8	-87.8	1	0.00	100	10	526.8	526.8	526.8
43.0	21946	-55.9	-87.9	1	0.00	95	10	533.8	533.9	533.8
42.3	22053	-55.9	-87.9	1	0.00	83	11	536.3	536.4	536.3
41.8	22129	-54.7	-87.7	1	0.00	74	11	541.1	541.2	541.1
41.0	22250	-54.8	-87.5	1	0.00	60	12	543.9	544.0	543.9
39.3	22524	-54.9	-86.9	1	0.01	62	15	550.2	550.3	550.2
37.3	22860	-53.9	-86.4	1	0.01	65	19	561.1	561.2	561.1
35.6	23165	-52.9	-85.9	1	0.01	90	19	571.2	571.3	571.2
33.9	23470	-52.0	-85.4	1	0.01	70	17	581.4	581.5	581.4
32.4	23774	-51.1	-84.9	1	0.01	65	21	591.8	591.9	591.8
31.8	23890	-50.7	-84.7	1	0.01	71	22	595.8	595.9	595.8
30.0	24270	-50.7	-84.7	1	0.01	90	26	605.8	605.9	605.8
29.5	24384	-50.7	-84.7	1	0.01	100	26	608.9	609.0	608.9
28.1	24689	-50.6	-84.6	1	0.01	80	30	617.3	617.4	617.3
26.8	24994	-50.5	-84.5	1	0.01	100	29	625.8	625.9	625.8
25.8	25253	-50.5	-84.5	1	0.01	98	28	633.1	633.2	633.1
24.6	25565	-48.1	-82.1	1	0.02	95	27	648.6	648.8	648.7
24.5	25603	-48.3	-82.3	1	0.02	95	27	649.2	649.4	649.2
23.8	25782	-49.1	-83.1	1	0.02	104	24	651.9	652.1	651.9
23.4	25908	-48.4	-82.8	1	0.02	110	22	657.5	657.6	657.5
22.5	26152	-47.1	-82.1	1	0.02	104	21	668.4	668.6	668.4
20.0	26930	-48.1	-82.1	1	0.02	85	18	688.2	688.4	688.2
19.4	27127	-48.3	-82.3	1	0.02	80	18	693.6	693.8	693.6
19.3	27165	-48.3	-82.3	1	0.02	79	19	694.6	694.9	694.6
18.5	27432	-47.3	-81.7	1	0.03	75	26	705.6	705.9	705.6
16.2	28346	-44.0	-79.5	1	0.04	80	30	744.5	745.0	744.5
15.4	28651	-42.9	-78.8	1	0.05	90	28	758.0	758.5	758.0
15.3	28714	-42.7	-78.7	1	0.05	88	28	760.7	761.4	760.8
14.1	29261	-43.6	-79.7	1	0.05	75	29	775.4	776.0	775.5
13.8	29408	-43.9	-79.9	1	0.05	76	29	779.4	780.0	779.5
12.0	30355	-40.1	-77.1	1	0.09	84	32	824.6	825.7	824.7
11.8	30480	-40.1	-77.1	1	0.09	85	32	829.0	830.1	829.1

10.8	31090	-40.0	-77.0	1	0.10	95	40	850.8	852.1	850.9
10.0	31600	-39.9	-76.9	1	0.11	105	36	869.5	870.9	869.5
9.7	31808	-39.9	-76.9	1	0.11	101	35	877.1	878.5	877.1
8.3	32918	-36.7	-74.6	1	0.19	80	32	930.9	933.5	931.0
8.0	33134	-36.1	-74.1	1	0.21			941.8	944.6	941.9

Station information and sounding indices

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Station identifier: GJT
Station number: 72476
Observation time: 150726/0000
Station latitude: 39.11
Station longitude: -108.53
Station elevation: 1475.0
Showalter index: 0.68
Lifted index: 1.64
LIFT computed using virtual temperature: 0.88
SWEAT index: 115.78
K index: 30.50
Cross totals index: 12.10
Vertical totals index: 36.10
Totals totals index: 48.20
Convective Available Potential Energy: 85.18
CAPE using virtual temperature: 137.45
Convective Inhibition: -26.51
CINS using virtual temperature: -8.76
Equilibrium Level: 333.03
Equilibrium Level using virtual temperature: 331.64
Level of Free Convection: 579.77
LFCT using virtual temperature: 587.81
Bulk Richardson Number: 5.38
Bulk Richardson Number using CAPV: 8.68
Temp [K] of the Lifted Condensation Level: 274.42
Pres [hPa] of the Lifted Condensation Level: 594.83
Mean mixed layer potential temperature: 318.34
Mean mixed layer mixing ratio: 7.13
1000 hPa to 500 hPa thickness: 5855.00
Precipitable water [mm] for entire sounding: 17.74

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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)
