

70231 PAMC Mcgrath 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
1000.0	51									
994.0	103	19.4	11.4	60	8.58	270	9	293.1	317.9	294.6
982.0	207	16.8	8.8	59	7.29	275	10	291.5	312.5	292.7
970.7	305	15.9	8.6	62	7.29	280	10	291.5	312.6	292.8
936.2	610	13.1	8.2	72	7.32	275	8	291.7	312.9	293.0
925.0	712	12.2	8.0	76	7.32	290	7	291.8	312.9	293.1
909.0	858	11.0	7.7	80	7.30	301	5	292.0	313.1	293.3
902.9	914	10.7	7.5	81	7.23	305	4	292.2	313.2	293.5
870.4	1219	8.8	6.2	83	6.86	65	7	293.4	313.4	294.6
859.0	1329	8.2	5.7	84	6.73	57	6	293.8	313.5	295.0
850.0	1416	8.6	4.3	74	6.16	50	5	295.1	313.3	296.2
808.4	1829	6.2	1.4	72	5.29	45	11	296.8	312.7	297.8
802.0	1895	5.8	1.0	71	5.16	42	11	297.1	312.6	298.0
778.7	2134	3.9	-0.1	75	4.91	30	10	297.6	312.4	298.4
750.0	2438	1.4	-1.4	81	4.62	40	12	298.1	312.1	298.9
728.0	2679	-0.5	-2.5	86	4.39	20	10	298.5	311.9	299.3
722.2	2743	-0.8	-3.2	84	4.20	15	10	298.9	311.7	299.7
704.0	2947	-1.7	-5.4	76	3.65	23	9	300.1	311.4	300.8
700.0	2992	-2.1	-5.6	77	3.62	25	9	300.1	311.3	300.8
682.0	3198	-3.7	-6.1	83	3.57	33	9	300.6	311.6	301.2
653.0	3540	-5.7	-9.6	74	2.84	46	9	302.1	311.1	302.6
643.2	3658	-6.5	-10.4	74	2.71	50	9	302.4	311.0	302.9
623.0	3907	-8.3	-12.0	75	2.46	26	8	303.2	311.1	303.6
594.6	4267	-9.8	-14.6	68	2.09	350	6	305.5	312.3	305.9
589.0	4341	-10.1	-15.1	67	2.02	355	6	306.0	312.6	306.4
556.0	4782	-13.3	-18.0	68	1.68	28	9	307.3	312.9	307.6
549.1	4877	-14.1	-19.4	64	1.50	35	10	307.5	312.5	307.8
542.0	4976	-14.9	-20.9	60	1.34	37	11	307.6	312.2	307.9
515.0	5360	-17.9	-22.1	70	1.27	45	13	308.5	312.8	308.8
506.0	5491	-18.5	-27.5	45	0.80	48	14	309.4	312.1	309.5
500.0	5580	-19.3	-28.3	45	0.75	50	15	309.4	312.1	309.6
495.0	5655	-19.9	-28.9	45	0.71	54	15	309.6	312.1	309.7
488.0	5760	-19.9	-33.9	28	0.45	59	15	310.9	312.5	310.9
477.0	5929	-20.5	-37.5	20	0.32	67	15	312.2	313.4	312.2
466.3	6096	-21.5	-36.5	25	0.36	75	15	312.9	314.3	313.0
456.0	6260	-22.5	-35.5	30	0.41	74	14	313.7	315.2	313.8
433.0	6638	-24.3	-51.3	6	0.08	73	13	316.1	316.4	316.1
400.0	7210	-28.9	-54.9	6	0.06	70	11	317.4	317.6	317.4
377.6	7620	-32.4	-52.9	11	0.08	70	14	317.9	318.2	317.9
376.0	7650	-32.7	-52.7	12	0.08	70	14	318.0	318.3	318.0
362.0	7916	-34.9	-46.9	28	0.16	70	12	318.5	319.1	318.5
361.5	7925	-35.0	-47.1	28	0.15	70	12	318.5	319.1	318.6
342.0	8311	-38.1	-56.1	13	0.06	73	15	319.4	319.6	319.4
305.0	9089	-44.5	-58.5	19	0.05	80	21	321.0	321.2	321.0
302.5	9144	-44.8	-58.3	21	0.05	80	21	321.3	321.5	321.4
300.0	9200	-45.1	-58.1	22	0.05	80	22	321.7	321.9	321.7
292.0	9381	-45.9	-60.9	17	0.04	84	26	323.0	323.2	323.0
289.0	9449	-46.4	-61.3	17	0.03	85	27	323.3	323.4	323.3
266.0	9997	-50.5	-64.5	17	0.02	94	23	325.0	325.1	325.1
250.0	10400	-53.3	-65.3	22	0.02	100	20	326.7	326.8	326.7
240.0	10661	-55.1	-64.1	32	0.03	98	20	327.8	327.9	327.8
230.0	10932	-55.9	-65.9	27	0.02	95	21	330.6	330.7	330.6
228.5	10973	-55.1	-65.8	25	0.02	95	22	332.4	332.6	332.4

226.0	11044	-53.7	-65.7	22	0.02	96	20	335.6	335.8	335.6
221.0	11188	-53.9	-67.9	16	0.02	99	15	337.5	337.6	337.5
218.0	11276	-52.9	-68.9	13	0.02	100	12	340.4	340.4	340.4
217.9	11278	-52.9	-68.9	13	0.02	100	12	340.4	340.5	340.4
213.0	11426	-51.1	-70.1	9	0.01	85	7	345.4	345.5	345.4
211.0	11487	-49.7	-70.7	7	0.01	79	4	348.5	348.6	348.5
208.0	11582	-48.6	-73.6	4	0.01	70	1	351.6	351.7	351.6
202.0	11774	-46.5	-79.5	1	0.00	22	2	357.9	358.0	357.9
200.0	11840	-46.9	-81.9	1	0.00	5	3	358.3	358.4	358.3
191.0	12144	-47.7	-82.7	1	0.00	355	4	361.8	361.8	361.8
189.0	12214	-46.9	-81.9	1	0.00	352	4	364.2	364.2	364.2
185.0	12355	-47.3	-82.3	1	0.00	347	4	365.8	365.8	365.8
170.0	12916	-45.3	-80.3	1	0.00	328	5	378.0	378.1	378.0
159.0	13361	-45.7	-80.7	1	0.00	313	6	384.6	384.7	384.6
153.0	13618	-44.7	-79.7	1	0.00	304	7	390.6	390.6	390.6
150.0	13750	-44.9	-79.9	1	0.00	300	7	392.5	392.5	392.5
135.0	14451	-47.3	-82.3	1	0.00	305	5	400.2	400.2	400.2
130.0	14701	-46.9	-81.9	1	0.00	306	4	405.3	405.3	405.3
123.0	15067	-47.7	-82.7	1	0.00	309	3	410.3	410.3	410.3
121.0	15176	-47.1	-82.1	1	0.00	310	3	413.3	413.3	413.3
119.8	15240	-47.2	-82.2	1	0.00	310	3	414.2	414.2	414.2
118.0	15342	-47.5	-82.5	1	0.00	313	3	415.5	415.6	415.5
113.0	15629	-46.7	-81.7	1	0.00	321	4	422.2	422.2	422.2
110.0	15807	-47.3	-82.3	1	0.00	327	5	424.3	424.4	424.3
107.0	15991	-46.3	-81.3	1	0.01	332	6	429.6	429.6	429.6
100.0	16440	-46.7	-81.7	1	0.01	345	7	437.2	437.2	437.2
88.2	17275	-45.9	-80.9	1	0.01	350	8	454.8	454.8	454.8
75.7	18288	-46.7	-81.7	1	0.01	355	9	473.4	473.4	473.4
70.0	18810	-47.1	-82.1	1	0.01	355	8	483.3	483.3	483.3
68.4	18962	-47.5	-82.5	1	0.01	355	8	485.6	485.6	485.6
56.6	20212	-45.9	-80.9	1	0.01	358	5	516.2	516.3	516.2
50.0	21030	-47.3	-82.3	1	0.01	0	3	531.5	531.6	531.5
47.9	21314	-47.7	-82.7	1	0.01	79	4	537.1	537.2	537.2
47.7	21336	-47.7	-82.7	1	0.01	85	4	537.7	537.8	537.7
42.1	22172	-46.5	-81.5	1	0.01	85	5	560.3	560.4	560.3
39.2	22646	-47.3	-82.3	1	0.01	85	6	569.8	569.9	569.8
30.2	24384	-45.0	-80.0	1	0.02	85	8	620.2	620.4	620.2
30.0	24430	-44.9	-79.9	1	0.02	80	8	621.6	621.8	621.6
25.2	25603	-42.4	-78.7	1	0.03	85	17	660.4	660.7	660.4
24.1	25908	-41.8	-78.4	1	0.04	105	14	670.9	671.2	670.9
23.0	26213	-41.2	-78.1	1	0.04	100	13	681.5	681.9	681.5
22.9	26245	-41.1	-78.1	1	0.04	102	13	682.6	683.0	682.7
22.0	26518	-41.5	-78.2	1	0.04	120	11	689.3	689.8	689.4
21.0	26822	-42.0	-78.3	1	0.04	105	4	696.9	697.3	696.9
20.0	27160	-42.5	-78.5	1	0.04	70	9	705.3	705.7	705.3
19.7	27262	-42.7	-78.7	1	0.04	80	9	707.7	708.2	707.8
19.2	27432	-42.3	-78.5	1	0.04	95	9	713.9	714.4	713.9
18.4	27737	-41.7	-78.0	1	0.05	100	13	725.1	725.6	725.1
17.6	28042	-41.0	-77.6	1	0.06	70	12	736.5	737.1	736.5
16.8	28346	-40.3	-77.1	1	0.06	90	15	747.9	748.6	748.0
16.1	28651	-39.6	-76.7	1	0.07	90	16	759.6	760.4	759.7
15.4	28956	-39.0	-76.2	1	0.08	120	15	771.5	772.4	771.6
13.5	29870	-37.0	-74.9	1	0.11	70	12	808.2	809.5	808.3
12.3	30480	-35.6	-74.0	1	0.14	90	18	833.6	835.3	833.7
11.8	30785	-35.0	-73.6	1	0.15	145	14	846.6	848.5	846.7
11.3	31090	-34.3	-73.2	1	0.17	145	11	859.8	862.0	859.9
11.0	31273	-33.9	-72.9	1	0.18	81	6	867.9	870.1	868.0
10.8	31394	-34.1	-73.1	1	0.18	40	2	871.4	873.6	871.5
10.0	31940	-35.1	-74.1	1	0.17	95	16	887.4	889.5	887.4
9.9	32004	-34.6	-73.6	1	0.18	90	15	891.4	893.7	891.5
9.5	32309	-32.5	-71.5	1	0.26	75	15	910.7	914.1	910.9

9.5	32299	-32.5	-71.5	1	0.26	75	15	910.3	913.6	910.4
9.1	32614	-31.9	-71.1	1	0.29	115	22	924.3	928.1	924.5
8.0	33528	-30.0	-69.8	1	0.39	125	13	966.3	971.6	966.6
7.7	33789	-29.5	-69.5	1	0.43			978.6	984.5	978.9

Station information and sounding indices

Station identifier: PAMC
Station number: 70231
Observation time: 150724/0000
Station latitude: 62.96
Station longitude: -155.61
Station elevation: 103.0
Showalter index: 1.02
Lifted index: 1.12
LIFT computed using virtual temperature: 1.00
SWEAT index: 126.58
K index: 28.70
Cross totals index: 23.60
Vertical totals index: 27.90
Totals totals index: 51.50
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: 280.46
Pres [hPa] of the Lifted Condensation Level: 871.33
Mean mixed layer potential temperature: 291.73
Mean mixed layer mixing ratio: 7.43
1000 hPa to 500 hPa thickness: 5529.00
Precipitable water [mm] for entire sounding: 23.02

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)
