

72520 PIT Pittsburgh 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	123									
973.0	359	27.8	16.8	51	12.52	335	5	303.3	340.8	305.6
967.0	414	26.6	15.6	51	11.65	334	6	302.6	337.4	304.8
945.8	610	24.7	14.7	54	11.24	330	10	302.6	336.2	304.7
925.0	806	22.8	13.8	57	10.83	345	9	302.6	335.0	304.6
913.5	914	21.8	13.2	58	10.58	350	11	302.6	334.2	304.5
881.9	1219	18.8	11.7	63	9.88	345	11	302.6	332.2	304.4
880.0	1238	18.6	11.6	64	9.84	346	11	302.6	332.1	304.4
850.0	1534	15.8	11.3	75	9.99	355	9	302.7	332.6	304.5
820.9	1829	12.9	11.2	89	10.28	340	10	302.6	333.4	304.5
818.0	1859	12.6	11.2	91	10.31	343	10	302.6	333.5	304.5
806.0	1983	12.6	3.6	54	6.18	355	11	303.9	322.9	305.1
791.5	2134	11.3	3.4	58	6.20	10	12	304.1	323.1	305.2
763.2	2438	8.7	2.9	67	6.23	0	15	304.5	323.6	305.6
749.0	2594	7.4	2.7	72	6.24	3	16	304.7	323.9	305.9
735.6	2743	6.8	-2.9	50	4.22	5	16	305.6	318.8	306.4
732.0	2783	6.6	-4.4	45	3.79	2	16	305.8	317.8	306.5
718.0	2941	5.6	-6.4	42	3.31	350	17	306.4	317.0	307.0
700.0	3149	5.8	-7.2	39	3.20	335	18	308.9	319.2	309.5
697.0	3184	6.4	-12.6	24	2.09	335	18	309.9	316.9	310.3
691.0	3255	7.4	-16.6	16	1.52	335	18	311.8	317.0	312.1
664.0	3583	7.2	-19.8	13	1.20	335	19	315.1	319.4	315.4
658.0	3658	6.7	-20.3	13	1.17	335	19	315.4	319.5	315.6
644.0	3834	5.6	-21.4	12	1.08	332	19	316.1	319.9	316.3
628.0	4040	4.0	-11.0	33	2.64	329	18	316.6	325.4	317.1
617.0	4183	3.4	-23.6	12	0.93	326	18	317.5	320.8	317.6
610.6	4267	3.0	-25.7	10	0.78	325	18	317.9	320.8	318.1
587.0	4586	1.4	-33.6	5	0.38	322	20	319.7	321.1	319.8
571.0	4808	-0.3	-22.3	17	1.13	321	22	320.2	324.2	320.4
566.1	4877	-0.9	-23.3	17	1.04	320	22	320.3	324.1	320.5
558.0	4992	-1.9	-24.9	15	0.91	321	22	320.4	323.8	320.6
553.0	5063	-2.1	-29.1	11	0.63	321	23	321.0	323.4	321.2
546.0	5165	-2.3	-18.3	28	1.67	321	23	322.0	327.8	322.3
541.0	5238	-2.5	-21.5	22	1.28	322	23	322.6	327.1	322.8
536.0	5312	-2.9	-17.9	30	1.75	322	24	323.0	329.1	323.3
527.0	5446	-3.5	-24.5	18	1.00	323	24	323.8	327.5	324.0
519.0	5567	-3.9	-24.9	18	0.98	324	25	324.7	328.3	324.9
500.0	5860	-6.3	-24.3	23	1.08	325	26	325.3	329.2	325.5
494.0	5954	-7.1	-24.1	24	1.11	323	25	325.4	329.5	325.7
485.0	6096	-7.4	-35.0	9	0.41	320	24	326.8	328.3	326.8
483.0	6129	-7.5	-37.5	7	0.32	320	24	327.1	328.3	327.1
474.0	6274	-8.9	-36.9	8	0.34	319	25	327.1	328.4	327.1
469.0	6356	-9.7	-27.7	22	0.84	319	26	327.1	330.2	327.2
451.0	6656	-11.7	-39.7	8	0.27	318	28	328.2	329.3	328.3
441.0	6826	-12.9	-26.9	30	0.96	318	29	328.8	332.4	329.0
415.0	7285	-16.1	-37.1	15	0.38	316	33	330.5	332.0	330.6
400.0	7560	-18.3	-38.3	16	0.35	315	35	331.1	332.5	331.2
396.8	7620	-18.8	-38.4	16	0.35	315	36	331.3	332.7	331.4
383.0	7882	-20.7	-38.7	18	0.35	312	35	332.1	333.5	332.2
340.0	8750	-27.3	-50.3	9	0.11	304	33	334.6	335.1	334.6
321.8	9144	-29.4	-55.5	6	0.06	300	32	337.1	337.4	337.1
317.0	9250	-29.9	-56.9	5	0.05	302	32	337.8	338.0	337.8
300.0	9640	-32.9	-56.9	7	0.06	310	33	338.9	339.1	338.9

270.2	10363	-39.0	-60.1	9	0.04	310	31	340.3	340.5	340.3
250.0	10900	-43.5	-62.5	10	0.03	310	38	341.3	341.4	341.3
247.0	10981	-44.1	-62.1	12	0.04	311	40	341.5	341.7	341.6
241.0	11146	-44.3	-55.3	28	0.09	314	43	343.6	344.0	343.7
233.0	11371	-46.5	-53.5	45	0.11	318	47	343.6	344.1	343.7
217.0	11841	-49.7	-54.7	56	0.10	326	56	345.8	346.2	345.8
207.0	12148	-51.9	-57.9	48	0.07	331	62	347.0	347.3	347.0
202.0	12306	-53.3	-61.3	37	0.05	334	65	347.2	347.4	347.2
200.0	12370	-53.9	-61.9	37	0.05	335	66	347.2	347.5	347.3
196.1	12497	-55.0	-63.3	35	0.04	340	70	347.5	347.7	347.5
192.0	12630	-56.1	-64.8	33	0.03	340	70	347.7	347.9	347.7
188.0	12764	-57.3	-66.3	31	0.03	339	66	348.0	348.1	348.0
176.0	13180	-58.5	-72.5	15	0.01	336	52	352.6	352.7	352.6
169.6	13411	-59.6	-72.0	18	0.01	335	44	354.5	354.6	354.5
168.0	13471	-59.9	-71.9	19	0.01	331	44	355.0	355.1	355.0
161.5	13716	-61.8	-72.9	21	0.01	315	44	355.9	356.0	355.9
153.0	14049	-64.3	-74.3	24	0.01	320	48	357.1	357.1	357.1
150.0	14170	-63.3	-74.3	21	0.01	320	53	360.8	360.9	360.8
145.0	14377	-64.9	-75.9	21	0.01	320	59	361.6	361.6	361.6
141.0	14548	-63.7	-75.7	18	0.01	320	64	366.6	366.6	366.6
139.1	14630	-64.1	-76.7	16	0.01	320	66	367.3	367.4	367.3
139.0	14636	-64.1	-76.8	16	0.01	320	66	367.4	367.4	367.4
138.0	14680	-64.3	-77.3	15	0.01	321	64	367.8	367.8	367.8
132.0	14952	-64.1	-78.1	13	0.01	330	53	372.8	372.9	372.8
126.0	15240	-62.3	-77.8	11	0.01	340	42	381.1	381.2	381.1
124.0	15336	-61.7	-77.7	10	0.01	340	41	383.9	383.9	383.9
114.0	15853	-64.5	-80.5	9	0.01	340	36	388.0	388.1	388.0
107.0	16239	-65.7	-81.7	9	0.00	340	32	392.9	392.9	392.9
102.0	16529	-65.7	-82.7	8	0.00	340	29	398.3	398.3	398.3
101.0	16589	-63.7	-81.7	7	0.01	340	29	403.2	403.3	403.2
100.0	16650	-63.7	-81.7	7	0.01	340	28	404.4	404.4	404.4
96.9	16843	-64.3	-82.3	7	0.00	338	19	406.9	406.9	406.9
93.4	17069	-62.4	-81.9	6	0.01	335	8	414.9	414.9	414.9
92.1	17156	-61.7	-81.7	5	0.01	321	10	418.0	418.0	418.0
88.9	17374	-61.4	-82.1	5	0.01	285	14	422.8	422.8	422.8
84.7	17678	-61.0	-82.8	4	0.01	275	17	429.5	429.6	429.5
76.8	18288	-60.2	-84.0	3	0.00	330	22	443.4	443.5	443.4
76.2	18336	-60.1	-84.1	3	0.00	333	22	444.6	444.6	444.6
73.8	18537	-58.1	-84.1	2	0.00	346	24	452.9	452.9	452.9
73.1	18593	-58.1	-84.3	2	0.00	350	25	454.0	454.0	454.0
70.0	18870	-58.1	-85.1	2	0.00	25	12	459.7	459.8	459.7
69.7	18898	-58.1	-85.1	2	0.00	355	4	460.3	460.4	460.3
63.3	19507	-58.1	-86.0	2	0.00	20	13	473.2	473.2	473.2
62.5	19584	-58.1	-86.1	2	0.00	25	13	474.9	474.9	474.9
52.2	20726	-55.7	-86.3	1	0.00	100	11	505.4	505.5	505.4
50.5	20937	-55.3	-86.3	1	0.00	115	13	511.3	511.3	511.3
50.0	21000	-55.5	-86.5	1	0.00	120	14	512.2	512.3	512.2
49.8	21031	-55.7	-86.5	1	0.00	105	15	512.4	512.4	512.4
49.0	21128	-56.5	-86.5	1	0.00	105	11	512.9	512.9	512.9
47.4	21336	-55.3	-86.2	1	0.01	105	3	520.6	520.6	520.6
47.2	21366	-55.1	-86.1	1	0.01	102	4	521.7	521.8	521.7
45.2	21641	-55.5	-86.5	1	0.01	70	10	527.3	527.4	527.3
43.1	21946	-55.9	-86.9	1	0.00	65	17	533.6	533.6	533.6
40.9	22277	-56.3	-87.3	1	0.00	76	15	540.5	540.6	540.5
39.2	22555	-55.8	-87.2	1	0.01	85	13	548.5	548.6	548.5
37.3	22860	-55.3	-87.0	1	0.01	50	12	557.5	557.5	557.5
35.6	23165	-54.7	-86.8	1	0.01	85	18	566.5	566.6	566.5
31.9	23863	-53.5	-86.5	1	0.01	62	20	587.8	587.9	587.8
30.9	24079	-51.4	-85.2	1	0.01	55	21	599.1	599.2	599.1
30.5	24153	-50.7	-84.7	1	0.01	59	21	603.0	603.1	603.0
30.0	24260	-50.9	-84.9	1	0.01	65	22	605.3	605.4	605.3

29.4	24384	-51.0	-84.9	1	0.01	70	22	608.2	608.3	608.2
28.1	24689	-51.3	-84.9	1	0.01	65	24	615.6	615.7	615.6
25.6	25292	-51.9	-84.9	1	0.01	82	27	630.5	630.6	630.5
24.4	25603	-51.1	-84.3	1	0.01	90	28	641.3	641.4	641.3
20.0	26910	-47.9	-81.9	1	0.02	90	31	688.8	689.0	688.8
18.5	27432	-46.7	-81.2	1	0.03	80	32	707.9	708.2	707.9
12.9	29870	-41.2	-77.7	1	0.07	90	45	803.9	804.8	804.0
11.8	30480	-39.8	-76.9	1	0.09	85	30	829.9	831.0	829.9
10.0	31590	-37.3	-75.3	1	0.14	70	37	879.1	880.9	879.2
9.9	31659	-36.9	-74.9	1	0.15			883.2	885.1	883.3
7.9	33221	-36.7	-74.7	1	0.19			942.8	945.4	942.9

Station information and sounding indices

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Station identifier: PIT
Station number: 72520
Observation time: 150725/0000
Station latitude: 40.53
Station longitude: -80.22
Station elevation: 359.0
Showalter index: 3.82
Lifted index: 2.14
LIFT computed using virtual temperature: 1.66
SWEAT index: 179.58
K index: 20.40
Cross totals index: 17.60
Vertical totals index: 22.10
Totals totals index: 39.70
Convective Available Potential Energy: 42.48
CAPE using virtual temperature: 82.71
Convective Inhibition: -2.88
CINS using virtual temperature: 0.00
Equilibrium Level: 697.83
Equilibrium Level using virtual temperature: 692.84
Level of Free Convection: 790.48
LFCT using virtual temperature: 816.65
Bulk Richardson Number: 6.34
Bulk Richardson Number using CAPV: 12.34
Temp [K] of the Lifted Condensation Level: 285.64
Pres [hPa] of the Lifted Condensation Level: 816.65
Mean mixed layer potential temperature: 302.67
Mean mixed layer mixing ratio: 11.29
1000 hPa to 500 hPa thickness: 5737.00
Precipitable water [mm] for entire sounding: 26.56

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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)
