

70308 PASN St. Paul 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
1011.0	6	10.0	7.8	86	6.61	240	12	282.3	300.6	283.4
1000.0	96	8.4	6.6	88	6.15	250	14	281.6	298.6	282.6
994.0	146	8.0	6.3	89	6.06	252	14	281.6	298.5	282.7
975.0	305	7.2	5.3	88	5.78	260	15	282.4	298.5	283.3
945.0	562	5.8	3.8	87	5.35	252	17	283.5	298.6	284.4
939.5	610	5.7	3.7	87	5.32	250	17	283.9	298.9	284.8
925.0	737	5.4	3.3	86	5.27	245	17	284.8	299.8	285.7
905.2	914	5.7	3.3	85	5.39	260	21	286.9	302.3	287.8
897.0	989	5.8	3.3	84	5.44	259	20	287.8	303.4	288.7
872.0	1219	4.6	2.0	83	5.09	255	18	288.9	303.6	289.8
863.0	1304	4.2	1.5	83	4.97	257	22	289.3	303.7	290.1
850.0	1428	5.2	0.2	70	4.59	260	29	291.6	305.1	292.4
849.0	1438	5.2	0.2	70	4.59	260	29	291.7	305.2	292.5
818.0	1742	5.8	-3.2	52	3.71	264	36	295.4	306.7	296.1
809.4	1829	6.8	-4.8	43	3.33	265	38	297.4	307.7	298.0
792.0	2007	9.0	-8.0	29	2.65	265	37	301.6	310.0	302.1
779.9	2134	8.1	-8.2	31	2.65	265	36	301.9	310.3	302.4
751.5	2438	5.8	-8.8	34	2.63	260	39	302.6	311.0	303.1
742.0	2543	5.0	-9.0	36	2.62	260	38	302.9	311.2	303.4
725.0	2732	4.0	-12.0	30	2.11	260	37	303.8	310.7	304.2
724.0	2743	4.0	-12.8	28	1.98	260	37	303.9	310.4	304.3
709.0	2913	3.4	-24.6	11	0.74	266	36	305.1	307.7	305.2
700.0	3016	2.8	-24.2	12	0.78	270	35	305.6	308.2	305.7
698.0	3039	2.6	-25.4	11	0.70	270	35	305.6	308.0	305.7
693.0	3097	2.2	-21.8	15	0.97	269	36	305.8	309.1	305.9
689.0	3144	1.8	-12.2	35	2.19	269	36	305.8	312.9	306.2
686.0	3179	1.6	-11.4	37	2.34	269	37	306.0	313.6	306.4
659.0	3501	-0.7	-13.7	37	2.02	266	40	306.9	313.6	307.3
649.0	3623	-1.5	-12.5	43	2.27	265	41	307.4	314.8	307.8
646.1	3658	-1.7	-13.4	40	2.11	265	41	307.6	314.5	308.0
631.0	3846	-2.5	-18.5	28	1.42	267	40	308.7	313.5	309.0
624.0	3934	-2.1	-27.1	13	0.67	267	40	310.1	312.5	310.3
606.0	4166	-2.5	-23.5	18	0.95	269	39	312.3	315.6	312.5
598.3	4267	-3.2	-24.2	18	0.90	270	39	312.6	315.7	312.7
574.0	4594	-5.7	-26.7	17	0.75	267	41	313.4	316.1	313.6
553.5	4877	-7.8	-21.0	34	1.30	265	42	314.1	318.6	314.4
553.0	4884	-7.9	-20.9	34	1.31	265	42	314.2	318.7	314.4
539.0	5083	-9.1	-29.1	18	0.64	266	41	315.1	317.4	315.2
532.0	5184	-9.5	-28.5	20	0.69	267	41	315.8	318.2	315.9
523.0	5315	-10.5	-23.5	34	1.11	268	40	316.1	320.0	316.3
512.0	5478	-11.1	-29.1	21	0.68	269	40	317.3	319.8	317.4
505.0	5584	-11.7	-22.7	40	1.23	270	39	317.8	322.1	318.0
500.0	5660	-12.3	-24.3	36	1.08	270	39	318.0	321.8	318.2
497.0	5706	-12.7	-24.7	36	1.04	271	39	318.0	321.8	318.2
492.0	5783	-13.3	-22.3	47	1.31	271	39	318.2	322.8	318.5
474.0	6067	-15.3	-27.3	35	0.86	275	38	319.2	322.3	319.3
472.2	6096	-15.6	-26.3	39	0.96	275	38	319.2	322.6	319.4
467.0	6179	-16.3	-23.3	55	1.26	275	38	319.3	323.7	319.5
460.0	6293	-17.3	-22.3	65	1.40	275	39	319.4	324.3	319.7
421.0	6954	-21.1	-29.1	49	0.82	275	41	322.7	325.8	322.9
406.0	7221	-23.3	-35.3	32	0.47	275	43	323.2	325.0	323.3
400.0	7330	-24.1	-36.1	32	0.44	275	43	323.6	325.3	323.7
391.0	7495	-25.3	-40.3	23	0.29	275	44	324.1	325.3	324.2

386.0	7589	-25.9	-40.9	23	0.28	275	45	324.5	325.6	324.6
384.3	7620	-26.1	-39.1	29	0.34	275	45	324.6	325.9	324.7
382.0	7664	-26.5	-36.5	38	0.44	275	45	324.7	326.4	324.8
376.0	7778	-27.5	-36.5	42	0.45	275	46	324.9	326.6	324.9
354.0	8208	-31.1	-38.1	50	0.41	275	47	325.7	327.2	325.7
352.9	8230	-31.2	-38.3	50	0.40	275	47	325.8	327.3	325.8
328.0	8744	-34.7	-42.7	44	0.27	275	54	327.9	329.0	327.9
324.0	8829	-35.3	-50.3	20	0.12	275	55	328.2	328.7	328.2
321.0	8894	-35.5	-53.5	14	0.08	275	56	328.8	329.1	328.8
309.6	9144	-37.5	-55.5	14	0.07	275	60	329.4	329.7	329.4
300.0	9360	-39.3	-57.3	13	0.06	275	65	329.9	330.1	329.9
272.0	10026	-44.3	-61.3	13	0.04	275	70	332.0	332.1	332.0
262.0	10278	-45.3	-65.3	9	0.02	275	72	334.1	334.2	334.1
259.0	10355	-46.1	-60.1	19	0.04	275	73	334.0	334.2	334.0
250.0	10590	-47.9	-62.9	16	0.03	275	75	334.7	334.9	334.7
242.0	10803	-49.5	-59.5	30	0.05	275	76	335.4	335.7	335.5
229.0	11161	-52.3	-66.3	17	0.02	275	78	336.5	336.6	336.5
212.0	11653	-56.5	-67.5	24	0.02	275	80	337.5	337.6	337.5
204.3	11887	-57.9	-69.7	21	0.02	275	81	338.9	339.0	338.9
204.0	11896	-57.9	-69.7	21	0.02	275	81	338.9	339.0	338.9
202.0	11958	-58.3	-70.3	20	0.01	275	80	339.3	339.4	339.3
200.0	12020	-58.1	-71.1	17	0.01	280	79	340.6	340.7	340.6
194.0	12212	-57.3	-70.3	18	0.02	280	73	344.9	344.9	344.9
191.0	12311	-54.9	-71.9	10	0.01	280	70	350.2	350.3	350.2
186.0	12481	-54.3	-79.3	3	0.00	280	65	353.9	353.9	353.9
175.0	12872	-53.9	-86.9	1	0.00	280	53	360.8	360.8	360.8
167.0	13174	-52.3	-85.3	1	0.00	280	44	368.3	368.3	368.3
162.0	13371	-52.5	-85.5	1	0.00	280	38	371.2	371.2	371.2
161.0	13411	-52.3	-85.3	1	0.00	280	37	372.1	372.1	372.1
156.0	13615	-51.5	-84.5	1	0.00	283	36	376.9	376.9	376.9
153.6	13716	-51.5	-84.5	1	0.00	285	35	378.6	378.6	378.6
150.0	13870	-51.5	-84.5	1	0.00	280	31	381.1	381.1	381.1
145.0	14090	-52.1	-85.1	1	0.00	273	33	383.8	383.8	383.8
141.0	14271	-50.5	-84.5	1	0.00	267	35	389.7	389.7	389.7
139.8	14326	-50.6	-84.5	1	0.00	265	35	390.5	390.5	390.5
133.4	14630	-51.0	-84.7	1	0.00	280	27	395.0	395.0	395.0
127.3	14935	-51.4	-84.9	1	0.00	270	26	399.5	399.5	399.5
121.5	15240	-51.9	-85.1	1	0.00	270	25	404.1	404.1	404.1
116.0	15539	-52.3	-85.3	1	0.00	275	23	408.7	408.7	408.7
110.0	15882	-51.9	-84.9	1	0.00	280	20	415.7	415.7	415.7
100.0	16500	-51.7	-84.7	1	0.00	290	16	427.6	427.6	427.6
96.0	16764	-50.3	-83.8	1	0.00	315	12	435.2	435.3	435.2
92.7	16994	-49.1	-83.1	1	0.00	310	11	442.0	442.1	442.0
76.0	18288	-49.8	-83.8	1	0.00	280	7	466.3	466.3	466.3
70.0	18830	-50.1	-84.1	1	0.00	240	8	476.8	476.9	476.8

Station information and sounding indices

Station identifier: PASN
 Station number: 70308
 Observation time: 150724/0000
 Station latitude: 57.16
 Station longitude: -170.22
 Station elevation: 6.0
 Showalter index: 13.21
 Lifted index: 17.59
 LIFT computed using virtual temperature: 17.66
 SWEAT index: 99.41
 K index: -9.30
 Cross totals index: 12.50

Vertical totals index: 17.50
Totals totals index: 30.00
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: 278.45
Pres [hPa] of the Lifted Condensation Level: 953.81
Mean mixed layer potential temperature: 282.25
Mean mixed layer mixing ratio: 5.90
1000 hPa to 500 hPa thickness: 5564.00
Precipitable water [mm] for entire sounding: 17.17

Description of the [data columns](#) or [sounding indices](#).

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