

70133 PAOT Kotzebue, Ralph Wien 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
1006.0	5	17.2	12.7	75	9.25	260	11	289.9	316.1	291.5
1000.0	53	16.0	12.1	78	8.94	265	12	289.1	314.5	290.7
999.0	62	16.0	12.2	78	9.01	265	12	289.2	314.8	290.8
993.0	113	15.0	10.2	73	7.92	267	11	288.7	311.2	290.1
984.0	190	18.4	8.4	52	7.07	270	10	292.9	313.5	294.1
970.9	305	18.1	6.9	48	6.47	275	9	293.8	312.7	294.9
963.0	375	18.0	6.0	45	6.12	276	8	294.3	312.3	295.4
945.0	536	17.0	5.0	45	5.82	279	7	294.9	312.1	295.9
938.0	599	16.4	7.4	55	6.93	280	6	294.9	315.2	296.1
936.8	610	16.3	7.2	55	6.86	280	6	294.9	315.1	296.1
925.0	718	15.6	5.6	51	6.20	280	6	295.2	313.6	296.4
903.8	914	14.5	4.5	51	5.86	300	5	296.1	313.5	297.1
888.0	1063	13.6	3.6	51	5.61	315	5	296.6	313.4	297.6
871.6	1219	12.1	2.9	54	5.44	330	4	296.6	312.9	297.6
850.0	1429	10.0	2.0	58	5.23	330	2	296.6	312.3	297.6
809.6	1829	6.6	0.4	65	4.89	0	2	297.2	311.9	298.0
780.1	2134	4.0	-0.8	71	4.64	10	5	297.6	311.6	298.4
771.0	2230	3.2	-1.2	73	4.57	27	4	297.7	311.5	298.5
751.3	2438	1.8	-2.6	73	4.21	65	3	298.3	311.1	299.1
723.4	2743	-0.4	-4.8	72	3.73	100	1	299.2	310.7	299.9
709.0	2904	-1.5	-5.9	72	3.49	91	2	299.7	310.5	300.3
700.0	3006	-2.1	-8.1	63	2.98	85	2	300.1	309.4	300.7
691.0	3109	-2.9	-7.7	69	3.11	65	2	300.4	310.1	300.9
663.0	3436	-4.9	-9.9	68	2.73	3	3	301.7	310.3	302.2
644.5	3658	-6.7	-10.2	76	2.73	320	3	302.0	310.7	302.5
637.0	3750	-7.5	-10.4	80	2.73	298	3	302.2	310.8	302.7
633.0	3799	-7.7	-10.6	80	2.71	285	3	302.5	311.1	303.0
628.0	3861	-7.1	-13.1	62	2.23	270	3	303.9	311.1	304.3
598.0	4241	-10.3	-13.8	75	2.21	176	2	304.4	311.6	304.9
596.0	4267	-10.5	-14.0	75	2.18	170	2	304.6	311.6	304.9
550.4	4877	-14.4	-19.3	66	1.51	160	2	306.9	312.0	307.2
549.0	4896	-14.5	-19.5	66	1.49	160	2	307.0	312.0	307.3
538.0	5049	-15.5	-22.5	55	1.17	156	4	307.6	311.6	307.8
529.0	5177	-16.1	-28.1	35	0.72	154	5	308.3	310.9	308.5
523.0	5262	-16.7	-29.7	32	0.63	152	6	308.6	310.8	308.7
502.0	5570	-17.9	-37.9	16	0.29	146	9	310.8	311.9	310.9
500.0	5600	-18.1	-38.1	16	0.29	145	9	310.9	312.0	311.0
481.0	5888	-19.1	-37.1	19	0.33	142	10	313.1	314.4	313.2
467.6	6096	-20.8	-37.7	20	0.32	140	10	313.6	314.8	313.6
432.0	6677	-25.5	-39.5	26	0.29	140	19	314.8	315.9	314.8
425.0	6795	-26.3	-42.3	21	0.22	140	20	315.2	316.1	315.3
415.0	6966	-27.3	-49.3	10	0.10	140	23	316.1	316.5	316.1
400.0	7230	-28.9	-48.9	13	0.11	140	27	317.4	317.8	317.4
378.6	7620	-31.9	-48.7	17	0.12	140	35	318.4	318.9	318.4
361.0	7956	-34.5	-48.5	23	0.13	139	35	319.3	319.8	319.3
344.0	8292	-37.5	-49.5	27	0.12	138	35	319.6	320.1	319.7
329.0	8598	-40.5	-48.5	42	0.14	137	36	319.6	320.2	319.7
310.0	9000	-43.9	-52.9	36	0.09	135	36	320.4	320.7	320.4
303.4	9144	-45.1	-52.8	42	0.09	135	36	320.7	321.1	320.7
300.0	9220	-45.7	-52.7	45	0.10	140	38	320.8	321.2	320.9
298.0	9264	-46.1	-53.1	45	0.09	140	38	320.9	321.3	320.9

286.0	9534	-48.1	-54.1	50	0.09	143	39	321.8	322.2	321.8
256.0	10249	-53.9	-61.9	37	0.04	149	42	323.6	323.8	323.6
251.5	10363	-54.6	-61.9	40	0.04	150	42	324.1	324.3	324.1
250.0	10400	-54.9	-61.9	42	0.04	150	42	324.3	324.5	324.3
243.0	10582	-55.9	-62.9	41	0.03	150	40	325.5	325.6	325.5
235.0	10797	-55.5	-63.5	36	0.03	148	33	329.2	329.3	329.2
223.0	11135	-52.5	-65.5	19	0.03	146	23	338.8	338.9	338.8
218.2	11278	-52.0	-66.3	16	0.02	145	19	341.8	341.9	341.8
216.0	11343	-51.7	-66.7	15	0.02	139	18	343.1	343.2	343.1
208.3	11582	-49.5	-69.2	8	0.02	115	14	350.1	350.2	350.1
200.0	11850	-47.1	-72.1	4	0.01	115	7	358.0	358.1	358.0
198.0	11917	-46.5	-74.5	3	0.01	121	8	360.0	360.1	360.0
194.0	12052	-47.3	-77.3	2	0.01	133	9	360.8	360.9	360.8
190.0	12190	-46.3	-79.3	1	0.00	145	11	364.6	364.6	364.6
189.9	12192	-46.3	-79.3	1	0.00	145	11	364.6	364.6	364.6
181.4	12497	-46.0	-80.4	1	0.00	175	3	369.9	369.9	369.9
178.0	12624	-45.9	-80.9	1	0.00	185	3	372.1	372.1	372.1
170.0	12929	-46.3	-81.3	1	0.00	207	3	376.4	376.4	376.4
167.0	13048	-45.5	-80.5	1	0.00	216	3	379.6	379.6	379.6
161.0	13291	-46.7	-81.7	1	0.00	235	2	381.6	381.6	381.6
152.0	13672	-47.1	-82.1	1	0.00	263	2	387.2	387.2	387.2
150.0	13760	-47.1	-82.1	1	0.00	270	2	388.7	388.7	388.7
147.0	13894	-46.3	-81.3	1	0.00	278	2	392.3	392.4	392.3
138.0	14312	-46.7	-81.7	1	0.00	302	3	398.8	398.8	398.8
136.0	14409	-45.5	-80.5	1	0.00	307	3	402.6	402.6	402.6
120.0	15240	-46.6	-81.6	1	0.00	355	4	415.3	415.3	415.3
118.0	15352	-46.7	-81.7	1	0.00	358	4	417.0	417.0	417.0
110.0	15817	-46.1	-81.1	1	0.01	9	5	426.6	426.6	426.6
100.0	16450	-46.1	-81.1	1	0.01	25	6	438.4	438.4	438.4
80.2	17918	-45.3	-80.3	1	0.01	25	7	468.5	468.6	468.5
77.2	18171	-46.7	-81.7	1	0.01	25	7	470.8	470.8	470.8
75.8	18288	-46.6	-81.6	1	0.01	25	7	473.3	473.3	473.3
70.0	18820	-46.3	-81.3	1	0.01	0	0	485.0	485.0	485.0
66.1	19202	-46.1	-81.1	1	0.01	0	0	493.5	493.6	493.5
63.5	19467	-45.9	-80.9	1	0.01	8	2	499.5	499.6	499.5
56.2	20276	-47.3	-82.3	1	0.01	32	8	514.1	514.1	514.1
52.5	20726	-46.6	-81.6	1	0.01	45	11	525.8	525.9	525.8
50.1	21031	-46.1	-81.1	1	0.01	50	13	533.9	534.0	533.9
50.0	21050	-46.1	-81.1	1	0.01	65	13	534.4	534.5	534.4
47.9	21336	-45.9	-80.9	1	0.01	90	7	541.5	541.6	541.5
45.8	21641	-45.6	-80.6	1	0.01	75	11	549.3	549.4	549.3
43.7	21946	-45.3	-80.3	1	0.01	75	1	557.2	557.3	557.2
41.9	22227	-45.1	-80.1	1	0.02	77	6	564.5	564.7	564.5
39.9	22555	-45.7	-80.7	1	0.01	80	11	571.0	571.1	571.0
38.0	22878	-46.3	-81.3	1	0.01	84	11	577.5	577.6	577.5
33.8	23659	-43.9	-79.9	1	0.02	92	12	603.4	603.6	603.4
30.3	24384	-43.7	-79.7	1	0.02	100	12	622.8	623.0	622.8
30.0	24460	-43.7	-79.7	1	0.02	85	9	624.9	625.1	624.9
27.7	24994	-43.4	-79.3	1	0.03	90	16	640.1	640.4	640.1
24.2	25908	-42.8	-78.8	1	0.03	70	12	667.1	667.4	667.1
23.1	26213	-42.5	-78.5	1	0.04	95	13	676.3	676.7	676.4
22.1	26518	-42.4	-78.3	1	0.04	65	14	685.7	686.1	685.7
21.1	26822	-42.1	-78.2	1	0.04	100	15	695.2	695.6	695.2
20.2	27127	-42.0	-78.0	1	0.05	115	14	704.8	705.3	704.8
20.0	27200	-41.9	-77.9	1	0.05	110	13	707.1	707.6	707.1
19.3	27432	-41.7	-77.7	1	0.05	90	10	714.6	715.1	714.6
19.2	27477	-41.7	-77.7	1	0.05	90	10	716.0	716.6	716.1
16.2	28651	-38.6	-75.5	1	0.08	90	4	762.2	763.1	762.2
15.9	28765	-38.3	-75.3	1	0.09	91	5	766.8	767.8	766.8
14.4	29447	-38.5	-75.5	1	0.09	99	11	788.1	789.2	788.2
14.2	29566	-38.0	-75.3	1	0.10	100	12	793.7	794.8	793.7

12.5	30428	-34.5	-73.5	1	0.15	62	14	834.6	836.4	834.7
12.4	30480	-34.6	-73.5	1	0.15	60	14	835.9	837.7	836.0
11.5	31009	-36.1	-74.1	1	0.15	95	15	849.0	850.8	849.1
11.4	31090	-35.6	-73.8	1	0.15	100	15	853.7	855.6	853.8
10.8	31448	-33.3	-72.3	1	0.20	97	19	874.6	877.1	874.7
10.4	31699	-32.7	-71.7	1	0.23	95	21	885.6	888.5	885.8
10.0	31990	-32.1	-71.1	1	0.26	110	18	898.5	901.9	898.7
9.6	32309	-30.5	-70.2	1	0.31	115	17	916.2	920.2	916.4
9.4	32429	-29.9	-69.9	1	0.33	127	14	922.9	927.2	923.1
9.2	32614	-29.9	-69.9	1	0.34	145	10	929.9	934.4	930.1
8.8	32918	-29.8	-69.8	1	0.36	120	7	941.6	946.3	941.8
8.4	33223	-29.7	-69.7	1	0.38	120	20	953.4	958.5	953.6
8.2	33402	-29.7	-69.7	1	0.39			960.4	965.7	960.6

Station information and sounding indices

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Station identifier: PAOT
Station number: 70133
Observation time: 150724/0000
Station latitude: 66.86
Station longitude: -162.63
Station elevation: 5.0
Showalter index: 2.86
Lifted index: 2.56
LIFT computed using virtual temperature: 2.38
SWEAT index: 37.00
K index: 24.10
Cross totals index: 20.10
Vertical totals index: 28.10
Totals totals index: 48.20
Convective Available Potential Energy: 0.00
CAPE using virtual temperature: 0.00
Convective Inhibition: 0.00
CINS using virtual temperature: -211.11
Equilibrium Level using virtual temperature: 637.55
LFCT using virtual temperature: 637.30
Bulk Richardson Number: 0.00
Bulk Richardson Number using CAPV: 0.00
Temp [K] of the Lifted Condensation Level: 279.30
Pres [hPa] of the Lifted Condensation Level: 851.88
Mean mixed layer potential temperature: 292.41
Mean mixed layer mixing ratio: 7.08
1000 hPa to 500 hPa thickness: 5547.00
Precipitable water [mm] for entire sounding: 21.33

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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)