

70316 PACD Cold Bay 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
1015.0	31	9.4	8.3	93	6.81	90	6	281.4	300.2	282.5
1012.0	54	9.2	7.1	87	6.29	91	5	281.4	298.9	282.5
1000.0	148	8.8	6.9	88	6.28	95	3	281.9	299.4	283.0
994.0	198	8.6	6.4	86	6.10	152	3	282.2	299.3	283.3
981.1	305	8.0	6.0	87	6.01	275	4	282.7	299.5	283.7
945.5	610	6.2	4.9	91	5.76	250	17	283.9	300.1	284.9
925.0	790	5.2	4.2	93	5.62	255	19	284.6	300.5	285.6
911.1	914	4.5	3.5	93	5.45	255	32	285.2	300.7	286.1
908.0	942	4.4	3.4	93	5.41	255	32	285.3	300.7	286.2
877.6	1219	4.8	3.6	92	5.67	260	32	288.4	304.8	289.4
873.0	1262	4.8	3.6	92	5.71	262	32	288.9	305.4	289.9
850.0	1481	6.0	4.7	91	6.34	270	30	292.4	310.9	293.5
839.0	1588	6.6	5.3	91	6.70	273	32	294.1	313.8	295.3
814.8	1829	6.7	5.4	91	6.93	280	38	296.8	317.2	298.0
804.0	1938	6.8	5.4	91	7.04	282	38	297.9	318.9	299.2
785.0	2134	6.1	4.5	89	6.76	285	38	299.2	319.4	300.5
756.4	2438	5.0	3.0	87	6.33	280	41	301.2	320.4	302.4
731.0	2717	4.0	1.7	85	5.95	285	46	303.1	321.3	304.2
728.7	2743	3.8	1.4	84	5.83	285	46	303.1	321.0	304.2
708.0	2976	1.8	-1.8	77	4.76	281	48	303.5	318.2	304.3
701.7	3048	1.5	-1.7	79	4.83	280	49	303.9	318.8	304.8
700.0	3068	1.4	-1.7	80	4.85	280	49	304.0	319.0	304.9
650.1	3658	-1.8	-4.4	82	4.28	285	47	306.9	320.4	307.7
630.0	3909	-3.1	-5.5	83	4.05	285	48	308.2	321.0	308.9
602.0	4267	-4.9	-7.8	80	3.55	285	49	310.2	321.6	310.8
583.0	4519	-6.1	-9.4	77	3.23	285	47	311.6	322.1	312.2
564.0	4777	-8.1	-12.6	70	2.59	285	46	312.2	320.7	312.7
556.8	4877	-9.5	-17.0	55	1.82	285	45	311.6	317.8	312.0
553.0	4929	-10.3	-19.3	48	1.51	285	46	311.3	316.4	311.6
532.0	5227	-10.9	-20.9	44	1.37	283	50	314.1	318.8	314.3
510.0	5549	-12.9	-24.9	36	1.00	281	54	315.5	319.0	315.6
501.0	5685	-13.3	-29.3	25	0.68	280	56	316.6	319.0	316.7
500.0	5700	-13.3	-29.3	25	0.68	280	56	316.8	319.2	316.9
488.0	5885	-14.5	-31.5	22	0.57	282	55	317.5	319.6	317.6
474.5	6096	-15.9	-29.8	29	0.68	285	54	318.3	320.8	318.4
454.0	6430	-18.1	-27.1	45	0.92	285	55	319.6	322.9	319.8
445.0	6580	-18.3	-35.3	21	0.43	285	56	321.2	322.8	321.3
427.0	6888	-19.9	-34.9	25	0.46	285	57	322.9	324.7	323.1
422.0	6975	-20.3	-31.3	37	0.67	285	57	323.5	326.0	323.7
400.0	7370	-23.7	-32.7	43	0.61	285	59	324.1	326.4	324.2
386.4	7620	-25.8	-34.4	44	0.54	285	61	324.5	326.5	324.6
369.0	7953	-28.7	-36.7	46	0.45	286	62	325.0	326.7	325.1
315.0	9064	-37.3	-44.3	48	0.24	290	68	328.1	329.0	328.1
311.4	9144	-37.7	-44.7	48	0.23	290	68	328.7	329.6	328.7
311.0	9153	-37.7	-44.7	48	0.23	290	68	328.7	329.6	328.8
302.0	9354	-38.5	-53.5	19	0.09	290	73	330.4	330.7	330.4
300.0	9400	-38.9	-54.9	17	0.07	290	74	330.4	330.7	330.4
295.0	9516	-39.7	-55.7	17	0.07	290	75	330.9	331.2	330.9
265.0	10242	-45.7	-51.7	51	0.12	293	81	332.4	332.9	332.4
257.0	10447	-47.1	-54.1	45	0.10	294	82	333.3	333.7	333.3
253.0	10551	-47.7	-58.7	27	0.05	295	83	333.9	334.1	333.9
250.0	10630	-48.1	-60.1	24	0.05	295	84	334.4	334.6	334.4
247.0	10709	-48.5	-62.5	18	0.03	295	84	335.0	335.1	335.0

231.0	11144	-52.3	-60.3	37	0.05	295	85	335.7	335.9	335.7
221.0	11428	-54.1	-64.1	28	0.03	295	86	337.2	337.3	337.2
205.6	11887	-57.2	-67.9	24	0.02	295	87	339.4	339.5	339.4
204.0	11935	-57.5	-68.3	24	0.02	295	87	339.7	339.8	339.7
201.0	12029	-58.1	-69.1	23	0.02	299	84	340.1	340.2	340.1
200.0	12060	-58.1	-69.1	23	0.02	300	83	340.6	340.7	340.6
194.0	12252	-58.5	-68.5	26	0.02	300	75	342.9	343.0	342.9
192.0	12318	-57.3	-68.3	23	0.02	297	70	345.9	346.0	345.9
190.0	12384	-55.3	-68.3	18	0.02	295	66	350.1	350.2	350.1
186.7	12497	-55.6	-71.4	12	0.01	290	58	351.4	351.5	351.4
183.0	12624	-55.9	-74.9	8	0.01	291	56	352.9	353.0	352.9
181.0	12695	-54.5	-75.5	6	0.01	291	56	356.3	356.4	356.3
178.0	12802	-54.1	-77.1	4	0.01	292	54	358.7	358.7	358.7
171.0	13062	-51.5	-77.5	3	0.01	293	51	367.1	367.1	367.1
165.0	13294	-52.9	-77.9	3	0.01	294	48	368.6	368.6	368.6
162.0	13411	-53.0	-78.0	3	0.01	295	47	370.3	370.3	370.3
152.0	13824	-53.3	-78.3	3	0.01	295	44	376.6	376.6	376.6
150.0	13910	-52.5	-77.5	3	0.01	295	43	379.4	379.4	379.4
146.0	14085	-51.1	-75.1	4	0.01	295	41	384.8	384.8	384.8
135.0	14594	-50.5	-75.5	4	0.01	295	36	394.6	394.6	394.6
128.0	14939	-52.1	-76.1	4	0.01	295	32	397.7	397.8	397.7
124.0	15144	-51.7	-75.7	4	0.01	295	30	402.1	402.1	402.1
122.2	15240	-52.4	-76.4	4	0.01	295	29	402.4	402.5	402.4
121.0	15302	-52.9	-76.9	4	0.01	295	29	402.7	402.8	402.7
113.0	15742	-52.9	-75.9	5	0.01	295	26	410.6	410.7	410.6
109.0	15973	-53.9	-76.9	4	0.01	295	24	413.0	413.1	413.0
107.0	16092	-52.5	-75.5	5	0.01	295	23	417.9	417.9	417.9
100.0	16530	-50.9	-72.9	6	0.02	295	20	429.1	429.2	429.1
96.5	16764	-51.1	-73.1	6	0.02	325	21	433.1	433.3	433.1
92.8	17017	-51.3	-73.3	6	0.02	304	19	437.6	437.7	437.6
92.1	17069	-50.7	-73.0	5	0.02	300	19	439.8	439.9	439.8
88.6	17321	-47.7	-71.7	5	0.03	306	14	450.6	450.8	450.6
83.9	17678	-50.2	-72.8	5	0.02	315	6	452.5	452.7	452.5
82.0	17828	-51.3	-73.3	6	0.02	288	9	453.3	453.5	453.3
80.1	17983	-51.2	-73.2	6	0.02	260	12	456.6	456.8	456.6
76.4	18288	-50.9	-72.9	6	0.03	315	11	463.3	463.4	463.3
72.9	18593	-50.7	-72.7	6	0.03	295	12	470.0	470.2	470.0
70.0	18860	-50.5	-72.5	6	0.03	340	14	476.0	476.2	476.0

Station information and sounding indices

Station identifier: PACD
 Station number: 70316
 Observation time: 150724/0000
 Station latitude: 55.20
 Station longitude: -162.71
 Station elevation: 31.0
 Showalter index: 8.51
 Lifted index: 16.05

LIFT computed using virtual temperature: 16.06
 SWEAT index: 172.39
 K index: 20.90
 Cross totals index: 18.00
 Vertical totals index: 19.30
 Totals totals index: 37.30

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: 278.94
Pres [hPa] of the Lifted Condensation Level: 956.68
Mean mixed layer potential temperature: 282.50
Mean mixed layer mixing ratio: 6.08
1000 hPa to 500 hPa thickness: 5552.00
Precipitable water [mm] for entire sounding: 26.96

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)
