

70026 PABR Barrow 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
1012.0	19	4.2	2.1	86	4.42	50	11	276.4	288.6	277.1
1000.0	114	3.2	1.1	86	4.16	60	12	276.4	287.9	277.1
981.0	269	1.6	-0.4	87	3.80	76	13	276.3	286.9	276.9
976.7	305	2.9	1.0	87	4.23	80	13	277.9	289.7	278.6
973.0	336	4.0	2.2	88	4.63	78	13	279.3	292.3	280.1
946.0	564	2.2	1.3	94	4.46	67	12	279.8	292.3	280.5
940.7	610	3.6	-0.5	75	3.95	65	12	281.6	292.8	282.3
939.0	624	4.0	-1.0	70	3.80	64	12	282.2	293.1	282.8
925.0	747	5.0	-2.0	61	3.59	60	13	284.4	294.8	285.0
906.3	914	5.0	-2.9	56	3.41	80	10	286.1	296.1	286.7
905.0	925	5.0	-3.0	56	3.40	80	10	286.2	296.1	286.8
898.0	989	5.0	1.8	80	4.88	79	9	286.8	300.9	287.7
890.0	1062	5.4	0.4	70	4.45	78	8	288.0	300.9	288.8
886.0	1099	5.2	-0.8	65	4.09	77	8	288.1	300.1	288.9
881.0	1145	4.8	2.1	83	5.08	76	7	288.2	302.9	289.1
876.0	1191	5.0	0.0	70	4.39	75	6	288.9	301.7	289.6
873.0	1219	4.9	-0.3	69	4.29	75	6	289.1	301.6	289.8
864.0	1304	4.6	-1.4	65	4.01	77	7	289.6	301.4	290.3
860.0	1342	4.6	-1.4	65	4.03	78	7	290.0	301.9	290.7
853.0	1408	4.8	0.6	74	4.71	79	8	290.9	304.7	291.7
850.0	1437	5.2	-5.8	45	2.93	80	8	291.6	300.4	292.1
848.0	1456	5.4	-11.6	28	1.86	79	8	292.0	297.8	292.3
842.0	1514	5.6	-21.4	12	0.83	75	8	292.8	295.5	292.9
837.0	1563	5.4	-14.6	22	1.48	72	8	293.1	297.8	293.3
819.0	1740	5.2	-14.8	22	1.49	61	9	294.7	299.4	295.0
813.0	1800	5.2	-18.8	16	1.07	57	9	295.3	298.8	295.5
810.1	1829	5.1	-17.6	18	1.19	55	9	295.5	299.4	295.8
804.0	1891	5.0	-15.0	22	1.49	52	8	296.0	300.8	296.3
789.0	2044	4.2	-12.8	28	1.82	44	6	296.8	302.6	297.1
780.3	2134	4.1	-18.1	18	1.18	40	5	297.6	301.5	297.8
774.0	2200	4.0	-22.0	13	0.85	43	5	298.2	301.1	298.4
751.6	2438	3.2	-17.1	21	1.33	55	6	299.9	304.3	300.1
750.0	2455	3.2	-16.8	21	1.38	55	6	300.0	304.5	300.3
732.0	2652	2.4	-23.6	13	0.78	59	5	301.2	303.9	301.4
723.7	2743	1.9	-24.6	12	0.72	60	5	301.7	304.1	301.8
700.0	3011	0.4	-27.6	10	0.57	30	7	302.9	304.9	303.0
683.0	3208	-0.9	-28.9	10	0.52	41	6	303.6	305.4	303.7
679.0	3255	-1.3	-23.3	17	0.87	43	5	303.6	306.6	303.8
645.3	3658	-3.6	-30.5	10	0.47	65	3	305.5	307.2	305.6
638.0	3749	-4.1	-32.1	9	0.41	53	2	305.9	307.4	306.0
620.9	3962	-5.3	-29.0	14	0.56	25	1	306.9	308.9	307.0
618.0	3999	-5.5	-28.5	14	0.59	12	2	307.1	309.2	307.2
611.0	4089	-5.9	-34.9	8	0.32	341	3	307.6	308.8	307.7
597.2	4267	-6.9	-27.8	17	0.66	280	6	308.5	310.8	308.6
594.0	4309	-7.1	-26.1	20	0.77	281	6	308.7	311.4	308.9
588.0	4389	-7.7	-21.7	32	1.15	282	6	308.9	312.9	309.2
578.0	4522	-8.7	-26.7	22	0.75	284	7	309.3	311.9	309.4
565.0	4698	-10.1	-21.1	40	1.26	287	7	309.7	314.0	309.9
552.0	4877	-11.3	-23.2	37	1.08	290	8	310.3	314.0	310.5
524.0	5275	-13.9	-27.9	30	0.74	293	9	311.8	314.4	312.0
521.0	5319	-14.1	-32.1	20	0.50	293	9	312.1	313.9	312.2
518.0	5363	-14.5	-29.5	27	0.64	293	9	312.1	314.4	312.2
515.0	5407	-14.7	-33.7	18	0.43	294	9	312.4	314.0	312.5

508.0	5510	-15.5	-30.5	26	0.60	294	9	312.7	314.8	312.8
500.0	5630	-16.3	-33.3	22	0.46	295	9	313.1	314.8	313.2
477.0	5981	-18.9	-34.9	23	0.42	303	9	314.1	315.7	314.2
472.0	6059	-19.3	-41.3	12	0.22	304	9	314.6	315.4	314.6
469.6	6096	-19.6	-42.1	12	0.20	305	9	314.7	315.5	314.8
463.0	6201	-20.3	-44.3	10	0.16	306	9	315.1	315.7	315.1
451.0	6394	-22.1	-41.1	16	0.23	308	9	315.2	316.1	315.2
432.0	6708	-24.7	-44.7	14	0.17	310	9	315.8	316.4	315.8
416.0	6980	-26.9	-37.9	35	0.35	313	9	316.4	317.7	316.4
400.0	7260	-29.5	-39.5	37	0.31	315	9	316.6	317.7	316.6
396.0	7332	-30.1	-41.1	33	0.27	315	10	316.7	317.7	316.8
392.0	7404	-30.7	-38.7	45	0.34	315	10	316.8	318.1	316.9
384.0	7551	-31.7	-42.7	33	0.23	315	11	317.4	318.3	317.4
380.2	7620	-32.3	-42.7	35	0.23	315	12	317.5	318.4	317.6
365.0	7908	-34.7	-42.7	44	0.24	306	14	318.0	319.0	318.1
354.0	8122	-36.3	-41.3	60	0.29	299	16	318.7	319.8	318.7
348.5	8230	-37.1	-42.1	60	0.27	295	17	318.9	320.0	319.0
340.0	8401	-38.5	-43.4	60	0.24	296	18	319.4	320.3	319.4
337.0	8462	-39.1	-45.1	53	0.20	296	19	319.4	320.1	319.4
313.0	8965	-43.3	-48.0	60	0.16	299	22	320.3	320.9	320.3
305.0	9139	-44.7	-50.7	51	0.12	300	23	320.7	321.2	320.8
304.8	9144	-44.7	-50.7	51	0.12	300	23	320.7	321.2	320.8
300.0	9250	-45.7	-50.7	57	0.12	295	23	320.8	321.3	320.9
297.0	9317	-46.1	-51.1	57	0.12	295	23	321.2	321.7	321.2
284.0	9613	-48.3	-56.3	39	0.07	297	24	322.2	322.4	322.2
266.0	10041	-51.9	-56.4	58	0.07	299	24	323.0	323.3	323.0
253.0	10363	-54.6	-59.1	58	0.05	300	25	323.6	323.8	323.6
250.0	10440	-55.3	-59.7	58	0.05	300	24	323.7	323.9	323.7
243.0	10620	-56.7	-60.7	60	0.04	300	23	324.3	324.4	324.3
240.0	10698	-56.7	-60.7	60	0.04	299	22	325.4	325.6	325.4
235.0	10831	-56.5	-63.5	41	0.03	298	21	327.7	327.8	327.7
225.0	11106	-56.9	-65.9	31	0.02	296	19	331.2	331.3	331.2
218.9	11278	-55.9	-69.4	17	0.02	295	18	335.4	335.4	335.4
217.0	11335	-55.5	-70.5	14	0.01	299	17	336.8	336.8	336.8
208.0	11606	-51.9	-76.9	3	0.01	321	13	346.5	346.5	346.5
206.0	11668	-50.5	-77.5	3	0.00	325	12	349.7	349.7	349.7
203.0	11763	-50.9	-78.9	2	0.00	333	10	350.5	350.5	350.5
200.0	11860	-49.9	-79.9	2	0.00	340	9	353.6	353.6	353.6
199.2	11887	-49.7	-80.2	2	0.00	325	8	354.3	354.3	354.3
191.0	12163	-47.7	-82.7	1	0.00	329	8	361.8	361.8	361.8
186.0	12338	-48.1	-82.1	1	0.00	332	8	363.9	363.9	363.9
180.0	12556	-46.9	-81.9	1	0.00	336	8	369.3	369.3	369.3
157.0	13466	-45.7	-80.7	1	0.00	350	8	386.0	386.1	386.0
150.0	13770	-45.7	-80.7	1	0.00	355	8	391.1	391.1	391.1
120.3	15240	-45.1	-80.1	1	0.01	20	5	417.6	417.6	417.6
110.0	15834	-44.9	-79.9	1	0.01	35	7	428.8	428.9	428.8
100.0	16470	-44.7	-79.7	1	0.01	50	9	441.1	441.1	441.1
76.2	18288	-45.2	-80.2	1	0.01	40	5	475.6	475.7	475.6
71.6	18709	-45.3	-80.3	1	0.01	40	6	484.0	484.0	484.0
70.0	18860	-44.7	-79.7	1	0.01	40	6	488.4	488.5	488.4
60.6	19824	-43.5	-79.5	1	0.01	64	6	511.6	511.7	511.6
50.0	21110	-44.7	-79.7	1	0.01	95	7	537.7	537.8	537.7
48.3	21336	-44.7	-79.7	1	0.01	355	5	542.9	543.0	542.9
38.5	22860	-44.7	-79.7	1	0.02	55	2	579.4	579.6	579.4
36.7	23178	-44.7	-79.7	1	0.02	47	7	587.3	587.5	587.3
35.1	23470	-44.4	-79.6	1	0.02	40	11	595.5	595.7	595.5
32.1	24079	-43.8	-79.4	1	0.02	85	14	612.8	613.0	612.8
30.7	24384	-43.5	-79.3	1	0.02	60	12	621.7	621.9	621.7
30.0	24530	-43.3	-79.3	1	0.02	75	15	626.0	626.2	626.0
29.6	24620	-43.7	-79.7	1	0.02	75	15	627.3	627.5	627.3
29.3	24689	-43.5	-79.6	1	0.02	75	15	629.6	629.8	629.6

25.4	25656	-41.1	-78.1	1	0.04	59	12	662.7	663.1	662.8
23.4	26213	-42.1	-78.3	1	0.04	50	11	675.4	675.8	675.4
23.1	26300	-42.3	-78.3	1	0.04	63	13	677.4	677.8	677.5
22.4	26518	-41.9	-78.1	1	0.04	95	17	684.8	685.2	684.9
20.5	27127	-40.8	-77.6	1	0.05	85	12	706.0	706.5	706.0
20.0	27280	-40.5	-77.5	1	0.05	105	16	711.4	711.9	711.4
19.6	27432	-40.3	-77.3	1	0.05	130	12	716.6	717.2	716.6
18.7	27737	-39.9	-76.8	1	0.06	105	13	727.2	727.8	727.2
17.9	28042	-39.4	-76.4	1	0.07	135	18	737.9	738.6	737.9
16.4	28651	-38.5	-75.5	1	0.08	265	2	759.7	760.6	759.7
16.3	28679	-38.5	-75.5	1	0.08	268	2	760.7	761.6	760.8
14.6	29433	-39.9	-76.9	1	0.07	340	9	780.4	781.2	780.4
12.8	30341	-35.3	-73.3	1	0.15	67	17	826.2	828.0	826.3
12.6	30480	-35.4	-73.4	1	0.15	80	18	830.6	832.4	830.7
12.0	30785	-35.6	-73.6	1	0.15	110	23	840.3	842.1	840.4
11.8	30907	-35.7	-73.7	1	0.15			844.2	846.1	844.3

Station information and sounding indices

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Station identifier: PABR
Station number: 70026
Observation time: 150724/0000
Station latitude: 71.28
Station longitude: -156.79
Station elevation: 19.0
Showalter index: 12.38
Lifted index: 20.27
LIFT computed using virtual temperature: 20.29
SWEAT index: 25.00
K index: -12.30
Cross totals index: 10.50
Vertical totals index: 21.50
Totals totals index: 32.00
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: 273.96
Pres [hPa] of the Lifted Condensation Level: 954.36
Mean mixed layer potential temperature: 277.66
Mean mixed layer mixing ratio: 4.28
1000 hPa to 500 hPa thickness: 5516.00
Precipitable water [mm] for entire sounding: 10.71

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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)
