

72659 ABR Aberdeen Observations at 00Z 30 Jan 2019

PRES	HGHT	TEMP	DWPT	RELH	MIXR	DRCT	SKNT	THTA	THTE	THTV
hPa	m	C	C	%	g/kg	deg	knot	K	K	K
1000.0	241									
979.0	396	-26.7	-31.0	67	0.30	340	14	247.9	248.8	248.0
976.0	418	-27.1	-33.1	57	0.24	340	15	247.8	248.5	247.8
955.0	574	-28.9	-34.9	56	0.21	340	26	247.5	248.1	247.5
950.2	610	-29.2	-35.0	58	0.21	340	28	247.5	248.1	247.5
925.0	802	-31.1	-35.4	66	0.20	335	27	247.5	248.1	247.5
924.0	810	-31.1	-35.4	66	0.20	335	27	247.6	248.2	247.6
910.4	914	-32.0	-36.4	65	0.19	330	27	247.7	248.2	247.7
871.7	1219	-34.6	-39.3	62	0.15	335	35	248.1	248.5	248.1
868.0	1249	-34.9	-39.6	62	0.14	336	36	248.1	248.5	248.1
850.0	1395	-34.1	-40.1	55	0.14	340	39	250.4	250.8	250.4
849.0	1403	-34.1	-40.1	55	0.14	340	39	250.5	250.9	250.5
823.0	1621	-34.7	-40.7	54	0.13	343	41	252.1	252.5	252.1
798.8	1829	-34.7	-39.7	60	0.15	345	43	254.3	254.7	254.3
798.0	1836	-34.7	-39.7	60	0.15	345	43	254.3	254.8	254.3
784.0	1960	-33.7	-39.7	55	0.16	343	46	256.7	257.2	256.7
764.7	2134	-34.1	-41.0	50	0.14	340	49	258.1	258.5	258.1
732.1	2438	-34.9	-43.2	43	0.12	335	52	260.4	260.8	260.5
716.0	2594	-35.3	-44.3	39	0.10	335	55	261.7	262.0	261.7
700.8	2743	-35.5	-43.5	43	0.12	335	57	263.1	263.4	263.1
700.0	2751	-35.5	-43.5	44	0.12	335	57	263.1	263.5	263.2
645.0	3319	-36.9	-46.9	35	0.09	335	67	267.8	268.1	267.8
614.2	3658	-36.8	-51.1	21	0.06	335	73	271.7	271.9	271.7
596.0	3866	-36.7	-53.7	16	0.04	333	74	274.1	274.3	274.1
562.1	4267	-38.4	-55.7	14	0.04	330	77	276.8	276.9	276.8
514.3	4877	-40.9	-58.7	13	0.03	330	82	280.9	280.9	280.9
500.0	5070	-41.7	-59.7	12	0.02	330	85	282.1	282.2	282.1
481.0	5332	-42.9	-61.9	11	0.02	330	86	283.8	283.9	283.8
467.0	5531	-42.5	-63.5	8	0.02	331	88	286.7	286.8	286.7
429.3	6096	-43.9	-66.5	6	0.01	335	93	291.9	291.9	291.9
400.0	6570	-45.1	-69.1	5	0.01	335	94	296.3	296.3	296.3
393.0	6688	-44.9	-69.9	4	0.01	335	94	298.1	298.1	298.1
380.0	6912	-45.9	-69.2	5	0.01	335	95	299.6	299.7	299.7
377.0	6965	-46.1	-69.1	6	0.01	335	95	300.0	300.1	300.0
374.4	7010	-46.0	-69.4	5	0.01	335	95	300.7	300.7	300.7
357.0	7328	-45.7	-71.7	4	0.01	335	91	305.3	305.3	305.3
341.6	7620	-46.3	-74.3	3	0.00	335	88	308.3	308.3	308.3
311.0	8242	-47.7	-79.7	1	0.00	331	84	314.8	314.8	314.8
300.0	8480	-46.9	-81.9	1	0.00	330	82	319.1	319.1	319.1
288.0	8751	-47.7	-82.7	1	0.00	328	82	321.7	321.8	321.7
271.4	9144	-46.8	-81.8	1	0.00	325	83	328.5	328.5	328.5
266.0	9278	-46.5	-81.5	1	0.00	325	82	330.9	330.9	330.9
250.0	9690	-47.9	-82.9	1	0.00	325	79	334.7	334.7	334.7
230.0	10239	-48.9	-82.9	1	0.00	323	75	341.3	341.3	341.3
226.0	10354	-47.9	-81.9	1	0.00	323	74	344.5	344.5	344.5
212.0	10776	-48.7	-82.7	1	0.00	321	71	349.6	349.6	349.6
207.0	10933	-47.7	-82.7	1	0.00	321	70	353.6	353.6	353.6
200.0	11160	-47.9	-82.9	1	0.00	320	68	356.8	356.8	356.8
195.0	11326	-47.9	-82.9	1	0.00	319	68	359.4	359.4	359.4
165.0	12420	-48.9	-82.9	1	0.00	313	66	375.2	375.2	375.2
158.0	12702	-50.1	-84.1	1	0.00	312	66	377.9	377.9	377.9
154.0	12869	-49.3	-83.3	1	0.00	311	65	382.0	382.0	382.0
151.0	12997	-50.1	-84.1	1	0.00	310	65	382.8	382.8	382.8
150.0	13040	-49.9	-83.9	1	0.00	310	65	383.9	383.9	383.9
147.0	13172	-49.5	-83.5	1	0.00	311	64	386.8	386.8	386.8
136.0	13682	-50.1	-84.1	1	0.00	312	61	394.4	394.4	394.4
123.2	14326	-51.6	-85.0	1	0.00	315	57	403.1	403.1	403.1

114.0	14830	-52.7	-85.7	1	0.00	307	57	410.0	410.0	410.0
112.2	14935	-52.4	-85.4	1	0.00	305	57	412.4	412.5	412.4
108.0	15180	-51.7	-84.7	1	0.00	317	53	418.2	418.3	418.2
107.0	15240	-51.7	-84.7	1	0.00	320	52	419.4	419.4	419.4
100.0	15680	-51.7	-84.7	1	0.00	300	50	427.6	427.6	427.6
96.0	15943	-53.1	-86.1	1	0.00	303	47	429.8	429.9	429.8
88.6	16459	-52.5	-85.5	1	0.00	310	41	440.9	440.9	440.9
85.5	16690	-52.3	-85.3	1	0.00	308	45	445.9	445.9	445.9
80.6	17069	-53.6	-86.2	1	0.00	305	51	450.8	450.8	450.8
73.5	17659	-55.7	-87.7	1	0.00	305	36	458.4	458.4	458.4
73.3	17678	-55.6	-87.6	1	0.00	305	36	458.9	459.0	458.9
70.0	17970	-54.7	-86.7	1	0.00	315	42	467.0	467.0	467.0
66.9	18260	-55.1	-87.1	1	0.00	315	47	472.2	472.2	472.2
66.6	18288	-55.3	-87.2	1	0.00	315	48	472.5	472.5	472.5
61.3	18814	-58.3	-89.3	1	0.00	309	41	477.1	477.1	477.1
57.6	19202	-58.1	-89.6	1	0.00	305	35	486.0	486.0	486.0
54.5	19555	-57.9	-89.9	1	0.00	303	37	494.3	494.3	494.3
53.5	19672	-56.7	-88.7	1	0.00	302	38	499.7	499.7	499.7
51.8	19877	-57.9	-89.9	1	0.00	301	40	501.5	501.5	501.5
50.0	20100	-57.1	-89.1	1	0.00	300	41	508.5	508.5	508.5
49.9	20117	-57.0	-89.0	1	0.00	300	41	509.2	509.2	509.2
47.9	20373	-55.1	-87.1	1	0.00	313	41	519.5	519.6	519.5
45.3	20726	-57.2	-89.2	1	0.00	330	41	522.9	522.9	522.9
44.9	20783	-57.5	-89.5	1	0.00	330	40	523.4	523.4	523.4
44.1	20897	-55.7	-87.7	1	0.00	330	37	530.5	530.5	530.5
41.7	21252	-57.3	-89.3	1	0.00	330	30	535.1	535.1	535.1
41.1	21336	-56.8	-88.8	1	0.00	330	28	538.3	538.3	538.3
39.9	21532	-55.7	-87.7	1	0.00	311	21	545.9	545.9	545.9
39.2	21641	-56.6	-88.3	1	0.00	300	17	546.4	546.5	546.4
33.9	22555	-63.8	-93.3	1	0.00	280	32	550.8	550.8	550.8
32.7	22770	-65.5	-94.5	1	0.00	290	40	551.8	551.8	551.8
31.4	23018	-62.3	-92.3	1	0.00	303	49	566.8	566.8	566.8
30.7	23165	-62.5	-92.5	1	0.00	310	54	570.2	570.2	570.2
30.6	23177	-62.5	-92.5	1	0.00	310	54	570.4	570.5	570.4
30.0	23300	-60.5	-91.5	1	0.00	310	54	579.1	579.2	579.1
29.9	23321	-60.3	-91.3	1	0.00	311	53	580.2	580.2	580.2
28.2	23687	-60.1	-91.1	1	0.00	322	38	590.6	590.6	590.6
27.8	23774	-59.2	-90.2	1	0.00	325	34	595.4	595.4	595.4
27.5	23844	-58.5	-89.5	1	0.00	318	29	599.3	599.3	599.3
26.5	24079	-59.9	-90.6	1	0.00	295	14	601.9	602.0	601.9
25.2	24384	-61.6	-92.1	1	0.00	270	17	605.3	605.4	605.3
24.0	24689	-63.4	-93.5	1	0.00	260	23	608.7	608.7	608.7
23.7	24769	-63.9	-93.9	1	0.00	263	24	609.6	609.6	609.6
20.0	25800	-68.5	-97.5	1	0.00	305	39	625.8	625.8	625.8
19.5	25952	-68.7	-96.7	1	0.00	309	42	629.7	629.7	629.7
18.8	26173	-62.9	-92.9	1	0.00	314	47	654.4	654.4	654.4
18.7	26213	-60.3	-90.9	1	0.01	315	48	663.7	663.8	663.7
18.6	26240	-58.5	-89.5	1	0.01	314	45	670.1	670.2	670.1
18.4	26308	-57.9	-89.9	1	0.01	310	38	674.1	674.1	674.1
17.8	26518	-58.2	-90.1	1	0.01	300	16	679.4	679.5	679.5
15.5	27384	-59.7	-90.7	1	0.01	267	34	702.0	702.1	702.0
15.4	27432	-60.1	-90.9	1	0.01	265	35	702.3	702.4	702.3
14.7	27713	-62.3	-92.3	1	0.01	256	40	704.0	704.1	704.0
14.6	27737	-62.0	-92.1	1	0.01	255	40	706.0	706.0	706.0
14.0	28017	-57.9	-89.9	1	0.01	269	51	728.8	728.9	728.8
13.9	28042	-57.9	-89.9	1	0.01	270	52	729.6	729.7	729.6
12.2	28884	-58.3	-89.3	1	0.01	268	48	756.6	756.8	756.6
11.7	29149	-55.3	-87.3	1	0.02	267	47	776.4	776.6	776.4
10.8	29658	-56.5	-88.5	1	0.01	266	44	790.0	790.2	790.0
10.4	29870	-55.5	-88.0	1	0.02	265	43	801.2	801.4	801.2
10.1	30085	-54.5	-87.5	1	0.02			812.7	813.0	812.7

Station information and sounding indices

Station identifier: ABR
Station number: 72659
Observation time: 190130/0000
Station latitude: 45.45
Station longitude: -98.43
Station elevation: 396.0
Showalter index: 25.71
Lifted index: 27.88
LIFT computed using virtual temperature: 27.88
SWEAT index: 163.01
K index: -40.50
Cross totals index: 1.60
Vertical totals index: 7.60
Totals totals index: 9.20
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: 237.48
Pres [hPa] of the Lifted Condensation Level: 864.60
Mean mixed layer potential temperature: 247.58
Mean mixed layer mixing ratio: 0.21
1000 hPa to 500 hPa thickness: 4829.00
Precipitable water [mm] for entire sounding: 0.60

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:ldoolman@uwyo.edu)
