

71924 YRB Resolute Observations at 12Z 20 Jan 2015

PRES hPa	HGHT m	TEMP C	DWPT C	RELH %	MIXR g/kg	DRCT deg	SKNT knot	THTA K	THTE K	THTV K
1008.0	46	-32.9	-35.9	74	0.18	330	8	239.7	240.2	239.7
1004.0	72	-32.9	-37.4	64	0.15	335	10	240.0	240.4	240.0
1000.0	99	-32.7	-36.6	68	0.17	340	13	240.4	240.9	240.5
998.0	113	-32.3	-36.1	69	0.18	341	13	241.0	241.5	241.0
994.0	142	-29.7	-33.5	69	0.23	344	13	243.9	244.5	243.9
971.6	305	-27.4	-30.8	73	0.31	0	13	247.7	248.6	247.8
949.0	474	-25.1	-27.9	77	0.41	20	13	251.8	252.9	251.8
931.4	610	-25.5	-27.9	80	0.42	35	13	252.8	253.9	252.8
930.0	621	-25.5	-27.9	80	0.42	34	14	252.8	254.0	252.9
925.0	660	-25.5	-28.2	78	0.41	30	16	253.2	254.4	253.3
910.0	779	-25.9	-28.5	79	0.40	25	16	254.0	255.2	254.1
898.0	875	-23.9	-26.7	78	0.48	22	17	257.0	258.4	257.1
893.2	914	-23.8	-27.0	75	0.47	20	17	257.5	258.9	257.6
874.0	1073	-23.3	-28.3	64	0.43	33	18	259.6	260.9	259.7
856.8	1219	-24.0	-27.8	71	0.46	45	19	260.4	261.7	260.5
850.0	1277	-24.3	-27.6	74	0.47	35	15	260.7	262.1	260.8
821.0	1530	-25.3	-27.9	79	0.47	17	19	262.2	263.6	262.3
795.0	1764	-24.1	-26.9	78	0.54	360	23	265.9	267.5	266.0
787.9	1829	-24.3	-27.0	78	0.54	355	24	266.4	268.0	266.5
755.5	2134	-25.2	-27.4	81	0.54	10	24	268.6	270.3	268.7
744.0	2246	-25.5	-27.6	83	0.54	6	26	269.5	271.1	269.6
724.6	2438	-24.9	-27.8	77	0.54	0	29	272.2	273.8	272.3
718.0	2505	-24.7	-27.8	75	0.55	359	30	273.1	274.8	273.2
700.0	2689	-25.5	-28.2	78	0.54	355	31	274.2	275.9	274.3
694.8	2743	-25.8	-28.8	76	0.52	350	28	274.5	276.1	274.5
658.0	3135	-28.1	-32.8	64	0.37	352	29	276.2	277.4	276.2
611.4	3658	-30.8	-34.7	69	0.33	355	31	279.0	280.0	279.0
606.0	3721	-31.1	-34.9	69	0.33	354	31	279.3	280.4	279.4
585.3	3962	-33.1	-36.4	72	0.29	350	32	279.8	280.7	279.8
560.2	4267	-35.6	-38.3	76	0.25	0	31	280.3	281.1	280.4
536.2	4572	-38.1	-40.2	80	0.22	355	32	280.9	281.6	280.9
527.0	4693	-39.1	-41.0	82	0.20	355	31	281.1	281.7	281.1
512.9	4877	-40.6	-43.1	77	0.17	355	29	281.4	281.9	281.4
500.0	5050	-42.1	-45.0	73	0.14	355	30	281.6	282.1	281.7
493.0	5145	-42.7	-46.1	69	0.12	354	30	282.1	282.5	282.1
427.1	6096	-51.2	-53.0	81	0.07	345	31	283.0	283.3	283.1
422.0	6175	-51.9	-53.6	82	0.06	348	31	283.1	283.3	283.1
418.0	6236	-52.5	-54.6	78	0.06	350	31	283.1	283.3	283.1

404.0	6456	-53.7	-58.7	54	0.03	358	31	284.3	284.4	284.3
400.0	6520	-54.1	-59.1	54	0.03	0	31	284.6	284.7	284.6
388.4	6706	-55.4	-60.6	52	0.03	5	29	285.3	285.4	285.3
358.0	7222	-58.9	-64.9	46	0.02	348	26	287.3	287.4	287.3
352.7	7315	-59.6	-65.5	46	0.02	345	26	287.7	287.7	287.7
335.6	7620	-61.7	-67.3	48	0.01	350	30	288.8	288.9	288.8
319.4	7925	-63.9	-69.1	49	0.01	355	28	289.9	289.9	289.9
311.0	8090	-65.1	-70.1	50	0.01	340	30	290.5	290.5	290.5
304.0	8230	-64.3	-70.0	46	0.01	335	31	293.4	293.5	293.4
300.0	8310	-63.9	-69.9	44	0.01	335	31	295.2	295.2	295.2
294.0	8434	-63.9	-68.8	51	0.01	343	34	296.9	296.9	296.9
289.3	8534	-63.5	-69.1	46	0.01	350	37	298.8	298.9	298.8
287.0	8583	-63.3	-69.3	44	0.01	351	36	299.8	299.8	299.8
278.0	8780	-63.5	-72.5	28	0.01	354	33	302.2	302.3	302.2
271.0	8938	-61.9	-73.9	19	0.01	357	31	306.8	306.8	306.8
264.0	9100	-62.3	-75.3	16	0.01	359	29	308.5	308.5	308.5
262.1	9144	-62.0	-75.6	15	0.01	0	28	309.5	309.5	309.5
250.0	9440	-60.3	-77.3	9	0.00	350	28	316.3	316.3	316.3
248.0	9490	-59.9	-77.9	8	0.00	348	27	317.6	317.6	317.6
238.0	9746	-60.9	-79.9	6	0.00	340	24	319.9	319.9	319.9
237.7	9754	-60.9	-79.9	6	0.00	340	24	320.1	320.1	320.1
231.0	9932	-59.7	-79.7	6	0.00	343	23	324.4	324.4	324.4
215.6	10363	-60.1	-81.0	5	0.00	350	22	330.3	330.3	330.3
205.3	10668	-60.4	-82.0	4	0.00	350	27	334.5	334.6	334.5
200.0	10830	-60.5	-82.5	4	0.00	340	26	336.8	336.8	336.8
193.0	11052	-60.1	-83.1	3	0.00	335	26	340.9	340.9	340.9
186.1	11278	-60.6	-83.4	4	0.00	330	26	343.6	343.6	343.6
158.0	12290	-62.9	-84.9	4	0.00	334	31	356.2	356.2	356.2
150.0	12610	-62.7	-85.7	3	0.00	335	33	361.9	361.9	361.9
147.0	12735	-62.5	-85.5	3	0.00	334	33	364.3	364.3	364.3
138.4	13106	-63.0	-86.0	3	0.00	330	33	369.8	369.8	369.8
131.7	13411	-63.4	-86.4	3	0.00	345	32	374.3	374.3	374.3
130.0	13492	-63.5	-86.5	3	0.00	341	32	375.5	375.6	375.5
125.3	13716	-63.1	-86.5	3	0.00	330	32	380.1	380.1	380.1
118.0	14088	-62.5	-86.5	3	0.00	330	33	387.9	387.9	387.9
107.0	14688	-65.5	-87.5	3	0.00	330	34	393.2	393.2	393.2
102.8	14935	-65.6	-87.6	3	0.00	330	34	397.6	397.6	397.6
100.0	15100	-65.7	-87.7	3	0.00	330	34	400.5	400.5	400.5
97.7	15240	-65.9	-87.8	3	0.00	330	34	402.9	402.9	402.9
79.9	16459	-67.2	-88.6	3	0.00	315	41	423.9	423.9	423.9
76.0	16764	-67.5	-88.8	3	0.00	335	44	429.4	429.4	429.4
70.0	17260	-68.1	-89.1	4	0.00	330	44	438.4	438.4	438.4
62.0	17983	-69.1	-89.8	4	0.00	325	48	451.6	451.6	451.6
50.0	19270	-70.9	-90.9	4	0.00	325	49	476.0	476.0	476.0
45.6	19812	-71.1	-91.1	4	0.00	330	47	488.1	488.1	488.1
45.5	19830	-71.1	-91.1	4	0.00	330	48	488.5	488.5	488.5

41.2	20422	-71.1	-91.3	4	0.00	325	65	502.7	502.7	502.7
35.3	21336	-71.1	-91.7	3	0.00	330	59	525.3	525.3	525.3
31.9	21946	-71.1	-92.0	3	0.00	340	58	541.0	541.0	541.0
30.2	22250	-71.1	-92.1	3	0.00	330	53	548.9	549.0	548.9
30.0	22300	-71.1	-92.1	3	0.00	330	54	550.3	550.3	550.3
27.4	22838	-68.9	-90.9	3	0.00	320	63	570.9	570.9	570.9
27.3	22860	-69.0	-91.0	3	0.00	320	63	571.2	571.2	571.2
24.5	23502	-71.5	-93.5	3	0.00	327	62	581.9	581.9	581.9
23.4	23774	-70.6	-93.3	2	0.00	330	62	592.0	592.0	592.0
22.2	24079	-69.7	-93.1	2	0.00	330	48	603.6	603.6	603.6
21.1	24384	-68.7	-92.9	2	0.00	315	51	615.4	615.4	615.4
20.1	24689	-67.8	-92.7	2	0.00	330	66	627.4	627.4	627.4
20.0	24710	-67.7	-92.7	2	0.00	325	64	628.2	628.3	628.2
16.8	25763	-66.1	-92.1	2	0.00			665.5	665.5	665.5

Station information and sounding indices

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Station identifier: YRB
Station number: 71924
Observation time: 150120/1200
Station latitude: 74.70
Station longitude: -94.96
Station elevation: 46.0
Showalter index: 16.16
Lifted index: 27.86
LIFT computed using virtual temperature: 27.88
SWEAT index: 59.98
K index: -12.50
Cross totals index: 14.50
Vertical totals index: 17.80
Totals totals index: 32.30
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: 241.11
Pres [hPa] of the Lifted Condensation Level: 920.19
Mean mixed layer potential temperature: 246.94
Mean mixed layer mixing ratio: 0.30
1000 hPa to 500 hPa thickness: 4951.00
Precipitable water [mm] for entire sounding: 2.15

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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)
