

70261 PAFA Fairbanks 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
1000.0	14									
986.0	134	21.0	12.0	56	9.01	240	4	295.3	321.6	296.9
983.0	160	20.2	9.2	49	7.48	241	5	294.8	316.7	296.1
977.0	213	19.4	9.4	52	7.63	242	8	294.5	316.8	295.9
966.7	305	19.6	6.6	43	6.37	245	13	295.6	314.5	296.8
960.0	365	19.8	4.8	37	5.65	239	12	296.4	313.2	297.4
933.0	610	17.9	4.5	41	5.68	215	6	296.9	313.9	297.9
926.0	675	17.4	4.4	42	5.69	224	6	297.0	314.0	298.0
925.0	684	17.2	4.2	42	5.62	225	6	296.9	313.7	297.9
900.1	914	15.2	3.5	45	5.49	245	6	297.1	313.6	298.1
868.1	1219	12.6	2.5	51	5.32	325	6	297.5	313.5	298.4
850.0	1397	11.0	2.0	54	5.23	325	8	297.7	313.4	298.6
806.3	1829	7.2	0.2	61	4.83	340	7	298.1	312.7	299.0
776.7	2134	4.5	-1.1	67	4.56	0	6	298.4	312.3	299.2
748.4	2438	1.8	-2.4	74	4.31	20	4	298.7	311.8	299.5
729.0	2653	-0.1	-3.3	79	4.13	13	7	298.9	311.5	299.6
720.8	2743	-0.6	-4.4	75	3.84	10	9	299.3	311.1	300.0
716.0	2797	-0.9	-5.1	73	3.67	19	8	299.5	310.8	300.2
710.0	2864	-0.7	-6.7	64	3.28	31	7	300.5	310.6	301.1
700.0	2977	-1.5	-7.5	64	3.12	50	6	300.8	310.6	301.4
696.0	3023	-1.7	-6.7	69	3.34	47	6	301.1	311.5	301.7
689.0	3103	-1.7	-10.7	50	2.47	41	5	301.9	309.8	302.4
682.0	3184	-2.1	-13.1	43	2.05	35	4	302.4	309.0	302.8
668.0	3349	-3.1	-11.1	54	2.46	23	3	303.1	310.9	303.5
663.0	3408	-3.3	-14.3	42	1.92	18	2	303.5	309.7	303.8
655.0	3504	-3.9	-18.9	30	1.32	11	1	303.9	308.2	304.1
651.0	3552	-4.5	-14.5	46	1.92	8	1	303.7	309.9	304.1
647.0	3601	-4.9	-9.7	69	2.84	4	1	303.8	312.8	304.3
645.0	3625	-4.9	-9.4	71	2.92	2	0	304.1	313.3	304.6
642.3	3658	-4.9	-11.9	58	2.41	0	0	304.4	312.2	304.9
639.0	3698	-4.9	-14.9	45	1.89	6	1	304.9	311.1	305.2
633.0	3773	-5.3	-20.3	30	1.21	16	2	305.2	309.3	305.5
619.0	3947	-6.7	-27.7	17	0.64	40	5	305.6	307.8	305.7
610.0	4062	-6.5	-27.5	17	0.66	56	7	307.1	309.4	307.2
594.1	4267	-7.9	-27.7	19	0.67	85	10	307.8	310.1	307.9
572.0	4561	-9.9	-27.9	21	0.68	78	12	308.8	311.2	308.9
548.8	4877	-12.8	-29.1	24	0.63	70	15	309.0	311.3	309.2
531.0	5128	-15.1	-30.1	27	0.59	66	19	309.2	311.3	309.3
527.2	5182	-15.3	-31.0	25	0.55	65	20	309.5	311.5	309.6
525.0	5214	-15.5	-31.5	24	0.53	65	20	309.7	311.6	309.8
520.0	5286	-16.1	-25.1	46	0.96	65	19	309.9	313.2	310.0
515.0	5359	-16.5	-25.5	46	0.94	65	19	310.2	313.5	310.4
509.0	5447	-17.1	-29.1	35	0.68	65	18	310.5	312.9	310.7
500.0	5580	-17.9	-30.9	31	0.58	65	17	311.1	313.2	311.3
495.0	5655	-18.3	-31.3	31	0.57	66	17	311.6	313.6	311.7
492.0	5700	-18.3	-35.3	21	0.39	67	17	312.1	313.5	312.2
488.0	5761	-18.9	-39.9	14	0.24	68	18	312.1	313.0	312.1
480.0	5884	-19.7	-36.7	21	0.35	71	18	312.6	313.9	312.6
466.3	6096	-21.3	-39.8	17	0.26	75	19	313.2	314.2	313.2
426.0	6758	-26.3	-49.3	10	0.10	75	21	315.0	315.4	315.0
411.3	7010	-28.4	-48.1	13	0.12	75	22	315.4	315.9	315.5
400.0	7210	-30.1	-47.1	17	0.14	70	22	315.8	316.3	315.8
377.5	7620	-33.3	-49.5	18	0.11	60	21	316.8	317.3	316.9

372.0	7723	-34.1	-50.1	18	0.11	59	21	317.1	317.5	317.1
320.0	8758	-43.9	-51.9	41	0.10	49	16	317.5	317.9	317.5
304.0	9102	-46.1	-59.1	22	0.04	45	14	319.1	319.2	319.1
302.1	9144	-46.5	-59.5	21	0.04	45	14	319.1	319.3	319.1
300.0	9190	-46.9	-59.9	21	0.04	40	15	319.1	319.3	319.1
292.0	9367	-48.3	-59.3	27	0.04	39	17	319.6	319.8	319.6
258.0	10168	-52.7	-64.7	22	0.02	32	27	324.6	324.8	324.7
250.3	10363	-53.1	-66.0	19	0.02	30	29	326.9	327.0	326.9
250.0	10370	-53.1	-66.1	19	0.02	30	28	327.0	327.1	327.0
243.0	10553	-53.3	-67.3	17	0.02	28	25	329.4	329.4	329.4
227.7	10973	-51.2	-70.9	8	0.01	25	18	338.7	338.8	338.7
227.0	10994	-51.1	-71.1	7	0.01	25	18	339.2	339.2	339.2
217.3	11278	-51.7	-73.6	6	0.01	20	21	342.6	342.6	342.6
217.0	11287	-51.7	-73.7	5	0.01	21	21	342.7	342.7	342.7
213.0	11408	-50.5	-75.5	4	0.01	31	17	346.4	346.4	346.4
207.4	11582	-50.1	-80.1	2	0.00	45	11	349.6	349.6	349.6
204.0	11690	-49.9	-82.9	1	0.00	31	9	351.6	351.6	351.6
202.0	11754	-48.7	-82.7	1	0.00	23	8	354.5	354.5	354.5
200.0	11820	-47.9	-82.9	1	0.00	15	7	356.8	356.8	356.8
196.0	11954	-46.7	-81.7	1	0.00	14	7	360.7	360.8	360.7
184.0	12372	-47.5	-82.5	1	0.00	12	8	366.0	366.0	366.0
179.0	12555	-46.5	-81.5	1	0.00	11	8	370.5	370.6	370.5
167.0	13015	-46.9	-81.9	1	0.00	9	8	377.3	377.3	377.3
159.0	13341	-45.5	-80.5	1	0.00	7	9	385.0	385.0	385.0
150.0	13730	-45.5	-80.5	1	0.00	5	9	391.4	391.5	391.4
149.0	13775	-45.5	-80.5	1	0.00	5	9	392.2	392.2	392.2
146.0	13910	-46.3	-81.3	1	0.00	3	9	393.1	393.1	393.1
139.0	14237	-45.9	-80.9	1	0.00	360	8	399.4	399.4	399.4
136.0	14382	-46.5	-81.5	1	0.00	359	8	400.8	400.8	400.8
128.0	14785	-45.3	-80.3	1	0.00	355	8	409.9	410.0	409.9
119.5	15240	-46.0	-81.0	1	0.00	350	7	416.8	416.8	416.8
118.0	15327	-46.1	-81.1	1	0.00	351	7	418.1	418.1	418.1
110.0	15794	-45.5	-80.5	1	0.01	359	6	427.7	427.8	427.7
100.0	16430	-45.3	-80.3	1	0.01	10	5	439.9	439.9	439.9
75.7	18288	-45.6	-80.6	1	0.01	345	4	475.7	475.7	475.7
70.0	18810	-45.7	-80.7	1	0.01	225	3	486.2	486.3	486.2

Station information and sounding indices

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Station identifier: PAFA
Station number: 70261
Observation time: 150724/0000
Station latitude: 64.81
Station longitude: -147.88
Station elevation: 134.0
Showalter index: 2.39
Lifted index: 1.73
LIFT computed using virtual temperature: 1.57
SWEAT index: 57.00
K index: 24.90
Cross totals index: 19.90
Vertical totals index: 28.90
Totals totals index: 48.80
Convective Available Potential Energy: 0.00
CAPE using virtual temperature: 0.14
Convective Inhibition: 0.00
CINS using virtual temperature: -85.90
Equilibrium Level using virtual temperature: 715.54
LFCT using virtual temperature: 730.99
Bulk Richardson Number: 0.00

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Bulk Richardson Number using CAPV: 0.01
Temp [K] of the Lifted Condensation Level: 276.56
Pres [hPa] of the Lifted Condensation Level: 788.67
Mean mixed layer potential temperature: 295.98
Mean mixed layer mixing ratio: 6.30
1000 hPa to 500 hPa thickness: 5566.00
Precipitable water [mm] for entire sounding: 17.70

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)
