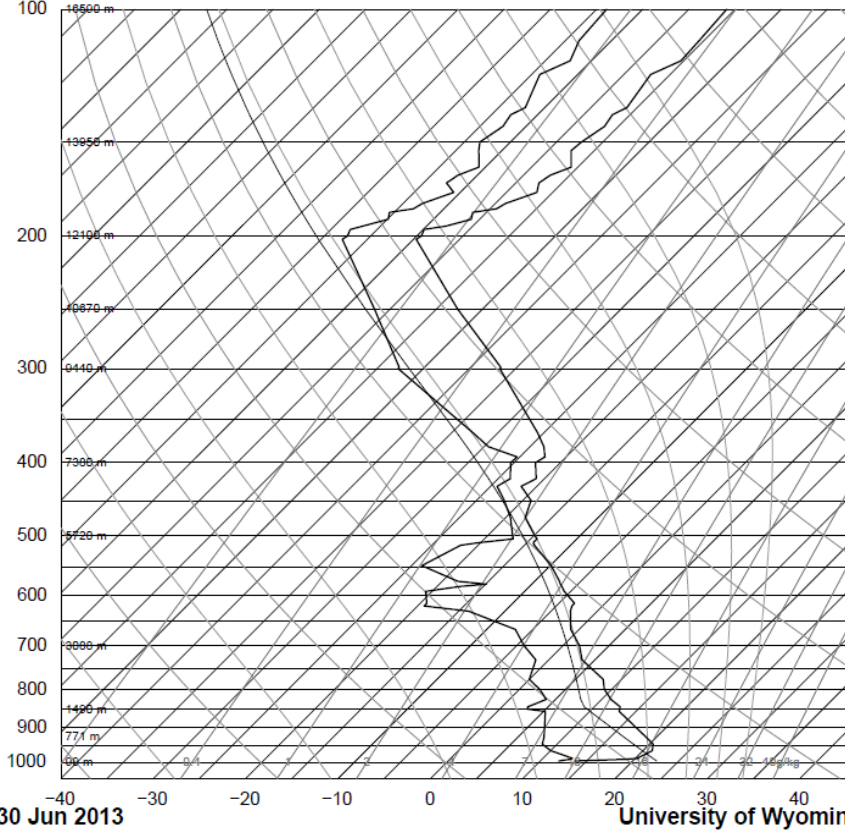
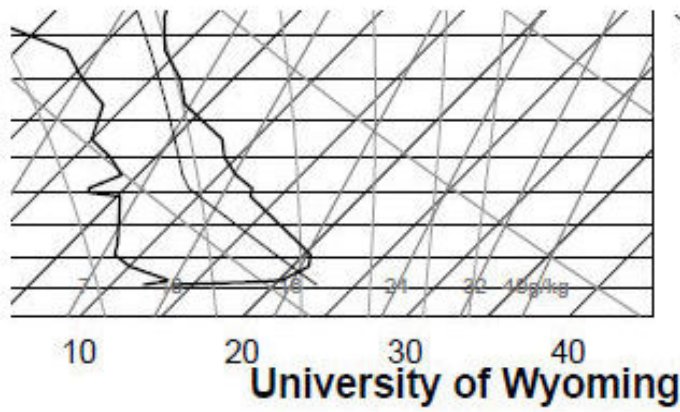


70261 PAFA Fairbanks



SLAT 64.81
 SLON
 SELV 138.0
 SHOW 3.41
 LIFT 1.29
 LFTV 1.26
 SWET 71.00
 KINX 24.90
 CTOT 17.90
 VTOT 27.90
 TOTL 45.80
 CAPE 0.00
 CAPV 0.00
 CINS 0.00
 CINV 0.00
 EQLV -9999
 EQTV -9999
 LFCT -9999
 LFCV -9999
 BRCH 0.00
 BRCV 0.00
 LCLT 281.5
 LCLP 839.1
 MLTH 296.0
 MLMR 8.38
 THCK 5621
 PWAT 25.63

12Z 30 Jun 2013



70261 PAFA Fairbanks Observations at 12Z 30 Jun 2013

PRES	HGHT	TEMP	DWPT	RELH	MIXR	DRCT	SKNT	THTA	THTE	THTV
hPa	m	C	C	%	g/kg	deg	knot	K	K	K
1000.0	99									
996.0	138	13.8	12.0	89	8.92	100	3	287.3	312.4	288.8
991.0	181	19.0	13.0	68	9.58	99	5	292.9	320.5	294.6
988.0	207	20.2	13.2	64	9.74	98	6	294.4	322.5	296.1
976.7	305	20.6	11.6	56	8.88	95	11	295.7	321.6	297.3
965.0	409	21.0	10.0	49	8.05	103	11	297.2	320.9	298.6
946.0	579	20.4	8.4	46	7.36	117	11	298.2	320.1	299.6
942.6	610	20.1	8.3	46	7.34	120	11	298.3	320.1	299.6
925.0	771	18.8	7.8	49	7.22	130	10	298.5	320.0	299.8
909.6	914	17.6	7.2	51	7.07	130	11	298.7	319.8	300.0
877.6	1219	15.0	6.0	55	6.74	130	11	299.1	319.3	300.3
856.0	1431	13.2	5.2	58	6.52	134	12	299.4	318.9	300.5
850.0	1490	13.0	3.0	51	5.62	135	12	299.8	316.7	300.8
844.0	1550	12.8	2.8	51	5.58	136	11	300.1	317.0	301.2
825.0	1740	11.0	4.0	62	6.22	139	9	300.2	318.9	301.3
816.2	1829	10.4	3.4	62	6.01	140	8	300.5	318.6	301.6
800.0	1996	9.2	2.2	62	5.64	181	6	300.9	318.1	302.0
786.8	2134	8.5	1.0	59	5.26	215	4	301.7	317.7	302.6
776.0	2248	8.0	0.0	57	4.96	213	5	302.3	317.5	303.2
758.2	2438	6.3	-0.5	62	4.87	210	7	302.4	317.4	303.3
731.0	2737	3.6	-1.4	70	4.75	235	6	302.7	317.3	303.5
730.5	2743	3.6	-1.4	70	4.73	235	6	302.7	317.3	303.6
700.0	3088	1.8	-4.2	64	4.02	265	5	304.4	317.0	305.2
666.0	3488	-0.9	-6.9	64	3.44	255	6	305.8	316.7	306.4
651.9	3658	-1.7	-9.6	55	2.85	250	6	306.8	315.9	307.3
630.0	3930	-2.9	-13.9	42	2.08	243	7	308.4	315.2	308.8
620.0	4056	-3.3	-19.3	28	1.35	240	8	309.3	313.9	309.6
615.0	4120	-3.3	-19.3	28	1.36	239	8	310.1	314.7	310.3
603.6	4267	-4.5	-20.0	29	1.30	235	9	310.3	314.7	310.5
593.0	4407	-5.7	-20.7	30	1.25	230	9	310.5	314.8	310.8
584.0	4527	-6.5	-17.5	41	1.67	227	9	310.9	316.6	311.3
580.0	4580	-6.9	-14.9	53	2.08	225	10	311.1	318.0	311.5
575.0	4648	-7.3	-18.3	41	1.58	223	10	311.4	316.7	311.7
558.2	4877	-8.9	-21.7	35	1.21	215	10	312.1	316.3	312.4
548.0	5021	-9.9	-23.9	31	1.02	218	10	312.6	316.2	312.8
515.0	5496	-13.9	-21.9	51	1.29	226	11	313.4	317.8	313.6
511.0	5555	-14.3	-20.3	60	1.50	227	11	313.6	318.7	313.9
505.0	5645	-14.3	-16.9	81	2.03	229	11	314.6	321.5	315.0
500.0	5720	-14.9	-17.3	82	1.98	230	11	314.8	321.5	315.2
475.6	6096	-17.6	-19.3	87	1.76	230	12	316.0	322.0	316.3
473.0	6138	-17.9	-19.5	87	1.73	231	12	316.1	322.1	316.5
449.0	6527	-19.1	-22.0	78	1.47	244	15	319.4	324.5	319.6
430.0	6847	-21.7	-24.3	79	1.25	255	18	320.0	324.4	320.3
420.6	7010	-20.9	-23.7	78	1.35	260	19	323.0	327.8	323.3
420.0	7021	-20.9	-23.7	78	1.35	261	19	323.2	328.0	323.5
403.6	7315	-22.4	-25.1	78	1.24	280	12	325.0	329.5	325.2
400.0	7380	-22.7	-25.4	79	1.22	255	11	325.4	329.8	325.6

393.0	7510	-22.3	-25.3	77	1.25	250	12	327.6	332.1	327.8
387.1	7620	-22.9	-27.3	67	1.06	245	13	328.2	332.1	328.4
381.0	7737	-23.5	-29.5	58	0.88	247	13	328.9	332.2	329.1
365.0	8050	-25.7	-32.7	52	0.67	252	12	330.0	332.6	330.2
340.9	8534	-29.5	-37.9	44	0.43	260	11	331.3	333.0	331.4
326.5	8839	-31.9	-41.2	39	0.32	290	9	332.1	333.4	332.2
312.8	9144	-34.4	-44.5	35	0.23	295	14	332.8	333.8	332.9
300.0	9440	-36.7	-47.7	31	0.17	300	15	333.5	334.2	333.6
299.0	9463	-36.7	-47.7	31	0.17	300	15	333.9	334.6	333.9
250.0	10670	-47.7	-56.7	35	0.07	305	17	335.0	335.3	335.0
206.8	11887	-58.4	-66.5	34	0.02	320	29	336.9	337.0	336.9
202.0	12038	-59.7	-67.7	34	0.02	320	29	337.1	337.2	337.1
200.0	12100	-59.5	-67.5	35	0.02	320	27	338.4	338.5	338.4
196.0	12226	-59.9	-67.9	34	0.02	320	27	339.7	339.8	339.7
194.0	12291	-57.9	-66.9	31	0.02	321	26	343.9	344.0	343.9
190.0	12423	-55.9	-64.9	31	0.03	321	26	349.2	349.3	349.2
186.0	12558	-56.5	-65.5	31	0.03	321	26	350.3	350.5	350.3
184.0	12627	-54.3	-63.3	32	0.04	321	26	355.0	355.2	355.0
181.0	12733	-53.9	-62.9	32	0.04	322	25	357.3	357.5	357.3
175.0	12950	-51.7	-60.7	33	0.06	322	25	364.4	364.7	364.4
170.0	13138	-52.5	-62.5	29	0.05	323	24	366.1	366.3	366.1
166.0	13292	-52.1	-62.1	29	0.05	323	24	369.2	369.5	369.3
162.0	13451	-50.7	-60.7	30	0.07	324	23	374.2	374.5	374.2
154.0	13780	-52.5	-62.5	29	0.06	325	22	376.6	376.9	376.6
150.0	13950	-52.3	-63.3	25	0.05	325	22	379.8	380.0	379.8
143.0	14260	-51.5	-62.5	26	0.06	318	19	386.4	386.7	386.4
138.0	14491	-51.9	-62.9	25	0.06	312	16	389.6	389.9	389.6
135.0	14634	-51.1	-62.1	26	0.07	309	15	393.5	393.8	393.5
123.0	15240	-52.0	-63.9	23	0.06	295	8	402.4	402.7	402.4
122.0	15292	-52.1	-64.1	22	0.06	295	8	403.2	403.5	403.2
117.0	15565	-50.3	-62.3	23	0.07	294	8	411.4	411.8	411.4
110.0	15968	-50.5	-63.5	20	0.07	292	7	418.3	418.7	418.3
100.0	16590	-50.9	-63.9	20	0.07	290	6	429.1	429.5	429.1
93.9	16998	-51.3	-64.3	20	0.07	274	7	436.1	436.5	436.1
82.7	17825	-48.9	-62.9	18	0.10	243	9	457.1	457.7	457.1
77.0	18288	-50.8	-64.8	17	0.08	225	10	462.5	463.0	462.6
75.6	18410	-51.3	-65.3	17	0.08	247	9	464.0	464.4	464.0
70.0	18910	-49.9	-64.9	15	0.09	335	4	477.3	477.8	477.3
65.0	19397	-48.1	-64.1	14	0.11	342	3	491.4	492.1	491.4
59.3	19999	-50.3	-66.3	13	0.09	350	2	499.5	500.1	499.6
53.1	20726	-48.3	-65.2	12	0.11	0	0	520.3	521.1	520.3
52.6	20786	-48.1	-65.1	12	0.11	349	0	522.0	522.9	522.1
50.0	21120	-48.5	-65.5	12	0.11	290	1	528.7	529.5	528.8
48.4	21336	-48.5	-65.6	12	0.12	45	6	533.8	534.6	533.8
40.2	22555	-48.3	-66.5	10	0.12	125	15	563.3	564.3	563.4
35.0	23470	-48.1	-67.0	9	0.13	140	3	586.6	587.6	586.6
34.6	23542	-48.1	-67.1	9	0.13	135	4	588.4	589.5	588.5
31.9	24079	-45.0	-66.0	8	0.17	100	11	610.4	611.8	610.5
31.8	24101	-44.9	-65.9	8	0.17	99	11	611.4	612.8	611.4
30.5	24384	-45.2	-66.9	7	0.15	90	13	618.0	619.3	618.1
30.0	24490	-45.3	-67.3	7	0.15	100	17	620.5	621.8	620.6
27.8	24994	-44.9	-67.4	6	0.16	70	15	635.2	636.5	635.2
26.6	25298	-44.6	-67.5	6	0.16	90	19	644.2	645.6	644.2
24.3	25908	-44.1	-67.6	6	0.18	85	18	662.6	664.2	662.7
23.2	26213	-43.8	-67.7	5	0.18	85	16	672.0	673.7	672.1
22.7	26363	-43.7	-67.7	5	0.19	70	16	676.7	678.4	676.8
22.2	26518	-43.3	-67.5	5	0.20	55	16	682.2	684.1	682.3

21.2	26822	-42.6	-67.2	5	0.21	90	23	693.2	695.2	693.2
20.0	27220	-41.7	-66.7	5	0.24	80	18	707.8	710.1	707.9
19.6	27357	-41.1	-66.1	5	0.27	77	19	713.7	716.3	713.8
19.4	27432	-41.0	-66.1	5	0.27	75	19	716.2	718.9	716.3
18.5	27737	-40.7	-65.9	5	0.29	100	26	726.4	729.3	726.5
17.7	28042	-40.4	-65.7	5	0.31	115	19	736.7	739.9	736.9
16.2	28651	-39.7	-65.4	5	0.36	85	17	757.8	761.5	758.0
15.5	28956	-39.4	-65.2	5	0.38	105	19	768.6	772.6	768.8
14.8	29261	-39.0	-65.1	5	0.41	65	12	779.5	783.9	779.7
14.2	29566	-38.7	-64.9	5	0.44	110	17	790.6	795.3	790.8
13.6	29870	-38.4	-64.8	5	0.47	100	12	801.8	806.9	802.1
13.0	30175	-38.1	-64.6	4	0.50	35	14	813.2	818.8	813.5
12.4	30480	-37.7	-64.4	4	0.53	95	13	824.8	830.8	825.1
11.4	31090	-37.0	-64.0	4	0.62	65	18	848.8	855.9	849.1
11.4	31068	-37.1	-64.1	4	0.61	66	18	847.6	854.5	847.9
10.8	31443	-35.1	-62.1	5	0.83	71	26	868.0	877.8	868.5
10.4	31699	-34.7	-61.7	5	0.91	75	31	878.6	889.3	879.1
10.0	32004	-34.2	-61.3	5	1.01	75	21	891.4	903.4	892.0
10.0	31980	-34.3	-61.3	5	1.00	75	23	890.3	902.2	890.9
8.0	33528	-30.6	-58.5	5	1.78	80	33	962.7	985.4	963.7
7.9	33643	-30.3	-58.3	5	1.85			968.3	992.1	969.4

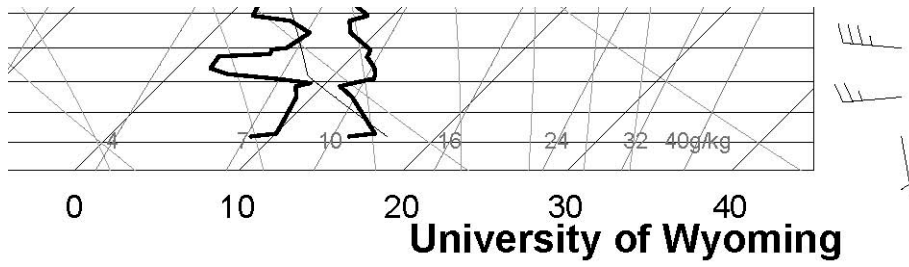
Station information and sounding indices

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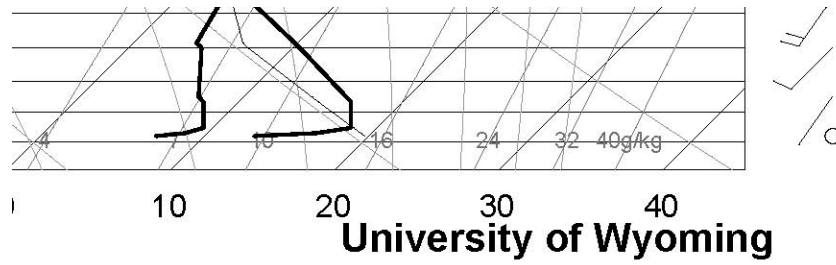
Station identifier: PAFA
Station number: 70261
Observation time: 130630/1200
Station latitude: 64.81
Station longitude: -147.86
Station elevation: 138.0
Showalter index: 3.41
Lifted index: 1.29
LIFT computed using virtual temperature: 1.26
SWEAT index: 71.00
K index: 24.90
Cross totals index: 17.90
Vertical totals index: 27.90
Totals totals index: 45.80
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: 281.59
Pres [hPa] of the Lifted Condensation Level: 839.10
Mean mixed layer potential temperature: 296.09
Mean mixed layer mixing ratio: 8.38
1000 hPa to 500 hPa thickness: 5621.00
Precipitable water [mm] for entire sounding: 25.63

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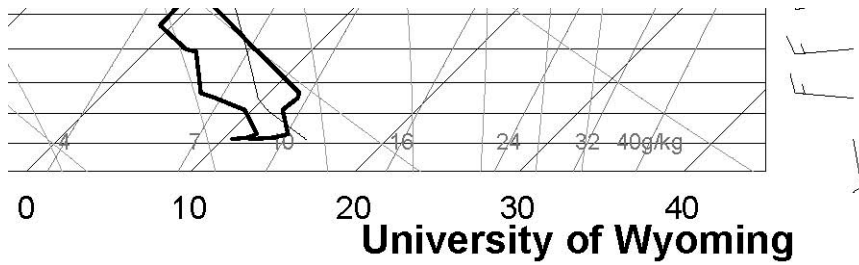
Partial SkewT 12Z 07/12/13



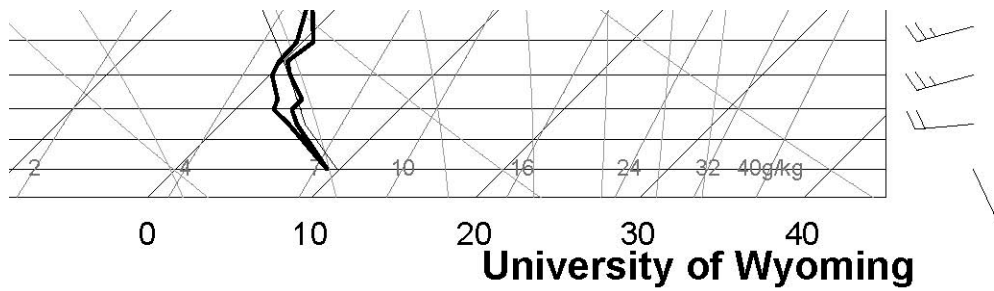
Partial SkewT 12Z 07/13/13



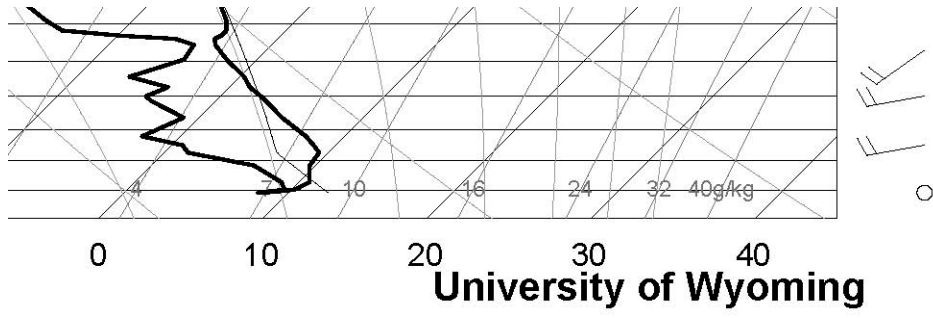
Partial SkewT 12Z 07/14/13



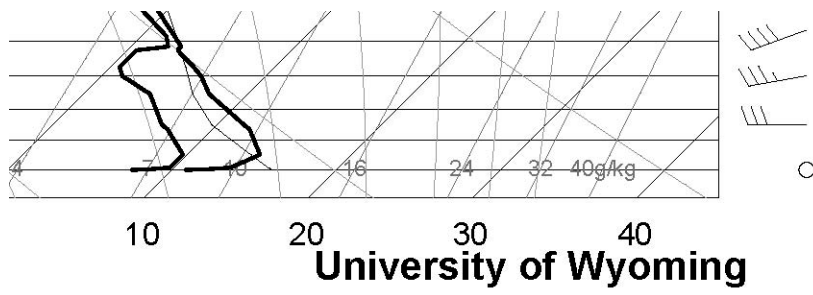
Partial SkewT 12Z 07/15/13



Partial SkewT 12Z 07/16/13



Partial SkewT 12Z 07/17/13



Lower SkewT Analysis

University of Wyoming			Radiosonde	PAFA Fairbanks	
July 17, 12Z 2010			70261		
	PRES	HGHT	TEMP	DRCT	SKNT
	hPa	m	C	deg	knot
	1000	138	10.8	0	0
	999	146	12	354	0
	996	172	13.4	338	2
	980.3	305	14.1	250	8
	974	360	14.4	254	11
	945.4	610	12.9	270	27
		Inversion Thickness (m)	Temperature C Diff		
		222	3.6		

Date	Temp Diff	PM2.5
12-Jul-10	1.4	6.7
13-Jul-10	5.4	45.7
14-Jul-10	2.0	15.3
15-Jul-10	N/A	26.6
16-Jul-10	2.1	25.9
17-Jul-10	3.6	16.3