

72501 OKX Upton 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
1010.0	20	24.6	16.6	61	11.90	230	2	296.9	331.6	299.0
1000.0	105	23.8	15.8	61	11.41	225	8	296.9	330.2	299.0
977.2	305	22.2	14.2	61	10.56	235	14	297.4	328.2	299.2
943.5	610	19.9	11.9	60	9.35	255	10	298.0	325.5	299.6
931.0	725	19.0	11.0	60	8.93	272	11	298.2	324.5	299.8
925.0	781	19.0	8.0	49	7.32	280	11	298.7	320.5	300.1
910.6	914	17.8	7.5	51	7.20	295	12	298.8	320.3	300.1
878.5	1219	15.0	6.4	57	6.91	290	16	299.0	319.6	300.2
850.0	1499	12.4	5.4	62	6.66	280	16	299.1	319.1	300.3
816.8	1829	9.5	4.0	69	6.30	280	15	299.5	318.4	300.6
787.3	2134	6.9	2.8	75	5.98	310	14	299.8	317.9	300.9
767.0	2350	5.0	1.9	80	5.76	314	14	300.1	317.4	301.1
758.8	2438	4.7	-1.2	65	4.62	315	14	300.6	314.8	301.5
747.0	2565	4.2	-5.8	48	3.34	309	17	301.4	311.9	302.1
742.0	2620	5.4	-18.6	16	1.19	306	18	303.3	307.3	303.6
739.0	2653	5.6	-22.4	11	0.86	304	19	303.9	306.9	304.1
730.9	2743	5.2	-24.4	10	0.73	300	21	304.4	306.9	304.5
724.0	2820	4.8	-26.2	8	0.63	299	21	304.8	307.0	304.9
712.0	2956	5.4	-30.6	5	0.42	297	21	306.9	308.5	307.0
700.0	3095	5.0	-30.0	6	0.46	295	21	308.0	309.6	308.1
678.1	3353	3.9	-34.1	4	0.32	280	23	309.6	310.8	309.6
664.0	3523	3.2	-36.8	3	0.25	283	23	310.6	311.6	310.7
656.0	3621	2.8	-23.2	13	0.91	284	23	311.3	314.4	311.4
653.0	3658	2.6	-20.4	16	1.16	285	23	311.4	315.5	311.7
650.0	3696	2.4	-17.6	21	1.48	286	23	311.6	316.7	311.9
643.0	3783	2.0	-27.0	10	0.66	288	24	312.1	314.5	312.3
634.0	3896	1.0	-19.0	21	1.35	291	26	312.3	316.9	312.5
605.2	4267	-1.9	-19.7	24	1.34	300	30	313.1	317.8	313.4
595.0	4402	-2.9	-19.9	26	1.33	298	31	313.5	318.1	313.7
586.0	4523	-3.3	-23.3	20	1.00	296	32	314.4	317.9	314.6
565.0	4810	-5.5	-17.5	38	1.72	291	34	315.1	321.0	315.4
560.2	4877	-5.8	-20.3	31	1.37	290	35	315.5	320.3	315.8
548.0	5049	-6.5	-27.5	17	0.73	290	37	316.6	319.3	316.8
533.0	5266	-7.5	-27.5	18	0.75	290	39	318.0	320.7	318.1
528.0	5339	-7.9	-22.9	29	1.16	290	39	318.4	322.4	318.6
523.0	5413	-8.1	-28.1	18	0.73	290	40	319.0	321.6	319.1
512.0	5577	-9.3	-28.3	20	0.73	290	41	319.5	322.1	319.6
507.0	5653	-9.9	-32.9	13	0.48	290	42	319.6	321.4	319.7
500.0	5760	-10.5	-29.5	19	0.67	290	43	320.2	322.6	320.3
496.0	5822	-11.1	-26.1	28	0.92	290	43	320.2	323.5	320.4
492.0	5884	-11.5	-29.5	21	0.68	290	43	320.4	322.9	320.6
481.0	6056	-12.9	-28.9	25	0.73	290	43	320.8	323.5	320.9
478.5	6096	-13.2	-30.5	22	0.63	290	43	320.9	323.3	321.1
459.6	6401	-15.3	-43.1	7	0.19	285	42	322.0	322.8	322.1
454.0	6493	-15.9	-46.9	5	0.12	285	44	322.4	322.9	322.4
434.0	6832	-15.7	-49.7	4	0.09	287	50	326.8	327.2	326.8
406.0	7330	-20.1	-51.1	4	0.09	289	60	327.4	327.8	327.4
400.0	7440	-20.5	-51.5	4	0.08	290	62	328.3	328.6	328.3
390.4	7620	-21.2	-53.1	4	0.07	295	67	329.6	329.9	329.6
389.0	7646	-21.3	-53.3	4	0.07	295	67	329.8	330.1	329.9
374.1	7925	-23.7	-54.2	4	0.06	295	70	330.3	330.6	330.3
315.3	9144	-34.4	-58.3	7	0.05	285	79	332.0	332.2	332.0
300.0	9500	-37.5	-59.5	8	0.04	285	78	332.4	332.6	332.4

255.0	10599	-47.3	-61.3	19	0.04	281	74	333.7	333.9	333.7
250.0	10730	-47.5	-62.5	16	0.03	280	74	335.3	335.5	335.3
248.0	10783	-47.7	-62.7	16	0.03	279	74	335.8	335.9	335.8
240.9	10973	-49.2	-63.6	17	0.03	275	74	336.4	336.5	336.4
223.0	11476	-53.1	-66.1	19	0.02	270	78	337.9	338.0	337.9
218.0	11623	-51.7	-67.7	13	0.02	272	84	342.2	342.3	342.2
213.0	11773	-52.1	-69.2	11	0.02	275	91	343.9	344.0	343.9
209.3	11887	-52.4	-70.4	10	0.01	275	91	345.2	345.2	345.2
205.0	12020	-52.7	-71.7	8	0.01	273	90	346.7	346.8	346.7
200.0	12180	-52.3	-71.3	8	0.01	270	88	349.8	349.9	349.8
186.0	12652	-51.7	-76.7	3	0.01	271	84	358.1	358.1	358.1
181.0	12828	-53.1	-78.1	3	0.01	272	82	358.6	358.6	358.6
162.0	13540	-56.3	-81.3	3	0.00	274	76	364.8	364.8	364.8
156.0	13780	-56.7	-81.7	3	0.00	274	74	368.0	368.1	368.0
152.0	13946	-56.1	-84.1	2	0.00	275	73	371.8	371.8	371.8
150.0	14030	-56.3	-85.3	1	0.00	275	72	372.9	372.9	372.9
143.1	14326	-57.2	-86.9	1	0.00	270	74	376.2	376.2	376.2
140.0	14466	-57.7	-87.7	1	0.00	275	74	377.8	377.9	377.8
136.4	14630	-57.6	-88.2	1	0.00	280	74	380.9	380.9	380.9
134.0	14742	-57.5	-88.5	1	0.00	281	70	383.0	383.0	383.0
129.0	14981	-58.9	-89.9	1	0.00	283	61	384.6	384.6	384.6
127.0	15080	-57.3	-89.3	1	0.00	284	57	389.2	389.2	389.2
123.8	15240	-57.0	-89.0	1	0.00	285	51	392.6	392.6	392.6
123.0	15282	-56.9	-88.9	1	0.00	285	50	393.5	393.5	393.5
121.0	15385	-57.5	-89.5	1	0.00	287	48	394.3	394.3	394.3
116.0	15652	-56.9	-88.9	1	0.00	290	43	400.2	400.2	400.2
114.0	15762	-57.5	-89.5	1	0.00	291	41	401.1	401.1	401.1
112.0	15874	-56.7	-88.7	1	0.00	292	38	404.6	404.6	404.6
109.0	16045	-57.7	-89.7	1	0.00	294	35	405.9	405.9	405.9
107.0	16162	-56.9	-88.9	1	0.00	295	33	409.5	409.5	409.5
103.0	16403	-56.7	-88.7	1	0.00	298	28	414.4	414.4	414.4
100.0	16590	-57.3	-89.3	1	0.00	300	24	416.7	416.8	416.7
95.3	16892	-58.9	-89.9	1	0.00	265	18	419.4	419.4	419.4
92.7	17069	-57.3	-89.3	1	0.00	245	14	425.9	425.9	425.9
92.6	17073	-57.3	-89.3	1	0.00	245	14	426.0	426.0	426.0
88.3	17374	-57.9	-89.3	1	0.00	240	24	430.8	430.8	430.8
84.9	17619	-58.3	-89.3	1	0.00	272	30	434.7	434.7	434.7
84.1	17678	-57.8	-89.0	1	0.00	280	31	436.8	436.9	436.8
77.4	18207	-53.3	-86.3	1	0.00	302	11	456.7	456.7	456.7
76.4	18288	-53.5	-86.3	1	0.00	305	8	458.0	458.0	458.0
72.9	18593	-54.1	-86.5	1	0.00	275	3	462.9	462.9	462.9
70.0	18850	-54.7	-86.7	1	0.00	230	16	467.0	467.0	467.0
69.5	18898	-54.9	-86.9	1	0.00	245	21	467.6	467.7	467.6
68.2	19017	-55.3	-87.3	1	0.00	253	17	469.2	469.2	469.2
66.2	19202	-55.2	-87.2	1	0.00	265	12	473.3	473.4	473.3
61.3	19699	-54.9	-86.9	1	0.00	309	10	484.6	484.6	484.6
59.1	19934	-53.1	-86.1	1	0.00	330	9	493.7	493.8	493.7
57.1	20156	-54.5	-87.5	1	0.00	350	8	495.4	495.5	495.4
50.0	21010	-53.5	-86.5	1	0.00	65	5	517.0	517.0	517.0
47.5	21336	-52.8	-85.8	1	0.01	70	3	526.2	526.2	526.2
47.2	21381	-52.7	-85.7	1	0.01	60	5	527.5	527.5	527.5
45.3	21641	-52.7	-85.7	1	0.01	5	14	533.5	533.6	533.5
43.2	21946	-52.7	-85.7	1	0.01	95	15	540.8	540.9	540.8
39.4	22555	-52.7	-85.7	1	0.01	115	11	555.6	555.6	555.6
37.5	22860	-52.7	-85.7	1	0.01	50	13	563.1	563.2	563.1
35.8	23165	-52.7	-85.7	1	0.01	80	18	570.8	570.8	570.8
34.2	23461	-52.7	-85.7	1	0.01	90	17	578.3	578.4	578.3
34.1	23470	-52.7	-85.7	1	0.01	90	17	578.6	578.6	578.6
32.6	23774	-52.1	-85.5	1	0.01	75	19	587.9	588.0	587.9
30.0	24310	-51.1	-85.1	1	0.01	90	25	604.7	604.8	604.7
29.7	24384	-50.9	-85.0	1	0.01	95	24	607.2	607.2	607.2

28.3	24689	-50.2	-84.4	1	0.01	75	23	617.3	617.4	617.3
27.0	24994	-49.5	-83.9	1	0.01	90	28	627.6	627.7	627.6
24.6	25603	-48.0	-82.8	1	0.02	75	29	648.6	648.8	648.6
23.5	25908	-47.3	-82.2	1	0.02	90	29	659.4	659.6	659.4
22.9	26082	-46.9	-81.9	1	0.02	81	30	665.6	665.8	665.6
22.4	26213	-46.8	-81.8	1	0.02	75	30	669.7	669.9	669.7
20.5	26822	-46.2	-81.2	1	0.03	80	36	689.1	689.4	689.2
20.0	26980	-46.1	-81.1	1	0.03	80	35	694.3	694.6	694.3
19.3	27216	-46.5	-81.5	1	0.03	85	34	700.2	700.5	700.2
18.7	27432	-45.5	-80.8	1	0.03	90	34	709.8	710.1	709.8
17.5	27869	-43.5	-79.5	1	0.04	90	34	729.5	730.0	729.6
16.1	28429	-43.5	-79.5	1	0.05	90	34	747.1	747.6	747.2
14.6	29090	-40.5	-77.5	1	0.07	90	33	778.4	779.1	778.4
13.0	29882	-39.3	-76.3	1	0.09	90	33	808.7	809.8	808.8
11.9	30480	-38.9	-76.2	1	0.10	90	33	830.6	831.8	830.6
10.0	31680	-38.1	-76.1	1	0.12	95	36	876.2	877.8	876.2
9.1	32309	-38.5	-75.6	1	0.15	90	30	898.0	900.0	898.1
9.0	32404	-38.5	-75.5	1	0.15			901.4	903.4	901.5

Station information and sounding indices

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Station identifier: OKX
Station number: 72501
Observation time: 150724/0000
Station latitude: 40.87
Station longitude: -72.86
Station elevation: 20.0
Showalter index: 6.50
Lifted index: 1.50
LIFT computed using virtual temperature: 1.12
SWEAT index: 139.82
K index: -6.70
Cross totals index: 15.90
Vertical totals index: 22.90
Totals totals index: 38.80
Convective Available Potential Energy: 52.84
CAPE using virtual temperature: 86.49
Convective Inhibition: -43.75
CINS using virtual temperature: -24.05
Equilibrium Level: 721.13
Equilibrium Level using virtual temperature: 706.37
Level of Free Convection: 831.76
LFCT using virtual temperature: 848.01
Bulk Richardson Number: 1.43
Bulk Richardson Number using CAPV: 2.35
Temp [K] of the Lifted Condensation Level: 285.88
Pres [hPa] of the Lifted Condensation Level: 872.15
Mean mixed layer potential temperature: 297.29
Mean mixed layer mixing ratio: 10.74
1000 hPa to 500 hPa thickness: 5655.00
Precipitable water [mm] for entire sounding: 23.05

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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)
