

<http://weather.uwyo.edu/cgi-bin/sounding?region=naconf&TYPE=TEXT%3ALIST&YEAR=2015&MONTH=4&FROM=100&TO=3012&STNM=72293>

## 72293 NKX San Diego Observations at 00Z 01 Apr 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	127									
999.0	137	20.6	14.6	68	10.56	270	9	293.8	324.2	295.7
993.0	189	19.6	14.6	73	10.63	265	9	293.3	323.9	295.2
979.5	305	18.0	13.8	77	10.24	255	8	292.9	322.3	294.7
945.0	610	13.8	11.8	88	9.28	230	9	291.6	318.2	293.3
936.0	691	13.8	10.2	79	8.41	203	6	292.4	316.7	293.9
928.0	764	16.6	0.6	34	4.33	179	4	296.0	309.1	296.8
925.0	791	16.6	-1.4	29	3.75	170	3	296.3	307.7	296.9
917.0	865	17.0	-7.0	19	2.48	191	5	297.4	305.2	297.9
911.7	914	17.0	-8.5	17	2.22	205	6	297.9	304.9	298.3
889.0	1129	17.0	-15.0	10	1.35	233	8	300.1	304.5	300.3
879.6	1219	16.6	-15.2	10	1.34	245	9	300.5	304.9	300.8
850.0	1509	15.2	-15.8	10	1.32	185	7	302.1	306.4	302.3
818.3	1829	14.0	-21.3	7	0.86	265	6	304.1	307.0	304.2
813.0	1884	13.8	-22.2	7	0.80	263	7	304.4	307.2	304.6
789.1	2134	12.3	-27.3	5	0.52	255	11	305.4	307.2	305.5
773.0	2306	11.2	-30.8	4	0.38	269	12	306.1	307.4	306.1
760.8	2438	10.4	-17.0	13	1.33	280	13	306.6	311.1	306.8
758.0	2469	10.2	-13.8	17	1.75	280	13	306.7	312.5	307.0
733.3	2743	8.4	-14.0	19	1.78	275	12	307.7	313.6	308.0
727.0	2814	8.0	-14.0	19	1.79	277	13	308.0	313.9	308.3
715.0	2951	7.4	-23.6	9	0.80	282	16	308.8	311.6	308.9
706.6	3048	6.7	-22.0	11	0.93	285	18	309.1	312.3	309.2
700.0	3125	6.2	-20.8	12	1.05	280	18	309.3	312.9	309.5
683.0	3326	4.4	-18.6	17	1.30	274	18	309.5	313.9	309.7
655.4	3658	2.4	-21.0	16	1.10	265	18	310.9	314.7	311.1
612.0	4211	-0.9	-24.9	14	0.83	270	22	313.2	316.2	313.4
607.7	4267	-1.3	-25.1	14	0.82	270	22	313.4	316.3	313.5
578.0	4665	-4.5	-26.5	16	0.76	270	23	314.2	316.9	314.4
562.6	4877	-5.7	-28.4	15	0.66	270	23	315.3	317.6	315.4
557.0	4955	-6.1	-29.1	14	0.62	266	22	315.6	317.9	315.8
541.0	5182	-8.1	-31.1	14	0.53	255	21	316.0	317.9	316.1
523.0	5445	-10.3	-33.3	13	0.44	272	22	316.3	318.0	316.4
520.2	5486	-10.5	-34.6	12	0.39	275	22	316.5	318.0	316.6
500.0	5790	-12.3	-44.3	5	0.15	270	27	318.0	318.6	318.0
499.0	5805	-12.5	-44.5	5	0.15	271	27	317.9	318.5	317.9
480.2	6096	-14.6	-44.5	6	0.15	280	33	318.8	319.4	318.9
464.0	6356	-16.5	-44.5	7	0.16	275	34	319.6	320.2	319.6
427.0	6974	-21.9	-44.9	11	0.16	262	36	320.4	321.1	320.4
417.0	7147	-23.5	-39.5	22	0.30	259	36	320.5	321.7	320.6
413.0	7218	-24.1	-36.1	32	0.43	257	37	320.6	322.2	320.7
407.5	7315	-24.9	-37.4	31	0.38	255	37	320.8	322.2	320.9
400.0	7450	-26.1	-39.1	28	0.32	265	39	321.0	322.2	321.1
390.6	7620	-27.8	-40.4	29	0.29	260	39	321.0	322.1	321.0
378.0	7855	-30.1	-42.1	30	0.25	262	40	320.9	321.9	321.0
371.0	7987	-31.1	-39.1	45	0.35	262	40	321.3	322.7	321.4
337.0	8657	-37.5	-42.5	59	0.27	267	42	321.5	322.6	321.6

335.0	8698	-37.7	-43.7	53	0.24	267	42	321.8	322.7	321.9
333.0	8740	-37.7	-52.7	19	0.09	267	42	322.4	322.7	322.4
332.0	8760	-37.9	-55.9	13	0.06	267	42	322.4	322.6	322.4
315.0	9120	-39.9	-60.9	9	0.03	270	43	324.5	324.6	324.5
313.9	9144	-40.1	-60.7	9	0.03	270	43	324.5	324.7	324.5
309.0	9250	-40.9	-59.9	11	0.04	270	44	324.9	325.0	324.9
302.0	9405	-42.1	-52.1	33	0.10	270	46	325.3	325.7	325.3
300.0	9450	-42.7	-51.7	37	0.11	270	47	325.1	325.5	325.1
293.0	9610	-43.9	-50.9	46	0.12	270	46	325.6	326.1	325.6
276.0	10010	-47.5	-53.5	50	0.10	270	45	326.0	326.4	326.0
262.0	10354	-50.3	-57.3	43	0.06	270	43	326.8	327.0	326.8
261.6	10363	-50.4	-57.4	43	0.06	270	43	326.8	327.0	326.8
250.0	10660	-53.1	-59.1	48	0.05	270	48	327.0	327.2	327.0
240.0	10920	-55.5	-60.5	54	0.05	270	49	327.2	327.4	327.2
217.0	11553	-59.3	-66.3	40	0.02	270	52	330.9	331.0	330.9
209.0	11787	-59.9	-70.9	22	0.01	270	53	333.5	333.6	333.5
201.0	12029	-60.7	-73.7	17	0.01	270	54	336.0	336.1	336.0
200.0	12060	-60.3	-73.3	17	0.01	270	54	337.1	337.2	337.1
187.0	12482	-58.4	-77.8	7	0.01	260	61	346.7	346.8	346.7
186.5	12497	-58.3	-77.9	6	0.00	260	61	347.1	347.1	347.1
180.0	12721	-57.3	-80.3	4	0.00	260	57	352.3	352.3	352.3
170.0	13083	-56.9	-84.9	2	0.00	260	49	358.8	358.8	358.8
169.4	13106	-57.0	-85.1	2	0.00	260	49	359.0	359.0	359.0
162.0	13387	-58.3	-87.3	1	0.00	260	50	361.4	361.4	361.4
150.0	13870	-58.9	-87.9	1	0.00	260	51	368.4	368.4	368.4
149.0	13912	-58.7	-87.7	1	0.00	260	51	369.4	369.5	369.4
138.0	14392	-60.7	-89.7	1	0.00	257	54	374.1	374.1	374.1
134.0	14576	-59.9	-89.9	1	0.00	255	55	378.7	378.7	378.7
132.8	14630	-60.2	-90.2	1	0.00	255	55	379.0	379.0	379.0
132.0	14670	-60.5	-90.5	1	0.00	254	52	379.2	379.3	379.2
129.0	14813	-59.1	-90.1	1	0.00	252	42	384.3	384.3	384.3
126.5	14935	-59.3	-90.3	1	0.00	250	34	386.1	386.1	386.1
124.0	15061	-59.5	-90.5	1	0.00	242	38	387.9	387.9	387.9
120.5	15240	-61.0	-91.5	1	0.00	230	43	388.4	388.4	388.4
117.0	15423	-62.5	-92.5	1	0.00	234	46	388.9	388.9	388.9
113.0	15638	-61.3	-91.3	1	0.00	240	49	395.0	395.0	395.0
109.2	15850	-63.0	-92.5	1	0.00	245	52	395.6	395.6	395.6
106.0	16032	-64.5	-93.5	1	0.00	248	48	396.2	396.2	396.2
102.0	16268	-63.3	-92.3	1	0.00	253	42	402.9	402.9	402.9
100.0	16390	-64.1	-93.1	1	0.00	255	39	403.6	403.6	403.6
94.5	16734	-66.1	-93.1	1	0.00	265	43	406.3	406.3	406.3
94.0	16764	-66.1	-93.1	1	0.00	265	43	406.9	406.9	406.9
89.4	17069	-65.7	-93.0	1	0.00	275	23	413.6	413.6	413.6
80.9	17678	-64.9	-92.8	1	0.00	260	13	427.2	427.2	427.2
79.3	17801	-64.7	-92.7	1	0.00	252	13	430.0	430.0	430.0
77.0	17983	-65.4	-92.8	1	0.00	240	14	432.4	432.4	432.4
75.1	18131	-65.9	-92.9	1	0.00	250	14	434.2	434.3	434.2
73.2	18288	-64.9	-91.9	1	0.00	260	15	439.7	439.7	439.7
72.2	18371	-64.3	-91.3	1	0.00	262	13	442.6	442.6	442.6
70.0	18560	-65.1	-92.1	1	0.00	265	10	444.8	444.8	444.8
69.6	18593	-65.1	-92.2	1	0.00	265	10	445.5	445.5	445.5
67.3	18799	-65.1	-93.1	1	0.00	251	10	449.8	449.8	449.8
57.0	19812	-63.0	-92.5	1	0.00	185	10	476.4	476.4	476.4
54.3	20117	-62.3	-92.3	1	0.00	0	0	484.7	484.7	484.7
54.1	20135	-62.3	-92.3	1	0.00	3	1	485.2	485.2	485.2
51.8	20402	-63.1	-93.1	1	0.00	48	9	489.4	489.4	489.4
51.1	20486	-61.7	-91.7	1	0.00	62	11	494.6	494.6	494.6
50.0	20620	-62.5	-92.5	1	0.00	85	15	495.8	495.8	495.8
49.2	20719	-62.9	-92.9	1	0.00	90	16	497.1	497.1	497.1

49.1	20726	-62.9	-92.9	1	0.00	90	16	497.4	497.4	497.4
47.0	21003	-60.7	-91.7	1	0.00	131	12	508.9	508.9	508.9
46.8	21031	-60.7	-91.7	1	0.00	135	12	509.5	509.6	509.5
44.5	21336	-61.0	-92.0	1	0.00	85	12	516.1	516.1	516.1
43.6	21469	-61.1	-92.1	1	0.00	92	12	519.0	519.0	519.0
42.4	21641	-60.3	-91.3	1	0.00	100	11	525.0	525.0	525.0
40.6	21914	-59.1	-90.1	1	0.00	73	15	534.7	534.7	534.7
40.4	21946	-59.2	-90.2	1	0.00	70	16	535.2	535.3	535.2
38.5	22250	-59.9	-90.9	1	0.00	100	17	540.9	540.9	540.9
37.5	22411	-60.3	-91.3	1	0.00	87	19	543.9	543.9	543.9
36.6	22555	-60.0	-91.1	1	0.00	75	20	548.1	548.2	548.1
34.9	22860	-59.5	-90.8	1	0.00	60	18	557.3	557.3	557.3
31.7	23470	-58.3	-90.1	1	0.00	75	26	576.0	576.1	576.0
30.2	23774	-57.8	-89.7	1	0.00	70	23	585.6	585.6	585.6
30.0	23810	-57.7	-89.7	1	0.00	70	21	586.8	586.8	586.8
27.4	24384	-57.1	-89.1	1	0.01	90	25	603.8	603.9	603.8
26.1	24689	-56.8	-88.8	1	0.01	75	21	613.0	613.1	613.0
24.9	24994	-56.5	-88.5	1	0.01	60	27	622.5	622.5	622.5
23.7	25298	-56.2	-88.2	1	0.01	85	29	632.0	632.0	632.0
22.8	25549	-55.9	-87.9	1	0.01	85	31	639.9	640.0	639.9
22.1	25747	-57.5	-89.5	1	0.01	85	33	640.9	641.0	640.9
20.2	26317	-55.9	-87.9	1	0.01	85	37	662.4	662.5	662.4
20.0	26380	-56.1	-88.1	1	0.01	85	38	663.7	663.8	663.7
19.3	26606	-56.9	-88.9	1	0.01	80	39	668.0	668.1	668.0
17.8	27127	-54.9	-87.3	1	0.01	70	42	690.0	690.1	690.0
17.0	27432	-53.7	-86.4	1	0.01	75	44	703.2	703.4	703.2
16.0	27808	-52.3	-85.3	1	0.02	78	48	719.8	720.0	719.8
13.7	28826	-46.5	-81.5	1	0.04	84	57	772.2	772.6	772.2
13.4	28956	-46.5	-81.5	1	0.04	85	58	776.5	776.9	776.5
12.3	29566	-46.6	-81.6	1	0.04	90	38	796.8	797.3	796.8
10.9	30345	-46.7	-81.7	1	0.05	77	44	823.6	824.2	823.6
10.7	30480	-46.1	-81.4	1	0.05	75	45	830.4	831.1	830.5
10.0	30920	-44.3	-80.3	1	0.06	85	48	853.1	853.9	853.1
9.3	31408	-42.3	-78.3	1	0.09	83	52	878.5	879.8	878.6
8.6	31936	-43.3	-79.3	1	0.09	80	56	894.5	895.7	894.6
8.5	32004	-43.0	-79.1	1	0.09	80	56	898.4	899.6	898.4
7.8	32614	-40.1	-77.2	1	0.14	85	43	933.1	934.9	933.2
7.8	32597	-40.1	-77.1	1	0.14	85	43	932.6	934.5	932.7
7.4	32956	-41.1	-78.1	1	0.12			942.7	944.4	942.8

## Station information and sounding indices

Station identifier: NKX  
 Station number: 72293  
 Observation time: 150401/0000  
 Station latitude: 32.85  
 Station longitude: -117.12  
 Station elevation: 137.0  
 Showalter index: 12.35  
 Lifted index: 3.56  
 LIFT computed using virtual temperature: 3.23  
 SWEAT index: 40.99  
 K index: -15.30  
 Cross totals index: -3.50  
 Vertical totals index: 27.50  
 Totals totals index: 24.00  
 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: 285.58  
 Pres [hPa] of the Lifted Condensation Level: 918.94  
 Mean mixed layer potential temperature: 292.57  
 Mean mixed layer mixing ratio: 9.97  
 1000 hPa to 500 hPa thickness: 5663.00  
 Precipitable water [mm] for entire sounding: 12.08

## 72293 NKX San Diego Observations at 12Z 01 Apr 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	128									
999.0	137	15.2	12.0	81	8.89	225	8	288.4	313.6	290.0
988.0	231	14.0	11.1	83	8.46	208	7	288.1	312.1	289.6
979.3	305	13.3	10.9	85	8.40	195	7	288.2	311.9	289.6
944.3	610	10.5	9.9	96	8.16	175	5	288.3	311.4	289.7
934.0	702	9.6	9.6	100	8.09	204	5	288.3	311.2	289.7
925.0	782	9.2	9.2	100	7.95	230	5	288.7	311.3	290.1
922.0	809	9.0	9.0	100	7.87	240	5	288.8	311.1	290.1
919.0	836	8.6	6.8	88	6.79	251	4	288.6	308.0	289.8
917.0	854	9.6	2.6	62	5.06	257	4	289.8	304.6	290.7
915.0	872	12.6	-0.4	41	4.08	264	4	293.1	305.3	293.8
913.0	891	15.0	-3.0	29	3.37	271	3	295.7	306.0	296.4
911.0	909	15.6	-3.4	27	3.28	278	3	296.5	306.6	297.1
910.5	914	15.6	-3.4	27	3.27	280	3	296.6	306.6	297.2
878.2	1219	14.2	-5.5	25	2.90	305	7	298.2	307.3	298.8
868.0	1318	13.8	-6.2	24	2.78	301	10	298.8	307.5	299.3
861.0	1386	13.2	1.2	44	4.87	299	11	298.9	313.6	299.7
854.0	1455	12.8	1.8	47	5.13	296	13	299.1	314.7	300.1
850.0	1494	12.8	-1.2	38	4.14	295	14	299.5	312.2	300.3
849.0	1504	12.8	-2.2	35	3.85	295	14	299.6	311.5	300.3
847.0	1524	12.6	-2.7	34	3.73	295	14	299.7	311.2	300.4
836.0	1633	11.8	-5.2	30	3.12	291	16	299.9	309.6	300.5
829.0	1703	12.6	-16.4	12	1.29	289	17	301.5	305.7	301.7
816.7	1829	12.9	-28.4	4	0.45	285	19	303.1	304.7	303.2
813.0	1867	13.0	-32.0	3	0.32	287	19	303.6	304.8	303.6
788.0	2128	11.8	-37.2	2	0.20	305	23	305.0	305.8	305.1
787.4	2134	11.8	-37.2	2	0.20	305	23	305.0	305.8	305.1
758.9	2438	9.8	-37.3	2	0.21	300	21	306.1	306.9	306.2
731.4	2743	7.8	-37.5	2	0.21	305	21	307.2	308.0	307.2
700.0	3105	5.4	-37.6	3	0.22	300	25	308.4	309.2	308.5
678.3	3353	3.6	-38.5	3	0.20	305	32	309.2	310.0	309.3
652.5	3658	1.4	-39.7	3	0.19	295	27	310.2	310.9	310.2
603.8	4267	-3.0	-42.0	3	0.16	295	24	312.1	312.7	312.1
558.7	4877	-7.4	-44.4	3	0.13	275	26	313.8	314.4	313.9
537.5	5182	-9.6	-45.5	4	0.12	280	27	314.7	315.2	314.7
517.1	5486	-11.8	-46.7	4	0.11	265	24	315.6	316.0	315.6
500.0	5750	-13.7	-47.7	4	0.10	270	28	316.3	316.7	316.3
477.4	6096	-16.3	-48.6	4	0.10	270	33	317.3	317.7	317.3
423.0	7002	-23.1	-51.1	6	0.08	277	43	319.7	320.1	319.8
405.2	7315	-25.7	-52.2	7	0.08	280	47	320.3	320.6	320.3
400.0	7410	-26.5	-52.5	7	0.07	280	46	320.5	320.8	320.5
388.5	7620	-28.2	-52.5	8	0.08	280	44	320.9	321.2	320.9
380.0	7778	-29.5	-52.5	9	0.08	277	43	321.2	321.6	321.2

372.0	7929	-31.1	-45.1	24	0.18	275	42	321.1	321.8	321.1
356.4	8230	-33.9	-45.1	31	0.19	270	40	321.2	322.0	321.3
350.0	8357	-35.1	-45.1	35	0.20	269	41	321.3	322.1	321.4
338.0	8599	-37.1	-48.1	31	0.15	268	44	321.8	322.4	321.8
312.1	9144	-42.1	-51.1	37	0.11	265	49	322.3	322.7	322.3
312.0	9146	-42.1	-51.1	37	0.11	265	49	322.3	322.7	322.3
300.0	9410	-43.7	-62.7	10	0.03	275	59	323.6	323.8	323.7
288.0	9683	-45.1	-66.1	8	0.02	271	66	325.4	325.5	325.5
284.9	9754	-45.7	-66.2	8	0.02	270	68	325.6	325.7	325.6
250.0	10610	-52.7	-66.7	17	0.02	285	60	327.6	327.7	327.6
243.0	10792	-54.3	-67.3	19	0.02	286	61	327.9	327.9	327.9
225.1	11278	-59.0	-68.2	29	0.02	290	64	327.9	328.0	327.9
224.0	11308	-59.3	-68.3	30	0.02	290	63	327.9	328.0	327.9
207.0	11798	-62.3	-70.3	33	0.01	281	54	330.7	330.8	330.7
204.0	11887	-62.3	-69.9	35	0.02	280	52	332.1	332.1	332.1
200.0	12010	-62.3	-69.3	39	0.02	270	56	333.9	334.0	333.9
188.0	12392	-63.7	-72.7	28	0.01	265	68	337.6	337.7	337.6
186.0	12458	-61.5	-71.5	25	0.01	266	69	342.2	342.3	342.2
180.0	12662	-61.9	-75.9	14	0.01	268	72	344.8	344.8	344.8
176.0	12802	-60.0	-76.7	10	0.01	270	74	350.1	350.1	350.1
175.0	12838	-59.6	-76.9	9	0.01	270	74	351.4	351.4	351.4
174.0	12873	-59.1	-77.1	8	0.01	270	72	352.8	352.8	352.8
172.0	12946	-57.7	-77.7	6	0.01	270	67	356.3	356.3	356.3
170.0	13020	-57.3	-79.3	5	0.00	270	62	358.1	358.1	358.1
167.7	13106	-57.7	-81.3	3	0.00	270	57	358.9	358.9	358.9
163.0	13286	-58.5	-85.5	2	0.00	269	59	360.4	360.4	360.4
152.2	13716	-58.7	-87.3	1	0.00	265	65	367.2	367.2	367.2
150.0	13810	-58.7	-87.7	1	0.00	265	65	368.8	368.8	368.8
145.0	14023	-58.9	-87.9	1	0.00	263	57	372.0	372.0	372.0
143.0	14110	-58.1	-88.1	1	0.00	262	53	374.9	374.9	374.9
138.2	14326	-59.0	-89.0	1	0.00	260	45	376.9	376.9	376.9
130.0	14707	-60.7	-90.7	1	0.00	258	45	380.6	380.6	380.6
123.0	15052	-59.7	-89.7	1	0.00	256	44	388.4	388.4	388.4
119.3	15240	-60.2	-89.6	1	0.00	255	44	390.9	390.9	390.9
117.0	15364	-60.5	-89.5	1	0.00	256	44	392.6	392.6	392.6
110.0	15746	-63.1	-91.1	1	0.00	260	43	394.6	394.6	394.6
100.0	16330	-64.9	-91.9	1	0.00	265	42	402.1	402.1	402.1
93.9	16713	-64.7	-91.7	1	0.00	256	25	409.8	409.8	409.8
93.1	16764	-64.9	-91.8	1	0.00	255	23	410.4	410.4	410.4
88.5	17069	-66.0	-92.5	1	0.00	230	27	414.2	414.2	414.2
84.2	17374	-67.0	-93.2	1	0.00	240	34	418.0	418.0	418.0
83.2	17444	-67.3	-93.3	1	0.00	235	33	418.9	418.9	418.9
79.5	17719	-63.9	-89.9	2	0.00	250	28	431.4	431.4	431.4
78.2	17820	-64.5	-90.5	2	0.00	256	27	432.2	432.2	432.2
76.2	17983	-63.2	-90.2	1	0.00	265	24	438.2	438.2	438.2
74.2	18142	-61.9	-89.9	1	0.00	249	19	444.2	444.2	444.2
72.5	18288	-62.2	-90.2	1	0.00	235	15	446.5	446.5	446.5
70.0	18500	-62.7	-90.7	1	0.00	240	14	449.9	449.9	449.9
65.6	18899	-64.9	-92.9	1	0.00	243	16	453.5	453.5	453.5
62.5	19202	-63.3	-91.8	1	0.00	245	17	463.6	463.6	463.6
59.6	19490	-61.7	-90.7	1	0.00	230	13	473.3	473.3	473.3
51.3	20422	-62.1	-92.1	1	0.00	180	2	493.1	493.1	493.1
51.3	20421	-62.1	-92.1	1	0.00	180	2	493.1	493.1	493.1
50.0	20580	-61.3	-92.3	1	0.00	165	2	498.6	498.6	498.6
45.3	21194	-60.1	-91.1	1	0.00	104	12	515.8	515.8	515.8
44.3	21336	-60.5	-91.3	1	0.00	90	14	518.1	518.1	518.1
41.3	21767	-61.9	-91.9	1	0.00	87	16	525.1	525.1	525.1
38.1	22267	-60.7	-91.7	1	0.00	84	19	540.4	540.4	540.4
35.0	22793	-62.5	-92.5	1	0.00	81	21	549.0	549.0	549.0

30.0	23750	-59.3	-90.3	1	0.00	75	26	582.4	582.4	582.4
28.8	24007	-57.5	-89.5	1	0.00	79	26	594.2	594.2	594.2
27.5	24298	-58.9	-89.9	1	0.00	84	27	598.2	598.2	598.2
27.1	24384	-58.6	-89.7	1	0.00	85	27	601.3	601.3	601.3
23.5	25291	-55.7	-87.7	1	0.01	85	31	635.0	635.1	635.0
20.0	26320	-54.9	-86.9	1	0.01	85	36	667.4	667.5	667.4
18.4	26852	-55.5	-87.5	1	0.01	80	38	681.6	681.7	681.6
16.8	27432	-54.7	-87.0	1	0.01	75	41	702.0	702.1	702.0
14.0	28603	-53.1	-86.1	1	0.02	73	47	745.1	745.3	745.1
12.2	29497	-49.3	-83.3	1	0.03	72	51	788.3	788.7	788.4
10.5	30480	-47.5	-82.2	1	0.04	70	56	829.3	829.9	829.3
10.0	30807	-46.9	-81.9	1	0.05			843.4	844.0	843.4
10.0	30785	-46.9	-81.9	1	0.05	75	54	842.4	843.0	842.5

## Station information and sounding indices

Station identifier: NKX  
 Station number: 72293  
 Observation time: 150401/1200  
 Station latitude: 32.85  
 Station longitude: -117.12  
 Station elevation: 137.0  
 Showalter index: 7.28  
 Lifted index: 7.48  
 LIFT computed using virtual temperature: 7.28  
 SWEAT index: 56.00  
 K index: -17.70  
 Cross totals index: 12.50  
 Vertical totals index: 26.50  
 Totals totals index: 39.00  
 Convective Available Potential Energy: 1.69  
 CAPE using virtual temperature: 2.27  
 Convective Inhibition: -0.01  
 CINS using virtual temperature: 0.00  
 Equilibrium Level: 918.00  
 Equilibrium Level using virtual temperature: 917.12  
 Level of Free Convection: 940.47  
 LFCT using virtual temperature: 941.27  
 Bulk Richardson Number: 0.03  
 Bulk Richardson Number using CAPV: 0.05  
 Temp [K] of the Lifted Condensation Level: 283.38  
 Pres [hPa] of the Lifted Condensation Level: 942.39  
 Mean mixed layer potential temperature: 288.24  
 Mean mixed layer mixing ratio: 8.37  
 1000 hPa to 500 hPa thickness: 5622.00  
 Precipitable water [mm] for entire sounding: 10.85

## 72293 NKX San Diego Observations at 00Z 02 Apr 2015

PRES	HGHT	TEMP	DWPT	RELH	MIXR	DRCT	SKNT	THTA	THTE	THTV
hPa	m	C	C	%	g/kg	deg	knot	K	K	K
1000.0	112									
997.0	137	21.6	13.6	60	9.91	290	11	295.0	323.7	296.8
992.0	181	20.6	13.6	64	9.96	286	11	294.4	323.2	296.2
977.7	305	18.1	12.4	69	9.34	275	12	293.1	320.1	294.8
968.0	391	16.4	11.6	73	8.93	269	9	292.2	317.9	293.8
943.3	610	14.4	10.4	77	8.47	255	3	292.4	316.8	293.9

941.0	631	14.2	10.3	77	8.42	249	3	292.4	316.6	293.9
928.0	749	14.2	8.2	67	7.40	217	1	293.6	315.1	294.9
925.0	776	14.6	6.6	59	6.65	210	1	294.2	313.7	295.4
918.0	840	16.2	2.2	39	4.91	215	1	296.5	311.2	297.4
910.1	914	16.0	-0.6	32	4.03	220	2	297.0	309.3	297.8
903.0	980	15.8	-3.2	27	3.36	253	2	297.5	307.8	298.1
884.0	1160	14.8	-3.2	29	3.43	341	4	298.3	308.9	298.9
877.9	1219	15.2	-10.9	15	1.90	10	4	299.3	305.4	299.6
875.0	1247	15.4	-14.6	11	1.42	7	5	299.8	304.4	300.0
861.0	1383	15.0	-14.0	12	1.51	355	8	300.7	305.7	301.0
854.0	1452	15.6	-23.4	5	0.68	349	10	302.1	304.4	302.2
850.0	1492	15.4	-24.6	5	0.62	345	11	302.3	304.4	302.4
846.8	1524	15.4	-25.2	5	0.59	320	14	302.6	304.6	302.7
816.8	1829	15.1	-31.1	3	0.35	325	15	305.4	306.6	305.4
812.0	1878	15.0	-32.0	2	0.32	327	15	305.8	307.0	305.9
787.4	2134	12.9	-32.0	3	0.33	335	13	306.3	307.5	306.4
759.0	2438	10.5	-32.0	3	0.35	320	12	306.9	308.1	306.9
731.7	2743	8.0	-32.0	4	0.36	325	10	307.4	308.7	307.4
700.0	3110	5.0	-32.0	5	0.38	320	11	308.0	309.4	308.1
679.2	3353	3.0	-33.6	5	0.33	325	10	308.5	309.7	308.5
654.0	3658	0.6	-35.6	5	0.28	305	15	309.1	310.1	309.1
643.0	3794	-0.5	-36.5	5	0.26	296	17	309.3	310.3	309.4
629.5	3962	-1.5	-38.3	4	0.22	285	19	310.0	310.9	310.1
605.7	4267	-3.4	-41.6	3	0.16	290	21	311.3	312.0	311.4
594.0	4422	-4.3	-43.3	3	0.14	286	22	312.0	312.5	312.0
560.1	4877	-7.9	-44.2	4	0.14	275	24	313.0	313.6	313.1
521.0	5437	-12.3	-45.3	5	0.13	272	32	314.3	314.8	314.3
500.0	5750	-14.3	-50.3	3	0.08	270	36	315.5	315.9	315.6
478.0	6090	-15.7	-50.7	3	0.08	265	38	317.9	318.2	317.9
477.6	6096	-15.7	-50.8	3	0.08	265	38	317.9	318.2	317.9
447.0	6593	-19.3	-55.3	3	0.05	265	42	319.5	319.7	319.5
435.0	6795	-20.7	-46.7	8	0.13	265	44	320.2	320.8	320.3
426.0	6949	-21.7	-38.7	20	0.32	265	45	320.9	322.1	320.9
400.0	7410	-25.5	-39.5	26	0.31	265	49	321.8	323.0	321.8
388.5	7620	-27.1	-38.8	32	0.34	270	54	322.4	323.7	322.4
380.0	7780	-28.3	-38.3	38	0.37	269	56	322.8	324.2	322.9
367.0	8028	-29.9	-43.9	24	0.21	269	59	323.9	324.8	324.0
351.0	8344	-32.3	-44.3	29	0.21	268	63	324.8	325.7	324.9
340.0	8567	-34.3	-47.3	26	0.16	267	66	325.1	325.7	325.1
321.0	8967	-37.5	-46.5	39	0.18	266	71	326.0	326.8	326.1
312.8	9144	-38.6	-50.9	26	0.11	265	73	326.9	327.3	326.9
311.0	9184	-38.9	-51.9	24	0.10	265	73	327.0	327.5	327.1
300.0	9430	-40.9	-51.9	30	0.11	265	74	327.6	328.1	327.6
284.0	9799	-44.5	-53.5	36	0.09	265	75	327.6	328.0	327.6
272.0	10087	-46.5	-58.5	24	0.05	265	75	328.8	329.0	328.8
250.0	10640	-51.3	-63.3	23	0.03	265	76	329.7	329.8	329.7
229.0	11207	-56.1	-67.1	24	0.02	272	85	330.7	330.8	330.7
208.0	11816	-60.5	-67.5	39	0.02	279	94	333.1	333.1	333.1
205.6	11887	-61.1	-68.1	39	0.02	280	95	333.2	333.3	333.2
204.0	11937	-61.5	-68.5	39	0.02	280	95	333.3	333.4	333.3
200.0	12060	-62.5	-69.5	38	0.02	280	94	333.6	333.7	333.6
188.0	12437	-65.3	-71.3	43	0.01	280	88	335.1	335.1	335.1
179.0	12735	-64.3	-73.3	28	0.01	273	80	341.4	341.5	341.4
168.4	13106	-64.5	-77.5	15	0.01	265	69	347.2	347.2	347.2
166.0	13194	-64.5	-78.5	13	0.01	264	72	348.5	348.6	348.5
163.0	13306	-61.9	-77.9	10	0.01	262	75	354.7	354.8	354.7
160.0	13421	-60.5	-80.5	6	0.00	260	79	359.0	359.0	359.0
153.0	13698	-61.3	-85.3	3	0.00	255	87	362.2	362.2	362.2
152.5	13716	-61.2	-85.4	3	0.00	255	88	362.6	362.6	362.6

150.0	13820	-60.9	-85.9	2	0.00	260	84	365.0	365.0	365.0
144.0	14075	-59.7	-87.7	1	0.00	262	74	371.3	371.3	371.3
140.0	14251	-60.7	-89.7	1	0.00	263	67	372.6	372.6	372.6
131.7	14630	-61.0	-90.8	1	0.00	265	52	378.5	378.6	378.5
130.0	14712	-61.1	-91.1	1	0.00	264	52	379.8	379.8	379.8
127.0	14857	-62.1	-91.1	1	0.00	263	52	380.6	380.6	380.6
119.4	15240	-62.2	-91.2	1	0.00	260	53	387.1	387.1	387.1
117.0	15364	-62.3	-91.3	1	0.00	259	52	389.2	389.2	389.2
112.0	15633	-63.7	-92.7	1	0.00	258	49	391.5	391.5	391.5
110.0	15744	-63.3	-92.3	1	0.00	258	47	394.3	394.3	394.3
100.0	16330	-63.3	-92.3	1	0.00	255	41	405.2	405.2	405.2
93.1	16764	-64.1	-93.1	1	0.00	255	30	411.8	411.8	411.8
88.6	17069	-64.7	-93.7	1	0.00	240	36	416.5	416.6	416.5
84.3	17374	-65.3	-94.3	1	0.00	260	45	421.3	421.3	421.3
81.7	17564	-65.7	-94.7	1	0.00	266	31	424.3	424.3	424.3
80.2	17678	-65.3	-94.4	1	0.00	270	22	427.5	427.5	427.5
76.3	17983	-64.1	-93.5	1	0.00	255	23	436.0	436.1	436.0
72.6	18288	-62.9	-92.7	1	0.00	275	19	444.8	444.8	444.8
70.0	18510	-62.1	-92.1	1	0.00	285	14	451.2	451.2	451.2
69.8	18528	-62.1	-92.1	1	0.00	285	13	451.6	451.6	451.6
69.1	18593	-62.4	-92.3	1	0.00	285	11	452.2	452.3	452.2
65.7	18898	-63.9	-93.3	1	0.00	260	6	455.5	455.5	455.5
62.7	19187	-65.3	-94.3	1	0.00	246	10	458.6	458.6	458.6
59.5	19507	-64.4	-93.9	1	0.00	230	14	467.4	467.4	467.4
56.6	19812	-63.6	-93.5	1	0.00	265	12	475.9	475.9	475.9
51.3	20422	-61.9	-92.7	1	0.00	175	1	493.5	493.5	493.5
50.0	20580	-61.5	-92.5	1	0.00	130	5	498.1	498.1	498.1
48.6	20757	-59.9	-90.9	1	0.00	112	9	506.0	506.0	506.0
46.5	21031	-60.6	-91.2	1	0.00	85	14	510.6	510.6	510.6
44.3	21336	-61.5	-91.6	1	0.00	90	7	515.8	515.8	515.8
43.7	21418	-61.7	-91.7	1	0.00	86	9	517.2	517.2	517.2
42.2	21641	-60.7	-91.1	1	0.00	75	15	524.9	524.9	524.9
40.1	21946	-59.4	-90.4	1	0.00	75	19	535.6	535.6	535.6
40.0	21970	-59.3	-90.3	1	0.00	77	19	536.4	536.5	536.4
36.4	22555	-59.2	-90.2	1	0.00	115	12	551.3	551.3	551.3
34.7	22861	-59.1	-90.1	1	0.00	60	13	559.2	559.2	559.2
34.7	22860	-59.1	-90.1	1	0.00	60	13	559.2	559.2	559.2
30.6	23647	-61.1	-92.1	1	0.00	86	14	574.2	574.3	574.2
30.0	23774	-60.7	-91.7	1	0.00	90	13	578.7	578.7	578.7
30.0	23770	-60.7	-91.7	1	0.00	90	14	578.6	578.6	578.6
27.2	24384	-59.3	-90.3	1	0.00	65	20	599.1	599.1	599.1
26.1	24637	-58.7	-89.7	1	0.00	75	20	607.7	607.8	607.7
24.6	24994	-58.6	-89.6	1	0.01	90	19	618.0	618.0	618.0
22.7	25511	-58.5	-89.5	1	0.01	82	25	633.0	633.1	633.0
22.4	25594	-57.1	-89.1	1	0.01	81	26	639.6	639.7	639.6
20.9	26031	-56.9	-88.9	1	0.01	74	31	653.0	653.1	653.0
20.0	26310	-54.9	-86.9	1	0.01	70	34	667.4	667.5	667.4
19.6	26439	-54.3	-87.3	1	0.01	70	35	673.1	673.2	673.1
19.4	26518	-54.4	-87.2	1	0.01	70	36	675.2	675.3	675.2
18.1	26949	-54.9	-86.9	1	0.01	77	35	686.7	686.8	686.7
16.8	27432	-53.7	-86.2	1	0.01	85	34	705.5	705.6	705.5
15.6	27905	-52.5	-85.5	1	0.02	80	34	724.4	724.5	724.4
14.4	28420	-53.9	-86.9	1	0.01	75	34	736.4	736.6	736.4
13.9	28649	-51.1	-85.1	1	0.02	73	34	753.4	753.6	753.4
12.7	29234	-52.5	-85.5	1	0.02	67	33	768.2	768.5	768.2
12.3	29442	-51.1	-85.1	1	0.02	65	33	780.2	780.5	780.2
11.2	30051	-51.3	-84.3	1	0.03	59	33	800.6	801.0	800.6
10.5	30480	-49.9	-83.8	1	0.03	55	33	821.0	821.5	821.1
10.4	30534	-49.7	-83.7	1	0.03	56	34	823.6	824.1	823.7



10.0	30790	-50.9	-84.9	1	0.03	60	36	828.5	828.8	828.5
9.9	30856	-49.5	-83.5	1	0.04	61	36	836.1	836.6	836.1
9.1	31409	-47.7	-82.7	1	0.05	68	35	863.3	864.0	863.4
8.3	32018	-47.1	-82.1	1	0.06			888.7	889.5	888.7
8.3	32004	-47.1	-82.1	1	0.06	75	34	888.1	888.9	888.2

## Station information and sounding indices

```

Station identifier: NKX
Station number: 72293
Observation time: 150402/0000
Station latitude: 32.85
Station longitude: -117.12
Station elevation: 137.0
Showalter index: 11.68
Lifted index: 2.63
LIFT computed using virtual temperature: 2.32
SWEAT index: 57.98
K index: -31.90
Cross totals index: -10.30
Vertical totals index: 29.70
Totals totals index: 19.40
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: 283.83
Pres [hPa] of the Lifted Condensation Level: 895.09
Mean mixed layer potential temperature: 292.97
Mean mixed layer mixing ratio: 9.11
1000 hPa to 500 hPa thickness: 5638.00
Precipitable water [mm] for entire sounding: 10.11

```

## 72293 NKX San Diego Observations at 12Z 02 Apr 2015

PRES	HGHT	TEMP	DWPT	RELH	MIXR	DRCT	SKNT	THTA	THTE	THTV
hPa	m	C	C	%	g/kg	deg	knot	K	K	K
1000.0	119									
998.0	137	13.2	11.4	89	8.55	145	3	286.5	310.5	288.0
995.0	162	14.6	12.7	88	9.35	153	3	288.2	314.5	289.8
990.0	205	14.8	12.8	88	9.46	167	3	288.8	315.5	290.4
978.3	305	14.0	12.1	88	9.11	200	3	288.9	314.7	290.5
943.4	610	11.5	9.7	89	8.09	180	7	289.5	312.5	290.9
925.0	775	10.2	8.5	89	7.58	170	8	289.7	311.4	291.1
909.6	914	8.9	7.9	93	7.39	170	8	289.8	311.0	291.1
903.0	975	8.4	7.6	95	7.30	193	9	289.9	310.8	291.2
893.0	1067	8.6	4.6	76	5.99	228	12	291.0	308.4	292.1
885.0	1142	11.0	-7.0	28	2.57	256	13	294.2	302.1	294.7
876.9	1219	12.5	-13.7	15	1.53	285	15	296.5	301.4	296.8
875.0	1237	12.8	-15.2	13	1.35	285	15	297.1	301.4	297.3
856.0	1421	13.8	-35.2	2	0.23	281	20	300.0	300.8	300.0
850.0	1480	13.6	-35.4	2	0.22	280	22	300.4	301.2	300.4
815.2	1829	11.8	-31.1	3	0.35	280	22	302.0	303.3	302.1
794.0	2049	10.6	-28.4	5	0.47	280	24	303.1	304.7	303.2
785.9	2134	10.3	-28.9	5	0.45	280	25	303.7	305.3	303.8

757.6	2438	9.4	-30.5	4	0.40	265	31	305.9	307.3	305.9
752.0	2500	9.2	-30.8	4	0.39	264	31	306.3	307.7	306.4
730.0	2743	7.5	-32.1	4	0.36	260	33	307.0	308.3	307.1
700.0	3088	5.0	-34.0	4	0.31	265	35	308.0	309.1	308.1
652.0	3658	0.7	-36.2	4	0.27	260	39	309.4	310.4	309.5
627.8	3962	-1.6	-37.4	5	0.25	270	41	310.1	311.1	310.2
613.0	4154	-3.1	-38.1	5	0.23	267	42	310.6	311.5	310.6
604.2	4267	-3.5	-39.2	4	0.21	265	42	311.4	312.2	311.5
576.0	4645	-4.7	-42.7	3	0.15	265	43	314.3	314.9	314.3
572.0	4699	-4.7	-31.7	10	0.47	265	43	314.9	316.6	315.0
566.0	4782	-5.5	-22.5	25	1.12	265	43	314.9	318.8	315.1
559.2	4877	-6.4	-21.8	28	1.20	265	43	315.0	319.2	315.2
544.0	5092	-8.3	-20.3	37	1.41	264	45	315.2	320.0	315.4
504.0	5679	-12.9	-22.9	43	1.21	260	50	316.5	320.8	316.8
500.0	5740	-13.3	-23.3	43	1.18	260	51	316.8	320.9	317.0
477.1	6096	-15.7	-24.7	46	1.09	255	60	318.1	321.9	318.3
477.0	6097	-15.7	-24.7	46	1.09	255	60	318.1	321.9	318.3
458.0	6401	-18.3	-25.5	53	1.05	250	62	318.6	322.3	318.8
445.0	6617	-20.1	-26.1	59	1.03	251	62	318.9	322.6	319.1
439.0	6717	-20.7	-27.7	53	0.90	252	63	319.4	322.6	319.6
438.0	6734	-20.9	-28.9	49	0.81	252	63	319.4	322.3	319.5
433.0	6819	-20.9	-41.9	13	0.22	252	63	320.4	321.3	320.4
427.0	6922	-21.3	-45.3	10	0.16	253	63	321.2	321.8	321.2
405.0	7310	-24.9	-29.9	63	0.79	255	64	321.4	324.3	321.6
400.0	7400	-25.7	-30.2	66	0.78	255	64	321.5	324.4	321.7
399.0	7418	-25.9	-30.4	66	0.77	255	64	321.5	324.3	321.6
388.0	7620	-26.8	-34.1	50	0.55	255	65	322.8	324.9	322.9
385.0	7676	-27.1	-35.1	47	0.50	255	66	323.2	325.1	323.3
382.0	7732	-27.5	-37.5	38	0.40	256	66	323.4	324.9	323.5
372.0	7922	-29.1	-40.1	34	0.31	257	68	323.7	324.9	323.8
351.0	8334	-32.7	-38.7	55	0.39	261	73	324.3	325.8	324.4
327.0	8828	-36.9	-41.4	63	0.31	265	78	325.1	326.4	325.2
326.5	8839	-37.0	-41.5	62	0.31	265	78	325.2	326.4	325.3
317.0	9043	-38.1	-44.1	53	0.24	262	79	326.4	327.3	326.4
312.3	9144	-38.6	-44.2	55	0.24	260	79	327.0	327.9	327.0
302.0	9375	-39.9	-44.6	61	0.24	256	82	328.4	329.4	328.4
300.0	9420	-40.3	-45.1	60	0.23	255	82	328.4	329.4	328.5
279.0	9912	-43.7	-48.4	60	0.17	253	84	330.4	331.1	330.5
250.0	10640	-49.7	-54.6	56	0.09	250	86	332.1	332.4	332.1
237.4	10973	-52.4	-57.2	56	0.07	245	86	332.8	333.1	332.9
225.0	11320	-55.3	-60.0	56	0.05	247	88	333.6	333.9	333.6
219.0	11492	-56.7	-62.7	47	0.04	247	88	334.0	334.2	334.1
200.0	12060	-61.7	-65.1	64	0.03	250	91	334.9	335.0	334.9
190.0	12375	-64.1	-67.0	67	0.02	252	93	336.0	336.1	336.0
184.0	12571	-64.7	-68.1	63	0.02	253	95	338.1	338.2	338.1
176.0	12841	-66.5	-70.2	60	0.02	255	97	339.5	339.6	339.5
171.0	13014	-66.8	-70.3	61	0.02	260	99	341.8	341.9	341.8
169.0	13085	-66.9	-70.4	61	0.02	260	99	342.8	342.9	342.8
168.4	13106	-66.8	-70.5	60	0.02	260	99	343.2	343.3	343.2
163.0	13304	-66.3	-71.1	51	0.02	258	94	347.3	347.4	347.3
158.0	13493	-64.1	-72.1	33	0.01	257	89	354.2	354.2	354.2
152.3	13716	-64.5	-76.7	17	0.01	255	83	357.2	357.2	357.2
150.0	13810	-64.7	-78.7	13	0.01	255	86	358.4	358.5	358.4
148.0	13892	-65.3	-80.3	11	0.00	255	87	358.8	358.8	358.8
146.0	13975	-64.9	-80.9	9	0.00	255	89	360.9	360.9	360.9
143.0	14101	-65.9	-82.9	8	0.00	255	91	361.3	361.3	361.3
140.0	14230	-65.9	-83.9	7	0.00	255	93	363.5	363.5	363.5
137.8	14326	-64.9	-83.6	6	0.00	255	94	366.9	366.9	366.9
137.0	14362	-64.5	-83.5	6	0.00	255	93	368.2	368.2	368.2

129.0	14728	-66.1	-87.1	4	0.00	257	87	371.7	371.7	371.7
124.0	14969	-65.3	-87.3	3	0.00	259	83	377.4	377.4	377.4
119.0	15218	-66.7	-88.7	3	0.00	260	78	379.3	379.3	379.3
118.6	15240	-66.6	-88.7	3	0.00	260	78	379.8	379.8	379.8
114.0	15479	-65.7	-88.7	3	0.00	261	72	385.8	385.8	385.8
110.0	15698	-61.3	-86.3	2	0.00	262	67	398.0	398.0	398.0
100.0	16290	-61.1	-90.1	1	0.00	265	54	409.4	409.4	409.4
86.0	17224	-61.5	-91.5	1	0.00	257	32	426.6	426.6	426.6
76.0	17983	-66.5	-92.8	1	0.00	250	14	431.5	431.5	431.5
75.3	18036	-66.9	-92.9	1	0.00	250	14	431.8	431.8	431.8
72.2	18288	-64.7	-91.3	2	0.00	275	25	441.5	441.6	441.5
70.0	18480	-63.1	-90.1	2	0.00	260	27	449.1	449.1	449.1
68.7	18593	-62.1	-89.8	1	0.00	260	28	453.6	453.6	453.6
66.4	18807	-60.1	-89.1	1	0.00	264	23	462.4	462.4	462.4
65.4	18898	-60.6	-89.5	1	0.00	265	21	463.3	463.3	463.3
59.3	19507	-63.7	-91.8	1	0.00	35	2	469.4	469.4	469.4
59.0	19538	-63.9	-91.9	1	0.00	43	3	469.7	469.7	469.7
53.7	20117	-61.8	-90.7	1	0.00	200	14	487.4	487.4	487.4
53.0	20199	-61.5	-90.5	1	0.00	207	13	489.9	489.9	489.9
50.0	20560	-62.1	-91.1	1	0.00	240	9	496.7	496.7	496.7
44.1	21336	-62.0	-91.4	1	0.00	100	2	515.0	515.0	515.0
38.1	22250	-62.0	-91.7	1	0.00	50	21	537.4	537.4	537.4
34.4	22877	-61.9	-91.9	1	0.00	67	21	553.2	553.3	553.2
30.4	23647	-59.5	-90.5	1	0.00	88	21	579.6	579.7	579.6
30.0	23730	-59.5	-90.5	1	0.00	90	21	581.9	581.9	581.9
27.0	24384	-59.6	-90.6	1	0.00	105	20	599.1	599.1	599.1
25.9	24649	-59.7	-90.7	1	0.00	92	18	606.2	606.3	606.2
25.7	24689	-59.4	-90.5	1	0.00	90	18	608.1	608.2	608.1
24.5	24994	-57.3	-89.2	1	0.01	105	15	622.7	622.8	622.7
24.4	25024	-57.1	-89.1	1	0.01	103	15	624.2	624.2	624.2
23.4	25298	-57.3	-89.3	1	0.01	80	16	631.4	631.5	631.4
21.2	25908	-57.7	-89.7	1	0.01	90	13	647.9	648.0	647.9
20.2	26213	-57.9	-89.9	1	0.01	60	19	656.3	656.4	656.3
20.1	26249	-57.9	-89.9	1	0.01	60	19	657.3	657.3	657.3
20.0	26280	-57.7	-89.7	1	0.01	60	19	658.8	658.9	658.8
18.4	26822	-56.5	-88.5	1	0.01	90	17	679.0	679.1	679.0
17.5	27127	-55.8	-87.8	1	0.01	55	21	690.7	690.8	690.7
17.2	27235	-55.5	-87.5	1	0.01	57	22	694.9	695.0	694.9
16.7	27432	-56.2	-88.2	1	0.01	60	24	698.8	698.9	698.8
16.0	27694	-57.1	-89.1	1	0.01	69	27	704.1	704.2	704.1
15.9	27737	-57.0	-89.0	1	0.01	70	28	705.9	706.0	705.9
14.4	28346	-55.4	-87.4	1	0.01	65	29	730.8	731.0	730.8
14.0	28542	-54.9	-86.9	1	0.01	63	27	739.0	739.1	739.0
13.1	28956	-55.0	-87.0	1	0.02	60	23	752.6	752.8	752.7
11.9	29566	-55.0	-87.0	1	0.02	95	21	773.2	773.4	773.2
11.4	29870	-55.1	-87.1	1	0.02	70	20	783.7	783.9	783.7
10.8	30197	-55.1	-87.1	1	0.02	84	15	795.1	795.4	795.1
10.8	30175	-55.1	-87.1	1	0.02	85	15	794.4	794.6	794.4
10.4	30439	-53.5	-86.5	1	0.02	72	19	809.6	809.9	809.6
10.3	30480	-53.6	-86.6	1	0.02	70	20	810.6	810.9	810.7
10.0	30690	-54.3	-87.3	1	0.02	70	18	815.8	816.0	815.8
9.9	30755	-54.3	-87.3	1	0.02	71	18	818.1	818.4	818.1
9.0	31394	-50.8	-84.7	1	0.03	80	15	855.1	855.5	855.1
8.9	31444	-50.5	-84.5	1	0.04	77	16	858.0	858.5	858.1
8.6	31699	-50.2	-84.2	1	0.04	60	20	868.8	869.3	868.8
8.2	32004	-49.9	-83.8	1	0.04	75	19	881.8	882.4	881.9
7.8	32309	-49.5	-83.5	1	0.05	35	21	895.0	895.7	895.1
7.4	32653	-49.1	-83.1	1	0.05	53	18	910.2	911.0	910.2
7.4	32614	-49.1	-83.2	1	0.05	45	19	908.5	909.2	908.5

7.1	32918	-47.7	-82.4	1	0.06	110	10	926.6	927.5	926.7
7.0	33020	-47.1	-82.1	1	0.07	80	9	933.0	934.0	933.1
6.8	33223	-47.7	-82.7	1	0.06	50	20	938.9	939.8	939.0
6.7	33309	-47.9	-82.9	1	0.06			941.4	942.3	941.5

## Station information and sounding indices

```

Station identifier: NKX
Station number: 72293
Observation time: 150402/1200
Station latitude: 32.85
Station longitude: -117.12
Station elevation: 137.0
Showalter index: 14.86
Lifted index: 6.69
LIFT computed using virtual temperature: 6.64
SWEAT index: 95.01
K index: -47.50
Cross totals index: -22.10
Vertical totals index: 26.90
Totals totals index: 4.80
Convective Available Potential Energy: 3.13
CAPE using virtual temperature: 4.93
Convective Inhibition: -1.17
CINS using virtual temperature: -0.58
Equilibrium Level: 892.83
Equilibrium Level using virtual temperature: 891.62
Level of Free Convection: 923.91
LFCT using virtual temperature: 928.77
Bulk Richardson Number: 0.03
Bulk Richardson Number using CAPV: 0.05
Temp [K] of the Lifted Condensation Level: 284.08
Pres [hPa] of the Lifted Condensation Level: 941.94
Mean mixed layer potential temperature: 288.99
Mean mixed layer mixing ratio: 8.80
1000 hPa to 500 hPa thickness: 5621.00
Precipitable water [mm] for entire sounding: 12.62

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## 72293 NKX San Diego Observations at 00Z 03 Apr 2015

PRES	HGHT	TEMP	DWPT	RELH	MIXR	DRCT	SKNT	THTA	THTE	THTV
hPa	m	C	C	%	g/kg	deg	knot	K	K	K
1000.0	124									
999.0	137	20.2	12.2	60	9.01	280	9	293.4	319.5	295.0
994.0	180	19.6	11.6	60	8.70	272	9	293.2	318.4	294.8
979.5	305	17.4	10.8	65	8.38	250	9	292.3	316.4	293.7
964.0	440	15.0	10.0	72	8.05	254	9	291.2	314.3	292.6
944.6	610	13.4	9.5	77	7.92	260	8	291.3	314.1	292.7
925.0	786	11.8	8.9	82	7.79	270	1	291.4	313.8	292.7
918.0	850	11.2	8.8	85	7.80	315	1	291.4	313.8	292.8
911.0	914	12.1	7.7	74	7.27	0	0	292.9	314.0	294.2
902.0	997	13.2	6.2	63	6.63	31	3	294.9	314.4	296.1
892.0	1091	13.0	6.0	62	6.61	67	6	295.6	315.2	296.8
887.0	1138	13.4	3.4	51	5.54	84	7	296.5	313.1	297.5
878.5	1219	13.1	-1.4	36	3.94	115	10	297.1	309.1	297.8
874.0	1262	13.0	-4.0	30	3.27	113	10	297.4	307.4	298.0
865.0	1349	12.2	-5.8	28	2.88	110	10	297.4	306.4	297.9

859.0	1407	12.4	-16.6	12	1.22	108	11	298.2	302.2	298.4
850.0	1495	12.4	-27.6	4	0.47	105	11	299.1	300.8	299.2
844.0	1554	12.6	-32.4	3	0.30	98	10	299.9	301.0	300.0
818.0	1815	10.6	-38.4	2	0.17	67	4	300.5	301.1	300.5
816.6	1829	10.7	-38.4	2	0.17	65	4	300.7	301.4	300.7
798.0	2021	11.4	-37.6	2	0.19	30	5	303.5	304.2	303.5
787.2	2134	10.9	-38.1	2	0.18	10	6	304.1	304.8	304.2
758.9	2438	9.5	-39.5	2	0.16	315	8	305.8	306.4	305.9
757.0	2459	9.4	-39.6	2	0.16	313	8	305.9	306.6	306.0
731.2	2743	7.3	-41.3	2	0.14	290	13	306.7	307.2	306.7
704.5	3048	5.0	-43.1	2	0.12	295	17	307.4	307.9	307.4
700.0	3101	4.6	-43.4	2	0.12	295	18	307.6	308.0	307.6
678.1	3353	2.8	-45.0	2	0.10	275	17	308.3	308.7	308.3
652.6	3658	0.5	-46.9	1	0.09	295	18	309.1	309.5	309.2
604.4	4267	-4.0	-50.8	1	0.06	295	19	310.8	311.1	310.8
559.7	4877	-8.5	-54.6	1	0.04	275	21	312.4	312.6	312.4
548.0	5045	-9.7	-55.7	1	0.04	273	25	312.9	313.0	312.9
525.0	5376	-10.5	-56.5	1	0.03	269	33	315.7	315.9	315.8
512.0	5569	-12.1	-57.1	1	0.03	267	38	316.1	316.2	316.1
500.0	5750	-12.9	-58.9	1	0.03	265	43	317.2	317.4	317.2
483.0	6013	-14.1	-54.1	2	0.05	265	51	318.9	319.1	318.9
479.0	6076	-14.3	-35.3	15	0.40	265	53	319.4	320.9	319.5
477.7	6096	-14.5	-35.2	15	0.40	265	54	319.5	321.0	319.5
422.0	7020	-22.7	-32.7	40	0.58	258	61	320.5	322.6	320.6
410.0	7230	-24.1	-33.1	43	0.58	256	63	321.3	323.5	321.4
400.0	7410	-25.3	-31.3	57	0.70	255	64	322.0	324.6	322.2
393.0	7538	-26.3	-30.6	67	0.77	255	66	322.4	325.2	322.5
388.5	7620	-27.0	-31.3	67	0.73	255	68	322.5	325.2	322.7
359.0	8184	-31.5	-36.0	64	0.50	252	67	323.8	325.7	323.9
341.6	8534	-33.6	-38.5	61	0.40	250	67	325.6	327.1	325.6
341.0	8546	-33.7	-38.6	61	0.40	250	67	325.6	327.2	325.7
337.0	8629	-34.3	-41.3	49	0.31	251	69	325.9	327.1	326.0
318.0	9031	-37.9	-43.9	53	0.25	254	76	326.4	327.3	326.4
312.8	9144	-38.7	-45.3	49	0.21	255	78	326.8	327.7	326.9
310.0	9206	-39.1	-46.1	47	0.20	254	80	327.1	327.9	327.1
300.0	9430	-40.1	-48.1	42	0.16	250	86	328.7	329.4	328.8
290.0	9660	-41.3	-49.3	42	0.15	249	90	330.2	330.8	330.2
286.0	9754	-42.1	-48.1	52	0.17	248	92	330.4	331.1	330.4
276.0	9994	-43.9	-48.9	57	0.16	247	96	331.2	331.8	331.2
261.1	10363	-46.5	-52.5	50	0.11	245	103	332.7	333.1	332.7
261.0	10366	-46.5	-52.5	50	0.11	245	103	332.7	333.2	332.7
250.0	10650	-48.9	-53.6	58	0.10	245	104	333.2	333.7	333.3
237.0	11000	-51.9	-58.9	43	0.06	244	105	333.8	334.1	333.8
215.0	11625	-57.7	-64.7	40	0.03	242	107	334.3	334.4	334.3
201.0	12049	-60.1	-68.1	34	0.02	240	109	336.9	337.1	337.0
200.0	12080	-60.7	-68.7	34	0.02	240	109	336.5	336.6	336.5
199.0	12111	-61.0	-68.9	34	0.02	240	109	336.5	336.6	336.5
196.4	12192	-61.7	-69.4	35	0.02	240	109	336.6	336.7	336.6
178.0	12791	-67.1	-73.1	42	0.01	245	98	337.4	337.4	337.4
172.0	12997	-67.1	-73.1	42	0.01	243	91	340.7	340.8	340.7
168.0	13139	-64.9	-72.9	32	0.01	242	86	346.7	346.7	346.7
165.0	13249	-64.9	-74.9	24	0.01	241	82	348.5	348.5	348.5
160.7	13411	-63.8	-77.3	14	0.01	240	77	353.1	353.1	353.1
159.0	13475	-63.3	-78.3	11	0.01	240	79	354.9	354.9	354.9
151.0	13790	-64.7	-82.7	7	0.00	240	91	357.8	357.8	357.8
150.0	13830	-64.5	-82.5	7	0.00	240	93	358.8	358.8	358.8
145.4	14021	-62.7	-83.0	5	0.00	245	94	365.1	365.2	365.1
144.0	14081	-62.1	-83.1	4	0.00	246	92	367.2	367.2	367.2
138.0	14344	-62.3	-87.3	2	0.00	249	81	371.3	371.3	371.3

133.0	14573	-60.1	-87.1	2	0.00	251	72	379.1	379.2	379.1
125.5	14935	-60.8	-88.6	1	0.00	255	57	384.3	384.3	384.3
124.0	15010	-60.9	-88.9	1	0.00	255	57	385.4	385.4	385.4
119.5	15240	-62.2	-89.7	1	0.00	255	58	387.0	387.0	387.0
116.0	15422	-63.3	-90.3	1	0.00	255	55	388.3	388.3	388.3
114.0	15529	-61.7	-89.7	1	0.00	255	53	393.2	393.2	393.2
106.0	15980	-61.5	-89.5	1	0.00	255	46	401.9	401.9	401.9
100.0	16340	-63.3	-91.3	1	0.00	255	40	405.2	405.2	405.2
92.0	16850	-66.1	-92.1	2	0.00	251	40	409.4	409.4	409.4
83.9	17414	-63.9	-90.9	1	0.00	247	40	424.8	424.8	424.8
80.3	17678	-64.5	-91.2	1	0.00	245	40	428.7	428.7	428.7
76.4	17983	-65.3	-91.7	2	0.00	265	30	433.3	433.4	433.3
72.7	18288	-66.0	-92.1	2	0.00	245	28	438.0	438.0	438.0
72.4	18314	-66.1	-92.1	2	0.00	247	28	438.4	438.4	438.4
70.0	18520	-64.7	-91.7	1	0.00	260	28	445.6	445.6	445.6
65.8	18898	-63.7	-91.2	1	0.00	275	19	455.8	455.8	455.8
62.6	19202	-62.9	-90.8	1	0.00	265	10	464.1	464.1	464.1
61.9	19270	-62.7	-90.7	1	0.00	272	10	466.0	466.0	466.0
59.0	19564	-64.3	-91.3	1	0.00	301	9	468.8	468.9	468.8
58.3	19637	-62.3	-90.3	1	0.00	308	8	474.9	475.0	474.9
56.5	19830	-61.1	-90.1	1	0.00	327	8	481.9	482.0	481.9
51.6	20387	-63.5	-91.5	1	0.00	21	6	489.0	489.0	489.0
50.0	20580	-62.3	-90.3	1	0.00	40	5	496.2	496.3	496.2
48.8	20730	-61.3	-90.3	1	0.00	65	6	502.1	502.1	502.1
45.1	21218	-62.9	-90.9	1	0.00	145	8	509.6	509.6	509.6
44.2	21336	-62.8	-91.0	1	0.00	165	8	512.7	512.7	512.7
40.3	21912	-62.3	-91.3	1	0.00	139	8	527.8	527.8	527.8
38.3	22228	-60.5	-90.5	1	0.00	124	7	540.1	540.1	540.1
36.3	22561	-61.7	-90.7	1	0.00	109	7	545.3	545.4	545.3
30.0	23750	-58.9	-88.9	1	0.00	55	6	583.5	583.5	583.5
29.2	23920	-58.1	-89.1	1	0.00	60	8	590.2	590.2	590.2
27.1	24384	-60.3	-89.5	1	0.00	75	15	596.7	596.8	596.7
26.9	24435	-60.5	-89.5	1	0.00	76	15	597.5	597.5	597.5
26.2	24601	-59.1	-89.1	1	0.01	77	14	605.9	606.0	605.9
23.1	25391	-59.5	-89.5	1	0.01	86	10	627.0	627.0	627.0
20.0	26300	-57.1	-88.1	1	0.01	95	6	660.6	660.7	660.7
19.8	26363	-56.9	-87.9	1	0.01	94	6	663.2	663.3	663.2
16.9	27361	-58.1	-88.1	1	0.01	86	11	690.0	690.1	690.0
16.7	27432	-57.9	-88.0	1	0.01	85	11	692.8	693.0	692.8
14.7	28243	-55.7	-86.7	1	0.01	106	10	726.1	726.2	726.1
12.9	29069	-57.5	-87.5	1	0.01	128	8	747.5	747.6	747.5
12.0	29528	-54.9	-85.9	1	0.02	140	8	772.2	772.5	772.3
11.6	29744	-55.9	-86.9	1	0.02	146	7	776.2	776.4	776.2
10.3	30508	-50.5	-83.5	1	0.04	169	6	823.0	823.4	823.0
10.3	30480	-50.7	-83.6	1	0.04	165	6	821.2	821.7	821.3
10.0	30700	-50.3	-83.3	1	0.04	195	6	830.7	831.2	830.7
9.2	31244	-50.1	-83.1	1	0.04	281	8	851.5	852.0	851.5
9.0	31394	-49.2	-83.0	1	0.05	305	9	860.5	861.1	860.5
8.7	31611	-47.9	-82.9	1	0.05			873.7	874.4	873.8

## Station information and sounding indices

Station identifier: NKX  
 Station number: 72293  
 Observation time: 150403/0000  
 Station latitude: 32.85  
 Station longitude: -117.12  
 Station elevation: 137.0  
 Showalter index: 15.56

Lifted index: 6.01  
 LIFT computed using virtual temperature: 5.75  
 SWEAT index: 65.00  
 K index: -50.30  
 Cross totals index: -14.70  
 Vertical totals index: 25.30  
 Totals totals index: 10.60  
 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: 282.31  
 Pres [hPa] of the Lifted Condensation Level: 889.27  
 Mean mixed layer potential temperature: 291.94  
 Mean mixed layer mixing ratio: 8.26  
 1000 hPa to 500 hPa thickness: 5626.00  
 Precipitable water [mm] for entire sounding: 11.35

## 72293 NKX San Diego Observations at 12Z 03 Apr 2015

PRES	HGHT	TEMP	DWPT	RELH	MIXR	DRCT	SKNT	THTA	THTE	THTV
hPa	m	C	C	%	g/kg	deg	knot	K	K	K
1000.0	137	12.4	10.6	89	8.08	0	0	285.6	308.2	286.9
988.0	239	15.8	11.4	75	8.64	110	1	289.9	314.6	291.5
980.4	305	15.8	11.1	73	8.51	180	2	290.6	314.9	292.1
952.0	556	15.8	9.8	68	8.05	98	3	293.0	316.3	294.5
946.0	610	17.2	4.1	42	5.46	80	3	295.0	311.2	296.0
941.0	655	18.4	-0.6	28	3.91	84	3	296.7	308.6	297.4
933.0	728	18.2	-1.8	26	3.61	89	2	297.2	308.2	297.8
925.0	802	17.4	2.4	37	4.94	95	2	297.1	312.0	298.0
924.0	811	17.4	2.4	37	4.95	93	2	297.2	312.1	298.1
913.0	913	17.2	-3.8	24	3.18	65	4	298.0	307.8	298.6
912.9	914	17.2	-3.8	24	3.17	65	4	298.0	307.8	298.6
882.0	1206	15.8	-9.2	17	2.17	70	7	299.5	306.4	299.9
880.7	1219	15.7	-9.4	17	2.14	70	7	299.5	306.4	299.9
855.0	1469	14.0	-13.0	14	1.65	112	10	300.3	305.6	300.6
850.0	1518	13.6	-12.4	15	1.74	120	11	300.4	306.0	300.7
818.8	1829	10.6	-12.4	18	1.81	135	13	300.5	306.3	300.8
789.2	2134	7.7	-12.4	22	1.88	140	14	300.5	306.6	300.9
778.0	2253	6.6	-12.4	24	1.91	142	9	300.6	306.7	300.9
760.6	2438	7.0	-32.3	4	0.34	145	1	302.9	304.1	303.0
760.0	2445	7.0	-33.0	4	0.31	142	1	303.0	304.1	303.1
746.0	2597	7.0	-42.0	2	0.13	64	3	304.6	305.1	304.6
732.8	2743	6.0	-41.3	2	0.14	350	4	305.1	305.6	305.1
700.0	3116	3.4	-39.6	3	0.18	0	6	306.2	306.9	306.2
653.9	3658	-0.3	-44.0	2	0.12	295	10	308.1	308.5	308.1
629.4	3962	-2.4	-46.5	2	0.09	265	11	309.1	309.4	309.1
605.7	4267	-4.5	-48.9	2	0.07	260	20	310.1	310.4	310.1
582.9	4572	-6.6	-51.4	1	0.06	265	22	311.0	311.3	311.1
575.0	4681	-7.3	-52.3	1	0.05	258	24	311.4	311.6	311.4
560.7	4877	-7.7	-41.7	5	0.18	245	27	313.2	313.9	313.2
553.0	4985	-7.9	-35.9	9	0.32	250	28	314.2	315.4	314.2
539.1	5182	-9.3	-34.7	11	0.38	260	30	314.8	316.2	314.9
537.0	5212	-9.5	-34.5	11	0.38	260	30	314.9	316.3	315.0
528.0	5343	-10.3	-26.3	26	0.85	260	32	315.5	318.5	315.6

508.0	5639	-13.1	-31.1	21	0.56	260	36	315.6	317.6	315.7
500.0	5760	-14.1	-35.1	15	0.39	260	37	315.8	317.2	315.9
496.0	5821	-14.3	-39.3	10	0.26	258	39	316.3	317.2	316.3
487.0	5959	-15.1	-29.1	29	0.71	254	44	316.9	319.5	317.1
478.2	6096	-16.3	-27.6	37	0.84	250	48	317.1	320.1	317.3
468.0	6258	-17.7	-25.7	50	1.01	251	49	317.3	320.9	317.5
437.0	6766	-22.3	-27.2	64	0.95	253	53	317.8	321.2	318.0
420.0	7057	-24.1	-30.1	58	0.75	254	55	319.1	321.8	319.2
400.0	7410	-27.3	-31.5	67	0.69	255	58	319.4	321.9	319.6
394.0	7518	-28.3	-31.7	73	0.69	252	59	319.5	322.0	319.6
388.4	7620	-29.4	-33.6	67	0.58	250	59	319.3	321.5	319.5
388.0	7628	-29.5	-33.7	67	0.58	250	59	319.3	321.5	319.4
378.0	7813	-31.1	-34.4	73	0.55	249	61	319.6	321.6	319.7
374.0	7888	-31.5	-36.5	61	0.45	249	61	320.1	321.8	320.1
371.0	7945	-31.5	-42.5	33	0.24	249	62	320.8	321.8	320.8
357.0	8216	-33.5	-46.5	26	0.16	248	64	321.6	322.3	321.7
346.0	8435	-33.9	-56.9	8	0.05	247	66	324.0	324.2	324.0
317.0	9042	-37.5	-53.5	17	0.08	245	71	327.2	327.6	327.2
312.3	9144	-37.7	-57.5	11	0.05	245	72	328.4	328.6	328.4
311.0	9173	-37.7	-58.7	9	0.04	246	72	328.7	328.9	328.7
300.0	9420	-39.7	-61.7	8	0.03	250	72	329.3	329.4	329.3
273.0	10058	-44.9	-62.9	12	0.03	245	77	330.8	330.9	330.8
262.0	10332	-47.3	-62.3	16	0.03	243	79	331.1	331.3	331.1
254.0	10536	-49.1	-57.1	39	0.07	241	81	331.4	331.7	331.4
250.0	10640	-49.9	-57.9	38	0.06	240	82	331.8	332.0	331.8
248.9	10668	-50.1	-58.0	39	0.06	245	81	331.9	332.1	331.9
236.0	11014	-52.7	-59.7	42	0.05	243	89	333.0	333.2	333.0
228.0	11235	-54.5	-60.5	47	0.05	241	93	333.6	333.8	333.6
216.0	11578	-57.5	-63.5	46	0.03	239	101	334.1	334.3	334.1
200.0	12060	-60.1	-64.6	55	0.03	235	112	337.4	337.6	337.4
198.0	12123	-60.7	-65.1	56	0.03	235	112	337.4	337.6	337.5
178.0	12780	-65.0	-70.0	50	0.02	240	115	340.8	340.9	340.8
177.4	12802	-65.2	-70.1	50	0.02	240	115	340.9	341.0	340.9
176.0	12850	-65.5	-70.5	50	0.02	240	114	341.1	341.2	341.1
171.0	13026	-65.9	-70.8	50	0.02	240	111	343.3	343.4	343.3
167.0	13171	-64.3	-71.3	38	0.02	241	103	348.3	348.3	348.3
153.0	13708	-64.3	-79.3	11	0.00	245	71	357.1	357.1	357.1
152.8	13716	-64.3	-79.3	11	0.00	245	71	357.3	357.3	357.3
150.0	13830	-63.9	-79.9	10	0.00	245	73	359.8	359.8	359.8
145.4	14021	-63.2	-81.2	7	0.00	250	78	364.2	364.3	364.2
141.0	14210	-62.5	-82.5	5	0.00	248	75	368.7	368.7	368.7
134.0	14522	-63.7	-86.7	3	0.00	245	70	371.9	371.9	371.9
127.0	14850	-63.7	-88.7	2	0.00	241	64	377.7	377.7	377.7
125.3	14935	-63.2	-88.2	2	0.00	240	63	380.0	380.0	380.0
124.0	14997	-62.9	-87.9	2	0.00	243	61	381.7	381.7	381.7
122.0	15097	-61.5	-87.5	2	0.00	248	59	386.1	386.1	386.1
119.2	15240	-61.5	-88.4	2	0.00	255	55	388.6	388.6	388.6
119.0	15251	-61.5	-88.5	2	0.00	255	55	388.8	388.8	388.8
113.0	15571	-61.5	-89.5	1	0.00	247	47	394.6	394.6	394.6
108.0	15850	-63.3	-90.3	1	0.00	240	41	396.4	396.4	396.4
108.0	15849	-63.3	-90.3	1	0.00	240	41	396.4	396.4	396.4
103.0	16139	-64.3	-90.3	2	0.00	243	51	399.8	399.8	399.8
100.0	16320	-63.7	-90.7	1	0.00	245	58	404.4	404.4	404.4
92.5	16800	-62.7	-90.7	1	0.00	244	47	415.5	415.5	415.5
77.2	17908	-65.5	-92.5	1	0.00	241	22	431.7	431.7	431.7
74.2	18151	-63.1	-91.1	1	0.00	240	16	441.6	441.6	441.6
72.6	18288	-63.2	-91.2	1	0.00	240	13	444.3	444.3	444.3
70.0	18510	-63.3	-91.3	1	0.00	225	15	448.6	448.6	448.6
69.1	18593	-63.5	-91.3	1	0.00	225	21	450.0	450.0	450.0



65.1	18955	-64.3	-91.3	1	0.00	237	18	455.8	455.9	455.8
62.5	19202	-63.0	-90.9	1	0.00	245	16	464.0	464.0	464.0
62.4	19216	-62.9	-90.9	1	0.00	244	16	464.5	464.5	464.5
56.6	19812	-64.3	-92.3	1	0.00	210	16	474.4	474.4	474.4
55.0	19990	-64.7	-92.7	1	0.00	220	17	477.4	477.4	477.4
52.5	20277	-61.3	-90.3	1	0.00	237	20	491.7	491.7	491.7
51.3	20422	-61.0	-90.7	1	0.00	245	21	495.6	495.6	495.6
50.6	20506	-60.9	-90.9	1	0.00	258	18	497.8	497.9	497.8
50.0	20580	-61.3	-91.3	1	0.00	270	16	498.6	498.6	498.6
47.3	20924	-61.3	-91.3	1	0.00	346	12	506.6	506.6	506.6
46.5	21031	-62.2	-91.9	1	0.00	10	11	506.9	507.0	506.9
44.8	21257	-64.1	-93.1	1	0.00	36	11	507.7	507.7	507.7
44.2	21336	-64.1	-93.1	1	0.00	45	11	509.6	509.6	509.6
42.1	21641	-64.0	-93.0	1	0.00	340	2	517.2	517.2	517.2
40.8	21829	-63.9	-92.9	1	0.00	330	2	521.9	522.0	521.9
35.9	22617	-60.9	-91.9	1	0.00	288	3	549.1	549.1	549.1
31.3	23467	-61.1	-92.1	1	0.00	244	4	570.5	570.6	570.5
30.0	23730	-60.3	-91.3	1	0.00	230	4	579.7	579.7	579.7
29.4	23857	-59.3	-90.3	1	0.00	257	5	585.8	585.8	585.8
27.0	24384	-60.9	-91.9	1	0.00	10	10	595.5	595.5	595.5
26.5	24506	-61.3	-92.3	1	0.00	14	10	597.8	597.8	597.8
20.9	25993	-58.3	-89.3	1	0.01	61	9	648.8	648.8	648.8
20.0	26270	-58.9	-89.9	1	0.01	70	9	655.1	655.2	655.1
18.4	26792	-59.5	-90.5	1	0.01	99	10	669.1	669.1	669.1
16.6	27432	-58.0	-89.5	1	0.01	135	11	693.4	693.5	693.5
14.5	28293	-56.1	-88.1	1	0.01	165	8	727.6	727.7	727.6
12.5	29234	-56.7	-88.7	1	0.01	197	6	757.0	757.1	757.0
11.7	29656	-54.1	-87.1	1	0.02	212	4	780.7	780.9	780.7
10.3	30480	-54.8	-86.9	1	0.02	240	2	807.6	807.8	807.6
10.0	30660	-54.9	-86.9	1	0.02	220	4	813.5	813.8	813.6
9.9	30724	-55.1	-87.1	1	0.02	227	5	815.1	815.4	815.1
9.3	31090	-53.9	-86.6	1	0.02	270	10	833.3	833.6	833.3
9.2	31194	-53.5	-86.5	1	0.02			838.5	838.8	838.5

## Station information and sounding indices

Station identifier: NKX  
 Station number: 72293  
 Observation time: 150403/1200  
 Station latitude: 32.85  
 Station longitude: -117.12  
 Station elevation: 137.0  
 Showalter index: 10.82  
 Lifted index: 5.85  
 LIFT computed using virtual temperature: 5.67  
 SWEAT index: 58.99  
 K index: -27.70  
 Cross totals index: 1.70  
 Vertical totals index: 27.70  
 Totals totals index: 29.40  
 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: 281.76  
 Pres [hPa] of the Lifted Condensation Level: 891.48  
 Mean mixed layer potential temperature: 291.18

Mean mixed layer mixing ratio: 8.00  
 1000 hPa to 500 hPa thickness: 5623.00  
 Precipitable water [mm] for entire sounding: 10.59

## 72293 NKX San Diego Observations at 00Z 04 Apr 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	125									
999.0	137	26.8	1.8	20	4.38	325	12	300.0	313.5	300.8
981.0	295	24.2	-7.8	11	2.18	311	15	299.0	305.9	299.4
979.9	305	24.2	-8.1	11	2.13	310	15	299.1	305.9	299.5
970.0	393	24.4	-10.6	9	1.77	303	13	300.1	305.9	300.5
945.9	610	22.7	-8.6	12	2.12	285	8	300.6	307.4	301.0
925.0	803	21.2	-6.8	15	2.49	310	4	301.0	308.9	301.4
920.0	850	21.0	-7.0	15	2.47	270	3	301.2	309.1	301.7
913.1	914	20.4	-7.2	15	2.45	215	2	301.3	309.1	301.8
881.1	1219	17.7	-8.1	16	2.37	130	4	301.6	309.1	302.0
850.0	1526	15.0	-9.0	18	2.29	95	6	301.9	309.2	302.3
819.5	1829	12.4	-10.8	19	2.06	105	11	302.2	308.9	302.6
789.9	2134	9.8	-12.6	19	1.84	125	13	302.6	308.6	303.0
761.5	2438	7.2	-14.4	20	1.65	110	13	303.0	308.4	303.3
741.0	2664	5.2	-15.8	20	1.51	29	3	303.2	308.2	303.5
733.9	2743	4.8	-20.6	14	1.02	0	0	303.7	307.1	303.8
712.0	2989	3.6	-35.4	4	0.27	274	3	305.0	305.9	305.0
700.0	3126	2.8	-38.2	3	0.20	225	5	305.6	306.3	305.6
672.0	3455	1.8	-39.2	3	0.19	262	9	308.0	308.7	308.1
655.1	3658	0.3	-42.2	2	0.14	285	12	308.6	309.1	308.6
606.8	4267	-4.2	-51.2	1	0.06	280	13	310.3	310.5	310.3
597.0	4397	-5.1	-53.1	1	0.05	274	14	310.6	310.8	310.6
583.0	4583	-5.3	-51.3	1	0.06	265	17	312.5	312.7	312.5
578.0	4651	-4.7	-24.7	19	0.90	261	17	314.0	317.1	314.1
561.5	4877	-6.8	-27.6	17	0.71	250	20	314.1	316.6	314.2
555.0	4968	-7.7	-28.7	17	0.65	250	21	314.1	316.4	314.2
541.0	5166	-9.3	-23.3	31	1.09	250	22	314.5	318.3	314.7
529.0	5339	-10.7	-27.7	23	0.75	250	23	314.8	317.5	315.0
500.0	5770	-14.3	-26.3	35	0.90	250	26	315.5	318.7	315.7
480.0	6078	-17.3	-28.3	38	0.78	245	27	315.5	318.3	315.7
478.9	6096	-17.4	-29.9	33	0.67	245	27	315.6	318.0	315.8
474.0	6172	-17.9	-36.9	17	0.34	244	28	315.9	317.2	316.0
465.0	6316	-18.9	-41.9	11	0.21	243	30	316.4	317.2	316.5
453.0	6510	-20.5	-34.5	27	0.46	240	33	316.8	318.5	316.9
430.0	6894	-23.1	-41.1	18	0.25	236	40	318.2	319.2	318.3
416.0	7136	-24.5	-37.5	29	0.37	233	43	319.5	320.9	319.5
405.0	7330	-26.5	-33.5	52	0.56	231	47	319.3	321.4	319.4
400.0	7420	-27.1	-34.1	51	0.54	230	48	319.7	321.7	319.8
389.0	7620	-28.9	-33.4	65	0.59	235	50	319.9	322.1	320.0
388.0	7639	-29.1	-34.1	62	0.55	235	50	319.9	321.9	320.0
384.0	7713	-29.1	-43.1	25	0.22	235	51	320.8	321.7	320.9
382.0	7750	-29.3	-49.3	13	0.11	235	52	321.0	321.5	321.0
363.0	8114	-30.7	-52.7	10	0.08	237	57	323.9	324.2	323.9
355.0	8272	-31.9	-52.9	11	0.08	237	59	324.3	324.6	324.3
349.0	8392	-32.9	-45.9	26	0.18	238	61	324.6	325.3	324.6
336.0	8658	-35.3	-46.3	32	0.18	238	64	324.8	325.5	324.9
332.0	8741	-35.5	-42.5	49	0.27	239	65	325.6	326.7	325.7
313.2	9144	-38.2	-44.6	51	0.23	240	71	327.3	328.2	327.3
305.0	9327	-39.5	-45.5	53	0.22	240	72	328.0	328.9	328.1

300.0	9440	-40.7	-45.7	58	0.21	240	72	327.9	328.8	327.9
250.0	10650	-51.1	-54.3	69	0.10	235	75	330.0	330.4	330.0
241.0	10888	-53.3	-56.5	68	0.08	235	78	330.1	330.5	330.1
226.0	11300	-55.5	-60.5	54	0.05	235	82	332.9	333.1	332.9
210.0	11765	-58.9	-65.9	40	0.03	235	88	334.6	334.8	334.6
200.0	12070	-61.5	-67.5	45	0.02	235	91	335.2	335.3	335.2
194.0	12258	-62.9	-68.9	44	0.02	235	95	335.9	336.0	335.9
190.0	12385	-63.2	-68.7	48	0.02	235	97	337.4	337.5	337.4
187.0	12483	-63.5	-68.5	51	0.02	235	97	338.5	338.6	338.5
186.6	12497	-63.6	-68.7	49	0.02	235	97	338.6	338.7	338.6
177.5	12802	-64.8	-73.4	29	0.01	235	75	341.4	341.5	341.4
174.0	12922	-65.3	-75.3	24	0.01	235	75	342.6	342.6	342.6
168.0	13137	-61.3	-76.3	12	0.01	236	76	352.7	352.7	352.7
162.0	13363	-60.5	-81.5	5	0.00	237	76	357.7	357.7	357.7
150.0	13840	-61.3	-86.3	2	0.00	240	78	364.3	364.3	364.3
147.0	13965	-61.5	-86.5	2	0.00	240	77	366.0	366.1	366.0
142.0	14180	-61.3	-87.3	2	0.00	240	76	370.0	370.0	370.0
139.0	14313	-61.9	-87.9	2	0.00	240	76	371.2	371.2	371.2
133.0	14587	-60.3	-87.3	2	0.00	240	74	378.8	378.8	378.8
119.7	15240	-63.3	-90.3	1	0.00	240	71	384.9	384.9	384.9
114.0	15539	-64.7	-91.7	1	0.00	250	51	387.7	387.7	387.7
113.9	15545	-64.7	-91.7	1	0.00	250	51	387.8	387.8	387.8
108.0	15870	-64.1	-91.1	1	0.00	247	55	394.8	394.8	394.8
103.1	16154	-65.1	-91.1	2	0.00	245	58	398.2	398.2	398.2
103.0	16159	-65.1	-91.1	2	0.00	245	58	398.3	398.3	398.3
100.0	16340	-64.3	-90.3	2	0.00	255	45	403.2	403.2	403.2
88.8	17069	-64.4	-90.7	2	0.00	240	28	417.1	417.1	417.1
80.3	17678	-64.4	-91.0	2	0.00	240	47	429.0	429.0	429.0
76.4	17983	-64.5	-91.2	1	0.00	270	33	435.1	435.1	435.1
72.7	18288	-64.5	-91.4	1	0.00	250	23	441.3	441.3	441.3
70.0	18520	-64.5	-91.5	1	0.00	235	28	446.1	446.1	446.1
69.2	18593	-64.5	-91.5	1	0.00	235	26	447.7	447.7	447.7
65.8	18898	-64.3	-91.3	1	0.00	255	29	454.5	454.5	454.5
62.9	19174	-64.1	-91.1	1	0.00	260	25	460.8	460.8	460.8
61.2	19342	-62.7	-90.7	1	0.00	262	22	467.5	467.5	467.5
57.4	19737	-62.9	-90.9	1	0.00	269	16	475.7	475.7	475.7
56.7	19812	-62.2	-90.5	1	0.00	270	15	479.0	479.0	479.0
55.1	19990	-60.5	-89.5	1	0.00	308	13	486.8	486.8	486.8
54.0	20117	-61.3	-89.9	1	0.00	335	11	487.8	487.8	487.8
52.1	20336	-62.7	-90.7	1	0.00	83	5	489.5	489.5	489.5
51.4	20422	-62.5	-90.8	1	0.00	125	2	491.9	491.9	491.9
50.0	20590	-62.1	-91.1	1	0.00	225	4	496.7	496.7	496.7
47.2	20945	-62.9	-90.9	1	0.00	245	13	503.1	503.1	503.1
46.5	21031	-62.3	-90.8	1	0.00	250	15	506.5	506.6	506.5
44.9	21254	-60.7	-90.7	1	0.00	254	7	515.6	515.6	515.6
44.3	21336	-61.1	-90.7	1	0.00	255	4	516.6	516.6	516.6
43.4	21464	-61.7	-90.7	1	0.00	259	7	518.2	518.2	518.2
42.2	21641	-60.8	-90.2	1	0.00	265	11	524.6	524.7	524.6
40.2	21940	-59.3	-89.3	1	0.00	319	8	535.7	535.7	535.7
36.5	22541	-61.5	-90.5	1	0.00	67	1	545.0	545.0	545.0
36.4	22555	-61.5	-90.5	1	0.00	70	1	545.4	545.5	545.4
31.4	23470	-59.8	-89.8	1	0.00	210	19	573.3	573.3	573.3
31.1	23536	-59.7	-89.7	1	0.00	221	15	575.4	575.4	575.4
30.0	23760	-60.1	-90.1	1	0.00	260	2	580.2	580.2	580.2
29.9	23774	-60.1	-90.1	1	0.00	325	1	580.5	580.5	580.5
28.0	24190	-61.1	-90.1	1	0.00	291	4	589.0	589.0	589.0
27.1	24384	-60.6	-89.9	1	0.00	275	5	595.7	595.8	595.7
25.9	24689	-59.7	-89.6	1	0.01	270	13	606.5	606.5	606.5
23.3	25341	-57.9	-88.9	1	0.01	246	9	630.1	630.2	630.1

20.2	26238	-59.9	-88.9	1	0.01	212	2	650.2	650.3	650.2
20.0	26300	-59.7	-89.7	1	0.01	210	2	652.7	652.8	652.7
18.6	26756	-57.7	-88.7	1	0.01	212	2	672.6	672.7	672.6
17.5	27140	-58.7	-88.7	1	0.01	214	3	681.3	681.4	681.3
16.7	27432	-57.8	-88.2	1	0.01	215	3	693.3	693.4	693.3
15.5	27906	-56.3	-87.3	1	0.01	157	2	713.2	713.3	713.2
15.3	27989	-57.5	-87.5	1	0.01	147	2	711.9	712.0	711.9
15.2	28042	-57.5	-87.5	1	0.01	140	2	713.7	713.8	713.7
12.1	29473	-56.7	-87.7	1	0.02	199	14	764.1	764.2	764.1
10.7	30262	-51.9	-84.9	1	0.03	231	21	808.9	809.3	809.0
10.3	30480	-52.0	-84.5	1	0.03	240	23	816.4	816.8	816.4
10.0	30700	-52.1	-84.1	1	0.03	250	19	824.0	824.4	824.0
9.3	31172	-49.7	-82.7	1	0.05	257	23	850.4	851.0	850.4
8.2	32004	-48.6	-82.4	1	0.06	270	29	886.0	886.8	886.1
7.9	32243	-48.3	-82.3	1	0.06			896.5	897.3	896.6

## Station information and sounding indices

Station identifier: NKX  
 Station number: 72293  
 Observation time: 150404/0000  
 Station latitude: 32.85  
 Station longitude: -117.12  
 Station elevation: 137.0  
 Showalter index: 8.59  
 Lifted index: 9.86  
 LIFT computed using virtual temperature: 9.83  
 SWEAT index: 38.00  
 K index: -20.70  
 Cross totals index: 5.30  
 Vertical totals index: 29.30  
 Totals totals index: 34.60  
 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: 259.80  
 Pres [hPa] of the Lifted Condensation Level: 604.86  
 Mean mixed layer potential temperature: 299.95  
 Mean mixed layer mixing ratio: 2.39  
 1000 hPa to 500 hPa thickness: 5645.00  
 Precipitable water [mm] for entire sounding: 7.64

## 72293 NKX San Diego Observations at 12Z 04 Apr 2015

PRES	HGHT	TEMP	DWPT	RELH	MIXR	DRCT	SKNT	THTA	THTE	THTV
hPa	m	C	C	%	g/kg	deg	knot	K	K	K
1000.0	112									
997.0	137	15.0	-2.0	31	3.33	70	4	288.4	298.2	289.0
993.0	171	18.0	-3.0	24	3.10	79	5	291.7	301.1	292.3
980.0	285	21.6	-7.4	14	2.25	110	7	296.5	303.5	296.9
977.7	305	21.7	-7.5	13	2.23	115	7	296.7	303.7	297.1
957.0	491	22.2	-8.8	12	2.06	85	4	299.1	305.6	299.5
943.9	610	21.2	-9.0	12	2.07	65	2	299.3	305.9	299.6
925.0	785	19.8	-9.2	13	2.07	75	3	299.6	306.1	299.9

911.1	914	18.8	-9.2	14	2.11	105	2	299.8	306.5	300.2
879.0	1219	16.3	-9.1	17	2.20	95	1	300.3	307.3	300.7
850.0	1504	14.0	-9.0	19	2.29	175	6	300.8	308.1	301.2
817.4	1829	11.2	-9.9	22	2.21	210	7	301.3	308.3	301.7
787.9	2134	8.7	-10.8	24	2.14	210	16	301.7	308.5	302.1
763.0	2401	6.4	-11.6	26	2.07	214	20	302.0	308.7	302.4
759.5	2438	6.1	-12.1	26	2.00	215	21	302.1	308.6	302.5
734.0	2717	4.2	-15.8	22	1.53	215	20	303.0	308.0	303.2
731.6	2743	4.5	-20.9	14	0.99	215	20	303.6	306.9	303.7
724.0	2828	5.4	-37.6	3	0.21	227	16	305.5	306.3	305.5
700.0	3102	3.2	-33.8	5	0.32	265	5	306.0	307.1	306.1
678.5	3353	1.6	-36.0	4	0.26	255	4	306.9	307.9	307.0
661.0	3563	0.2	-37.8	4	0.22	227	9	307.7	308.5	307.7
653.2	3658	-0.2	-39.7	3	0.19	215	11	308.3	309.0	308.3
640.0	3821	-0.9	-42.9	2	0.14	223	13	309.3	309.8	309.3
628.8	3962	-1.9	-32.0	8	0.42	230	15	309.7	311.2	309.8
624.0	4023	-2.3	-27.3	13	0.66	228	15	309.9	312.2	310.0
605.0	4267	-3.8	-31.7	9	0.45	220	17	311.0	312.6	311.1
586.0	4518	-5.3	-36.3	7	0.29	212	15	312.0	313.1	312.1
582.0	4572	-5.8	-36.1	7	0.30	210	14	312.1	313.2	312.1
559.5	4877	-8.5	-34.8	10	0.36	220	16	312.4	313.7	312.5
542.0	5124	-10.7	-33.7	13	0.41	220	21	312.6	314.2	312.7
525.0	5369	-12.1	-46.1	4	0.12	220	26	313.8	314.3	313.8
500.0	5740	-14.5	-42.5	7	0.18	220	33	315.3	316.0	315.3
496.6	5791	-14.8	-40.3	9	0.23	220	33	315.5	316.4	315.5
496.0	5801	-14.9	-39.9	10	0.24	220	33	315.5	316.5	315.6
476.8	6096	-17.5	-36.0	18	0.37	225	31	315.9	317.3	315.9
467.0	6251	-18.9	-33.9	25	0.47	226	30	316.0	317.8	316.1
455.0	6444	-20.3	-36.3	23	0.38	227	30	316.6	318.1	316.7
441.0	6674	-22.5	-30.5	48	0.69	228	28	316.7	319.2	316.8
421.1	7010	-25.8	-31.2	60	0.68	230	27	316.7	319.2	316.9
418.0	7063	-26.3	-31.3	63	0.67	230	28	316.7	319.2	316.8
416.0	7098	-26.3	-32.3	57	0.61	230	29	317.1	319.4	317.3
409.0	7220	-26.1	-50.1	9	0.10	230	32	318.9	319.3	319.0
400.0	7380	-27.3	-49.3	10	0.11	230	35	319.4	319.9	319.4
386.9	7620	-28.8	-44.2	21	0.19	230	44	320.5	321.3	320.6
386.0	7636	-28.9	-43.9	22	0.20	230	44	320.6	321.4	320.6
378.0	7786	-29.9	-46.9	18	0.15	231	48	321.2	321.8	321.2
357.0	8191	-32.9	-43.9	32	0.22	235	58	322.5	323.3	322.5
355.0	8230	-33.2	-44.1	33	0.21	235	59	322.5	323.4	322.6
331.0	8718	-37.3	-47.3	35	0.16	232	62	323.5	324.1	323.5
320.0	8951	-39.3	-45.3	53	0.21	231	64	323.8	324.7	323.9
315.0	9059	-39.9	-46.9	47	0.18	230	64	324.5	325.2	324.5
311.1	9144	-40.8	-47.2	50	0.18	230	65	324.4	325.1	324.4
309.0	9190	-41.3	-47.3	52	0.17	230	65	324.3	325.0	324.3
305.0	9278	-41.9	-48.9	46	0.15	230	66	324.7	325.2	324.7
302.0	9345	-42.1	-58.1	16	0.05	230	66	325.3	325.5	325.3
300.0	9390	-42.5	-58.5	16	0.05	230	66	325.4	325.6	325.4
299.0	9413	-42.5	-57.5	18	0.05	230	66	325.7	325.9	325.7
274.0	9998	-48.1	-58.1	30	0.05	230	76	325.8	326.0	325.8
258.0	10394	-50.7	-60.7	30	0.04	230	83	327.6	327.8	327.6
250.0	10600	-52.1	-60.1	38	0.05	230	86	328.5	328.7	328.5
239.0	10890	-53.7	-66.7	19	0.02	229	88	330.3	330.4	330.3
222.0	11359	-57.5	-65.5	35	0.03	227	92	331.5	331.6	331.5
205.0	11857	-60.7	-68.7	34	0.02	225	96	334.1	334.2	334.1
204.0	11887	-61.0	-68.8	35	0.02	225	96	334.1	334.2	334.1
202.0	11948	-61.5	-68.9	37	0.02	225	96	334.2	334.3	334.2
200.0	12010	-62.1	-69.1	39	0.02	225	95	334.3	334.4	334.3
197.0	12103	-62.1	-68.1	44	0.02	228	87	335.7	335.8	335.7

194.2	12192	-61.7	-69.2	36	0.02	230	80	337.8	337.9	337.8
188.0	12392	-60.7	-71.7	22	0.01	230	82	342.5	342.6	342.5
183.0	12559	-61.3	-74.3	16	0.01	230	84	344.2	344.2	344.2
174.0	12872	-60.7	-78.7	8	0.00	230	87	350.1	350.2	350.1
167.6	13106	-61.3	-80.4	6	0.00	230	89	353.0	353.0	353.0
163.0	13276	-61.7	-81.7	5	0.00	232	86	355.1	355.1	355.1
156.0	13548	-61.1	-83.1	4	0.00	236	81	360.6	360.6	360.6
152.0	13708	-62.1	-85.1	3	0.00	239	78	361.5	361.5	361.5
150.0	13790	-61.9	-85.9	3	0.00	240	77	363.2	363.2	363.2
145.0	14000	-61.9	-84.9	3	0.00	239	73	366.8	366.8	366.8
140.0	14216	-63.1	-87.1	3	0.00	239	69	368.4	368.4	368.4
137.0	14350	-61.9	-86.9	2	0.00	238	66	372.8	372.8	372.8
134.0	14487	-59.5	-85.5	2	0.00	238	64	379.4	379.4	379.4
125.0	14920	-61.7	-88.7	2	0.00	236	55	383.0	383.0	383.0
120.0	15173	-60.5	-88.5	1	0.00	235	50	389.7	389.7	389.7
118.7	15240	-61.0	-89.0	1	0.00	235	49	390.0	390.0	390.0
117.0	15330	-61.7	-89.7	1	0.00	236	52	390.3	390.3	390.3
113.0	15545	-62.0	-90.0	1	0.00	240	58	393.6	393.6	393.6
110.0	15712	-62.3	-90.3	1	0.00	241	55	396.1	396.2	396.1
107.0	15883	-61.1	-89.1	1	0.00	242	51	401.6	401.6	401.6
100.0	16300	-63.9	-90.9	1	0.00	245	43	404.0	404.0	404.0
90.9	16889	-61.7	-88.7	2	0.00	248	44	419.5	419.5	419.5
84.0	17374	-62.6	-89.6	2	0.00	250	45	427.2	427.2	427.2
80.0	17678	-63.1	-90.2	2	0.00	270	32	432.1	432.1	432.1
76.1	17983	-63.7	-90.7	1	0.00	235	30	437.1	437.1	437.1
74.9	18084	-63.9	-90.9	1	0.00	245	29	438.8	438.8	438.8
72.5	18288	-63.8	-90.8	1	0.00	265	27	443.2	443.2	443.2
70.0	18500	-63.7	-90.7	1	0.00	265	23	447.8	447.8	447.8
65.6	18898	-63.1	-90.1	2	0.00	250	20	457.4	457.4	457.4
62.5	19202	-62.7	-89.7	2	0.00	240	22	464.9	464.9	464.9
61.2	19326	-62.5	-89.5	2	0.00	241	22	467.9	468.0	468.0
58.9	19561	-63.7	-90.7	1	0.00	243	23	470.4	470.4	470.4
56.5	19812	-63.0	-90.5	1	0.00	245	23	477.5	477.5	477.5
54.3	20062	-62.3	-90.3	1	0.00	225	21	484.7	484.7	484.7
53.8	20117	-62.7	-90.4	1	0.00	220	20	485.1	485.1	485.1
52.5	20269	-63.7	-90.7	1	0.00	240	21	486.1	486.1	486.1
51.0	20447	-61.7	-89.7	1	0.00	264	21	494.9	494.9	494.9
50.0	20570	-61.7	-89.7	1	0.00	280	22	497.7	497.7	497.7
48.8	20726	-62.2	-90.2	1	0.00	295	21	500.0	500.0	500.0
46.4	21031	-63.2	-91.2	1	0.00	320	11	504.7	504.7	504.7
46.3	21044	-63.3	-91.3	1	0.00	319	11	504.9	504.9	504.9
44.2	21336	-62.2	-90.7	1	0.00	305	4	514.5	514.5	514.5
42.6	21559	-61.3	-90.3	1	0.00	356	4	522.0	522.0	522.0
40.0	21946	-62.1	-91.1	1	0.00	85	3	529.4	529.4	529.4
38.1	22250	-62.7	-91.7	1	0.00	108	4	535.3	535.3	535.3
32.0	23328	-61.5	-90.5	1	0.00	190	9	565.9	565.9	565.9
30.7	23586	-60.1	-90.1	1	0.00	209	10	576.4	576.4	576.4
30.0	23730	-61.1	-91.1	1	0.00	220	11	577.5	577.5	577.5
28.7	24006	-58.7	-89.7	1	0.00	231	9	591.5	591.5	591.5
27.0	24384	-58.7	-89.7	1	0.00	245	6	601.7	601.8	601.7
26.3	24554	-58.7	-89.7	1	0.00	244	7	606.4	606.5	606.4
24.0	25131	-56.5	-88.5	1	0.01	241	12	628.9	628.9	628.9
23.4	25298	-56.9	-88.7	1	0.01	240	13	632.5	632.6	632.5
22.3	25603	-57.6	-89.1	1	0.01	225	15	639.3	639.3	639.3
20.3	26187	-58.9	-89.9	1	0.01	278	10	652.4	652.4	652.4
20.2	26213	-58.8	-89.8	1	0.01	280	10	653.3	653.4	653.3
20.0	26280	-58.7	-89.7	1	0.01	275	9	655.8	655.8	655.8
18.6	26737	-57.1	-89.1	1	0.01	250	12	674.5	674.6	674.5
18.4	26822	-57.3	-89.2	1	0.01	245	12	676.5	676.5	676.5

17.5	27127	-58.0	-89.4	1	0.01	245	8	683.6	683.7	683.6
16.6	27432	-58.7	-89.6	1	0.01	205	12	690.9	690.9	690.9
15.4	27924	-59.9	-89.9	1	0.01	241	20	702.6	702.7	702.7
15.1	28042	-59.2	-89.6	1	0.01	250	22	708.6	708.7	708.6
13.8	28615	-56.1	-88.1	1	0.01	245	17	737.9	738.1	738.0
13.7	28651	-56.0	-88.0	1	0.01	245	17	739.6	739.7	739.6
13.1	28956	-54.9	-87.3	1	0.01	230	12	753.4	753.6	753.5
12.2	29403	-53.3	-86.3	1	0.02	245	11	774.2	774.5	774.3
11.9	29566	-53.6	-86.6	1	0.02	250	11	778.8	779.0	778.8
11.6	29728	-53.9	-86.9	1	0.02	237	10	783.3	783.6	783.4
11.3	29870	-53.1	-86.3	1	0.02	225	10	791.2	791.5	791.2
10.8	30175	-51.3	-85.2	1	0.03	215	24	808.4	808.7	808.4
10.7	30250	-50.9	-84.9	1	0.03	217	25	812.6	812.9	812.6
10.3	30480	-50.9	-84.9	1	0.03	225	27	820.9	821.2	820.9
10.0	30690	-50.9	-84.9	1	0.03	240	27	828.5	828.8	828.5
9.8	30785	-51.0	-85.0	1	0.03	240	27	831.6	832.0	831.6
9.4	31092	-51.3	-85.3	1	0.03	237	33	841.7	842.1	841.7
9.0	31394	-50.1	-84.1	1	0.04	235	38	857.5	858.0	857.5
8.9	31448	-49.9	-83.9	1	0.04	235	38	860.4	860.9	860.4
8.1	32062	-51.5	-84.5	1	0.04	240	37	877.5	878.0	877.5
7.5	32562	-50.9	-84.9	1	0.04	245	37	899.4	900.0	899.5
7.4	32614	-50.2	-84.2	1	0.04	245	37	904.1	904.8	904.2
7.3	32738	-48.7	-82.7	1	0.06			915.4	916.2	915.4

## Station information and sounding indices

Station identifier: NKX  
 Station number: 72293  
 Observation time: 150404/1200  
 Station latitude: 32.85  
 Station longitude: -117.12  
 Station elevation: 137.0  
 Showalter index: 9.08  
 Lifted index: 11.78  
 LIFT computed using virtual temperature: 11.67  
 SWEAT index: 45.01  
 K index: -17.50  
 Cross totals index: 5.50  
 Vertical totals index: 28.50  
 Totals totals index: 34.00  
 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: 260.49  
 Pres [hPa] of the Lifted Condensation Level: 633.68  
 Mean mixed layer potential temperature: 296.78  
 Mean mixed layer mixing ratio: 2.33  
 1000 hPa to 500 hPa thickness: 5628.00  
 Precipitable water [mm] for entire sounding: 7.23

## 72293 NKX San Diego Observations at 00Z 05 Apr 2015

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PRES	HGHT	TEMP	DWPT	RELH	MIXR	DRCT	SKNT	THTA	THTE	THTV
hPa	m	C	C	%	g/kg	deg	knot	K	K	K

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1000.0	105									
996.0	137	23.4	11.4	47	8.57	225	9	296.9	322.1	298.4
985.0	234	21.6	10.6	50	8.21	239	11	296.0	320.1	297.5
977.0	305	20.6	10.2	51	8.06	250	13	295.7	319.3	297.1
960.0	457	18.4	9.4	56	7.77	275	12	295.0	317.7	296.4
947.0	574	17.6	8.6	56	7.45	294	10	295.3	317.2	296.6
943.0	610	18.4	2.1	34	4.75	300	10	296.5	310.8	297.3
941.0	629	18.8	-1.2	26	3.74	298	10	297.1	308.5	297.7
933.0	702	19.2	-8.8	14	2.12	292	10	298.2	304.9	298.6
925.0	776	18.6	-8.4	15	2.20	285	10	298.3	305.3	298.7
910.2	914	18.0	-9.9	14	1.99	245	11	299.1	305.5	299.5
909.0	925	18.0	-10.0	14	1.98	245	11	299.2	305.5	299.6
878.0	1219	15.5	-7.2	20	2.55	235	14	299.6	307.6	300.1
857.0	1424	13.8	-5.2	26	3.04	216	15	299.9	309.4	300.4
850.0	1493	13.4	-7.6	23	2.55	210	15	300.2	308.2	300.6
816.5	1829	10.6	-9.7	23	2.25	190	18	300.6	307.8	301.1
803.0	1968	9.4	-10.6	23	2.13	181	17	300.8	307.6	301.2
787.0	2134	8.2	-16.0	16	1.40	170	15	301.2	305.8	301.5
780.0	2207	7.6	-18.4	14	1.16	165	15	301.4	305.2	301.6
766.0	2356	6.8	-11.2	26	2.13	155	15	302.1	309.0	302.5
758.4	2438	6.4	-20.5	13	0.99	150	15	302.5	305.9	302.7
744.0	2595	5.6	-38.4	2	0.19	173	12	303.3	304.0	303.4
730.5	2743	4.8	-38.3	3	0.19	195	10	304.0	304.8	304.1
703.6	3048	3.2	-38.0	3	0.21	240	11	305.5	306.3	305.5
701.0	3078	3.0	-38.0	3	0.21	240	11	305.6	306.4	305.7
700.0	3090	3.0	-38.0	3	0.21	240	11	305.8	306.6	305.8
652.0	3658	-1.1	-42.1	3	0.15	255	12	307.4	307.9	307.4
630.0	3932	-3.1	-44.1	3	0.12	237	13	308.2	308.6	308.2
627.6	3962	-3.3	-40.4	4	0.18	235	13	308.3	309.0	308.3
622.0	4032	-3.7	-31.7	9	0.44	233	14	308.6	310.2	308.7
605.0	4250	-5.7	-26.7	17	0.72	226	18	308.7	311.3	308.9
603.7	4267	-5.8	-27.4	16	0.67	225	18	308.8	311.1	308.9
592.0	4420	-7.1	-34.1	10	0.36	232	18	309.0	310.4	309.1
558.0	4877	-10.7	-36.0	11	0.32	255	19	310.1	311.3	310.2
552.0	4960	-11.3	-36.3	11	0.31	258	19	310.3	311.5	310.4
538.0	5156	-12.5	-22.5	43	1.17	264	20	311.2	315.2	311.4
536.2	5182	-12.7	-22.8	43	1.15	265	20	311.2	315.2	311.4
520.0	5415	-14.5	-25.5	39	0.93	256	20	311.8	315.0	312.0
500.0	5710	-17.3	-24.3	54	1.08	245	19	311.9	315.6	312.1
494.6	5791	-18.1	-24.1	59	1.11	245	19	311.9	315.7	312.1
489.0	5876	-18.9	-23.9	65	1.14	248	20	311.9	315.9	312.1
474.7	6096	-20.3	-30.7	39	0.63	255	24	312.8	315.1	312.9
473.0	6123	-20.5	-31.5	37	0.58	254	25	312.9	315.0	313.0
440.0	6654	-24.7	-29.2	66	0.78	228	34	314.1	316.9	314.3
436.9	6706	-25.1	-29.4	67	0.77	225	35	314.2	316.9	314.4
417.0	7042	-28.1	-30.9	77	0.70	220	36	314.6	317.1	314.8
413.0	7112	-28.5	-32.9	66	0.58	219	36	315.0	317.1	315.1
405.0	7251	-29.5	-32.5	75	0.62	216	37	315.4	317.7	315.6
400.0	7340	-30.1	-33.2	74	0.59	215	37	315.8	317.9	315.9
384.5	7620	-32.5	-34.8	79	0.52	210	39	316.3	318.2	316.4
383.0	7647	-32.7	-35.0	80	0.51	211	39	316.3	318.2	316.4
369.0	7908	-34.9	-40.9	54	0.29	222	38	316.8	317.9	316.8
364.0	8003	-35.9	-40.9	60	0.30	226	38	316.7	317.8	316.7
356.0	8157	-36.5	-57.5	10	0.05	232	37	317.9	318.1	317.9
352.3	8230	-36.5	-62.4	5	0.02	235	37	318.8	318.9	318.8
350.0	8275	-36.5	-65.5	3	0.02	235	38	319.4	319.5	319.4
325.0	8786	-38.9	-68.9	3	0.01	232	45	322.9	323.0	323.0
308.3	9144	-41.5	-69.6	3	0.01	230	50	324.2	324.2	324.2
300.0	9330	-42.9	-69.9	4	0.01	235	48	324.8	324.8	324.8



280.0	9792	-46.5	-71.5	4	0.01	230	58	326.1	326.1	326.1
262.0	10231	-48.1	-72.4	4	0.01	225	67	330.0	330.1	330.0
256.8	10363	-48.5	-72.7	4	0.01	225	67	331.2	331.2	331.2
253.0	10462	-48.9	-72.9	4	0.01	225	66	332.1	332.1	332.1
250.0	10540	-49.7	-73.7	4	0.01	225	65	332.1	332.1	332.1
216.0	11483	-56.7	-75.7	7	0.01	228	51	335.4	335.4	335.4
203.0	11876	-57.5	-77.5	6	0.00	230	45	340.1	340.1	340.1
202.7	11887	-57.6	-77.6	6	0.00	230	45	340.2	340.2	340.2
200.0	11970	-58.1	-78.1	6	0.00	230	46	340.6	340.6	340.6
196.0	12097	-58.9	-78.9	6	0.00	230	50	341.3	341.3	341.3
191.0	12259	-58.7	-78.7	6	0.00	230	54	344.1	344.2	344.1
188.0	12358	-59.7	-79.7	6	0.00	230	57	344.1	344.1	344.1
178.0	12699	-59.9	-81.9	4	0.00	231	59	349.2	349.2	349.2
176.0	12770	-59.3	-82.3	4	0.00	232	60	351.3	351.3	351.3
172.0	12913	-60.5	-83.5	3	0.00	232	61	351.6	351.6	351.6
165.0	13172	-59.7	-83.7	3	0.00	233	62	357.2	357.2	357.2
158.0	13444	-57.9	-84.9	2	0.00	234	64	364.7	364.7	364.7
154.0	13605	-58.7	-86.7	2	0.00	235	65	366.0	366.0	366.0
151.3	13716	-58.7	-86.7	2	0.00	235	66	367.8	367.9	367.8
150.0	13770	-58.7	-86.7	2	0.00	235	58	368.8	368.8	368.8
144.0	14027	-58.7	-87.7	1	0.00	237	57	373.1	373.1	373.1
139.0	14248	-59.7	-87.7	1	0.00	238	56	375.1	375.1	375.1
133.0	14525	-58.9	-87.9	1	0.00	240	55	381.3	381.3	381.3
130.0	14668	-59.9	-88.9	1	0.00	241	54	382.0	382.0	382.0
124.0	14964	-59.5	-88.5	1	0.00	243	53	387.9	387.9	387.9
118.6	15240	-60.4	-88.7	1	0.00	245	52	391.1	391.2	391.1
117.0	15327	-60.7	-88.7	1	0.00	243	52	392.2	392.2	392.2
114.0	15489	-59.7	-88.7	1	0.00	240	51	397.0	397.0	397.0
110.0	15712	-61.9	-89.9	1	0.00	236	50	396.9	396.9	396.9
100.0	16300	-63.5	-90.5	1	0.00	225	47	404.8	404.8	404.8
97.5	16459	-62.5	-89.5	2	0.00	235	58	409.8	409.8	409.8
95.6	16577	-61.7	-88.7	2	0.00	234	56	413.5	413.5	413.5
88.9	17024	-62.3	-89.3	2	0.00	230	49	421.0	421.0	421.0
88.3	17069	-62.1	-89.2	2	0.00	230	48	422.2	422.2	422.2
82.4	17494	-60.7	-88.7	1	0.00	247	45	433.5	433.5	433.5
80.0	17678	-61.2	-89.2	1	0.00	255	44	436.2	436.2	436.2
76.1	17983	-62.0	-90.0	1	0.00	235	45	440.7	440.7	440.7
74.0	18158	-62.5	-90.5	1	0.00	241	44	443.2	443.2	443.2
72.5	18288	-61.7	-89.7	1	0.00	245	44	447.6	447.7	447.6
72.1	18318	-61.5	-89.5	1	0.00	246	43	448.7	448.7	448.7
70.0	18500	-62.7	-90.7	1	0.00	255	35	449.9	449.9	449.9
69.0	18593	-63.3	-90.3	1	0.00	255	38	450.6	450.6	450.6
69.0	18589	-63.3	-90.3	1	0.00	255	38	450.5	450.5	450.5
62.5	19202	-62.0	-89.7	1	0.00	255	34	466.2	466.2	466.2
59.5	19507	-61.4	-89.3	1	0.00	270	15	474.2	474.2	474.2
59.0	19559	-61.3	-89.3	1	0.00	285	12	475.6	475.6	475.6
56.6	19812	-62.9	-90.4	1	0.00	0	0	477.7	477.7	477.7
54.2	20083	-64.5	-91.5	1	0.00	222	14	479.9	479.9	479.9
53.9	20117	-64.2	-91.2	1	0.00	205	16	481.3	481.3	481.3
52.2	20314	-62.7	-89.7	2	0.00	208	8	489.2	489.3	489.2
51.3	20422	-62.9	-89.9	2	0.00	210	4	491.1	491.1	491.1
50.0	20580	-63.3	-90.3	1	0.00	190	5	493.9	493.9	493.9
46.5	21031	-63.3	-90.3	1	0.00	210	22	504.4	504.4	504.4
46.1	21079	-63.3	-90.3	1	0.00	215	21	505.5	505.5	505.5
45.1	21214	-61.3	-89.3	1	0.00	228	18	513.5	513.5	513.5
44.2	21336	-60.8	-89.3	1	0.00	240	15	517.6	517.6	517.6
43.3	21467	-60.3	-89.3	1	0.00	243	13	522.0	522.0	522.0
40.1	21946	-60.5	-89.0	1	0.00	255	5	533.1	533.1	533.1
37.3	22395	-60.7	-88.7	1	0.00	270	8	543.7	543.7	543.7

34.9	22811	-58.5	-88.5	1	0.00	283	11	559.8	559.9	559.8
34.6	22860	-58.5	-88.5	1	0.00	285	11	561.0	561.1	561.0
33.0	23165	-58.7	-88.2	1	0.01	265	19	568.5	568.5	568.5
31.4	23470	-58.8	-88.0	1	0.01	285	12	576.0	576.1	576.0
30.6	23636	-58.9	-87.9	1	0.01	271	11	580.2	580.2	580.2
30.0	23760	-57.9	-87.9	1	0.01	260	11	586.2	586.3	586.2
29.9	23774	-57.9	-87.9	1	0.01	250	14	586.7	586.7	586.7
27.2	24384	-56.5	-86.5	1	0.01	275	10	606.8	606.9	606.8
26.7	24497	-56.3	-86.3	1	0.01	274	10	610.6	610.6	610.6
24.7	24994	-56.5	-86.5	1	0.01	270	11	624.0	624.1	624.0
23.5	25298	-56.5	-86.5	1	0.01	230	12	632.3	632.4	632.3
22.4	25603	-56.6	-86.6	1	0.01	255	18	640.8	640.9	640.8
21.7	25811	-56.7	-86.7	1	0.01	238	19	646.6	646.7	646.6
21.4	25908	-56.3	-86.5	1	0.01	230	19	650.8	650.9	650.8
20.1	26298	-54.5	-85.5	1	0.01	258	22	667.6	667.8	667.7
20.0	26330	-54.7	-85.7	1	0.01	260	22	668.0	668.1	668.0
19.2	26590	-56.3	-86.3	1	0.01	279	19	670.9	671.0	670.9
18.5	26822	-55.5	-86.2	1	0.01	295	16	680.4	680.6	680.4
18.2	26931	-55.1	-86.1	1	0.01	286	15	685.0	685.1	685.0
17.3	27254	-56.3	-86.3	1	0.01	259	14	691.1	691.3	691.2
16.8	27432	-55.9	-86.0	1	0.01	245	13	698.1	698.2	698.1
16.1	27737	-55.1	-85.6	1	0.02	215	17	710.1	710.3	710.1
15.3	28042	-54.3	-85.1	1	0.02	220	24	722.3	722.5	722.4
13.9	28651	-52.8	-84.2	1	0.02	245	28	747.4	747.6	747.4
13.3	28956	-52.0	-83.7	1	0.03	230	25	760.2	760.5	760.2
12.7	29261	-51.3	-83.3	1	0.03	250	30	772.9	773.3	773.0
12.7	29241	-51.3	-83.3	1	0.03	249	30	772.4	772.7	772.4
12.1	29555	-51.9	-83.9	1	0.03	245	33	781.0	781.4	781.0
11.5	29870	-50.5	-83.0	1	0.04	240	37	797.0	797.4	797.0
11.0	30176	-49.1	-82.1	1	0.04	245	34	812.7	813.3	812.8
10.5	30480	-49.8	-82.3	1	0.04	250	32	821.1	821.6	821.1
10.0	30800	-50.5	-82.5	1	0.04	245	30	830.0	830.5	830.0
10.0	30785	-50.5	-82.5	1	0.04	240	30	829.5	830.1	829.5
9.9	30866	-50.7	-82.7	1	0.04	245	31	831.6	832.1	831.6
8.9	31566	-47.1	-81.1	1	0.06	243	36	871.1	872.0	871.2
8.2	32107	-48.1	-81.1	1	0.07	242	40	887.8	888.7	887.9
7.9	32354	-46.1	-80.1	1	0.08	242	42	905.3	906.4	905.4
7.3	32880	-46.3	-80.3	1	0.09	241	46	925.2	926.4	925.2
7.0	33160	-44.7	-79.7	1	0.10	240	48	942.9	944.3	943.0
6.9	33223	-44.3	-79.3	1	0.11	235	47	947.1	948.6	947.1
6.8	33354	-43.5	-78.5	1	0.12			955.8	957.5	955.8

## Station information and sounding indices

Station identifier: NKX  
 Station number: 72293  
 Observation time: 150405/0000  
 Station latitude: 32.85  
 Station longitude: -117.12  
 Station elevation: 137.0  
 Showalter index: 6.18  
 Lifted index: 0.37  
 LIFT computed using virtual temperature: 0.24  
 SWEAT index: 48.99  
 K index: -17.90  
 Cross totals index: 9.70  
 Vertical totals index: 30.70  
 Totals totals index: 40.40  
 Convective Available Potential Energy: 0.00

CAPE using virtual temperature: 0.00  
     Convective Inhibition: 0.00  
 CINS using virtual temperature: -372.39  
 Equilibrium Level using virtual temperature: 485.27  
     LFCT using virtual temperature: 490.66  
     Bulk Richardson Number: 0.00  
 Bulk Richardson Number using CAPV: 0.00  
 Temp [K] of the Lifted Condensation Level: 279.89  
 Pres [hPa] of the Lifted Condensation Level: 825.02  
     Mean mixed layer potential temperature: 295.71  
     Mean mixed layer mixing ratio: 7.64  
     1000 hPa to 500 hPa thickness: 5605.00  
 Precipitable water [mm] for entire sounding: 10.55

## 72293 NKX San Diego Observations at 12Z 05 Apr 2015

PRES	HGHT	TEMP	DWPT	RELH	MIXR	DRCT	SKNT	THTA	THTE	THTV
hPa	m	C	C	%	g/kg	deg	knot	K	K	K
1000.0	103									
996.0	137	15.4	13.6	89	9.92	175	5	288.9	316.9	290.6
995.0	146	15.4	13.6	89	9.93	175	5	289.0	317.0	290.7
976.3	305	14.1	12.7	92	9.54	180	8	289.2	316.2	290.8
941.6	610	11.5	11.0	97	8.84	205	11	289.6	314.7	291.1
925.0	760	10.2	10.2	100	8.51	190	11	289.7	314.0	291.2
912.0	878	9.4	9.4	100	8.18	190	12	290.1	313.4	291.5
908.0	914	10.0	5.0	71	6.06	190	12	291.1	308.6	292.1
905.0	942	11.6	-0.4	43	4.12	194	12	293.0	305.3	293.7
901.0	979	13.0	-3.0	33	3.42	200	11	294.8	305.2	295.4
897.0	1016	13.2	-5.8	26	2.78	205	11	295.4	303.9	295.9
875.5	1219	12.3	-9.6	21	2.12	235	9	296.5	303.1	296.9
860.0	1369	11.6	-12.4	17	1.72	241	9	297.3	302.8	297.6
850.0	1466	10.8	-13.2	17	1.63	245	9	297.4	302.7	297.7
817.0	1794	8.4	-15.6	17	1.40	272	12	298.3	302.8	298.5
813.5	1829	8.4	-17.3	14	1.22	275	12	298.7	302.7	298.9
784.0	2134	8.8	-31.7	4	0.35	270	18	302.2	303.5	302.3
783.0	2145	8.8	-32.2	4	0.33	270	18	302.4	303.6	302.4
755.4	2438	7.1	-32.9	4	0.32	280	18	303.7	304.8	303.7
727.8	2743	5.4	-33.6	4	0.31	285	19	305.0	306.1	305.1
701.1	3048	3.7	-34.4	4	0.30	260	22	306.4	307.5	306.4
700.0	3061	3.6	-34.4	4	0.30	260	20	306.4	307.5	306.5
677.0	3331	1.6	-36.4	4	0.25	255	23	307.1	308.1	307.2
675.1	3353	1.6	-36.2	4	0.26	255	23	307.3	308.3	307.4
658.0	3560	1.2	-34.8	5	0.30	255	25	309.2	310.3	309.3
655.0	3597	0.8	-26.2	11	0.69	255	25	309.1	311.6	309.3
650.0	3658	0.2	-26.2	12	0.70	255	26	309.2	311.6	309.3
628.0	3933	-2.3	-26.3	14	0.72	257	27	309.4	311.9	309.5
609.0	4176	-3.7	-40.7	4	0.18	259	28	310.5	311.2	310.5
602.0	4267	-4.4	-40.9	4	0.18	260	28	310.7	311.4	310.7
571.0	4681	-7.7	-41.7	5	0.17	250	30	311.5	312.2	311.6
556.8	4877	-8.4	-43.3	4	0.15	245	31	313.0	313.5	313.0
555.0	4901	-8.5	-43.5	4	0.15	245	31	313.1	313.7	313.2
520.0	5402	-13.1	-38.1	10	0.28	248	35	313.5	314.5	313.5
500.0	5700	-14.7	-41.7	8	0.20	250	38	315.1	315.8	315.1
484.0	5945	-16.1	-47.1	5	0.11	253	40	316.3	316.7	316.3
474.3	6096	-17.5	-47.7	5	0.11	255	42	316.4	316.8	316.4
461.0	6309	-19.5	-48.5	6	0.10	248	42	316.5	316.9	316.5
436.9	6706	-21.3	-54.7	3	0.05	235	41	319.1	319.3	319.1

434.0	6755	-21.5	-55.5	3	0.05	236	42	319.4	319.6	319.4
419.1	7010	-23.7	-55.2	4	0.05	240	50	319.8	320.0	319.8
400.0	7350	-26.7	-54.7	5	0.06	245	51	320.2	320.4	320.2
384.9	7620	-29.1	-55.9	6	0.05	245	48	320.6	320.9	320.6
368.6	7925	-31.7	-57.3	6	0.05	245	48	321.1	321.3	321.1
328.0	8745	-38.9	-60.9	8	0.03	235	53	322.1	322.2	322.1
309.2	9144	-42.1	-63.4	8	0.02	230	56	323.1	323.2	323.1
300.0	9350	-43.7	-64.7	8	0.02	230	59	323.6	323.8	323.7
286.0	9670	-46.7	-64.7	11	0.02	228	60	323.8	323.9	323.8
260.0	10296	-52.3	-64.3	22	0.03	225	62	324.5	324.6	324.5
257.3	10363	-52.7	-65.2	21	0.02	225	62	324.9	325.0	324.9
250.0	10550	-53.7	-67.7	16	0.02	235	65	326.1	326.2	326.1
238.0	10864	-56.3	-70.3	16	0.01	236	65	326.8	326.9	326.8
212.0	11590	-61.1	-70.1	29	0.01	239	65	330.3	330.4	330.3
200.0	11950	-63.3	-72.3	29	0.01	240	65	332.4	332.4	332.4
192.0	12199	-64.9	-72.9	32	0.01	240	67	333.7	333.8	333.7
179.0	12624	-66.3	-73.3	37	0.01	240	71	338.2	338.2	338.2
174.0	12796	-64.3	-73.3	28	0.01	250	68	344.2	344.3	344.2
173.8	12802	-64.3	-73.4	28	0.01	250	68	344.3	344.4	344.3
169.0	12974	-63.9	-75.9	18	0.01	249	68	347.8	347.8	347.8
164.0	13158	-61.7	-77.7	10	0.01	248	69	354.4	354.5	354.4
151.0	13669	-61.1	-86.1	2	0.00	245	70	363.9	363.9	363.9
150.0	13710	-60.9	-86.9	2	0.00	245	70	365.0	365.0	365.0
149.0	13752	-59.9	-85.9	2	0.00	245	70	367.4	367.4	367.4
147.0	13836	-59.9	-86.9	2	0.00	244	71	368.8	368.8	368.8
145.0	13922	-58.3	-86.3	2	0.00	243	72	373.0	373.0	373.0
139.0	14188	-58.7	-88.7	1	0.00	240	74	376.9	376.9	376.9
136.0	14326	-57.6	-88.6	1	0.00	240	74	381.1	381.1	381.1
133.0	14467	-56.5	-88.5	1	0.00	240	70	385.6	385.6	385.6
130.0	14611	-57.5	-89.5	1	0.00	240	66	386.3	386.3	386.3
117.7	15240	-58.5	-89.7	1	0.00	240	48	395.6	395.7	395.6
115.0	15384	-58.7	-89.7	1	0.00	240	47	397.8	397.8	397.8
112.1	15545	-59.4	-90.4	1	0.00	240	46	399.5	399.5	399.5
109.0	15720	-60.1	-91.1	1	0.00	231	49	401.3	401.3	401.3
107.0	15835	-59.9	-90.9	1	0.00	226	52	403.8	403.9	403.8
106.8	15850	-59.8	-90.8	1	0.00	225	52	404.3	404.3	404.3
103.0	16074	-58.5	-89.5	1	0.00	233	53	410.9	410.9	410.9
100.0	16260	-59.3	-90.3	1	0.00	240	53	412.9	412.9	412.9
87.8	17069	-61.7	-92.0	1	0.00	220	27	423.7	423.8	423.7
82.2	17478	-62.9	-92.9	1	0.00	227	40	429.3	429.3	429.3
79.6	17678	-62.2	-92.2	1	0.00	230	47	434.8	434.8	434.8
77.8	17817	-61.7	-91.7	1	0.00	237	44	438.6	438.6	438.6
72.1	18288	-62.6	-92.6	1	0.00	260	35	446.4	446.4	446.4
70.0	18470	-62.9	-92.9	1	0.00	260	31	449.5	449.5	449.5
68.6	18593	-63.1	-93.1	1	0.00	240	30	451.6	451.6	451.6
64.7	18954	-63.7	-93.7	1	0.00	255	28	457.9	458.0	457.9
62.1	19202	-63.5	-93.5	1	0.00	265	26	463.8	463.8	463.8
59.1	19507	-63.2	-93.2	1	0.00	225	27	471.0	471.0	471.0
54.2	20043	-62.7	-92.7	1	0.00	240	21	484.0	484.0	484.0
51.8	20322	-63.7	-93.7	1	0.00	247	17	488.0	488.0	488.0
51.2	20394	-62.1	-92.1	1	0.00	249	16	493.4	493.4	493.4
51.0	20422	-62.3	-92.3	1	0.00	250	16	493.6	493.7	493.6
50.0	20540	-62.9	-92.9	1	0.00	255	20	494.8	494.8	494.8
48.5	20726	-62.4	-92.3	1	0.00	265	23	500.4	500.4	500.4
46.8	20948	-61.7	-91.7	1	0.00	212	15	507.1	507.2	507.1
44.1	21314	-63.1	-93.1	1	0.00	125	3	512.4	512.4	512.4
44.0	21336	-62.8	-92.9	1	0.00	120	2	513.6	513.6	513.6
42.6	21528	-60.5	-91.5	1	0.00	132	2	523.9	523.9	523.9
39.0	22078	-60.5	-91.5	1	0.00	165	3	537.3	537.3	537.3

33.0	23127	-56.3	-88.3	1	0.00	229	4	574.7	574.7	574.7
30.2	23688	-57.7	-89.7	1	0.00	262	5	585.6	585.7	585.6
30.0	23730	-57.5	-89.5	1	0.00	265	5	587.3	587.3	587.3
28.4	24079	-57.0	-89.0	1	0.01	265	12	597.9	598.0	597.9
27.1	24384	-56.6	-88.6	1	0.01	255	13	607.3	607.4	607.3
24.8	24935	-55.9	-87.9	1	0.01	270	14	624.7	624.8	624.7
23.4	25298	-56.6	-88.6	1	0.01	280	15	633.0	633.1	633.0
23.2	25357	-56.7	-88.7	1	0.01	275	15	634.4	634.5	634.4
22.3	25603	-56.3	-88.3	1	0.01	255	15	642.7	642.8	642.7
21.3	25908	-55.8	-87.8	1	0.01	260	14	653.1	653.2	653.1
20.3	26213	-55.2	-87.2	1	0.01	235	20	663.7	663.8	663.7
20.0	26300	-55.1	-87.1	1	0.01	235	20	666.8	666.9	666.8
19.2	26561	-54.5	-87.5	1	0.01	248	24	676.5	676.5	676.5
18.4	26834	-52.7	-85.7	1	0.01	261	28	690.4	690.5	690.4
17.6	27127	-53.8	-86.8	1	0.01	275	33	695.9	696.0	695.9
17.1	27305	-54.5	-87.5	1	0.01	269	30	699.2	699.3	699.2
16.8	27432	-54.1	-87.1	1	0.01	265	28	704.4	704.6	704.5
15.8	27813	-52.9	-85.9	1	0.02	256	27	720.4	720.6	720.4
15.2	28042	-53.0	-86.0	1	0.02	250	26	727.4	727.5	727.4
14.1	28546	-53.3	-86.3	1	0.02	253	22	742.9	743.1	742.9
13.2	28956	-52.0	-85.5	1	0.02	255	19	760.8	761.1	760.9
12.6	29261	-51.1	-84.9	1	0.02	260	29	774.5	774.8	774.5
12.4	29378	-50.7	-84.7	1	0.02			779.8	780.1	779.8

## Station information and sounding indices

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Station identifier: NKX
Station number: 72293
Observation time: 150405/1200
Station latitude: 32.85
Station longitude: -117.12
Station elevation: 137.0
Showalter index: 12.44
Lifted index: 4.19
LIFT computed using virtual temperature: 3.95
SWEAT index: 55.98
K index: -25.70
Cross totals index: 1.50
Vertical totals index: 25.50
Totals totals index: 27.00
Convective Available Potential Energy: 4.17
CAPE using virtual temperature: 4.96
Convective Inhibition: 0.00
CINS using virtual temperature: 0.00
Equilibrium Level: 907.89
Equilibrium Level using virtual temperature: 906.96
Level of Free Convection: 945.44
LFCT using virtual temperature: 947.23
Bulk Richardson Number: 0.11
Bulk Richardson Number using CAPV: 0.14
Temp [K] of the Lifted Condensation Level: 285.17
Pres [hPa] of the Lifted Condensation Level: 951.45
Mean mixed layer potential temperature: 289.27
Mean mixed layer mixing ratio: 9.36
1000 hPa to 500 hPa thickness: 5597.00
Precipitable water [mm] for entire sounding: 11.37

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# 72293 NKX San Diego Observations at 00Z 06 Apr 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	97									
995.0	137	19.2	11.2	60	8.46	265	13	292.8	317.2	294.3
990.0	180	18.2	11.2	64	8.50	256	14	292.2	316.7	293.7
975.7	305	16.3	10.4	68	8.17	230	15	291.5	315.0	292.9
957.0	470	13.8	9.3	74	7.74	217	13	290.6	312.8	291.9
941.3	610	12.4	8.8	79	7.59	205	11	290.5	312.3	291.9
930.0	712	11.4	8.4	82	7.49	215	11	290.5	312.0	291.8
925.0	757	12.6	-3.4	33	3.23	220	11	292.2	301.9	292.8
921.0	793	13.2	-8.8	21	2.14	221	11	293.2	299.8	293.5
907.8	914	12.5	-11.5	18	1.76	225	10	293.7	299.2	294.0
875.2	1219	10.9	-18.3	11	1.04	255	7	295.1	298.4	295.2
870.0	1269	10.6	-19.4	10	0.95	255	8	295.3	298.4	295.4
850.0	1462	10.8	-34.2	3	0.25	255	10	297.4	298.3	297.5
848.0	1482	10.6	-33.4	3	0.27	256	10	297.4	298.4	297.5
812.7	1829	8.5	-34.4	3	0.26	270	13	298.9	299.8	298.9
782.9	2134	6.7	-35.2	3	0.25	245	13	300.1	301.0	300.1
754.3	2438	4.9	-36.1	3	0.23	245	18	301.3	302.2	301.4
726.7	2743	3.0	-36.9	3	0.22	260	19	302.6	303.4	302.6
700.0	3049	1.2	-37.8	4	0.21	255	21	303.8	304.6	303.8
652.0	3617	-2.1	-33.1	7	0.36	246	26	306.3	307.6	306.4
648.6	3658	-2.2	-35.1	6	0.30	245	26	306.7	307.8	306.7
632.0	3865	-2.5	-45.5	2	0.10	242	27	308.6	309.0	308.6
600.5	4267	-5.1	-45.5	3	0.11	235	30	310.1	310.5	310.1
577.6	4572	-7.1	-45.5	3	0.11	235	29	311.2	311.7	311.2
573.0	4635	-7.5	-45.5	3	0.11	236	30	311.5	311.9	311.5
555.4	4877	-9.6	-37.9	8	0.27	240	32	311.8	312.8	311.9
546.0	5009	-10.7	-33.7	13	0.41	240	33	312.0	313.5	312.1
529.0	5252	-12.5	-49.5	3	0.08	240	36	312.7	313.0	312.7
513.0	5486	-14.3	-37.3	12	0.30	240	38	313.2	314.4	313.3
500.0	5680	-15.5	-39.5	11	0.25	240	40	314.1	315.0	314.1
472.9	6096	-18.7	-42.7	10	0.19	245	46	315.1	315.9	315.2
457.0	6351	-20.7	-44.7	10	0.16	243	47	315.8	316.4	315.8
419.0	6986	-25.7	-46.7	12	0.14	238	49	317.3	317.8	317.3
411.0	7125	-26.9	-42.9	21	0.21	237	49	317.5	318.3	317.5
400.0	7320	-28.5	-44.5	20	0.18	235	50	317.9	318.6	317.9
383.4	7620	-30.8	-46.5	20	0.15	235	52	318.7	319.3	318.8
354.0	8182	-35.1	-50.1	20	0.11	235	57	320.3	320.7	320.3
334.0	8584	-38.5	-51.5	24	0.10	235	61	321.0	321.4	321.0
328.0	8708	-39.5	-54.5	19	0.07	235	63	321.3	321.6	321.3
315.0	8982	-41.9	-48.9	46	0.14	235	65	321.7	322.2	321.7
307.5	9144	-43.5	-49.1	54	0.14	235	67	321.7	322.2	321.7
301.0	9288	-44.9	-49.3	61	0.14	235	65	321.7	322.2	321.7
300.0	9310	-45.1	-49.5	61	0.14	235	65	321.7	322.2	321.7
290.0	9535	-46.9	-52.9	50	0.10	235	65	322.2	322.6	322.3
283.0	9696	-47.9	-56.9	35	0.06	235	66	323.1	323.3	323.1
256.0	10348	-53.3	-62.3	33	0.03	235	67	324.5	324.6	324.5
250.0	10500	-54.3	-65.3	25	0.02	235	67	325.2	325.3	325.2
245.0	10630	-54.9	-67.9	18	0.02	235	67	326.2	326.3	326.2
228.0	11089	-56.9	-69.9	18	0.01	233	67	329.9	330.0	329.9
200.0	11910	-62.5	-70.5	33	0.01	230	68	333.6	333.7	333.6
199.0	11941	-62.7	-70.7	33	0.01	230	68	333.8	333.9	333.8
181.0	12521	-64.5	-73.5	28	0.01	235	71	340.0	340.1	340.0
172.9	12802	-63.1	-77.1	13	0.01	235	65	346.8	346.9	346.8

158.0	13357	-60.3	-84.3	3	0.00	239	75	360.6	360.6	360.6
153.0	13557	-60.5	-85.8	2	0.00	240	79	363.5	363.5	363.5
150.0	13680	-60.7	-86.7	2	0.00	240	77	365.3	365.3	365.3
149.1	13716	-60.9	-87.7	2	0.00	240	79	365.6	365.6	365.6
149.0	13722	-60.9	-87.9	2	0.00	240	79	365.7	365.7	365.7
142.0	14023	-59.1	-88.1	1	0.00	238	72	373.9	373.9	373.9
139.0	14157	-59.9	-88.9	1	0.00	238	69	374.8	374.8	374.8
135.0	14340	-59.1	-89.1	1	0.00	237	65	379.3	379.3	379.3
133.0	14434	-59.7	-89.7	1	0.00	236	62	379.9	379.9	379.9
131.0	14529	-58.1	-88.1	1	0.00	236	60	384.4	384.4	384.4
128.9	14630	-58.5	-88.5	1	0.00	235	58	385.4	385.4	385.4
126.0	14774	-59.1	-89.1	1	0.00	236	59	386.9	386.9	386.9
122.0	14977	-59.3	-90.3	1	0.00	238	61	390.1	390.1	390.1
117.0	15240	-57.8	-89.5	1	0.00	240	64	397.6	397.6	397.6
115.0	15350	-57.1	-89.1	1	0.00	237	64	400.8	400.8	400.8
110.0	15631	-58.9	-89.9	1	0.00	230	63	402.5	402.6	402.5
106.2	15850	-59.4	-90.4	1	0.00	225	63	405.6	405.6	405.6
104.0	15983	-59.7	-90.7	1	0.00	232	62	407.5	407.5	407.5
101.0	16167	-58.7	-89.7	1	0.00	242	61	412.9	412.9	412.9
100.0	16230	-57.5	-89.5	1	0.00	245	61	416.4	416.4	416.4
89.4	16932	-60.5	-91.5	1	0.00	247	48	423.9	423.9	423.9
87.0	17101	-59.3	-90.3	1	0.00	247	45	429.6	429.6	429.6
73.8	18131	-59.1	-90.1	1	0.00	250	27	450.7	450.8	450.7
72.0	18288	-60.2	-91.2	1	0.00	250	24	451.6	451.6	451.6
70.0	18460	-61.5	-92.5	1	0.00	240	25	452.5	452.5	452.5
68.5	18593	-62.1	-92.7	1	0.00	230	29	453.9	453.9	453.9
66.7	18758	-62.9	-92.9	1	0.00	230	31	455.7	455.7	455.7
62.1	19202	-62.9	-92.3	1	0.00	230	36	465.2	465.2	465.2
59.1	19507	-62.9	-92.0	1	0.00	245	38	471.9	471.9	471.9
58.5	19565	-62.9	-91.9	1	0.00	251	36	473.1	473.1	473.1
55.5	19892	-58.7	-89.7	1	0.00	283	22	489.9	489.9	489.9
51.0	20422	-62.6	-92.0	1	0.00	335	1	492.8	492.8	492.8
50.0	20540	-63.5	-92.5	1	0.00	265	6	493.4	493.4	493.4
49.3	20626	-63.7	-92.7	1	0.00	251	14	494.9	494.9	494.9
48.5	20726	-62.4	-92.0	1	0.00	235	22	500.3	500.4	500.3
45.4	21139	-56.9	-88.9	1	0.00	204	8	523.2	523.2	523.2
44.0	21336	-57.9	-89.5	1	0.00	190	1	525.5	525.5	525.5
42.1	21614	-59.3	-90.3	1	0.00	202	3	528.6	528.7	528.6
39.4	22031	-57.3	-89.3	1	0.00	220	6	543.8	543.8	543.8
37.4	22358	-59.1	-90.1	1	0.00	235	8	547.4	547.4	547.4
36.0	22598	-57.3	-89.3	1	0.00	245	10	558.0	558.0	558.0
32.9	23165	-57.1	-89.1	1	0.00	270	14	573.0	573.1	573.0
31.4	23470	-57.0	-89.0	1	0.00	300	3	581.3	581.3	581.3
30.0	23750	-56.9	-88.9	1	0.00	260	7	588.9	589.0	588.9
28.9	23987	-57.1	-89.1	1	0.00	249	8	594.7	594.8	594.7
27.2	24384	-56.5	-88.7	1	0.01	230	10	607.1	607.2	607.1
24.7	24994	-55.5	-88.0	1	0.01	245	14	626.7	626.8	626.7
23.5	25298	-55.0	-87.7	1	0.01	275	16	636.7	636.7	636.7
21.4	25903	-54.1	-87.1	1	0.01	272	21	657.0	657.1	657.0
20.7	26118	-52.5	-85.5	1	0.01	271	23	668.1	668.2	668.1
20.0	26340	-53.1	-86.1	1	0.01	270	25	672.9	673.0	672.9
19.4	26518	-53.6	-86.6	1	0.01	255	24	676.6	676.7	676.6
19.2	26602	-53.9	-86.9	1	0.01	256	25	678.3	678.4	678.3
16.9	27432	-49.0	-83.4	1	0.02	270	30	719.2	719.5	719.2
16.1	27750	-47.1	-82.1	1	0.03	255	31	735.4	735.8	735.4
16.1	27737	-47.2	-82.2	1	0.03	255	31	734.8	735.1	734.8
14.1	28625	-48.7	-82.7	1	0.03	255	39	758.4	758.8	758.4
13.3	29010	-46.3	-81.3	1	0.04	255	42	779.4	779.9	779.5
12.8	29261	-46.9	-81.6	1	0.04	255	44	785.8	786.3	785.8

11.6	29914	-48.5	-82.5	1	0.04	258	42	802.6	803.1	802.6
11.1	30205	-46.5	-81.5	1	0.05	259	41	820.0	820.6	820.1
10.7	30480	-46.7	-81.7	1	0.05	260	40	829.1	829.8	829.2
10.6	30511	-46.7	-81.7	1	0.05	259	40	830.2	830.8	830.2
10.2	30785	-44.1	-80.0	1	0.07	250	38	849.5	850.3	849.5
10.1	30833	-43.7	-79.7	1	0.07	252	38	852.9	853.8	852.9
10.0	30900	-43.5	-79.5	1	0.07	255	37	856.0	857.0	856.1
9.6	31174	-43.7	-79.7	1	0.07			865.3	866.3	865.4

## Station information and sounding indices

Station identifier: NKX  
 Station number: 72293  
 Observation time: 150406/0000  
 Station latitude: 32.85  
 Station longitude: -117.12  
 Station elevation: 137.0  
 Showalter index: 14.64  
 Lifted index: 4.32  
 LIFT computed using virtual temperature: 4.12  
 SWEAT index: 60.00  
 K index: -46.90  
 Cross totals index: -18.70  
 Vertical totals index: 26.30  
 Totals totals index: 7.60  
 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: 281.88  
 Pres [hPa] of the Lifted Condensation Level: 892.30  
 Mean mixed layer potential temperature: 291.21  
 Mean mixed layer mixing ratio: 8.00  
 1000 hPa to 500 hPa thickness: 5583.00  
 Precipitable water [mm] for entire sounding: 7.71

## 72293 NKX San Diego Observations at 12Z 06 Apr 2015

PRES	HGHT	TEMP	DWPT	RELH	MIXR	DRCT	SKNT	THTA	THTE	THTV
hPa	m	C	C	%	g/kg	deg	knot	K	K	K
1000.0	112									
997.0	137	11.4	9.5	88	7.53	75	4	284.8	305.9	286.1
992.0	179	13.4	10.4	82	8.04	64	4	287.2	309.9	288.6
988.0	213	13.8	9.7	76	7.70	55	3	287.9	309.8	289.3
977.2	305	13.0	9.5	80	7.69	30	2	288.0	309.8	289.3
942.3	610	10.2	8.9	92	7.65	270	6	288.2	309.9	289.5
925.0	765	8.8	8.6	99	7.63	275	5	288.3	310.0	289.6
908.5	914	7.4	7.2	99	7.08	260	4	288.4	308.6	289.6
908.0	918	7.4	7.2	99	7.06	260	4	288.4	308.5	289.6
894.0	1046	6.6	4.2	85	5.81	269	7	288.9	305.6	289.9
875.3	1219	5.3	2.6	83	5.31	280	10	289.2	304.6	290.2
860.0	1364	4.2	1.3	81	4.91	286	15	289.6	303.9	290.4
850.0	1459	4.2	1.0	80	4.86	290	18	290.5	304.8	291.4
838.0	1575	3.8	-0.2	75	4.52	281	20	291.3	304.6	292.1
829.0	1662	3.8	-5.2	52	3.15	274	22	292.2	301.7	292.8



820.0	1751	3.8	-6.2	48	2.95	266	24	293.1	302.1	293.6
815.0	1801	4.2	-6.8	45	2.83	262	24	294.0	302.7	294.6
812.2	1829	4.5	-5.6	48	3.12	260	25	294.6	304.1	295.2
809.0	1861	4.8	-4.2	52	3.48	259	25	295.3	305.9	295.9
801.0	1942	5.2	-17.8	17	1.18	258	24	296.6	300.4	296.8
787.0	2086	4.4	-24.6	10	0.67	256	23	297.2	299.5	297.3
783.0	2127	4.0	-14.0	26	1.66	255	23	297.2	302.5	297.5
782.3	2134	3.9	-13.9	26	1.68	255	23	297.2	302.6	297.5
772.0	2242	3.0	-12.0	32	1.98	251	23	297.3	303.6	297.7
764.0	2326	3.2	-30.8	6	0.39	249	23	298.4	299.8	298.5
753.5	2438	3.1	-35.3	4	0.25	245	23	299.5	300.4	299.6
738.0	2606	3.0	-42.0	2	0.13	251	26	301.2	301.7	301.2
725.5	2743	2.5	-41.5	2	0.14	255	28	302.1	302.6	302.1
700.0	3032	1.4	-40.6	3	0.16	250	35	304.0	304.6	304.0
670.0	3383	-0.3	-40.3	3	0.17	244	37	305.9	306.6	306.0
659.0	3516	-1.3	-28.3	11	0.57	242	38	306.2	308.2	306.4
647.2	3658	-2.2	-28.4	11	0.57	240	39	306.8	308.8	306.9
599.2	4267	-6.0	-29.1	14	0.58	240	46	309.2	311.3	309.4
598.0	4283	-6.1	-29.1	14	0.58	240	46	309.3	311.4	309.4
591.0	4375	-6.3	-48.3	2	0.08	240	46	310.1	310.4	310.1
581.0	4508	-6.9	-40.9	5	0.19	240	46	310.9	311.6	311.0
553.7	4877	-9.8	-40.3	6	0.21	240	45	311.8	312.6	311.9
500.0	5660	-15.9	-38.9	12	0.26	235	52	313.6	314.6	313.6
475.0	6044	-19.5	-41.5	12	0.21	235	50	313.8	314.6	313.8
471.7	6096	-19.6	-46.1	8	0.13	235	50	314.2	314.7	314.2
466.0	6186	-19.9	-53.9	3	0.05	235	50	315.0	315.2	315.0
437.0	6659	-22.9	-49.9	7	0.09	233	47	317.0	317.4	317.0
400.0	7300	-28.5	-55.5	6	0.05	230	44	317.9	318.1	317.9
399.1	7315	-28.6	-55.6	6	0.05	235	44	317.9	318.1	317.9
382.0	7620	-31.4	-56.7	6	0.05	235	46	318.2	318.4	318.2
331.0	8619	-40.5	-60.5	10	0.03	239	49	319.1	319.2	319.1
320.4	8839	-42.0	-62.0	10	0.03	240	50	320.0	320.1	320.0
314.0	8975	-42.9	-62.9	9	0.03	240	53	320.6	320.7	320.6
306.2	9144	-44.5	-61.1	14	0.03	240	57	320.7	320.9	320.7
300.0	9280	-45.7	-59.7	19	0.04	240	57	320.8	321.0	320.8
281.0	9712	-49.9	-60.9	26	0.04	240	69	320.9	321.0	320.9
271.0	9949	-51.3	-66.3	15	0.02	240	75	322.2	322.2	322.2
266.5	10058	-51.9	-67.1	14	0.02	240	78	322.9	322.9	322.9
250.0	10470	-54.1	-70.1	12	0.01	245	76	325.5	325.6	325.5
238.0	10784	-56.1	-71.1	14	0.01	244	76	327.1	327.1	327.1
213.0	11481	-61.1	-73.1	19	0.01	241	77	329.9	329.9	329.9
200.0	11870	-62.5	-74.5	18	0.01	240	77	333.6	333.7	333.6
187.0	12283	-64.5	-75.5	21	0.01	245	76	336.9	336.9	336.9
177.0	12619	-64.9	-75.9	21	0.01	245	70	341.6	341.6	341.6
174.0	12724	-63.9	-75.9	18	0.01	245	68	344.9	344.9	344.9
171.8	12802	-63.9	-76.5	16	0.01	245	67	346.1	346.2	346.1
167.0	12976	-63.9	-77.9	13	0.01	245	70	348.9	349.0	348.9
163.0	13125	-61.9	-77.9	10	0.01	245	72	354.7	354.8	354.7
157.0	13357	-62.5	-82.5	5	0.00	245	76	357.5	357.5	357.5
153.0	13517	-61.3	-83.3	4	0.00	245	78	362.2	362.2	362.2
150.0	13640	-61.7	-84.7	3	0.00	245	80	363.6	363.6	363.6
134.0	14341	-60.1	-88.1	1	0.00	241	83	378.3	378.4	378.3
129.0	14578	-60.1	-88.1	1	0.00	240	84	382.5	382.5	382.5
127.9	14630	-60.1	-88.1	1	0.00	240	84	383.4	383.4	383.4
124.0	14825	-60.1	-88.1	1	0.00	240	81	386.8	386.8	386.8
120.0	15030	-58.5	-87.5	1	0.00	240	79	393.4	393.4	393.4
118.0	15136	-58.9	-87.9	1	0.00	240	77	394.6	394.6	394.6
116.1	15240	-58.5	-87.9	1	0.00	240	76	397.1	397.1	397.1
113.0	15408	-57.9	-87.9	1	0.00	240	73	401.3	401.3	401.3

110.0	15577	-58.7	-88.7	1	0.00	240	71	402.9	402.9	402.9
107.0	15752	-56.9	-87.9	1	0.00	240	68	409.5	409.5	409.5
104.0	15932	-56.7	-87.7	1	0.00	240	65	413.2	413.2	413.2
100.0	16180	-57.3	-89.3	1	0.00	240	61	416.7	416.8	416.7
95.7	16459	-55.3	-87.3	1	0.00	238	54	425.9	425.9	425.9
91.2	16764	-56.1	-88.1	1	0.00	235	46	430.2	430.3	430.2
85.8	17151	-57.1	-89.1	1	0.00	237	44	435.8	435.8	435.8
82.1	17430	-55.7	-87.7	1	0.00	238	43	444.2	444.2	444.2
75.2	17983	-59.0	-89.4	1	0.00	240	41	448.6	448.6	448.6
71.6	18288	-60.9	-90.3	1	0.00	225	32	450.9	450.9	450.9
70.0	18430	-61.7	-90.7	1	0.00	220	33	452.0	452.1	452.0
68.2	18593	-63.1	-91.7	1	0.00	215	35	452.4	452.5	452.4
65.9	18802	-64.9	-92.9	1	0.00	229	36	452.9	452.9	452.9
64.9	18898	-64.2	-92.4	1	0.00	235	36	456.5	456.5	456.5
61.8	19202	-62.0	-90.6	1	0.00	250	26	467.7	467.7	467.7
59.1	19475	-60.1	-89.1	1	0.00	230	17	478.0	478.1	478.0
56.0	19812	-61.7	-90.3	1	0.00	205	7	481.9	481.9	481.9
51.9	20280	-63.9	-91.9	1	0.00	235	12	487.3	487.3	487.3
50.0	20510	-62.3	-91.3	1	0.00	250	14	496.2	496.3	496.2
48.9	20648	-60.5	-89.5	1	0.00	254	13	503.7	503.7	503.7
46.0	21031	-61.0	-90.5	1	0.00	265	12	511.5	511.5	511.5
44.0	21304	-61.3	-91.3	1	0.00	229	8	517.1	517.2	517.1
43.8	21336	-61.2	-91.2	1	0.00	225	7	518.1	518.2	518.1
39.7	21946	-59.4	-90.2	1	0.00	250	11	537.4	537.5	537.4
39.1	22039	-59.1	-90.1	1	0.00	235	11	540.4	540.5	540.4
37.8	22250	-59.1	-90.2	1	0.00	200	11	545.5	545.6	545.5
33.9	22933	-59.3	-90.3	1	0.00	252	11	562.4	562.4	562.4
33.2	23064	-56.7	-88.7	1	0.00	262	10	572.6	572.7	572.6
31.4	23419	-54.9	-86.9	1	0.01	288	10	586.7	586.7	586.7
30.0	23710	-54.9	-86.9	1	0.01	310	10	594.4	594.4	594.4
29.7	23774	-54.7	-86.8	1	0.01	310	10	596.6	596.7	596.6
28.3	24079	-53.7	-86.6	1	0.01	305	11	607.5	607.5	607.5
28.0	24153	-53.5	-86.5	1	0.01	312	10	610.1	610.2	610.1
27.0	24384	-54.3	-86.9	1	0.01	335	7	614.2	614.3	614.2
25.3	24802	-55.7	-87.7	1	0.01	328	11	621.7	621.8	621.8
24.1	25112	-55.1	-87.1	1	0.01	324	13	632.2	632.3	632.2
22.4	25583	-51.5	-84.5	1	0.01	316	18	656.2	656.3	656.2
20.0	26320	-51.1	-85.1	1	0.01	305	24	679.0	679.1	679.0
19.4	26518	-51.0	-85.0	1	0.01	265	27	685.2	685.4	685.2
18.6	26792	-50.9	-84.9	1	0.02			693.9	694.0	693.9

## Station information and sounding indices

Station identifier: NKX  
 Station number: 72293  
 Observation time: 150406/1200  
 Station latitude: 32.85  
 Station longitude: -117.12  
 Station elevation: 137.0  
 Showalter index: 9.84  
 Lifted index: 6.67  
 LIFT computed using virtual temperature: 6.52  
 SWEAT index: 100.01  
 K index: -20.90  
 Cross totals index: 16.90  
 Vertical totals index: 20.10  
 Totals totals index: 37.00  
 Convective Available Potential Energy: 16.18  
 CAPE using virtual temperature: 23.15

Convective Inhibition: -1.79  
 CINS using virtual temperature: -1.73  
 Equilibrium Level: 831.48  
 Equilibrium Level using virtual temperature: 822.36  
 Level of Free Convection: 918.02  
 LFCT using virtual temperature: 918.59  
 Bulk Richardson Number: 0.17  
 Bulk Richardson Number using CAPV: 0.24  
 Temp [K] of the Lifted Condensation Level: 281.94  
 Pres [hPa] of the Lifted Condensation Level: 929.93  
 Mean mixed layer potential temperature: 287.87  
 Mean mixed layer mixing ratio: 7.70  
 1000 hPa to 500 hPa thickness: 5548.00  
 Precipitable water [mm] for entire sounding: 13.38

## 72293 NKX San Diego Observations at 00Z 07 Apr 2015

PRES	HGHT	TEMP	DWPT	RELH	MIXR	DRCT	SKNT	THTA	THTE	THTV
hPa	m	C	C	%	g/kg	deg	knot	K	K	K
1000.0	125									
999.0	137	17.8	6.8	49	6.24	300	10	291.0	309.1	292.1
991.0	205	16.4	5.4	48	5.70	288	10	290.3	306.9	291.3
979.3	305	14.8	4.8	51	5.54	270	11	289.7	305.7	290.7
956.0	506	11.6	3.6	58	5.21	270	11	288.4	303.5	289.3
944.1	610	10.5	3.3	61	5.16	270	11	288.4	303.3	289.3
925.0	779	8.8	2.8	66	5.09	265	7	288.3	303.0	289.2
910.0	914	7.7	2.4	69	5.03	250	5	288.5	303.1	289.4
884.0	1153	5.8	1.7	75	4.92	199	10	288.9	303.2	289.8
876.9	1219	5.4	0.9	73	4.69	185	11	289.2	302.9	290.1
872.0	1264	5.2	0.4	71	4.54	189	12	289.5	302.7	290.2
868.0	1302	5.6	-1.4	61	4.00	192	12	290.3	302.1	291.0
863.0	1349	7.0	-16.0	18	1.28	195	13	292.2	296.3	292.4
860.0	1378	7.4	-25.6	7	0.56	197	13	292.9	294.8	293.0
851.0	1464	7.0	-30.0	5	0.37	204	15	293.4	294.6	293.4
850.0	1474	7.0	-27.0	7	0.50	205	15	293.5	295.1	293.6
847.0	1503	7.0	-18.0	15	1.10	209	15	293.8	297.3	294.0
838.0	1591	6.4	-13.6	22	1.61	220	13	294.0	299.1	294.3
825.0	1719	6.0	-20.0	13	0.95	236	11	294.9	298.0	295.1
813.9	1829	5.0	-19.3	15	1.03	250	9	295.1	298.4	295.2
786.0	2113	2.6	-17.4	21	1.25	250	16	295.4	299.4	295.6
783.9	2134	2.5	-18.0	20	1.19	250	17	295.5	299.3	295.7
772.0	2258	1.6	-21.4	16	0.90	252	20	295.8	298.8	296.0
768.0	2299	1.4	-15.6	27	1.49	253	21	296.1	300.8	296.3
761.0	2373	1.8	-25.2	11	0.65	254	23	297.3	299.5	297.4
754.9	2438	1.8	-24.2	12	0.72	255	25	297.9	300.3	298.0
737.0	2631	1.6	-21.4	16	0.94	239	27	299.8	302.9	299.9
726.8	2743	0.7	-20.9	18	1.00	230	28	300.0	303.4	300.2
715.0	2874	-0.3	-20.3	20	1.07	234	28	300.3	303.9	300.5
700.0	3044	-0.3	-32.3	7	0.37	240	29	302.1	303.4	302.2
698.0	3067	-0.3	-34.3	6	0.30	240	30	302.4	303.5	302.4
672.0	3370	-1.1	-37.1	5	0.24	240	37	304.8	305.6	304.8
648.0	3658	-2.5	-45.5	2	0.10	240	44	306.4	306.8	306.4
638.0	3782	-3.1	-49.1	1	0.07	240	44	307.1	307.3	307.1
599.7	4267	-6.7	-39.5	5	0.21	240	46	308.3	309.1	308.4
592.0	4368	-7.5	-37.5	7	0.26	240	48	308.6	309.5	308.6
564.0	4744	-9.5	-45.5	4	0.12	240	55	310.5	311.0	310.5
554.3	4877	-10.7	-44.1	5	0.14	240	58	310.7	311.2	310.7

531.0	5205	-13.5	-40.5	8	0.21	238	59	311.1	311.9	311.2
500.0	5660	-16.5	-45.5	6	0.13	235	61	312.9	313.4	312.9
486.0	5873	-18.3	-45.3	7	0.14	237	62	313.2	313.7	313.2
471.7	6096	-19.8	-37.6	19	0.32	240	64	314.0	315.2	314.1
469.0	6138	-20.1	-36.1	23	0.38	240	65	314.2	315.6	314.2
452.0	6412	-22.1	-42.1	15	0.21	240	68	315.0	315.8	315.0
444.0	6543	-23.3	-37.3	27	0.35	240	70	315.1	316.4	315.1
438.0	6642	-23.7	-43.7	14	0.18	240	71	315.8	316.5	315.8
434.2	6706	-24.2	-44.0	14	0.18	240	72	316.0	316.7	316.0
418.0	6983	-26.3	-45.3	15	0.16	242	71	316.7	317.4	316.8
410.0	7122	-27.3	-51.3	8	0.08	243	70	317.2	317.5	317.2
400.0	7300	-28.9	-53.9	7	0.06	245	69	317.4	317.6	317.4
382.2	7620	-31.6	-55.1	8	0.06	245	70	318.0	318.2	318.0
365.0	7945	-34.3	-56.3	9	0.05	245	72	318.6	318.8	318.6
354.0	8158	-35.9	-52.9	16	0.08	245	73	319.2	319.5	319.2
349.0	8256	-36.9	-46.9	35	0.16	245	74	319.1	319.8	319.2
344.0	8355	-37.7	-54.7	15	0.07	245	75	319.4	319.7	319.4
340.0	8436	-38.3	-56.3	13	0.06	245	75	319.6	319.9	319.6
325.0	8743	-41.1	-52.1	29	0.10	245	77	319.9	320.3	319.9
315.0	8954	-42.7	-47.7	58	0.16	245	79	320.6	321.2	320.6
306.2	9144	-44.3	-49.9	54	0.13	245	80	320.9	321.4	320.9
300.0	9280	-45.5	-51.5	51	0.11	245	80	321.1	321.6	321.1
294.0	9414	-46.5	-53.5	45	0.09	245	80	321.6	321.9	321.6
282.0	9690	-48.7	-53.5	57	0.09	245	81	322.2	322.6	322.3
274.0	9878	-50.3	-57.3	43	0.06	245	82	322.6	322.9	322.6
263.0	10144	-52.5	-57.5	55	0.06	245	83	323.2	323.4	323.2
253.0	10394	-54.7	-59.7	54	0.05	245	84	323.5	323.7	323.5
250.0	10470	-55.3	-61.3	47	0.04	245	84	323.7	323.9	323.7
248.0	10521	-55.7	-61.7	47	0.04	245	84	323.9	324.0	323.9
240.0	10730	-56.5	-66.5	27	0.02	245	85	325.7	325.8	325.7
232.0	10944	-58.1	-69.1	23	0.01	245	86	326.5	326.5	326.5
221.0	11250	-58.9	-70.9	20	0.01	245	87	329.8	329.9	329.8
212.0	11509	-61.1	-73.1	19	0.01	245	88	330.3	330.4	330.3
200.0	11870	-62.7	-73.7	21	0.01	245	90	333.3	333.4	333.3
199.4	11887	-62.8	-73.8	21	0.01	245	90	333.4	333.5	333.4
196.0	11994	-63.3	-74.3	21	0.01	245	89	334.3	334.3	334.3
186.0	12316	-63.3	-75.3	18	0.01	245	87	339.3	339.4	339.3
178.0	12587	-61.7	-76.7	12	0.01	245	86	346.2	346.3	346.2
171.0	12834	-63.3	-80.3	8	0.00	245	84	347.6	347.6	347.6
165.0	13055	-60.3	-81.3	5	0.00	245	83	356.2	356.2	356.2
151.0	13608	-59.5	-88.5	1	0.00	245	80	366.7	366.7	366.7
150.0	13650	-59.1	-89.1	1	0.00	245	80	368.1	368.1	368.1
145.0	13864	-56.5	-88.5	1	0.00	244	79	376.2	376.2	376.2
142.0	13997	-55.5	-87.5	1	0.00	244	78	380.2	380.2	380.2
127.0	14704	-58.5	-89.5	1	0.00	242	73	387.1	387.1	387.1
121.0	15008	-58.5	-89.5	1	0.00	241	71	392.5	392.5	392.5
118.0	15166	-59.3	-90.3	1	0.00	240	70	393.8	393.8	393.8
116.6	15240	-58.9	-90.1	1	0.00	240	69	395.9	395.9	395.9
112.0	15494	-57.5	-89.5	1	0.00	240	68	403.1	403.1	403.1
111.1	15545	-57.4	-89.4	1	0.00	240	68	404.2	404.2	404.2
107.0	15783	-56.9	-88.9	1	0.00	242	61	409.5	409.5	409.5
102.0	16085	-58.3	-89.3	1	0.00	244	53	412.5	412.5	412.5
100.0	16210	-57.5	-89.5	1	0.00	245	49	416.4	416.4	416.4
94.5	16566	-59.1	-90.1	1	0.00	243	49	420.0	420.0	420.0
88.4	16986	-57.9	-89.9	1	0.00	242	50	430.5	430.5	430.5
83.1	17374	-58.8	-90.1	1	0.00	240	50	436.2	436.2	436.2
81.7	17483	-59.1	-90.1	1	0.00	238	46	437.8	437.8	437.8
79.2	17678	-58.0	-89.5	1	0.00	235	40	443.9	443.9	443.9
76.2	17923	-56.7	-88.7	1	0.00	211	31	451.6	451.7	451.6

75.5	17983	-56.9	-88.9	1	0.00	205	29	452.4	452.4	452.4
72.5	18238	-57.9	-89.9	1	0.00	243	32	455.6	455.6	455.6
71.9	18288	-57.5	-89.5	1	0.00	250	32	457.5	457.5	457.5
70.9	18379	-56.7	-88.7	1	0.00	258	29	461.1	461.1	461.1
70.0	18460	-56.9	-88.9	1	0.00	265	26	462.3	462.3	462.3
68.5	18593	-57.7	-89.4	1	0.00	265	24	463.4	463.4	463.4
65.2	18898	-59.6	-90.7	1	0.00	260	10	465.7	465.8	465.7
62.1	19202	-61.5	-91.9	1	0.00	225	12	468.1	468.1	468.1
59.1	19507	-63.5	-93.2	1	0.00	210	16	470.4	470.4	470.4
56.3	19812	-65.4	-94.4	1	0.00	220	30	472.7	472.7	472.7
56.1	19835	-65.5	-94.5	1	0.00	222	30	472.9	472.9	472.9
54.6	20001	-62.3	-92.3	1	0.00	236	32	483.9	483.9	483.9
53.6	20117	-61.4	-91.7	1	0.00	245	34	488.6	488.6	488.6
51.0	20426	-58.9	-89.9	1	0.00	245	3	501.4	501.4	501.4
51.0	20422	-58.9	-89.9	1	0.00	245	3	501.2	501.2	501.2
50.0	20550	-60.1	-91.1	1	0.00	235	3	501.4	501.4	501.4
48.2	20777	-61.9	-91.9	1	0.00	236	6	502.4	502.4	502.4
46.6	20986	-60.5	-91.5	1	0.00	238	8	510.6	510.7	510.6
44.2	21314	-61.3	-92.3	1	0.00	240	12	516.5	516.5	516.5
44.0	21336	-61.0	-92.0	1	0.00	240	12	517.8	517.8	517.8
42.9	21500	-58.5	-89.5	1	0.00	264	14	527.8	527.8	527.8
42.0	21641	-58.0	-89.6	1	0.00	285	15	532.4	532.4	532.4
41.4	21724	-57.7	-89.7	1	0.00	286	15	535.2	535.2	535.2
38.7	22146	-60.1	-91.1	1	0.00	293	13	539.5	539.5	539.5
36.9	22443	-59.3	-90.3	1	0.00	298	12	549.0	549.0	549.0
35.9	22616	-56.9	-88.9	1	0.00	301	12	559.5	559.5	559.5
33.9	22977	-58.1	-89.1	1	0.00	307	11	565.6	565.6	565.6
32.9	23165	-57.7	-89.1	1	0.00	310	10	571.5	571.6	571.5
31.6	23420	-57.1	-89.1	1	0.00	303	10	579.7	579.8	579.7
30.0	23750	-54.3	-87.3	1	0.01	295	11	596.0	596.1	596.0
29.9	23774	-54.0	-87.0	1	0.01	280	11	597.5	597.5	597.5
29.7	23815	-53.5	-86.5	1	0.01	289	11	599.9	600.0	599.9
27.2	24384	-55.0	-87.4	1	0.01	60	6	611.2	611.3	611.2
25.9	24689	-55.8	-87.8	1	0.01	180	1	617.4	617.4	617.4
25.7	24740	-55.9	-87.9	1	0.01	200	3	618.4	618.5	618.4
24.9	24942	-53.9	-86.9	1	0.01	280	10	629.8	629.8	629.8
24.7	24994	-53.8	-86.8	1	0.01	300	12	631.6	631.7	631.6
23.6	25298	-53.0	-86.3	1	0.01	285	11	642.4	642.5	642.4
22.5	25603	-52.2	-85.8	1	0.01	300	24	653.3	653.5	653.3
20.7	26136	-50.9	-84.9	1	0.01	291	28	673.0	673.1	673.0
20.5	26213	-50.8	-84.8	1	0.01	290	29	675.5	675.6	675.5
20.0	26360	-50.7	-84.7	1	0.02	300	33	680.2	680.4	680.2
19.5	26518	-50.9	-84.5	1	0.02	310	35	684.2	684.4	684.2
18.8	26762	-51.3	-84.3	1	0.02	316	31	690.5	690.7	690.5
18.2	26973	-50.1	-84.1	1	0.02	321	28	700.7	700.9	700.7
17.8	27127	-50.5	-84.2	1	0.02	325	25	704.1	704.3	704.1
17.0	27432	-51.3	-84.5	1	0.02	310	23	711.0	711.2	711.0
16.8	27494	-51.5	-84.5	1	0.02	306	24	712.4	712.6	712.4
16.2	27737	-49.7	-83.7	1	0.02	290	26	725.9	726.1	725.9
16.2	27731	-49.7	-83.7	1	0.02	290	26	725.7	725.9	725.7
15.4	28042	-49.3	-83.3	1	0.03	300	27	736.9	737.2	736.9
14.7	28367	-48.9	-82.9	1	0.03	292	31	748.8	749.1	748.8
14.1	28651	-46.5	-81.1	1	0.04	285	35	766.3	766.7	766.3
13.8	28785	-45.3	-80.3	1	0.05	296	33	774.7	775.2	774.7
13.4	28956	-45.9	-80.7	1	0.04	310	31	778.4	778.9	778.4
12.8	29261	-46.9	-81.3	1	0.04	290	32	785.1	785.6	785.1
12.3	29548	-47.9	-81.9	1	0.04	292	33	791.4	791.9	791.4
11.7	29870	-46.9	-81.3	1	0.05	295	34	806.2	806.8	806.2
11.0	30288	-45.5	-80.5	1	0.06	285	31	825.8	826.5	825.8

10.7	30480	-46.4	-81.4	1	0.05	280	29	829.2	829.9	829.3
10.4	30660	-47.3	-82.3	1	0.04	280	30	832.5	833.0	832.5
10.0	30920	-46.5	-81.5	1	0.05	280	31	844.9	845.5	844.9
9.7	31122	-45.9	-80.9	1	0.06	280	34	854.5	855.3	854.5
9.5	31261	-46.9	-81.9	1	0.05	280	36	855.8	856.5	855.9
9.2	31474	-45.9	-80.9	1	0.06	280	39	867.5	868.3	867.5
8.9	31696	-42.3	-78.3	1	0.10	280	43	889.6	890.9	889.7
8.1	32333	-41.9	-77.9	1	0.12			915.5	917.0	915.6
8.1	32309	-41.9	-77.9	1	0.11	280	52	914.5	916.1	914.6

## Station information and sounding indices

Station identifier: NKX  
 Station number: 72293  
 Observation time: 150407/0000  
 Station latitude: 32.85  
 Station longitude: -117.12  
 Station elevation: 137.0  
 Showalter index: 15.93  
 Lifted index: 9.03  
 LIFT computed using virtual temperature: 8.91  
 SWEAT index: 90.99  
 K index: -35.50  
 Cross totals index: -10.50  
 Vertical totals index: 23.50  
 Totals totals index: 13.00  
 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: 275.61  
 Pres [hPa] of the Lifted Condensation Level: 843.96  
 Mean mixed layer potential temperature: 289.30  
 Mean mixed layer mixing ratio: 5.46  
 1000 hPa to 500 hPa thickness: 5535.00  
 Precipitable water [mm] for entire sounding: 9.39

## 72293 NKX San Diego Observations at 12Z 07 Apr 2015

PRES	HGHT	TEMP	DWPT	RELH	MIXR	DRCT	SKNT	THTA	THTE	THTV
hPa	m	C	C	%	g/kg	deg	knot	K	K	K
1000.0	137	12.0	6.0	67	5.90	75	4	285.1	301.9	286.2
988.0	238	12.2	5.2	62	5.64	27	6	286.3	302.4	287.3
980.1	305	11.6	4.8	63	5.54	355	7	286.4	302.3	287.4
950.0	565	9.4	3.4	66	5.17	321	9	286.7	301.6	287.6
944.8	610	9.0	3.3	68	5.17	315	9	286.8	301.6	287.6
925.0	785	7.4	3.1	74	5.20	310	9	286.9	301.8	287.8
910.5	914	6.2	3.0	80	5.25	305	11	286.9	301.9	287.8
884.0	1156	3.8	2.9	94	5.36	277	12	286.9	302.2	287.8
877.2	1219	3.4	2.4	93	5.19	270	12	287.1	302.0	288.0
856.0	1417	2.2	0.6	89	4.69	266	13	287.9	301.4	288.7
850.0	1474	1.6	0.3	91	4.62	265	13	287.8	301.2	288.6
813.2	1829	-0.9	-1.0	99	4.40	270	16	288.8	301.7	289.6
810.0	1861	-1.1	-1.1	100	4.38	267	18	288.9	301.7	289.7
805.0	1910	-1.5	-2.9	90	3.85	263	20	289.0	300.4	289.7

801.0	1950	-1.3	-4.6	78	3.41	260	22	289.6	299.8	290.2
797.0	1990	0.8	-10.2	44	2.22	257	24	292.3	299.1	292.7
791.0	2051	2.6	-14.4	27	1.59	252	27	294.9	299.9	295.1
782.9	2134	2.9	-15.8	24	1.44	245	31	296.1	300.7	296.3
772.0	2248	3.4	-17.6	20	1.25	249	31	297.8	301.8	298.0
754.0	2438	2.2	-18.5	20	1.18	255	31	298.4	302.3	298.7
725.9	2743	0.2	-20.0	20	1.08	255	32	299.5	303.1	299.7
714.0	2876	-0.7	-20.7	20	1.04	253	33	300.0	303.4	300.2
700.0	3034	-1.1	-21.1	20	1.02	250	35	301.2	304.6	301.4
684.0	3218	-1.1	-22.1	19	0.96	241	38	303.2	306.5	303.4
672.5	3353	-1.8	-22.5	19	0.94	235	41	303.9	307.1	304.1
648.0	3647	-3.3	-23.3	20	0.91	240	43	305.5	308.6	305.6
647.1	3658	-3.3	-23.6	19	0.89	240	43	305.6	308.6	305.7
632.0	3845	-3.7	-28.7	12	0.57	240	45	307.2	309.2	307.3
608.0	4149	-5.3	-24.3	21	0.89	240	49	308.8	311.8	308.9
598.9	4267	-5.6	-26.6	17	0.73	240	50	309.8	312.3	309.9
582.0	4492	-6.1	-31.1	12	0.49	240	55	311.7	313.5	311.8
576.0	4572	-6.7	-31.6	12	0.47	240	57	311.9	313.6	312.0
553.7	4877	-9.1	-33.6	12	0.41	240	57	312.6	314.1	312.7
529.0	5230	-11.9	-35.9	12	0.34	242	58	313.4	314.6	313.4
513.0	5465	-12.7	-43.7	6	0.16	244	58	315.2	315.8	315.2
506.0	5569	-13.3	-34.3	15	0.42	244	59	315.7	317.2	315.8
500.0	5660	-14.1	-34.1	17	0.43	245	59	315.8	317.4	315.9
473.0	6079	-17.7	-35.7	19	0.39	245	60	316.4	317.8	316.4
471.9	6096	-17.8	-36.0	19	0.38	245	60	316.4	317.8	316.5
449.0	6467	-20.9	-42.9	12	0.19	245	60	317.1	317.9	317.1
441.0	6600	-22.1	-37.1	24	0.36	245	60	317.2	318.6	317.3
413.0	7079	-26.3	-43.3	19	0.20	245	59	317.8	318.6	317.8
400.0	7310	-28.1	-41.1	28	0.26	245	59	318.4	319.4	318.4
382.9	7620	-30.9	-41.8	33	0.26	245	65	318.8	319.8	318.8
367.0	7919	-33.5	-42.5	40	0.25	246	67	319.1	320.1	319.2
349.0	8269	-35.9	-42.9	49	0.25	247	70	320.5	321.5	320.6
333.0	8593	-38.3	-51.3	24	0.10	248	73	321.5	322.0	321.6
325.0	8759	-39.7	-49.7	34	0.13	249	75	321.9	322.4	321.9
314.0	8993	-41.1	-53.1	26	0.09	249	77	323.1	323.4	323.1
309.0	9101	-42.3	-55.3	23	0.07	250	78	322.9	323.2	322.9
307.1	9144	-42.6	-54.8	25	0.07	250	78	323.0	323.3	323.0
300.0	9300	-43.9	-52.9	36	0.09	250	79	323.4	323.8	323.4
292.0	9482	-45.7	-52.7	45	0.10	249	79	323.3	323.7	323.3
259.0	10272	-53.1	-57.8	56	0.06	246	81	323.7	324.0	323.7
250.0	10500	-54.3	-61.3	42	0.04	245	82	325.2	325.4	325.2
246.0	10603	-54.3	-64.3	28	0.03	245	83	326.7	326.8	326.7
238.0	10813	-55.7	-64.7	32	0.03	246	84	327.7	327.8	327.7
227.0	11112	-57.3	-70.3	18	0.01	247	86	329.7	329.8	329.7
216.0	11423	-59.9	-71.9	19	0.01	248	89	330.4	330.4	330.4
208.0	11657	-60.9	-70.9	26	0.01	249	90	332.4	332.5	332.4
200.0	11900	-61.1	-73.1	19	0.01	250	92	335.9	335.9	335.9
190.8	12192	-60.9	-73.8	17	0.01	250	94	340.7	340.7	340.7
190.0	12219	-60.9	-73.9	16	0.01	250	94	341.1	341.2	341.1
187.0	12317	-61.6	-74.2	17	0.01	250	94	341.6	341.7	341.6
181.0	12519	-62.9	-74.9	18	0.01	250	89	342.6	342.7	342.6
175.0	12727	-63.1	-78.1	12	0.01	250	88	345.6	345.6	345.6
168.0	12978	-62.9	-79.9	8	0.00	250	87	350.0	350.0	350.0
164.0	13128	-61.1	-81.1	5	0.00	250	86	355.4	355.5	355.4
160.0	13281	-62.1	-83.1	4	0.00	250	85	356.3	356.3	356.3
155.0	13477	-62.3	-84.3	4	0.00	250	84	359.2	359.2	359.2
150.0	13680	-61.3	-85.3	3	0.00	250	83	364.3	364.3	364.3
141.0	14063	-61.7	-87.7	2	0.00	250	82	370.1	370.1	370.1
138.0	14197	-60.7	-87.7	2	0.00	250	81	374.1	374.1	374.1

136.0	14288	-61.1	-88.1	2	0.00	250	81	375.0	375.0	375.0
132.0	14473	-60.1	-88.1	1	0.00	250	80	380.0	380.0	380.0
126.0	14763	-60.7	-88.7	1	0.00	250	80	384.0	384.0	384.0
121.0	15016	-59.5	-88.5	1	0.00	250	79	390.6	390.6	390.6
116.8	15240	-57.6	-88.3	1	0.00	250	78	398.1	398.1	398.1
116.0	15281	-57.3	-88.3	1	0.00	250	77	399.4	399.4	399.4
111.2	15545	-57.1	-88.9	1	0.00	250	72	404.5	404.5	404.5
110.0	15617	-57.1	-89.1	1	0.00	248	71	405.9	405.9	405.9
100.0	16220	-56.7	-88.7	1	0.00	235	65	417.9	417.9	417.9
91.8	16764	-56.5	-88.5	1	0.00	250	56	428.6	428.6	428.6
90.3	16868	-56.5	-88.5	1	0.00	247	49	430.7	430.7	430.7
86.6	17135	-54.7	-86.7	1	0.00	238	32	439.5	439.5	439.5
83.4	17374	-56.6	-88.3	1	0.00	230	16	440.4	440.4	440.4
79.5	17678	-59.0	-90.3	1	0.00	185	11	441.5	441.5	441.5
76.2	17943	-61.1	-92.1	1	0.00	200	17	442.5	442.5	442.5
73.0	18210	-60.9	-91.9	1	0.00	215	23	448.4	448.4	448.4
72.1	18288	-61.4	-92.1	1	0.00	220	25	448.8	448.8	448.8
70.0	18470	-62.7	-92.7	1	0.00	230	32	449.9	449.9	449.9
68.8	18576	-63.5	-92.5	1	0.00	234	35	450.4	450.4	450.4
68.6	18593	-63.5	-92.5	1	0.00	235	36	450.7	450.7	450.7
63.3	19088	-63.9	-91.9	1	0.00	231	33	460.4	460.4	460.4
62.1	19202	-60.5	-90.3	1	0.00	230	32	470.3	470.3	470.3
62.0	19216	-60.1	-90.1	1	0.00	232	31	471.5	471.6	471.5
59.3	19495	-58.5	-89.5	1	0.00	271	22	481.2	481.2	481.2
53.6	20117	-63.3	-92.6	1	0.00	0	0	484.0	484.0	484.0
52.8	20216	-64.1	-93.1	1	0.00	332	4	484.4	484.4	484.4
50.0	20550	-63.7	-92.7	1	0.00	235	16	492.9	493.0	492.9
48.6	20726	-63.8	-92.8	1	0.00	230	13	496.8	496.8	496.8
47.0	20929	-63.9	-92.9	1	0.00	243	17	501.3	501.3	501.3
46.2	21031	-62.7	-92.3	1	0.00	250	19	506.4	506.4	506.4
44.3	21296	-59.7	-90.7	1	0.00	293	15	520.0	520.1	520.0
44.0	21336	-59.8	-90.8	1	0.00	300	14	520.8	520.8	520.8
41.9	21641	-60.5	-91.5	1	0.00	0	0	526.3	526.3	526.3
41.4	21718	-60.7	-91.7	1	0.00	359	0	527.7	527.7	527.7
38.7	22140	-58.3	-89.3	1	0.00	353	1	544.1	544.1	544.1
35.3	22717	-59.9	-90.9	1	0.00	346	1	554.4	554.4	554.4
34.0	22952	-58.3	-89.3	1	0.00	343	2	564.6	564.6	564.6
32.9	23165	-58.3	-89.3	1	0.00	340	2	570.0	570.1	570.0
30.0	23740	-58.3	-89.3	1	0.00	5	9	585.1	585.2	585.1
29.5	23846	-58.7	-89.7	1	0.00	354	11	586.8	586.9	586.8
28.4	24079	-56.4	-88.2	1	0.01	330	14	599.4	599.4	599.4
28.1	24153	-55.7	-87.7	1	0.01	342	16	603.4	603.4	603.4
27.1	24384	-56.4	-88.3	1	0.01	20	21	607.9	607.9	607.9
25.8	24689	-57.2	-89.2	1	0.01	30	15	613.9	613.9	613.9
25.4	24792	-57.5	-89.5	1	0.01	28	11	615.9	616.0	615.9
24.6	24994	-55.4	-87.8	1	0.01	25	2	627.7	627.7	627.7
23.8	25207	-53.1	-86.1	1	0.01	353	9	640.3	640.4	640.3
23.5	25298	-53.3	-86.2	1	0.01	340	12	642.3	642.4	642.3
22.4	25603	-54.0	-86.6	1	0.01	35	13	649.2	649.3	649.2
21.3	25908	-54.6	-87.0	1	0.01	320	13	656.1	656.2	656.1
20.0	26320	-55.5	-87.5	1	0.01	325	16	665.5	665.6	665.5
19.6	26449	-55.7	-87.7	1	0.01	325	17	668.8	668.9	668.8
19.4	26518	-55.4	-87.5	1	0.01	325	17	671.9	672.0	671.9
17.6	27127	-52.5	-85.6	1	0.01	300	21	699.3	699.5	699.3
16.8	27432	-51.1	-84.7	1	0.02	310	19	713.5	713.7	713.5
16.2	27678	-49.9	-83.9	1	0.02	310	24	725.0	725.3	725.0
15.3	28042	-49.0	-83.0	1	0.03	310	31	739.7	740.0	739.7
14.9	28226	-48.5	-82.5	1	0.03	318	30	747.2	747.6	747.2
14.0	28651	-49.5	-83.6	1	0.03	335	28	757.8	758.1	757.9



14.0	28634	-49.7	-83.7	1	0.03	334	28	756.6	756.9	756.6
13.7	28777	-47.9	-82.9	1	0.03	330	27	767.4	767.8	767.4
12.9	29173	-48.9	-82.9	1	0.03	314	22	777.3	777.6	777.3
12.7	29261	-48.6	-82.8	1	0.03	310	21	781.1	781.5	781.1
10.6	30480	-45.0	-80.9	1	0.05	290	41	836.4	837.1	836.5
10.4	30600	-44.7	-80.7	1	0.06			842.1	842.8	842.1

## Station information and sounding indices

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Station identifier: NKX
Station number: 72293
Observation time: 150407/1200
Station latitude: 32.85
Station longitude: -117.12
Station elevation: 137.0
Showalter index: 14.05
Lifted index: 13.54
LIFT computed using virtual temperature: 13.49
SWEAT index: 88.58
K index: -4.00
Cross totals index: 14.40
Vertical totals index: 15.70
Totals totals index: 30.10
Convective Available Potential Energy: 0.20
CAPE using virtual temperature: 0.39
Convective Inhibition: -15.47
CINS using virtual temperature: -14.01
Equilibrium Level: 803.24
Equilibrium Level using virtual temperature: 802.11
Level of Free Convection: 821.76
LFCT using virtual temperature: 823.98
Bulk Richardson Number: 0.00
Bulk Richardson Number using CAPV: 0.00
Temp [K] of the Lifted Condensation Level: 276.20
Pres [hPa] of the Lifted Condensation Level: 880.93
Mean mixed layer potential temperature: 286.40
Mean mixed layer mixing ratio: 5.45
1000 hPa to 500 hPa thickness: 5523.00
Precipitable water [mm] for entire sounding: 13.43

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## 72293 NKX San Diego Observations at 00Z 08 Apr 2015

PRES	HGHT	TEMP	DWPT	RELH	MIXR	DRCT	SKNT	THTA	THTE	THTV
hPa	m	C	C	%	g/kg	deg	knot	K	K	K
1000.0	137	18.4	4.4	40	5.27	300	12	291.6	307.0	292.5
980.5	305	15.4	3.0	43	4.87	280	11	290.2	304.4	291.0
964.0	449	12.8	1.8	47	4.54	294	12	289.0	302.2	289.8
945.7	610	11.3	1.3	50	4.47	310	13	289.1	302.1	289.8
927.0	778	9.8	0.8	53	4.39	319	13	289.1	302.0	289.9
925.0	796	9.8	0.8	53	4.40	320	13	289.3	302.2	290.1
911.9	914	8.9	-0.1	53	4.19	310	14	289.6	301.9	290.3
878.8	1219	6.6	-2.4	53	3.67	310	12	290.3	301.2	290.9
873.0	1274	6.2	-2.8	53	3.58	313	13	290.4	301.0	291.0
850.0	1492	4.4	-1.6	65	4.02	325	16	290.7	302.6	291.4
835.0	1637	3.2	-1.4	72	4.15	321	16	291.0	303.2	291.7
823.0	1754	2.6	-3.4	65	3.63	317	16	291.5	302.4	292.2
816.0	1823	3.2	-5.8	52	3.05	315	16	292.9	302.1	293.4

815.4	1829	3.1	-5.8	52	3.04	315	16	292.9	302.1	293.4
803.0	1953	2.2	-6.8	51	2.87	313	18	293.2	301.9	293.7
796.0	2024	2.8	-11.2	35	2.05	312	20	294.5	300.9	294.9
786.0	2126	3.0	-13.0	30	1.80	310	22	295.8	301.5	296.1
785.2	2134	3.0	-12.8	30	1.83	310	22	295.9	301.6	296.2
775.0	2240	2.4	-9.6	41	2.39	300	20	296.4	303.8	296.8
758.0	2419	1.0	-12.0	37	2.02	282	16	296.7	303.1	297.1
756.2	2438	0.9	-12.7	35	1.91	280	16	296.8	302.9	297.2
746.0	2547	0.4	-16.6	27	1.41	278	18	297.4	302.0	297.7
735.0	2666	-0.3	-15.3	31	1.59	276	20	297.9	303.1	298.2
727.9	2743	-0.6	-16.4	29	1.47	275	21	298.4	303.2	298.7
726.0	2764	-0.7	-16.7	29	1.43	275	22	298.6	303.2	298.8
720.0	2830	-0.7	-12.7	40	2.01	274	23	299.3	305.7	299.6
700.0	3055	-1.1	-14.1	37	1.84	270	29	301.2	307.2	301.6
687.0	3204	-1.7	-14.7	36	1.79	263	31	302.2	308.0	302.5
674.2	3353	-2.0	-17.6	29	1.44	255	32	303.4	308.2	303.7
657.0	3559	-2.5	-21.5	22	1.05	252	34	305.2	308.7	305.4
648.8	3658	-1.9	-33.9	7	0.34	250	35	307.0	308.2	307.1
647.0	3681	-1.7	-36.7	5	0.26	250	35	307.4	308.4	307.5
625.0	3955	-2.9	-38.9	4	0.21	250	39	309.1	309.9	309.1
600.6	4267	-5.4	-31.8	11	0.45	250	44	309.7	311.3	309.8
585.0	4474	-7.1	-27.1	19	0.71	250	47	310.1	312.6	310.2
555.3	4877	-9.4	-31.7	14	0.49	250	54	312.1	313.8	312.2
536.0	5151	-10.9	-34.9	12	0.37	248	56	313.4	314.8	313.5
516.0	5441	-13.5	-28.5	27	0.71	245	58	313.7	316.2	313.8
513.0	5486	-13.8	-29.1	26	0.68	245	58	313.8	316.2	313.9
505.0	5605	-14.7	-30.7	24	0.59	245	58	314.2	316.3	314.3
500.0	5680	-15.3	-37.3	13	0.31	245	58	314.3	315.5	314.4
499.0	5695	-15.3	-37.3	13	0.31	245	58	314.5	315.7	314.6
483.0	5940	-17.5	-40.5	12	0.23	245	60	314.7	315.6	314.8
473.0	6096	-18.7	-40.6	13	0.23	245	61	315.1	316.0	315.2
465.0	6223	-19.7	-40.7	14	0.24	245	61	315.4	316.3	315.5
450.0	6465	-21.7	-35.7	27	0.41	245	62	315.9	317.4	316.0
448.0	6498	-21.9	-39.9	18	0.27	245	62	316.0	317.1	316.1
445.0	6547	-22.3	-38.3	22	0.32	245	62	316.1	317.3	316.2
441.0	6613	-22.5	-45.5	10	0.15	245	62	316.7	317.3	316.7
434.0	6730	-23.5	-31.5	48	0.64	245	63	316.9	319.2	317.0
429.0	6815	-24.3	-30.3	58	0.72	245	63	316.9	319.5	317.1
416.0	7038	-26.3	-33.3	52	0.56	245	63	317.1	319.2	317.3
400.0	7320	-28.7	-32.4	70	0.63	245	64	317.6	319.9	317.7
392.0	7464	-30.1	-33.0	76	0.61	243	64	317.6	319.8	317.7
389.0	7519	-30.7	-35.7	61	0.47	242	64	317.5	319.3	317.6
383.5	7620	-31.5	-36.0	64	0.46	240	64	317.8	319.5	317.9
382.0	7648	-31.7	-36.1	65	0.46	240	64	317.9	319.6	317.9
374.0	7797	-32.9	-41.9	40	0.26	240	65	318.2	319.2	318.2
357.0	8123	-35.9	-45.9	35	0.18	240	68	318.4	319.1	318.5
351.0	8240	-36.7	-43.7	48	0.23	240	69	318.9	319.8	318.9
346.0	8339	-37.5	-49.5	27	0.12	240	70	319.1	319.6	319.1
333.0	8603	-39.7	-60.7	9	0.03	240	72	319.6	319.8	319.6
307.4	9144	-42.9	-66.2	6	0.02	240	76	322.5	322.6	322.5
300.0	9310	-43.9	-67.9	5	0.01	240	77	323.4	323.4	323.4
291.0	9514	-45.1	-68.1	6	0.01	240	78	324.5	324.6	324.5
250.0	10510	-52.7	-69.7	11	0.01	240	83	327.6	327.6	327.6
243.0	10693	-54.1	-69.1	14	0.01	240	83	328.2	328.2	328.2
237.0	10853	-54.3	-69.3	14	0.01	240	83	330.2	330.3	330.2
223.0	11241	-57.1	-71.1	15	0.01	240	83	331.7	331.8	331.7
218.0	11385	-56.5	-70.5	16	0.01	240	83	334.8	334.9	334.8
200.0	11930	-58.3	-74.3	11	0.01	240	83	340.3	340.3	340.3
195.0	12088	-59.0	-75.0	11	0.01	245	86	341.6	341.6	341.6

191.8	12192	-59.5	-75.5	11	0.01	245	86	342.4	342.4	342.4
183.0	12484	-60.9	-76.9	10	0.01	250	84	344.8	344.8	344.8
172.0	12869	-61.3	-79.3	8	0.00	250	80	350.3	350.3	350.3
163.0	13203	-59.3	-82.3	4	0.00	250	77	359.1	359.1	359.1
157.0	13437	-60.9	-84.9	3	0.00	250	75	360.2	360.2	360.2
151.0	13679	-60.3	-86.3	2	0.00	250	72	365.3	365.3	365.3
150.0	13720	-60.7	-86.7	2	0.00	250	72	365.3	365.3	365.3
146.0	13888	-61.3	-87.3	2	0.00	251	72	367.1	367.1	367.1
142.0	14060	-60.5	-87.5	2	0.00	252	72	371.4	371.4	371.4
138.0	14238	-61.1	-88.1	2	0.00	253	71	373.4	373.4	373.4
136.0	14328	-60.5	-87.5	2	0.00	253	71	376.0	376.0	376.0
130.0	14609	-60.7	-88.7	1	0.00	255	71	380.6	380.6	380.6
129.6	14630	-60.6	-88.7	1	0.00	255	71	381.1	381.1	381.1
127.0	14754	-59.9	-88.9	1	0.00	255	69	384.5	384.6	384.5
123.0	14953	-60.3	-89.3	1	0.00	255	66	387.4	387.4	387.4
122.0	15004	-59.3	-88.3	1	0.00	255	65	390.1	390.1	390.1
120.0	15107	-60.1	-89.1	1	0.00	255	64	390.5	390.5	390.5
117.5	15240	-59.3	-88.3	1	0.00	255	62	394.4	394.4	394.4
117.0	15266	-59.1	-88.1	1	0.00	254	62	395.1	395.1	395.1
115.0	15373	-59.3	-88.3	1	0.00	252	61	396.7	396.7	396.7
112.0	15539	-58.1	-88.1	1	0.00	249	61	402.0	402.0	402.0
110.0	15653	-58.1	-88.1	1	0.00	247	60	404.0	404.1	404.0
100.0	16250	-59.5	-90.5	1	0.00	235	57	412.5	412.5	412.5
96.7	16459	-59.5	-90.3	1	0.00	240	63	416.5	416.5	416.5
94.7	16591	-59.4	-90.1	1	0.00	240	63	419.1	419.1	419.1
87.8	17069	-59.4	-89.6	1	0.00	245	41	428.5	428.5	428.5
83.7	17365	-59.3	-89.3	1	0.00	235	47	434.4	434.4	434.4
83.6	17374	-59.3	-89.3	1	0.00	235	47	434.5	434.5	434.5
77.5	17845	-61.1	-90.1	1	0.00	243	46	440.3	440.3	440.3
75.8	17983	-60.8	-90.0	1	0.00	245	46	443.8	443.8	443.8
72.2	18288	-60.1	-89.8	1	0.00	260	37	451.4	451.4	451.4
70.0	18480	-59.7	-89.7	1	0.00	260	27	456.3	456.3	456.3
68.8	18593	-59.4	-89.6	1	0.00	255	25	459.4	459.4	459.4
65.5	18898	-58.5	-89.4	1	0.00	235	29	467.6	467.6	467.6
64.6	18984	-58.3	-89.3	1	0.00	239	29	470.0	470.0	470.0
60.0	19445	-62.1	-91.1	1	0.00	257	29	471.5	471.5	471.5
59.4	19507	-62.3	-91.2	1	0.00	260	29	472.3	472.3	472.3
56.5	19812	-63.5	-91.7	1	0.00	240	25	476.3	476.3	476.3
55.7	19903	-63.9	-91.9	1	0.00	243	25	477.5	477.5	477.5
51.2	20422	-61.7	-91.3	1	0.00	260	27	494.2	494.2	494.2
50.0	20570	-61.1	-91.1	1	0.00	275	19	499.1	499.1	499.1
48.2	20799	-59.7	-89.7	1	0.00	324	11	507.6	507.7	507.7
46.4	21031	-61.0	-90.6	1	0.00	15	2	510.1	510.1	510.1
44.2	21336	-62.6	-91.8	1	0.00	165	6	513.2	513.2	513.2
43.6	21421	-63.1	-92.1	1	0.00	180	7	514.1	514.1	514.1
40.1	21946	-60.4	-90.4	1	0.00	270	12	533.4	533.4	533.4
39.9	21970	-60.3	-90.3	1	0.00	270	12	534.3	534.3	534.3
38.4	22209	-61.3	-91.3	1	0.00	266	11	537.7	537.7	537.7
34.3	22913	-59.1	-90.1	1	0.00	254	7	561.0	561.1	561.0
31.4	23466	-60.7	-90.7	1	0.00	245	4	571.1	571.1	571.1
30.0	23750	-59.9	-89.9	1	0.00	240	3	580.8	580.8	580.8
28.0	24181	-60.1	-90.1	1	0.00	318	8	591.8	591.8	591.8
27.3	24340	-57.5	-89.5	1	0.00	347	10	603.3	603.4	603.3
27.1	24384	-57.6	-89.5	1	0.00	355	11	604.2	604.2	604.2
25.8	24697	-58.5	-89.5	1	0.01	20	12	610.3	610.4	610.3
25.8	24689	-58.5	-89.5	1	0.01	20	12	610.2	610.2	610.2
22.7	25510	-54.5	-86.5	1	0.01	16	16	644.9	645.0	644.9
22.4	25603	-54.7	-86.5	1	0.01	15	16	647.0	647.1	647.0
20.9	26039	-55.5	-86.5	1	0.01	36	13	657.2	657.3	657.2

20.0	26320	-55.1	-87.1	1	0.01	50	11	666.8	666.9	666.8
18.4	26852	-54.7	-86.7	1	0.01	45	12	684.1	684.2	684.1
16.8	27432	-52.5	-85.2	1	0.02	40	14	709.1	709.2	709.1
15.3	28042	-50.1	-83.7	1	0.02	340	4	736.2	736.5	736.2
14.6	28349	-48.9	-82.9	1	0.03	336	6	750.2	750.6	750.3
14.0	28623	-49.7	-83.7	1	0.03	332	8	756.6	756.9	756.6
13.8	28718	-47.9	-82.9	1	0.03	330	9	765.8	766.2	765.8
12.4	29422	-48.3	-82.3	1	0.04	320	14	788.2	788.6	788.2
11.2	30095	-45.5	-80.5	1	0.06	310	18	821.5	822.2	821.6
10.6	30480	-45.2	-80.2	1	0.06	305	21	836.4	837.1	836.4
10.0	30850	-44.9	-79.9	1	0.07	295	29	850.8	851.7	850.9
8.8	31706	-43.7	-79.7	1	0.08	288	34	887.1	888.2	887.2
8.4	32004	-42.2	-78.2	1	0.11	285	36	904.3	905.7	904.3
8.3	32101	-41.7	-77.7	1	0.12			909.9	911.5	910.0

## Station information and sounding indices

Station identifier: NKX  
 Station number: 72293  
 Observation time: 150408/0000  
 Station latitude: 32.85  
 Station longitude: -117.12  
 Station elevation: 137.0  
 Showalter index: 11.87  
 Lifted index: 11.18  
 LIFT computed using virtual temperature: 11.09  
 SWEAT index: 90.02  
 K index: 5.10  
 Cross totals index: 13.70  
 Vertical totals index: 19.70  
 Totals totals index: 33.40  
 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: 273.18  
 Pres [hPa] of the Lifted Condensation Level: 813.28  
 Mean mixed layer potential temperature: 289.80  
 Mean mixed layer mixing ratio: 4.75  
 1000 hPa to 500 hPa thickness: 5543.00  
 Precipitable water [mm] for entire sounding: 12.39

## 72293 NKX San Diego Observations at 12Z 08 Apr 2015

PRES	HGHT	TEMP	DWPT	RELH	MIXR	DRCT	SKNT	THTA	THTE	THTV
hPa	m	C	C	%	g/kg	deg	knot	K	K	K
1001.0	137	13.0	9.8	81	7.65	345	7	286.1	307.6	287.4
1000.0	144	13.2	10.0	81	7.76	345	7	286.4	308.2	287.7
991.0	220	12.8	9.7	81	7.68	352	9	286.7	308.3	288.0
981.0	305	12.0	9.3	83	7.54	0	11	286.8	308.0	288.1
945.8	610	9.3	7.8	91	7.07	340	12	287.0	307.0	288.2
925.0	795	7.6	6.9	95	6.79	325	12	287.1	306.3	288.2
911.7	914	6.6	6.1	97	6.53	315	11	287.2	305.8	288.4
894.0	1075	5.2	5.1	99	6.20	310	13	287.4	305.1	288.5
878.4	1219	4.5	4.5	100	6.04	305	14	288.2	305.5	289.2

861.0	1382	3.8	3.8	100	5.87	293	15	289.1	306.0	290.1
850.0	1486	2.6	2.5	99	5.42	285	16	288.9	304.5	289.8
840.0	1582	1.2	1.0	99	4.92	284	16	288.4	302.6	289.2
827.0	1707	-0.5	-3.2	82	3.67	282	15	287.9	298.6	288.5
822.0	1756	0.4	0.0	97	4.68	281	15	289.3	302.9	290.1
814.5	1829	-0.2	-0.6	97	4.53	280	15	289.4	302.6	290.2
801.0	1963	-1.3	-1.6	98	4.27	271	18	289.6	302.2	290.4
796.0	2013	-1.7	-6.1	72	3.06	268	19	289.7	298.9	290.3
791.0	2063	-2.3	-9.3	59	2.40	265	20	289.6	296.9	290.0
784.0	2134	-1.1	-10.7	48	2.17	260	21	291.7	298.3	292.1
783.0	2144	-0.9	-10.9	47	2.14	261	21	292.0	298.5	292.3
776.0	2216	0.0	-19.0	22	1.10	265	23	293.7	297.2	293.9
769.0	2289	1.6	-26.4	10	0.58	270	26	296.2	298.1	296.3
754.9	2438	1.9	-33.1	5	0.31	280	30	298.1	299.2	298.1
751.0	2480	2.0	-35.0	4	0.26	279	30	298.6	299.5	298.7
734.0	2665	3.6	-41.4	2	0.14	276	30	302.3	302.8	302.3
726.9	2743	3.1	-39.8	3	0.17	275	30	302.7	303.3	302.7
700.0	3048	1.4	-33.6	5	0.32	280	31	304.0	305.2	304.1
683.0	3245	-0.1	-36.1	5	0.26	277	34	304.5	305.4	304.5
648.6	3658	-1.0	-36.2	5	0.27	270	40	308.0	309.0	308.0
638.0	3789	-1.3	-36.3	5	0.27	270	40	309.1	310.1	309.1
600.5	4267	-4.9	-32.4	10	0.42	270	40	310.3	311.8	310.4
579.0	4554	-7.1	-30.1	14	0.55	268	43	311.0	313.0	311.1
567.0	4717	-8.1	-37.1	8	0.28	266	45	311.7	312.8	311.8
555.3	4877	-9.4	-36.1	9	0.32	265	47	312.0	313.2	312.1
518.0	5412	-13.7	-32.7	19	0.47	265	45	313.1	314.8	313.2
500.0	5680	-15.5	-34.5	18	0.41	265	44	314.1	315.6	314.2
491.0	5817	-15.7	-34.7	18	0.41	267	46	315.5	317.0	315.6
472.9	6096	-17.8	-36.8	17	0.35	270	49	316.2	317.5	316.3
413.0	7098	-25.5	-44.5	15	0.18	270	51	318.8	319.5	318.9
400.0	7330	-26.9	-48.9	11	0.11	270	51	319.9	320.4	320.0
394.0	7439	-27.5	-48.5	12	0.12	270	49	320.6	321.0	320.6
384.1	7620	-29.2	-48.2	14	0.13	270	45	320.6	321.1	320.6
375.0	7791	-30.9	-47.9	17	0.13	276	46	320.6	321.1	320.6
367.9	7925	-31.7	-49.2	16	0.12	280	46	321.3	321.8	321.3
318.0	8942	-37.9	-58.9	9	0.04	276	48	326.4	326.5	326.4
308.7	9144	-39.5	-60.0	9	0.04	275	48	326.9	327.0	326.9
300.0	9340	-41.1	-61.1	10	0.03	275	48	327.3	327.5	327.3
250.0	10550	-50.3	-66.3	13	0.02	260	37	331.1	331.2	331.2
245.5	10668	-51.2	-66.8	14	0.02	260	38	331.5	331.6	331.5
228.0	11145	-55.1	-69.1	16	0.02	264	38	332.7	332.7	332.7
200.0	11970	-61.9	-71.9	25	0.01	270	39	334.6	334.6	334.6
192.9	12192	-63.5	-72.3	29	0.01	265	38	335.4	335.5	335.4
183.0	12515	-65.9	-72.9	37	0.01	265	45	336.7	336.7	336.7
179.0	12650	-65.5	-72.5	37	0.01	265	48	339.5	339.5	339.5
168.0	13034	-67.3	-74.3	36	0.01	265	57	342.7	342.7	342.7
150.0	13720	-66.5	-77.5	20	0.01	265	73	355.3	355.4	355.3
146.0	13885	-64.3	-77.3	15	0.01	264	75	361.9	361.9	361.9
142.0	14054	-64.5	-80.5	9	0.00	262	77	364.4	364.5	364.4
135.9	14326	-62.9	-83.3	5	0.00	260	81	371.9	371.9	371.9
135.0	14365	-62.7	-83.7	4	0.00	260	81	372.9	372.9	372.9
133.0	14457	-63.1	-84.8	4	0.00	260	81	373.8	373.8	373.8
132.0	14503	-63.3	-85.3	4	0.00	260	80	374.3	374.3	374.3
129.0	14645	-62.7	-86.7	3	0.00	260	76	377.8	377.8	377.8
124.0	14890	-59.7	-85.7	2	0.00	260	70	387.5	387.6	387.5
117.3	15240	-58.5	-87.4	1	0.00	260	62	395.9	395.9	395.9
117.0	15255	-58.5	-87.5	1	0.00	260	62	396.2	396.2	396.2
113.0	15473	-59.3	-88.3	1	0.00	260	59	398.7	398.7	398.7
109.0	15699	-58.5	-88.5	1	0.00	260	56	404.3	404.4	404.4

100.0	16240	-59.7	-88.7	1	0.00	260	50	412.1	412.1	412.1
81.8	17486	-61.3	-90.3	1	0.00	271	31	433.2	433.2	433.2
79.0	17703	-59.7	-88.7	1	0.00	273	28	440.8	440.8	440.8
75.5	17983	-61.2	-89.7	1	0.00	275	24	443.5	443.5	443.5
72.0	18276	-62.7	-90.7	1	0.00	256	25	446.3	446.3	446.3
71.9	18288	-62.6	-90.7	1	0.00	255	25	446.8	446.8	446.8
70.0	18450	-61.1	-90.1	1	0.00	250	28	453.3	453.3	453.3
68.4	18593	-61.0	-90.0	1	0.00	240	31	456.6	456.6	456.6
67.9	18639	-60.9	-89.9	1	0.00	242	31	457.7	457.7	457.7
65.1	18898	-62.0	-91.0	1	0.00	255	31	460.9	460.9	460.9
63.3	19073	-62.7	-91.7	1	0.00	255	27	463.0	463.0	463.0
62.0	19202	-62.0	-91.0	1	0.00	255	24	467.4	467.4	467.4
61.1	19292	-61.5	-90.5	1	0.00	243	23	470.4	470.4	470.4
59.0	19507	-62.9	-91.9	1	0.00	215	19	472.0	472.0	472.0
58.1	19603	-63.5	-92.5	1	0.00	208	16	472.7	472.7	472.7
57.4	19677	-63.1	-92.1	1	0.00	202	14	475.2	475.3	475.2
56.8	19742	-61.1	-91.1	1	0.00	198	12	481.2	481.2	481.2
54.9	19954	-60.7	-90.7	1	0.00	182	6	486.8	486.9	486.8
53.5	20117	-61.8	-91.2	1	0.00	170	1	487.9	487.9	487.9
50.5	20469	-64.3	-92.3	1	0.00	242	9	490.1	490.2	490.1
50.0	20530	-62.9	-91.9	1	0.00	255	10	494.8	494.9	494.8
49.9	20542	-62.9	-91.9	1	0.00	254	10	495.1	495.1	495.1
48.4	20726	-63.3	-92.3	1	0.00	240	13	498.4	498.4	498.4
47.7	20820	-63.5	-92.5	1	0.00	238	12	500.1	500.1	500.1
46.3	21004	-61.3	-91.3	1	0.00	235	11	509.7	509.7	509.7
43.9	21336	-63.2	-92.2	1	0.00	230	9	513.0	513.0	513.0
41.3	21707	-65.3	-93.3	1	0.00	239	10	516.6	516.7	516.6
39.7	21946	-64.1	-93.0	1	0.00	245	10	525.5	525.5	525.5
39.5	21980	-63.9	-92.9	1	0.00	248	10	526.8	526.8	526.8
38.0	22220	-59.9	-89.9	1	0.00	269	9	542.8	542.9	542.8
34.5	22824	-60.1	-91.1	1	0.00	323	7	557.5	557.5	557.5
32.8	23141	-58.3	-89.3	1	0.00	351	6	570.4	570.4	570.4
30.6	23576	-60.3	-91.3	1	0.00	29	4	576.4	576.4	576.4
30.0	23700	-60.1	-91.1	1	0.00	40	4	580.2	580.2	580.2
28.6	24000	-58.1	-89.1	1	0.00	44	7	593.7	593.8	593.7
26.9	24384	-58.4	-89.4	1	0.00	50	10	603.2	603.3	603.2
24.7	24922	-58.9	-89.9	1	0.00	46	3	616.8	616.9	616.8
24.4	24994	-58.7	-89.7	1	0.01	45	2	619.5	619.6	619.5
20.6	26071	-55.1	-87.1	1	0.01	18	14	661.2	661.3	661.2
20.1	26213	-55.5	-87.5	1	0.01	15	15	664.0	664.1	664.0
20.0	26260	-55.7	-87.7	1	0.01	25	17	664.9	665.0	664.9
19.2	26518	-55.7	-87.7	1	0.01	30	17	672.7	672.8	672.7
18.3	26822	-55.7	-87.7	1	0.01	70	21	681.9	682.0	681.9
16.9	27331	-55.7	-87.7	1	0.01	41	7	697.7	697.8	697.7
16.6	27432	-55.5	-87.6	1	0.01	35	4	701.5	701.7	701.6
15.1	28042	-54.2	-86.9	1	0.01	25	18	725.3	725.4	725.3
14.6	28266	-53.7	-86.7	1	0.01	359	8	734.2	734.4	734.2
14.4	28346	-53.1	-86.3	1	0.02	350	5	738.9	739.0	738.9
13.8	28651	-50.7	-84.6	1	0.02	5	11	757.0	757.2	757.0
13.7	28678	-50.5	-84.5	1	0.02	5	11	758.6	758.8	758.6
13.1	28956	-50.7	-84.7	1	0.02	5	13	767.3	767.6	767.3
12.5	29261	-50.8	-84.8	1	0.02	355	13	777.0	777.3	777.1
11.7	29704	-51.1	-85.1	1	0.02	336	14	791.4	791.7	791.4
11.0	30109	-47.3	-82.3	1	0.04	318	15	819.3	819.8	819.3
10.9	30175	-47.2	-82.2	1	0.04	315	15	822.1	822.6	822.1
10.4	30480	-46.6	-81.6	1	0.05	300	14	835.1	835.7	835.1
10.0	30740	-46.1	-81.1	1	0.06	300	18	846.4	847.1	846.4
9.9	30785	-45.9	-80.9	1	0.06	295	16	848.9	849.6	848.9
9.6	31012	-44.7	-79.7	1	0.07	317	21	861.6	862.5	861.6

9.5	31090	-44.7	-79.7	1	0.07	325	23	864.3	865.2	864.3
9.0	31444	-44.9	-79.9	1	0.08	319	21	876.8	877.8	876.9
8.4	31907	-42.9	-78.9	1	0.09	312	18	902.1	903.4	902.2
8.0	32234	-44.7	-79.7	1	0.09	306	15	907.6	908.8	907.7
7.9	32309	-44.4	-79.7	1	0.09	305	15	911.7	912.9	911.8
7.7	32490	-43.7	-79.7	1	0.09			921.6	922.9	921.7

## Station information and sounding indices

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Station identifier: NKX
Station number: 72293
Observation time: 150408/1200
Station latitude: 32.85
Station longitude: -117.12
Station elevation: 137.0
Showalter index: 10.41
Lifted index: 8.33
LIFT computed using virtual temperature: 8.23
SWEAT index: 106.01
K index: -14.40
Cross totals index: 18.00
Vertical totals index: 18.10
Totals totals index: 36.10
Convective Available Potential Energy: 74.39
CAPE using virtual temperature: 83.18
Convective Inhibition: -0.46
CINS using virtual temperature: -0.22
Equilibrium Level: 777.65
Equilibrium Level using virtual temperature: 774.92
Level of Free Convection: 930.06
LFCT using virtual temperature: 932.16
Bulk Richardson Number: 0.84
Bulk Richardson Number using CAPV: 0.94
Temp [K] of the Lifted Condensation Level: 281.50
Pres [hPa] of the Lifted Condensation Level: 937.25
Mean mixed layer potential temperature: 286.78
Mean mixed layer mixing ratio: 7.41
1000 hPa to 500 hPa thickness: 5536.00
Precipitable water [mm] for entire sounding: 14.65

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## 72293 NKX San Diego Observations at 00Z 09 Apr 2015

PRES	HGHT	TEMP	DWPT	RELH	MIXR	DRCT	SKNT	THTA	THTE	THTV
hPa	m	C	C	%	g/kg	deg	knot	K	K	K
1000.0	130									
999.0	137	19.0	3.0	35	4.78	325	13	292.2	306.3	293.1
991.0	206	17.4	1.4	34	4.29	321	14	291.3	304.0	292.1
979.5	305	15.9	0.6	36	4.11	315	16	290.7	302.9	291.5
976.0	336	15.4	0.4	36	4.05	316	16	290.6	302.6	291.3
944.7	610	12.2	-0.3	42	3.97	320	13	290.1	301.8	290.8
925.0	787	10.2	-0.8	46	3.92	320	12	289.7	301.3	290.4
919.0	841	10.4	-3.6	37	3.20	316	10	290.5	300.1	291.0
911.0	914	10.0	-3.0	40	3.37	310	8	290.8	300.9	291.4
902.0	996	9.6	-2.4	43	3.57	325	6	291.2	301.9	291.8
885.0	1154	9.6	-4.4	37	3.13	353	3	292.8	302.3	293.4
878.1	1219	9.4	-8.4	27	2.31	5	2	293.3	300.4	293.7
855.0	1440	8.8	-22.2	9	0.76	1	6	294.9	297.4	295.0

850.0	1488	8.6	-23.4	8	0.69	0	7	295.1	297.4	295.3
815.4	1829	6.7	-31.7	4	0.33	350	10	296.7	297.9	296.8
802.0	1965	6.0	-35.0	3	0.25	343	12	297.3	298.2	297.4
785.6	2134	6.4	-39.5	2	0.16	335	14	299.5	300.1	299.5
775.0	2246	6.6	-42.4	2	0.12	320	15	300.9	301.3	300.9
756.9	2438	5.6	-41.0	2	0.14	295	18	301.9	302.4	301.9
738.0	2645	4.6	-39.4	2	0.17	302	19	302.9	303.6	303.0
729.1	2743	4.4	-38.2	3	0.19	305	20	303.8	304.5	303.8
706.0	3005	3.8	-35.2	4	0.27	288	21	305.9	306.9	306.0
702.2	3048	3.5	-34.8	4	0.28	285	21	306.1	307.1	306.2
700.0	3074	3.4	-34.6	4	0.29	285	21	306.2	307.3	306.3
650.9	3658	-0.6	-26.3	12	0.69	295	26	308.1	310.6	308.3
633.0	3882	-2.1	-23.1	18	0.95	288	28	308.9	312.1	309.1
602.9	4267	-3.9	-26.1	16	0.76	275	32	311.2	313.9	311.3
583.0	4533	-5.1	-28.1	15	0.65	271	39	312.7	315.1	312.9
580.0	4572	-5.4	-28.4	14	0.64	270	40	312.8	315.1	313.0
557.6	4877	-7.7	-30.7	14	0.53	270	40	313.6	315.6	313.8
500.0	5720	-14.1	-37.1	12	0.32	265	40	315.8	317.0	315.9
475.2	6096	-17.1	-39.9	12	0.25	265	41	316.7	317.6	316.7
400.0	7370	-27.3	-49.3	10	0.11	275	49	319.4	319.9	319.4
386.2	7620	-29.2	-51.8	9	0.08	270	50	320.2	320.6	320.2
357.0	8178	-33.3	-57.3	7	0.05	268	57	321.9	322.1	321.9
340.0	8520	-34.9	-58.9	7	0.04	267	61	324.3	324.4	324.3
321.0	8918	-38.3	-61.3	7	0.03	266	66	324.9	325.1	324.9
310.6	9144	-39.6	-60.3	9	0.04	265	69	326.2	326.4	326.3
303.0	9312	-40.5	-59.5	11	0.04	265	72	327.2	327.4	327.2
300.0	9380	-41.1	-57.1	16	0.06	265	73	327.3	327.6	327.3
292.0	9562	-42.9	-59.9	14	0.04	265	73	327.3	327.5	327.3
268.0	10129	-48.1	-56.1	39	0.07	265	72	327.9	328.1	327.9
250.0	10580	-52.1	-60.1	38	0.05	265	72	328.5	328.7	328.5
235.0	10978	-55.7	-61.7	47	0.04	265	76	328.9	329.1	328.9
208.0	11746	-60.9	-68.9	34	0.02	265	85	332.4	332.5	332.4
204.0	11867	-61.3	-70.3	29	0.01	265	86	333.6	333.7	333.6
203.3	11887	-61.4	-70.5	29	0.01	265	86	333.9	333.9	333.9
200.0	11990	-61.7	-71.7	25	0.01	265	86	334.9	335.0	334.9
194.0	12178	-62.5	-72.5	25	0.01	265	84	336.6	336.6	336.6
178.0	12711	-61.1	-76.1	12	0.01	262	79	347.2	347.2	347.2
166.0	13142	-62.9	-79.9	8	0.00	259	75	351.2	351.2	351.2
155.0	13566	-60.5	-83.5	3	0.00	256	70	362.2	362.3	362.2
151.3	13716	-60.8	-85.3	3	0.00	255	69	364.2	364.2	364.2
150.0	13770	-60.9	-85.9	2	0.00	255	72	365.0	365.0	365.0
148.0	13854	-61.3	-86.3	2	0.00	255	71	365.7	365.7	365.7
137.0	14336	-59.7	-87.7	1	0.00	257	66	376.7	376.7	376.7
132.0	14569	-60.5	-88.5	1	0.00	258	63	379.2	379.3	379.2
125.0	14910	-59.7	-87.7	1	0.00	259	60	386.6	386.7	386.6
118.6	15240	-61.0	-89.0	1	0.00	260	56	390.2	390.2	390.2
118.0	15270	-61.1	-89.1	1	0.00	260	55	390.5	390.5	390.5
112.9	15545	-63.3	-90.5	1	0.00	265	50	391.4	391.4	391.4
112.0	15593	-63.7	-90.7	1	0.00	263	50	391.5	391.5	391.5
110.0	15704	-63.7	-89.7	2	0.00	260	49	393.5	393.5	393.5
102.2	16154	-63.7	-89.7	2	0.00	245	47	401.8	401.9	401.8
100.0	16290	-63.7	-89.7	2	0.00	250	48	404.4	404.4	404.4
89.6	16964	-61.5	-88.5	2	0.00	244	49	421.7	421.7	421.7
84.0	17361	-62.7	-89.7	2	0.00	240	49	427.1	427.1	427.1
83.8	17374	-62.5	-89.6	2	0.00	240	49	427.6	427.6	427.6
81.2	17571	-60.3	-88.3	1	0.00	259	44	436.1	436.2	436.1
79.8	17678	-60.4	-88.4	1	0.00	270	41	438.1	438.1	438.1
76.0	17983	-60.7	-88.7	1	0.00	250	33	443.8	443.8	443.8
72.3	18288	-60.9	-88.9	1	0.00	235	38	449.5	449.5	449.5



70.0	18490	-61.1	-89.1	1	0.00	245	40	453.3	453.3	453.3
68.8	18593	-61.3	-89.3	1	0.00	255	42	455.1	455.1	455.1
67.7	18697	-61.5	-89.5	1	0.00	253	39	456.8	456.8	456.8
65.5	18898	-60.7	-89.3	1	0.00	250	33	462.7	462.7	462.7
62.4	19202	-59.6	-89.0	1	0.00	275	26	471.8	471.8	471.8
60.2	19429	-58.7	-88.7	1	0.00	268	24	478.6	478.7	478.6
59.5	19507	-59.1	-88.9	1	0.00	265	23	479.4	479.4	479.4
52.7	20256	-63.1	-91.1	1	0.00	318	5	487.0	487.0	487.0
51.3	20422	-63.4	-91.4	1	0.00	330	1	490.0	490.1	490.0
50.9	20470	-63.5	-91.5	1	0.00	342	1	490.9	490.9	490.9
50.3	20543	-61.1	-90.1	1	0.00	1	2	498.2	498.2	498.2
50.0	20580	-60.9	-89.9	1	0.00	10	2	499.5	499.6	499.5
49.8	20605	-60.9	-89.9	1	0.00	12	2	500.1	500.1	500.1
46.0	21095	-64.1	-91.1	1	0.00	58	3	503.9	503.9	503.9
44.2	21336	-63.3	-90.7	1	0.00	80	4	511.4	511.4	511.4
41.5	21730	-62.1	-90.1	1	0.00	91	6	523.9	523.9	523.9
39.9	21972	-63.5	-91.5	1	0.00	98	7	526.3	526.3	526.3
36.0	22610	-60.1	-89.1	1	0.00	116	9	550.8	550.8	550.8
32.9	23173	-59.9	-88.9	1	0.00	132	12	565.6	565.7	565.6
31.9	23365	-61.5	-89.5	1	0.00	137	13	566.4	566.4	566.4
31.4	23470	-60.2	-89.1	1	0.00	140	13	572.6	572.7	572.6
30.7	23605	-58.5	-88.5	1	0.01	142	11	580.7	580.8	580.7
30.0	23750	-58.7	-88.7	1	0.01	145	9	584.0	584.1	584.0
27.6	24273	-58.9	-88.9	1	0.01	100	8	597.5	597.6	597.5
27.1	24384	-58.5	-88.7	1	0.01	90	8	601.5	601.6	601.5
25.9	24689	-57.6	-88.1	1	0.01	40	1	612.5	612.6	612.5
24.6	24994	-56.6	-87.5	1	0.01	65	13	623.8	623.8	623.8
20.8	26068	-53.3	-85.3	1	0.01	87	2	664.8	664.9	664.8
20.3	26213	-53.5	-85.5	1	0.01	90	1	668.4	668.5	668.4
20.0	26320	-53.7	-85.7	1	0.01	25	9	671.0	671.2	671.1
19.2	26582	-53.7	-84.7	1	0.02	40	10	678.9	679.1	678.9
18.7	26751	-55.3	-85.3	1	0.01	50	11	679.1	679.2	679.1
16.8	27432	-54.7	-85.3	1	0.02	90	15	701.9	702.0	701.9
16.0	27737	-54.5	-85.3	1	0.02	205	11	712.3	712.5	712.3
15.5	27951	-54.3	-85.3	1	0.02	260	7	719.8	720.0	719.8
14.6	28346	-51.9	-84.1	1	0.02	0	0	740.5	740.7	740.5
14.0	28610	-50.3	-83.3	1	0.03	350	3	754.5	754.9	754.6
12.9	29143	-50.9	-82.9	1	0.03	330	9	770.3	770.7	770.3
12.3	29454	-49.3	-82.3	1	0.04	318	12	786.5	786.9	786.5
12.0	29616	-50.3	-82.3	1	0.04	312	14	788.5	789.0	788.5
11.4	29953	-46.3	-81.3	1	0.05	299	17	814.5	815.1	814.6
10.5	30480	-44.3	-80.0	1	0.06	280	23	840.4	841.1	840.4
10.2	30697	-43.5	-79.5	1	0.07	273	22	851.2	852.1	851.2
10.1	30785	-43.6	-79.0	1	0.08	270	21	853.9	854.9	854.0
10.0	30830	-43.7	-78.7	1	0.08	270	22	855.3	856.3	855.3
9.2	31394	-43.9	-78.9	1	0.09	300	26	875.4	876.5	875.4
8.8	31699	-44.0	-79.0	1	0.09	265	9	886.4	887.6	886.4
8.4	32004	-44.1	-79.1	1	0.09	310	11	897.6	898.9	897.7
8.4	32000	-44.1	-79.1	1	0.09	309	11	897.4	898.6	897.5
8.1	32245	-42.9	-78.9	1	0.10			911.5	912.9	911.6

## Station information and sounding indices

Station identifier: NKX  
 Station number: 72293  
 Observation time: 150409/0000  
 Station latitude: 32.85  
 Station longitude: -117.12  
 Station elevation: 137.0

Showalter index: 16.68  
 Lifted index: 12.94  
 LIFT computed using virtual temperature: 12.86  
 SWEAT index: 53.98  
 K index: -38.70  
 Cross totals index: -9.30  
 Vertical totals index: 22.70  
 Totals totals index: 13.40  
 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: 270.68  
 Pres [hPa] of the Lifted Condensation Level: 779.45  
 Mean mixed layer potential temperature: 290.66  
 Mean mixed layer mixing ratio: 4.12  
 1000 hPa to 500 hPa thickness: 5590.00  
 Precipitable water [mm] for entire sounding: 6.99

## 72293 NKX San Diego Observations at 12Z 09 Apr 2015

PRES	HGHT	TEMP	DWPT	RELH	MIXR	DRCT	SKNT	THTA	THTE	THTV
hPa	m	C	C	%	g/kg	deg	knot	K	K	K
1000.0	123									
998.0	137	10.2	6.2	76	5.99	95	3	283.5	300.4	284.5
992.0	188	12.8	8.8	77	7.21	139	3	286.6	307.0	287.9
989.0	213	13.0	9.0	77	7.33	161	3	287.1	307.8	288.3
978.3	305	12.5	9.3	81	7.59	240	3	287.4	308.9	288.8
968.0	395	12.0	9.7	86	7.86	282	4	287.8	310.1	289.2
951.0	544	11.6	3.6	58	5.24	353	7	288.9	304.0	289.8
943.5	610	11.9	2.9	54	5.02	25	8	289.8	304.5	290.7
936.0	678	12.2	2.2	50	4.81	9	9	290.8	304.9	291.6
925.0	777	11.6	2.6	54	5.01	345	10	291.2	305.9	292.1
918.0	840	11.0	2.0	54	4.84	350	8	291.2	305.4	292.0
910.0	914	11.5	1.2	49	4.61	355	6	292.5	306.1	293.3
906.0	950	11.8	0.8	47	4.50	8	6	293.1	306.5	293.9
877.3	1219	10.3	-1.7	43	3.87	105	8	294.2	305.9	294.9
876.0	1231	10.2	-1.8	43	3.84	105	8	294.3	305.9	295.0
855.0	1432	9.8	-9.2	25	2.24	101	10	295.9	302.9	296.3
850.0	1481	9.4	-9.6	25	2.18	100	10	296.0	302.8	296.4
814.8	1829	6.7	-8.9	32	2.40	135	17	296.7	304.2	297.1
809.0	1888	6.2	-8.8	33	2.44	140	16	296.8	304.4	297.2
800.0	1980	6.0	-11.0	28	2.07	147	15	297.5	304.1	297.9
785.0	2135	6.6	-31.4	5	0.36	160	12	299.8	301.0	299.9
774.0	2250	6.8	-42.2	2	0.12	190	9	301.2	301.7	301.2
756.4	2438	5.9	-41.3	2	0.14	240	4	302.3	302.8	302.3
728.6	2743	4.5	-39.8	2	0.17	225	8	304.0	304.6	304.0
726.0	2773	4.4	-39.6	2	0.17	227	9	304.1	304.8	304.2
701.7	3048	2.9	-28.0	8	0.55	245	19	305.5	307.4	305.6
700.0	3068	2.8	-27.2	9	0.59	245	15	305.6	307.6	305.7
686.0	3231	1.8	-27.2	10	0.60	245	15	306.2	308.3	306.3
677.0	3337	1.0	-19.0	21	1.27	245	15	306.5	310.7	306.7
650.3	3658	-0.9	-23.6	16	0.89	245	15	307.9	310.9	308.0
637.0	3823	-1.9	-25.9	14	0.73	244	14	308.6	311.1	308.7
602.2	4267	-5.2	-24.4	21	0.89	240	12	309.8	312.9	309.9

601.0	4283	-5.3	-24.3	21	0.90	240	12	309.8	312.9	310.0
577.0	4601	-7.5	-37.5	7	0.26	232	17	310.9	311.8	310.9
556.8	4877	-9.4	-33.7	12	0.40	225	22	311.8	313.2	311.8
556.0	4888	-9.5	-33.5	12	0.41	225	22	311.8	313.3	311.9
551.0	4958	-9.7	-42.7	5	0.16	227	22	312.4	313.0	312.4
516.0	5461	-12.9	-44.9	5	0.14	239	26	314.4	314.9	314.4
510.0	5550	-13.5	-35.5	14	0.37	241	26	314.7	316.1	314.8
500.0	5700	-14.7	-39.7	10	0.24	245	27	315.1	316.0	315.1
498.0	5730	-14.9	-40.9	9	0.22	245	28	315.2	316.0	315.2
494.0	5791	-15.2	-38.6	12	0.28	245	30	315.5	316.5	315.5
489.0	5868	-15.7	-35.7	16	0.37	242	32	315.8	317.2	315.9
484.0	5946	-16.3	-26.3	42	0.93	240	33	316.0	319.3	316.2
476.0	6071	-17.3	-24.3	54	1.13	236	36	316.3	320.3	316.5
474.4	6096	-17.5	-24.3	55	1.13	235	36	316.4	320.4	316.6
467.0	6214	-18.3	-24.3	59	1.15	233	38	316.8	320.8	317.0
461.0	6311	-19.1	-27.1	49	0.91	231	39	317.0	320.2	317.1
456.0	6392	-19.7	-36.7	21	0.36	230	40	317.2	318.6	317.3
455.4	6401	-19.8	-36.8	21	0.36	230	40	317.2	318.6	317.3
449.0	6507	-20.5	-37.5	20	0.34	232	41	317.6	318.9	317.7
441.0	6640	-21.7	-29.7	48	0.74	234	42	317.7	320.4	317.9
439.0	6673	-22.1	-31.1	44	0.65	234	42	317.6	320.0	317.8
429.0	6842	-23.7	-27.7	70	0.92	237	43	317.7	321.0	317.9
414.0	7101	-25.9	-27.8	84	0.95	241	45	318.1	321.5	318.3
408.0	7207	-26.7	-27.7	91	0.97	243	45	318.4	321.9	318.6
401.9	7315	-27.6	-30.2	79	0.78	245	46	318.6	321.4	318.7
400.0	7350	-27.9	-31.0	75	0.72	245	46	318.6	321.3	318.8
397.0	7404	-28.3	-32.2	69	0.65	244	46	318.8	321.2	318.9
385.2	7620	-29.9	-34.2	66	0.55	240	47	319.5	321.5	319.6
378.0	7754	-30.9	-35.4	65	0.50	240	48	319.9	321.7	320.0
371.0	7887	-32.1	-36.0	68	0.48	240	49	320.0	321.8	320.1
363.0	8040	-33.3	-35.3	82	0.53	240	51	320.4	322.4	320.5
351.0	8276	-35.1	-36.6	86	0.48	240	53	321.1	322.9	321.1
345.0	8396	-36.1	-38.8	76	0.39	240	54	321.3	322.8	321.4
342.0	8456	-36.5	-38.9	78	0.39	240	55	321.6	323.0	321.6
336.0	8579	-37.7	-42.2	63	0.28	240	56	321.5	322.6	321.6
309.2	9144	-42.5	-45.2	74	0.22	240	61	322.5	323.4	322.6
303.0	9283	-43.7	-46.0	78	0.21	240	65	322.7	323.6	322.8
301.0	9328	-43.9	-47.1	70	0.18	240	66	323.1	323.8	323.1
300.0	9350	-43.9	-48.4	61	0.16	240	67	323.4	324.0	323.4
298.0	9395	-44.1	-53.1	36	0.09	240	67	323.7	324.1	323.7
295.6	9449	-44.5	-54.7	31	0.08	240	67	323.9	324.3	324.0
294.0	9485	-44.7	-55.7	28	0.07	240	67	324.1	324.4	324.1
280.0	9809	-47.5	-59.5	24	0.04	242	65	324.6	324.8	324.6
276.0	9904	-48.1	-65.1	12	0.02	242	64	325.1	325.2	325.1
263.0	10220	-49.3	-64.3	16	0.03	243	62	327.9	328.0	327.9
250.0	10550	-52.1	-67.1	15	0.02	245	60	328.5	328.6	328.5
245.4	10668	-53.0	-67.5	15	0.02	245	61	328.9	329.0	328.9
220.0	11365	-58.1	-70.1	20	0.01	248	76	331.4	331.5	331.4
206.0	11776	-60.3	-71.3	22	0.01	250	85	334.3	334.3	334.3
204.0	11837	-60.6	-71.6	22	0.01	250	86	334.8	334.9	334.8
202.4	11887	-60.8	-71.8	22	0.01	250	86	335.2	335.3	335.2
200.0	11960	-61.1	-72.1	22	0.01	250	83	335.9	335.9	335.9
193.0	12181	-60.9	-71.9	22	0.01	245	82	339.6	339.7	339.6
185.0	12442	-62.7	-74.7	18	0.01	240	81	340.8	340.9	340.8
183.4	12497	-62.6	-75.0	17	0.01	240	81	341.9	341.9	341.9
174.0	12820	-61.9	-76.9	12	0.01	243	79	348.2	348.2	348.2
169.0	12999	-62.1	-78.1	10	0.01	244	77	350.7	350.8	350.7
167.0	13073	-61.1	-78.1	9	0.01	245	77	353.6	353.6	353.6
154.0	13576	-59.9	-83.9	3	0.00	249	73	363.9	363.9	363.9

151.0	13699	-60.7	-84.7	3	0.00	250	72	364.6	364.6	364.6
150.0	13740	-60.1	-85.1	2	0.00	250	72	366.3	366.4	366.3
149.0	13782	-59.5	-84.5	3	0.00	250	72	368.1	368.1	368.1
138.0	14261	-60.3	-87.3	2	0.00	253	67	374.8	374.8	374.8
133.0	14492	-59.9	-87.9	1	0.00	254	64	379.5	379.5	379.5
130.1	14630	-60.3	-88.3	1	0.00	255	63	381.3	381.3	381.3
125.0	14879	-60.9	-88.9	1	0.00	253	57	384.5	384.5	384.5
118.0	15240	-59.9	-87.9	1	0.00	250	49	392.7	392.7	392.7
118.0	15238	-59.9	-87.9	1	0.00	250	49	392.7	392.7	392.7
107.0	15850	-61.1	-89.1	1	0.00	245	47	401.6	401.6	401.6
105.0	15966	-61.3	-89.3	1	0.00	249	46	403.4	403.4	403.4
102.0	16146	-60.1	-89.1	1	0.00	256	46	409.0	409.0	409.0
100.0	16270	-60.1	-89.1	1	0.00	260	45	411.3	411.3	411.3
89.9	16935	-59.5	-89.5	1	0.00	256	29	425.2	425.2	425.2
88.0	17069	-60.2	-89.8	1	0.00	255	26	426.4	426.5	426.4
85.6	17240	-61.1	-90.1	1	0.00	254	27	428.0	428.0	428.0
79.8	17678	-60.5	-89.5	1	0.00	250	31	438.0	438.0	438.0
78.1	17810	-60.3	-89.3	1	0.00	235	31	441.0	441.0	441.0
76.0	17983	-61.1	-90.1	1	0.00	215	30	442.9	442.9	442.9
74.8	18078	-61.5	-90.5	1	0.00	217	32	444.0	444.0	444.0
72.3	18288	-61.0	-90.0	1	0.00	220	35	449.4	449.4	449.4
70.0	18490	-60.5	-89.5	1	0.00	250	25	454.6	454.6	454.6
68.8	18593	-59.7	-89.5	1	0.00	250	24	458.5	458.5	458.5
68.6	18616	-59.5	-89.5	1	0.00	248	24	459.4	459.4	459.4
65.5	18898	-60.1	-89.8	1	0.00	220	30	464.1	464.1	464.1
56.5	19812	-62.1	-90.9	1	0.00	270	22	479.6	479.6	479.6
53.8	20117	-62.8	-91.2	1	0.00	260	16	484.9	484.9	484.9
51.2	20422	-63.4	-91.6	1	0.00	290	14	490.2	490.2	490.2
50.2	20546	-63.7	-91.7	1	0.00	278	16	492.4	492.4	492.4
50.0	20570	-63.5	-91.5	1	0.00	275	16	493.4	493.4	493.4
49.4	20644	-62.1	-91.1	1	0.00	273	13	498.4	498.4	498.4
48.8	20726	-62.5	-91.2	1	0.00	270	10	499.4	499.4	499.4
47.5	20886	-63.3	-91.3	1	0.00	262	12	501.2	501.2	501.2
46.4	21031	-61.8	-90.6	1	0.00	255	13	508.2	508.2	508.2
46.2	21058	-61.5	-90.5	1	0.00	257	13	509.5	509.5	509.5
44.2	21336	-61.9	-90.9	1	0.00	280	13	515.1	515.1	515.1
40.0	21946	-62.8	-91.8	1	0.00	355	1	527.6	527.6	527.6
38.7	22153	-63.1	-92.1	1	0.00	8	3	531.9	531.9	531.9
35.3	22721	-61.7	-91.7	1	0.00	45	7	549.7	549.7	549.7
33.7	23011	-59.1	-90.1	1	0.00	64	9	563.9	563.9	563.9
30.0	23740	-59.5	-90.5	1	0.00	110	15	581.9	581.9	581.9
29.8	23774	-59.5	-90.5	1	0.00	110	15	582.8	582.8	582.8
27.1	24384	-59.2	-90.2	1	0.00	135	4	600.0	600.1	600.0
23.2	25355	-58.7	-89.7	1	0.01	163	4	628.5	628.6	628.5
20.0	26300	-53.9	-86.9	1	0.01	190	4	670.4	670.5	670.4
19.3	26529	-53.1	-86.1	1	0.01	104	1	679.8	679.9	679.8
19.3	26518	-53.1	-86.1	1	0.01	105	1	679.3	679.4	679.3
18.4	26822	-53.5	-86.2	1	0.01	75	12	687.5	687.6	687.5
16.8	27432	-54.3	-86.5	1	0.01	65	12	703.9	704.0	703.9
15.9	27775	-54.7	-86.7	1	0.01	113	18	713.2	713.4	713.2
15.2	28042	-54.3	-86.6	1	0.01	150	22	723.2	723.4	723.2
13.9	28651	-53.2	-86.3	1	0.02	0	0	746.5	746.7	746.5
13.9	28639	-53.3	-86.3	1	0.02	3	0	745.9	746.1	745.9
13.2	28956	-51.8	-85.2	1	0.02	210	15	761.5	761.8	761.5
12.2	29488	-49.3	-83.3	1	0.03	210	7	788.3	788.7	788.4
12.1	29566	-48.1	-82.6	1	0.04	210	6	795.1	795.5	795.1
11.9	29652	-46.9	-81.9	1	0.04	210	9	802.5	803.0	802.5
11.5	29870	-47.1	-82.1	1	0.04	210	15	809.4	809.9	809.4
11.1	30113	-47.3	-82.3	1	0.04	202	19	817.1	817.7	817.2

11.0	30175	-47.0	-82.0	1	0.04	200	20	820.5	821.1	820.6
10.5	30480	-45.3	-80.8	1	0.06	230	16	837.4	838.1	837.5
10.0	30810	-43.5	-79.5	1	0.07	245	25	856.0	857.0	856.1
9.9	30878	-43.3	-79.3	1	0.08	247	25	859.2	860.2	859.3
9.6	31090	-43.9	-79.9	1	0.07	255	27	864.7	865.6	864.8
9.5	31155	-44.1	-80.1	1	0.07	256	27	866.4	867.3	866.5
9.2	31371	-42.5	-78.5	1	0.09	257	28	880.5	881.7	880.5
8.8	31699	-43.5	-79.5	1	0.08	260	30	888.9	890.0	889.0
8.6	31824	-43.9	-79.9	1	0.08	264	28	892.2	893.2	892.2
8.0	32309	-42.1	-78.7	1	0.10	280	22	917.9	919.3	917.9
7.7	32571	-41.1	-78.1	1	0.12			932.0	933.7	932.1

## Station information and sounding indices

Station identifier: NKX  
 Station number: 72293  
 Observation time: 150409/1200  
 Station latitude: 32.85  
 Station longitude: -117.12  
 Station elevation: 137.0  
 Showalter index: 12.35  
 Lifted index: 9.81  
 LIFT computed using virtual temperature: 9.69  
 SWEAT index: 47.01  
 K index: -15.50  
 Cross totals index: 5.10  
 Vertical totals index: 24.10  
 Totals totals index: 29.20  
 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: 279.27  
 Pres [hPa] of the Lifted Condensation Level: 900.11  
 Mean mixed layer potential temperature: 287.81  
 Mean mixed layer mixing ratio: 6.71  
 1000 hPa to 500 hPa thickness: 5577.00  
 Precipitable water [mm] for entire sounding: 11.66

## 72293 NKX San Diego Observations at 00Z 10 Apr 2015

PRES	HGHT	TEMP	DWPT	RELH	MIXR	DRCT	SKNT	THTA	THTE	THTV
hPa	m	C	C	%	g/kg	deg	knot	K	K	K
1000.0	118									
998.0	137	20.2	9.2	49	7.37	220	4	293.5	315.0	294.8
986.0	241	18.4	7.4	49	6.59	232	6	292.7	311.9	293.9
978.6	305	17.1	6.8	51	6.37	240	8	292.0	310.6	293.1
976.0	327	16.6	6.6	52	6.30	241	8	291.8	310.1	292.9
943.8	610	13.8	5.7	58	6.13	255	8	291.8	309.6	292.9
925.0	779	12.2	5.2	62	6.03	240	5	291.8	309.3	292.8
917.0	852	11.4	4.4	62	5.75	237	6	291.7	308.5	292.7
910.2	914	11.3	1.7	52	4.77	235	6	292.2	306.3	293.0
904.0	971	11.2	-0.8	43	4.01	226	7	292.7	304.6	293.4
893.0	1073	10.6	-1.4	43	3.88	209	9	293.1	304.7	293.8
890.0	1101	10.8	-0.2	47	4.26	204	9	293.6	306.3	294.3

884.0	1158	11.0	-5.0	32	3.00	195	10	294.3	303.5	294.9
881.0	1186	11.0	-4.0	35	3.24	190	10	294.6	304.5	295.2
877.5	1219	10.8	-3.1	38	3.49	185	11	294.7	305.3	295.3
869.0	1300	10.2	-0.8	46	4.17	182	14	294.9	307.5	295.7
850.0	1484	9.0	-3.0	43	3.62	175	22	295.6	306.6	296.2
845.9	1524	9.1	-7.5	30	2.58	175	22	296.1	304.1	296.5
842.0	1562	9.2	-11.8	21	1.85	171	21	296.6	302.4	296.9
837.0	1612	9.4	-11.6	21	1.89	165	21	297.3	303.3	297.6
815.2	1829	7.8	-6.2	36	2.96	140	17	297.9	307.1	298.4
812.0	1862	7.6	-5.4	39	3.16	140	17	298.0	307.7	298.5
789.0	2098	7.0	-15.0	19	1.52	140	18	299.8	304.7	300.1
785.6	2134	6.8	-18.1	15	1.18	140	18	299.9	303.8	300.1
765.0	2351	5.4	-36.6	3	0.22	154	14	300.7	301.5	300.8
756.8	2438	4.8	-35.6	3	0.24	160	13	301.0	301.9	301.1
728.8	2743	2.8	-32.1	6	0.36	205	15	302.0	303.3	302.1
701.8	3048	0.7	-28.6	9	0.52	215	13	303.1	304.9	303.1
700.0	3069	0.6	-28.4	9	0.53	215	13	303.1	305.0	303.2
698.0	3092	0.4	-29.6	8	0.47	217	13	303.1	304.8	303.2
681.0	3289	-0.7	-35.7	5	0.27	230	11	304.1	305.0	304.1
675.5	3353	-1.0	-29.1	10	0.51	235	11	304.4	306.2	304.5
670.0	3419	-1.3	-22.3	19	0.96	236	13	304.8	308.1	305.0
650.0	3658	-2.6	-24.7	17	0.80	240	19	305.9	308.7	306.1
632.0	3881	-3.9	-26.9	15	0.67	247	17	307.0	309.3	307.1
625.5	3962	-4.5	-25.4	18	0.78	250	16	307.2	309.9	307.4
616.0	4083	-5.3	-23.3	23	0.96	242	18	307.6	310.9	307.8
601.6	4267	-7.0	-24.5	23	0.88	230	20	307.8	310.8	307.9
584.0	4498	-9.1	-26.1	24	0.78	236	23	307.9	310.6	308.1
575.0	4618	-9.9	-30.9	16	0.51	239	24	308.3	310.2	308.4
555.9	4877	-11.9	-27.4	26	0.73	245	27	309.0	311.5	309.1
554.0	4903	-12.1	-27.1	28	0.75	245	27	309.0	311.7	309.2
540.0	5098	-13.5	-31.5	20	0.51	244	31	309.6	311.5	309.7
537.0	5141	-13.7	-36.7	12	0.31	243	32	309.9	311.0	309.9
521.0	5370	-14.7	-41.7	8	0.19	242	36	311.4	312.1	311.4
500.0	5680	-16.3	-39.3	12	0.25	240	42	313.1	314.1	313.1
473.1	6096	-18.4	-42.3	10	0.20	250	46	315.4	316.2	315.5
470.0	6145	-18.7	-42.7	10	0.19	250	46	315.7	316.4	315.8
432.0	6770	-23.7	-54.7	4	0.05	246	52	317.1	317.3	317.1
423.0	6924	-24.5	-38.5	26	0.33	245	53	317.9	319.2	318.0
418.0	7010	-25.1	-40.3	23	0.27	245	54	318.2	319.3	318.3
407.0	7205	-26.5	-44.5	17	0.18	248	54	318.9	319.6	318.9
400.0	7330	-27.7	-45.7	16	0.16	250	54	318.9	319.5	318.9
383.9	7620	-30.0	-49.2	14	0.11	245	57	319.6	320.1	319.7
362.0	8037	-33.3	-54.3	10	0.07	246	60	320.6	320.9	320.7
337.0	8533	-37.9	-53.9	17	0.07	248	64	321.0	321.3	321.0
327.0	8739	-39.9	-50.9	30	0.11	249	65	321.0	321.5	321.0
315.0	8993	-41.9	-53.9	26	0.08	249	67	321.7	322.0	321.7
308.0	9144	-43.3	-53.3	32	0.09	250	68	321.8	322.1	321.8
308.0	9144	-43.3	-53.3	32	0.09	250	68	321.8	322.1	321.8
300.0	9320	-44.7	-55.7	28	0.07	250	68	322.2	322.5	322.3
290.0	9545	-46.7	-59.7	21	0.04	250	69	322.5	322.7	322.5
250.0	10510	-54.7	-64.7	28	0.03	250	71	324.6	324.7	324.6
248.0	10561	-54.9	-65.0	27	0.02	250	71	325.1	325.2	325.1
243.9	10668	-55.3	-65.7	26	0.02	250	71	326.0	326.1	326.0
235.0	10904	-56.3	-67.3	24	0.02	248	71	328.0	328.1	328.0
218.0	11377	-59.1	-70.1	23	0.01	245	70	330.8	330.8	330.8
212.0	11552	-58.7	-73.7	13	0.01	245	67	334.0	334.1	334.0
207.0	11702	-57.1	-75.1	8	0.01	245	65	338.8	338.9	338.8
200.0	11920	-56.5	-77.5	5	0.00	245	62	343.1	343.2	343.1
197.0	12016	-56.3	-79.3	4	0.00	245	63	344.9	345.0	344.9

186.0	12381	-57.9	-80.9	4	0.00	245	66	348.1	348.1	348.1
182.6	12497	-57.8	-81.6	3	0.00	245	67	350.1	350.1	350.1
167.0	13063	-57.1	-85.1	2	0.00	250	51	360.3	360.3	360.3
165.9	13106	-57.3	-85.3	2	0.00	250	50	360.7	360.7	360.7
158.0	13411	-58.6	-86.6	2	0.00	235	56	363.4	363.4	363.4
153.0	13616	-59.5	-87.5	2	0.00	242	63	365.3	365.3	365.3
150.6	13716	-59.2	-88.0	1	0.00	245	66	367.5	367.5	367.5
150.0	13740	-59.1	-88.1	1	0.00	250	64	368.1	368.1	368.1
144.0	13996	-59.3	-88.3	1	0.00	250	62	372.0	372.0	372.0
138.0	14262	-60.5	-89.5	1	0.00	250	59	374.5	374.5	374.5
134.0	14445	-59.7	-88.7	1	0.00	250	58	379.1	379.1	379.1
131.0	14586	-60.7	-89.7	1	0.00	250	57	379.7	379.7	379.7
127.0	14779	-60.9	-89.9	1	0.00	250	55	382.7	382.8	382.7
118.0	15236	-60.9	-89.9	1	0.00	250	51	390.9	390.9	390.9
117.9	15240	-60.9	-89.9	1	0.00	250	51	391.0	391.0	391.0
115.0	15396	-59.9	-88.9	1	0.00	250	47	395.6	395.6	395.6
112.3	15545	-60.6	-89.6	1	0.00	250	43	397.0	397.0	397.0
112.0	15561	-60.7	-89.7	1	0.00	250	43	397.1	397.1	397.1
109.0	15730	-59.9	-88.9	1	0.00	247	47	401.7	401.7	401.7
106.0	15905	-60.3	-89.3	1	0.00	245	51	404.2	404.2	404.2
100.0	16270	-57.7	-88.7	1	0.00	240	60	416.0	416.0	416.0
99.3	16315	-57.6	-88.6	1	0.00	240	60	417.1	417.1	417.1
97.1	16459	-57.1	-88.4	1	0.00	240	60	420.7	420.7	420.7
90.4	16910	-55.7	-87.7	1	0.00	244	48	432.1	432.1	432.1
81.9	17540	-55.7	-87.7	1	0.00	249	32	444.5	444.5	444.5
72.7	18288	-59.0	-89.5	1	0.00	255	12	452.8	452.8	452.8
70.0	18530	-60.1	-90.1	1	0.00	260	15	455.5	455.5	455.5
63.6	19123	-62.7	-91.7	1	0.00	256	31	462.4	462.4	462.4
62.8	19202	-62.7	-91.7	1	0.00	255	33	464.1	464.1	464.1
59.8	19507	-62.7	-91.7	1	0.00	275	23	470.7	470.7	470.7
57.5	19743	-62.7	-91.7	1	0.00	236	21	475.9	475.9	475.9
56.9	19812	-61.3	-90.7	1	0.00	225	21	480.7	480.7	480.7
56.1	19896	-59.5	-89.5	1	0.00	231	19	486.6	486.6	486.6
54.1	20117	-60.3	-90.0	1	0.00	245	14	489.7	489.7	489.7
50.0	20610	-62.1	-91.1	1	0.00	290	5	496.7	496.7	496.7
49.1	20726	-62.9	-91.5	1	0.00	265	3	497.4	497.4	497.4
47.8	20886	-64.1	-92.1	1	0.00	249	4	498.4	498.4	498.4
44.4	21341	-60.5	-90.5	1	0.00	207	7	517.8	517.8	517.8
44.4	21336	-60.5	-90.5	1	0.00	205	7	517.6	517.6	517.6
42.3	21641	-60.2	-90.5	1	0.00	0	0	525.7	525.7	525.7
38.0	22310	-59.5	-90.5	1	0.00	33	3	543.9	543.9	543.9
36.2	22612	-60.7	-90.7	1	0.00	48	4	548.4	548.4	548.4
32.6	23267	-57.7	-89.7	1	0.00	80	6	573.0	573.0	573.0
30.0	23790	-57.7	-88.7	1	0.01	105	8	586.8	586.8	586.8
28.5	24114	-58.7	-88.7	1	0.01	130	10	592.6	592.7	592.6
27.3	24384	-56.8	-88.3	1	0.01	150	12	605.3	605.4	605.3
26.9	24480	-56.1	-88.1	1	0.01	150	12	609.8	609.9	609.8
25.0	24946	-56.3	-87.3	1	0.01	150	13	622.1	622.2	622.1
24.8	24994	-56.1	-87.2	1	0.01	150	13	624.0	624.1	624.0
23.7	25298	-54.9	-86.9	1	0.01	180	17	636.0	636.1	636.1
22.6	25603	-53.7	-86.5	1	0.01	220	12	648.4	648.5	648.4
22.4	25650	-53.5	-86.5	1	0.01	220	12	650.3	650.4	650.3
20.0	26380	-54.1	-86.1	1	0.01	215	4	669.8	670.0	669.8
19.1	26676	-53.9	-85.9	1	0.01	219	8	679.3	679.5	679.3
17.8	27127	-51.7	-84.7	1	0.02	225	13	699.8	700.0	699.9
17.0	27432	-50.2	-83.8	1	0.02	250	9	714.0	714.2	714.0
16.5	27626	-49.3	-83.3	1	0.02	199	4	723.2	723.4	723.2
16.2	27737	-49.5	-83.3	1	0.02	170	1	726.0	726.2	726.0
15.1	28206	-50.5	-83.5	1	0.02	212	9	737.8	738.0	737.8

14.8	28346	-49.9	-83.4	1	0.03	225	11	744.3	744.6	744.3
14.1	28651	-48.5	-83.0	1	0.03	240	11	758.8	759.1	758.8
13.8	28797	-47.9	-82.9	1	0.03	245	15	765.8	766.2	765.8
13.5	28956	-46.3	-81.6	1	0.04	250	19	776.6	777.0	776.6
12.9	29247	-43.3	-79.3	1	0.06	255	23	796.7	797.4	796.7
12.3	29569	-42.3	-78.3	1	0.07	260	26	811.1	812.0	811.1
11.8	29870	-42.5	-78.5	1	0.07	265	30	820.9	821.8	820.9
11.1	30263	-42.7	-78.7	1	0.07	259	31	833.8	834.7	833.8
10.8	30480	-42.0	-78.5	1	0.08	255	31	844.0	845.0	844.0
10.4	30704	-41.3	-78.3	1	0.08	237	31	854.6	855.7	854.7
10.3	30785	-41.7	-78.4	1	0.08	230	31	856.2	857.2	856.2
10.0	30970	-42.5	-78.5	1	0.08	240	28	859.8	860.9	859.8
9.9	31038	-42.9	-78.9	1	0.08	243	26	860.8	861.8	860.8
9.8	31090	-42.8	-78.8	1	0.08	245	25	863.1	864.2	863.2
9.4	31394	-42.0	-78.5	1	0.09	230	36	877.2	878.3	877.2
8.9	31758	-41.1	-78.1	1	0.10			894.3	895.6	894.3

## Station information and sounding indices

Station identifier: NKX  
 Station number: 72293  
 Observation time: 150410/0000  
 Station latitude: 32.85  
 Station longitude: -117.12  
 Station elevation: 137.0  
 Showalter index: 8.26  
 Lifted index: 5.58  
 LIFT computed using virtual temperature: 5.42  
 SWEAT index: 224.30  
 K index: -6.70  
 Cross totals index: 13.30  
 Vertical totals index: 25.30  
 Totals totals index: 38.60  
 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: 277.77  
 Pres [hPa] of the Lifted Condensation Level: 838.30  
 Mean mixed layer potential temperature: 292.14  
 Mean mixed layer mixing ratio: 6.41  
 1000 hPa to 500 hPa thickness: 5562.00  
 Precipitable water [mm] for entire sounding: 11.43

## 72293 NKX San Diego Observations at 12Z 10 Apr 2015

PRES	HGHT	TEMP	DWPT	RELH	MIXR	DRCT	SKNT	THTA	THTE	THTV
hPa	m	C	C	%	g/kg	deg	knot	K	K	K
1000.0	127									
999.0	137	11.2	10.4	95	7.98	55	3	284.4	306.7	285.8
995.0	171	12.6	11.6	94	8.69	44	4	286.2	310.5	287.7
991.0	204	13.2	11.9	92	8.90	33	4	287.1	312.1	288.6
979.1	305	12.3	11.2	93	8.60	0	6	287.2	311.4	288.7
943.9	610	9.7	9.1	96	7.73	345	2	287.5	309.4	288.9
925.0	779	8.2	7.9	98	7.27	315	2	287.7	308.3	288.9



910.0	914	7.1	7.1	100	6.98	250	3	287.9	307.7	289.1
909.0	923	7.0	7.0	100	6.96	248	3	287.9	307.7	289.1
902.0	987	6.8	5.7	93	6.40	237	5	288.3	306.6	289.4
892.0	1079	8.2	-1.8	49	3.77	220	7	290.7	301.9	291.4
886.0	1134	8.4	2.4	66	5.16	210	8	291.5	306.6	292.4
884.0	1153	8.8	2.8	66	5.32	207	8	292.1	307.7	293.0
877.0	1219	9.1	-1.6	47	3.91	195	10	293.1	304.7	293.7
875.0	1238	9.2	-2.8	43	3.57	192	10	293.3	304.1	294.0
868.0	1304	10.2	-23.8	7	0.65	183	8	295.1	297.2	295.2
850.0	1478	9.8	-39.2	2	0.15	160	3	296.4	296.9	296.4
834.0	1635	9.4	-39.6	2	0.15	200	4	297.6	298.1	297.6
814.6	1829	8.2	-37.5	2	0.19	250	5	298.4	299.1	298.4
784.9	2134	6.4	-34.3	4	0.27	265	6	299.6	300.6	299.6
775.0	2238	5.8	-33.2	4	0.30	248	7	300.0	301.1	300.1
760.0	2398	4.8	-15.2	22	1.55	222	9	300.6	305.7	300.9
756.2	2438	4.6	-16.0	21	1.46	215	9	300.9	305.6	301.1
729.0	2736	3.4	-21.6	14	0.94	195	11	302.7	305.9	302.9
728.4	2743	3.3	-21.6	14	0.94	195	11	302.7	305.9	302.9
701.3	3048	0.9	-21.2	17	1.01	210	7	303.3	306.7	303.5
700.0	3063	0.8	-21.2	18	1.01	220	12	303.3	306.8	303.5
694.0	3132	0.6	-29.4	8	0.49	222	12	303.9	305.6	303.9
687.0	3213	0.0	-23.0	16	0.88	224	13	304.1	307.1	304.2
680.0	3295	-0.1	-32.1	7	0.38	226	14	304.9	306.2	304.9
652.0	3631	-1.5	-38.5	4	0.21	234	16	307.0	307.8	307.0
649.8	3658	-1.7	-37.3	5	0.24	235	16	307.1	307.9	307.1
631.0	3891	-3.3	-27.3	14	0.65	220	19	307.8	310.1	307.9
625.3	3962	-3.8	-30.7	10	0.48	215	20	308.1	309.8	308.1
614.0	4106	-4.7	-37.7	6	0.24	220	20	308.6	309.5	308.6
601.6	4267	-5.5	-35.9	7	0.30	225	20	309.5	310.6	309.6
595.0	4353	-5.9	-34.9	8	0.33	228	21	310.0	311.2	310.1
578.5	4572	-7.7	-31.2	13	0.49	235	24	310.3	312.1	310.4
577.0	4593	-7.9	-30.9	14	0.51	235	24	310.4	312.2	310.5
556.1	4877	-9.9	-35.8	10	0.33	235	21	311.3	312.5	311.4
534.0	5190	-12.1	-41.1	7	0.20	243	25	312.3	313.1	312.3
529.0	5262	-12.5	-25.5	33	0.91	244	25	312.7	315.9	312.8
525.0	5320	-13.1	-23.1	43	1.14	246	26	312.6	316.6	312.8
513.7	5486	-14.4	-23.5	46	1.13	250	28	313.0	316.9	313.2
513.0	5496	-14.5	-23.5	46	1.13	250	28	313.0	316.9	313.2
500.0	5690	-16.1	-25.1	46	1.00	250	28	313.4	316.9	313.5
473.3	6096	-19.1	-28.1	45	0.80	240	36	314.6	317.5	314.7
435.0	6722	-23.7	-32.7	43	0.57	240	43	316.4	318.5	316.5
412.0	7117	-25.7	-40.7	23	0.27	240	47	318.8	319.8	318.9
400.8	7315	-27.4	-44.2	19	0.19	240	49	319.1	319.9	319.2
400.0	7330	-27.5	-44.5	18	0.18	240	50	319.2	319.9	319.2
384.1	7620	-29.7	-47.7	16	0.13	245	50	320.0	320.6	320.0
384.0	7622	-29.7	-47.7	16	0.13	245	50	320.0	320.6	320.0
374.0	7809	-31.3	-46.3	21	0.16	245	50	320.3	321.0	320.4
370.0	7884	-32.1	-43.1	33	0.23	245	50	320.2	321.1	320.3
326.0	8760	-40.5	-44.2	67	0.23	245	49	320.5	321.4	320.5
318.0	8929	-41.7	-43.4	83	0.26	245	48	321.1	322.1	321.1
308.0	9144	-43.5	-45.2	84	0.22	245	48	321.5	322.3	321.5
305.0	9210	-44.1	-45.7	84	0.21	245	48	321.6	322.4	321.6
300.0	9320	-44.9	-46.6	83	0.19	245	47	322.0	322.7	322.0
290.0	9547	-46.5	-49.7	70	0.14	245	48	322.8	323.4	322.8
277.0	9852	-49.5	-51.7	78	0.12	245	50	322.8	323.2	322.8
267.0	10093	-51.5	-55.8	60	0.07	245	51	323.2	323.6	323.2
250.0	10520	-54.9	-58.9	61	0.05	245	54	324.3	324.6	324.3
247.0	10597	-55.5	-59.7	59	0.05	246	54	324.5	324.8	324.6
240.0	10779	-55.5	-61.5	47	0.04	248	54	327.2	327.4	327.2

232.7	10973	-56.6	-62.9	45	0.03	250	54	328.5	328.7	328.5
216.0	11441	-59.1	-66.1	40	0.02	258	65	331.6	331.8	331.6
211.2	11582	-58.8	-67.2	33	0.02	260	68	334.2	334.3	334.2
210.0	11616	-58.8	-67.5	32	0.02	260	68	334.9	334.9	334.9
209.0	11646	-58.7	-67.7	30	0.02	260	67	335.4	335.5	335.4
200.0	11920	-59.9	-69.9	26	0.02	255	58	337.8	337.8	337.8
191.0	12207	-61.1	-73.1	19	0.01	250	61	340.3	340.4	340.3
185.0	12405	-61.1	-75.1	14	0.01	251	60	343.4	343.4	343.4
176.0	12717	-58.7	-79.7	5	0.00	252	58	352.3	352.3	352.3
163.0	13198	-59.5	-84.5	3	0.00	253	56	358.8	358.8	358.8
160.0	13314	-58.5	-84.5	2	0.00	254	55	362.4	362.4	362.4
155.0	13514	-59.1	-86.1	2	0.00	254	54	364.6	364.6	364.6
150.0	13720	-57.9	-85.9	2	0.00	255	53	370.1	370.1	370.1
148.0	13805	-57.5	-86.5	1	0.00	255	52	372.2	372.2	372.2
144.0	13977	-58.9	-87.9	1	0.00	255	50	372.7	372.7	372.7
136.2	14326	-58.9	-88.5	1	0.00	255	46	378.7	378.7	378.7
132.0	14523	-58.9	-88.9	1	0.00	255	49	382.1	382.1	382.1
123.5	14935	-60.8	-89.9	1	0.00	255	56	386.0	386.1	386.0
122.0	15014	-61.1	-90.1	1	0.00	256	53	386.8	386.8	386.8
118.0	15221	-61.1	-89.1	1	0.00	260	44	390.5	390.5	390.5
117.6	15240	-60.9	-89.1	1	0.00	260	43	391.2	391.2	391.2
116.0	15327	-60.1	-89.1	1	0.00	259	42	394.3	394.3	394.3
113.0	15490	-61.1	-90.1	1	0.00	258	40	395.4	395.4	395.4
110.0	15657	-60.1	-89.1	1	0.00	257	38	400.3	400.3	400.3
106.7	15850	-60.5	-89.5	1	0.00	255	35	403.1	403.1	403.1
100.0	16250	-61.3	-90.3	1	0.00	245	43	409.0	409.0	409.0
87.6	17074	-60.1	-90.1	1	0.00	245	34	427.2	427.2	427.2
85.3	17241	-57.9	-88.9	1	0.00	245	32	434.9	434.9	434.9
76.0	17967	-58.5	-89.5	1	0.00	245	24	448.2	448.2	448.2
75.8	17983	-58.6	-89.6	1	0.00	245	24	448.3	448.3	448.3
72.2	18288	-60.9	-91.2	1	0.00	225	29	449.7	449.8	449.7
71.0	18392	-61.7	-91.7	1	0.00	230	30	450.2	450.2	450.2
70.0	18480	-61.7	-91.7	1	0.00	235	30	452.0	452.1	452.0
68.7	18593	-61.3	-91.5	1	0.00	255	35	455.3	455.3	455.3
65.5	18898	-60.1	-91.0	1	0.00	260	23	464.2	464.2	464.2
64.8	18961	-59.9	-90.9	1	0.00	250	23	466.1	466.1	466.1
62.3	19202	-60.3	-91.3	1	0.00	210	22	470.3	470.3	470.3
59.4	19507	-60.9	-91.9	1	0.00	230	31	475.7	475.7	475.7
58.1	19641	-61.1	-92.1	1	0.00	238	27	478.1	478.1	478.1
54.5	20042	-58.3	-89.3	1	0.00	261	16	493.4	493.4	493.4
53.9	20117	-58.8	-89.7	1	0.00	265	14	493.9	493.9	493.9
50.0	20580	-61.9	-91.9	1	0.00	335	5	497.2	497.2	497.2
48.8	20730	-62.9	-92.9	1	0.00	320	4	498.3	498.3	498.3
48.8	20726	-62.9	-92.9	1	0.00	320	4	498.2	498.3	498.2
45.8	21123	-60.3	-91.3	1	0.00	330	7	513.7	513.7	513.7
44.3	21336	-60.7	-91.4	1	0.00	335	8	517.8	517.8	517.8
42.1	21641	-61.2	-91.6	1	0.00	70	1	523.8	523.8	523.8
40.4	21902	-61.7	-91.7	1	0.00	72	1	528.9	528.9	528.9
38.7	22170	-58.7	-89.7	1	0.00	75	1	543.0	543.1	543.0
32.3	23305	-58.9	-89.9	1	0.00	86	2	571.3	571.3	571.3
30.0	23770	-57.7	-89.7	1	0.00	90	2	586.8	586.8	586.8
28.1	24184	-56.9	-88.9	1	0.01	2	3	600.0	600.1	600.0
27.2	24384	-57.8	-89.0	1	0.01	320	3	603.1	603.1	603.1
26.9	24460	-58.1	-89.1	1	0.01	323	3	604.2	604.2	604.2
25.0	24926	-54.3	-87.3	1	0.01	338	2	627.9	628.0	627.9
23.2	25404	-55.3	-87.3	1	0.01	354	0	638.5	638.6	638.5
22.5	25603	-54.5	-86.7	1	0.01	0	0	646.5	646.6	646.5
20.3	26264	-51.9	-84.9	1	0.01	268	10	673.7	673.8	673.7
20.0	26360	-52.3	-85.3	1	0.01	255	12	675.3	675.5	675.3

19.5	26518	-52.6	-85.6	1	0.01	250	25	679.0	679.2	679.0
17.8	27127	-53.8	-86.8	1	0.01	305	10	693.9	694.1	693.9
17.8	27110	-53.9	-86.9	1	0.01	303	10	693.1	693.3	693.1
16.9	27444	-52.3	-85.3	1	0.02	241	11	708.6	708.8	708.6
16.9	27432	-52.4	-85.4	1	0.02	240	11	708.1	708.3	708.1
16.1	27756	-53.3	-86.3	1	0.01	259	24	715.3	715.4	715.3
16.1	27737	-53.2	-86.2	1	0.01	260	24	714.9	715.0	714.9
15.4	28044	-50.7	-84.7	1	0.02	245	18	733.0	733.2	733.0
15.4	28042	-50.7	-84.7	1	0.02	245	18	732.9	733.1	732.9
14.7	28346	-49.4	-83.8	1	0.02	275	25	746.9	747.2	746.9
13.4	28956	-46.9	-82.1	1	0.04	275	17	775.7	776.1	775.7
12.8	29261	-45.6	-81.3	1	0.04	250	15	790.5	791.0	790.5
12.4	29472	-44.7	-80.7	1	0.05	243	20	800.8	801.4	800.8
11.8	29803	-45.3	-80.3	1	0.05	232	27	810.1	810.8	810.1
11.7	29870	-45.2	-80.3	1	0.05	230	28	812.8	813.4	812.8
11.2	30175	-44.8	-80.3	1	0.06	255	40	824.8	825.5	824.9
10.7	30480	-44.4	-80.3	1	0.06	260	33	837.1	837.9	837.1
10.5	30582	-44.3	-80.3	1	0.06	256	34	841.2	842.0	841.3
10.0	30910	-42.3	-78.3	1	0.09	245	36	860.5	861.6	860.6
9.8	31047	-41.9	-77.9	1	0.10	249	35	867.0	868.2	867.0
9.3	31400	-42.9	-78.9	1	0.09	258	34	876.3	877.4	876.3
9.0	31622	-40.9	-77.9	1	0.10	264	33	892.2	893.6	892.2
7.8	32614	-40.5	-77.5	1	0.13	290	28	931.6	933.4	931.7
7.7	32684	-40.5	-77.5	1	0.13			934.5	936.2	934.5

## Station information and sounding indices

Station identifier: NKX  
 Station number: 72293  
 Observation time: 150410/1200  
 Station latitude: 32.85  
 Station longitude: -117.12  
 Station elevation: 137.0  
 Showalter index: 15.03  
 Lifted index: 5.95  
 LIFT computed using virtual temperature: 5.91  
 SWEAT index: 33.97  
 K index: -35.30  
 Cross totals index: -23.10  
 Vertical totals index: 25.90  
 Totals totals index: 2.80  
 Convective Available Potential Energy: 9.01  
 CAPE using virtual temperature: 11.00  
 Convective Inhibition: 0.00  
 CINS using virtual temperature: 0.00  
 Equilibrium Level: 896.75  
 Equilibrium Level using virtual temperature: 894.09  
 Level of Free Convection: 946.98  
 LFCT using virtual temperature: 948.65  
 Bulk Richardson Number: 0.33  
 Bulk Richardson Number using CAPV: 0.41  
 Temp [K] of the Lifted Condensation Level: 283.47  
 Pres [hPa] of the Lifted Condensation Level: 956.26  
 Mean mixed layer potential temperature: 287.13  
 Mean mixed layer mixing ratio: 8.31  
 1000 hPa to 500 hPa thickness: 5563.00  
 Precipitable water [mm] for entire sounding: 12.23

# 72293 NKX San Diego Observations at 00Z 11 Apr 2015

PRES	HGHT	TEMP	DWPT	RELH	MIXR	DRCT	SKNT	THTA	THTE	THTV
hPa	m	C	C	%	g/kg	deg	knot	K	K	K
1000.0	124									
999.0	137	18.6	9.6	56	7.56	310	11	291.8	313.7	293.2
994.0	180	18.0	9.0	56	7.30	302	11	291.6	312.7	292.9
979.3	305	16.0	8.2	60	7.04	280	11	290.9	311.2	292.1
959.0	482	13.2	7.2	67	6.68	271	9	289.8	309.0	291.0
944.3	610	12.0	6.8	71	6.62	265	7	289.9	308.9	291.0
939.0	657	11.6	6.7	72	6.59	264	6	289.9	308.9	291.1
925.0	782	11.8	-0.2	44	4.09	260	4	291.4	303.5	292.1
922.0	809	11.8	-2.2	38	3.54	253	4	291.6	302.2	292.3
916.0	864	12.4	-10.6	19	1.87	238	5	292.8	298.6	293.1
910.5	914	12.2	-8.8	22	2.18	225	5	293.0	299.8	293.4
903.0	984	11.8	-6.2	28	2.68	218	4	293.4	301.6	293.9
897.0	1039	11.8	-5.2	30	2.91	213	4	293.9	302.8	294.5
891.0	1095	12.4	-27.6	4	0.45	207	3	295.1	296.7	295.2
877.9	1219	12.0	-30.8	3	0.34	195	2	296.0	297.2	296.0
850.0	1489	11.2	-37.8	2	0.17	180	7	297.9	298.5	297.9
834.0	1647	11.0	-36.0	2	0.21	173	7	299.3	300.1	299.3
815.9	1829	9.6	-28.9	5	0.44	165	6	299.7	301.2	299.8
792.0	2075	7.8	-19.2	13	1.06	32	1	300.3	303.8	300.5
786.3	2134	7.5	-19.1	13	1.08	0	0	300.6	304.2	300.8
757.5	2438	5.9	-18.5	15	1.18	315	3	302.1	306.0	302.3
729.8	2743	4.2	-17.9	18	1.29	300	6	303.5	307.8	303.7
716.0	2898	3.4	-17.6	20	1.35	289	7	304.2	308.7	304.5
705.0	3024	2.8	-31.2	6	0.40	279	8	304.9	306.4	305.0
700.0	3081	2.6	-29.4	7	0.48	275	9	305.3	307.0	305.4
678.0	3339	1.2	-17.8	23	1.40	266	12	306.6	311.2	306.8
668.0	3458	0.4	-12.6	37	2.18	262	14	307.0	314.1	307.4
651.5	3658	-1.1	-12.6	41	2.25	255	16	307.5	314.9	307.9
627.0	3962	-3.4	-12.5	49	2.34	245	19	308.3	315.9	308.7
615.0	4116	-4.5	-12.5	54	2.39	242	20	308.7	316.5	309.1
605.0	4246	-5.3	-15.3	45	1.93	240	21	309.2	315.6	309.6
603.4	4267	-5.5	-15.3	46	1.94	240	21	309.2	315.7	309.6
588.0	4469	-7.1	-15.1	53	2.02	242	22	309.6	316.4	310.0
576.0	4630	-7.9	-22.9	29	1.06	243	22	310.5	314.2	310.7
557.8	4877	-10.3	-22.7	36	1.11	245	23	310.5	314.4	310.7
542.0	5099	-12.5	-22.5	43	1.17	242	24	310.5	314.5	310.7
500.0	5710	-17.7	-27.7	41	0.79	235	28	311.4	314.2	311.6
492.0	5830	-18.9	-28.9	41	0.72	237	29	311.4	313.9	311.5
483.0	5967	-19.9	-26.9	54	0.88	238	30	311.8	314.9	311.9
479.0	6028	-19.9	-22.7	78	1.30	239	30	312.5	317.0	312.8
475.0	6090	-19.9	-23.1	76	1.26	240	31	313.3	317.6	313.5
474.6	6096	-19.9	-23.1	76	1.26	240	31	313.3	317.6	313.5
452.0	6456	-22.5	-25.2	79	1.10	241	32	314.5	318.3	314.7
415.0	7076	-26.3	-31.3	63	0.68	244	34	317.4	319.8	317.5
400.0	7340	-28.7	-33.5	63	0.57	245	35	317.6	319.7	317.7
394.0	7448	-29.5	-34.0	65	0.55	245	37	317.9	320.0	318.0
384.5	7620	-30.9	-35.9	62	0.47	245	39	318.3	320.1	318.4
346.0	8361	-36.9	-43.9	48	0.23	243	42	319.9	320.8	320.0
328.0	8728	-40.3	-44.9	61	0.21	241	43	320.2	321.0	320.2
312.0	9067	-42.9	-48.9	52	0.14	240	45	321.2	321.7	321.2
308.4	9144	-43.5	-49.5	51	0.14	240	45	321.3	321.9	321.3
300.0	9330	-45.1	-51.1	51	0.12	235	51	321.7	322.1	321.7
281.3	9754	-48.6	-54.6	50	0.08	230	51	322.6	322.9	322.6

270.0	10024	-50.9	-56.9	49	0.06	233	53	323.1	323.4	323.1
250.0	10520	-55.3	-59.8	57	0.05	240	57	323.7	323.9	323.7
244.0	10675	-56.5	-60.5	60	0.05	242	59	324.2	324.4	324.2
239.0	10806	-56.9	-60.9	60	0.04	243	61	325.5	325.7	325.5
232.8	10973	-57.4	-63.7	44	0.03	245	63	327.3	327.4	327.3
231.0	11022	-57.5	-64.5	40	0.03	246	63	327.8	327.9	327.8
221.0	11301	-58.9	-66.9	35	0.02	250	61	329.8	329.9	329.8
215.0	11474	-59.1	-68.1	30	0.02	250	59	332.1	332.2	332.1
212.0	11563	-57.9	-66.9	31	0.02	250	57	335.3	335.4	335.3
211.3	11582	-58.0	-67.2	30	0.02	250	57	335.5	335.6	335.5
200.0	11930	-58.9	-72.9	15	0.01	245	55	339.3	339.4	339.3
196.0	12056	-59.1	-74.1	13	0.01	238	52	341.0	341.0	341.0
191.8	12192	-58.9	-75.5	10	0.01	230	49	343.4	343.4	343.4
178.0	12659	-58.3	-80.3	4	0.00	230	67	351.8	351.8	351.8
174.0	12802	-57.0	-81.4	3	0.00	230	72	356.2	356.2	356.2
174.0	12802	-57.0	-81.4	3	0.00	230	72	356.2	356.2	356.2
173.0	12838	-56.7	-81.7	3	0.00	231	71	357.3	357.3	357.3
160.0	13333	-55.5	-84.5	2	0.00	245	51	367.4	367.4	367.4
150.6	13716	-58.1	-87.1	1	0.00	255	36	369.3	369.3	369.3
150.0	13740	-58.3	-87.3	1	0.00	255	36	369.4	369.4	369.4
143.4	14021	-59.3	-87.9	1	0.00	235	41	372.5	372.5	372.5
132.0	14541	-61.1	-89.1	1	0.00	235	48	378.2	378.2	378.2
130.1	14630	-61.1	-89.1	1	0.00	235	49	379.7	379.7	379.7
129.0	14685	-61.1	-89.1	1	0.00	237	48	380.7	380.7	380.7
125.0	14882	-58.9	-87.9	1	0.00	243	47	388.1	388.1	388.1
122.0	15035	-58.5	-87.5	1	0.00	248	45	391.5	391.5	391.5
118.1	15240	-59.3	-88.3	1	0.00	255	43	393.8	393.8	393.8
112.0	15571	-60.5	-89.5	1	0.00	253	43	397.5	397.5	397.5
110.0	15684	-59.7	-88.7	1	0.00	253	43	401.0	401.1	401.0
105.0	15975	-60.9	-88.9	1	0.00	251	43	404.1	404.1	404.1
103.0	16095	-60.7	-89.7	1	0.00	251	43	406.7	406.7	406.7
102.0	16156	-59.7	-88.7	1	0.00	251	43	409.8	409.8	409.8
100.0	16280	-60.3	-89.3	1	0.00	250	43	410.9	411.0	410.9
88.2	17069	-58.7	-88.7	1	0.00	255	27	429.1	429.1	429.1
84.0	17374	-58.1	-88.5	1	0.00	240	32	436.4	436.4	436.4
80.0	17678	-57.5	-88.3	1	0.00	255	37	443.7	443.7	443.7
77.4	17888	-57.1	-88.1	1	0.00	269	32	448.8	448.8	448.8
76.2	17983	-57.4	-88.2	1	0.00	275	30	450.1	450.1	450.1
72.6	18288	-58.4	-88.7	1	0.00	250	21	454.4	454.4	454.4
70.0	18520	-59.1	-89.1	1	0.00	235	18	457.6	457.6	457.6
68.9	18619	-59.5	-89.5	1	0.00	232	17	458.8	458.8	458.8
65.9	18898	-59.7	-89.5	1	0.00	225	13	464.3	464.3	464.3
62.8	19202	-59.9	-89.4	1	0.00	205	19	470.4	470.4	470.4
59.8	19507	-60.1	-89.4	1	0.00	265	21	476.5	476.5	476.5
57.0	19812	-60.3	-89.3	1	0.00	300	11	482.7	482.8	482.7
56.6	19850	-60.3	-89.3	1	0.00	293	11	483.5	483.5	483.5
54.2	20117	-61.2	-89.8	1	0.00	240	10	487.4	487.4	487.4
50.0	20620	-62.9	-90.9	1	0.00	225	14	494.8	494.9	494.8
49.1	20726	-63.2	-91.2	1	0.00	240	18	496.6	496.6	496.6
48.3	20832	-63.5	-91.5	1	0.00	250	16	498.3	498.3	498.3
44.5	21336	-61.1	-90.0	1	0.00	295	7	515.9	515.9	515.9
43.9	21421	-60.7	-89.7	1	0.00	299	7	519.0	519.0	519.0
40.3	21946	-62.7	-91.7	1	0.00	320	10	526.7	526.7	526.7
40.0	21996	-62.9	-91.9	1	0.00	323	10	527.4	527.4	527.4
36.9	22495	-60.3	-90.3	1	0.00	356	8	546.4	546.4	546.4
33.2	23153	-59.7	-89.7	1	0.00	39	5	564.7	564.8	564.7
30.1	23769	-56.7	-87.7	1	0.01	79	3	588.9	589.0	588.9
30.0	23790	-56.9	-87.9	1	0.01	80	3	588.9	589.0	588.9
29.3	23940	-57.5	-88.5	1	0.01	60	2	591.3	591.3	591.3

27.3	24384	-56.8	-87.8	1	0.01	0	0	605.2	605.3	605.2
25.6	24796	-56.1	-87.1	1	0.01	0	4	618.5	618.6	618.5
22.6	25603	-53.1	-85.2	1	0.01	0	11	649.9	650.0	649.9
20.6	26213	-50.8	-83.7	1	0.02	295	10	674.6	674.8	674.7
20.3	26293	-50.5	-83.5	1	0.02	313	9	678.0	678.1	678.0
20.0	26390	-50.5	-83.5	1	0.02	335	8	680.8	681.0	680.8
17.9	27127	-51.6	-84.0	1	0.02	295	14	699.9	700.1	699.9
17.0	27432	-52.0	-84.3	1	0.02	310	11	707.9	708.1	707.9
16.2	27757	-52.5	-84.5	1	0.02	302	13	716.6	716.8	716.6
15.5	28042	-50.9	-83.7	1	0.02	295	15	730.7	731.0	730.7
14.8	28346	-49.3	-82.9	1	0.03	240	17	746.0	746.3	746.0
13.7	28854	-46.5	-81.5	1	0.04	269	25	772.2	772.6	772.2
13.5	28956	-46.2	-81.3	1	0.04	275	27	776.6	777.1	776.7
12.1	29683	-43.9	-79.9	1	0.06	283	25	809.2	809.9	809.3
11.8	29870	-41.4	-77.4	1	0.09	285	24	824.7	825.7	824.7
11.8	29852	-41.5	-77.5	1	0.08	285	24	823.6	824.6	823.7
11.2	30208	-39.1	-76.1	1	0.11	285	35	844.6	846.0	844.7
10.8	30480	-40.0	-77.0	1	0.10	285	43	850.9	852.1	851.0
10.2	30846	-41.3	-78.3	1	0.09	281	31	859.4	860.5	859.4
10.0	30980	-40.9	-77.9	1	0.09	280	26	865.7	866.9	865.8
9.8	31090	-40.5	-77.7	1	0.10	280	26	871.0	872.3	871.1
9.0	31699	-38.6	-76.4	1	0.13	270	33	900.8	902.5	900.9
8.7	31933	-37.9	-75.9	1	0.15			912.5	914.5	912.6

## Station information and sounding indices

Station identifier: NKX  
 Station number: 72293  
 Observation time: 150411/0000  
 Station latitude: 32.85  
 Station longitude: -117.12  
 Station elevation: 137.0  
 Showalter index: 12.33  
 Lifted index: 4.37  
 LIFT computed using virtual temperature: 4.29  
 SWEAT index: 41.98  
 K index: -40.90  
 Cross totals index: -20.10  
 Vertical totals index: 28.90  
 Totals totals index: 8.80  
 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: 279.46  
 Pres [hPa] of the Lifted Condensation Level: 872.75  
 Mean mixed layer potential temperature: 290.55  
 Mean mixed layer mixing ratio: 6.92  
 1000 hPa to 500 hPa thickness: 5586.00  
 Precipitable water [mm] for entire sounding: 11.79

## 72293 NKX San Diego Observations at 12Z 11 Apr 2015

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PRES	HGHT	TEMP	DWPT	RELH	MIXR	DRCT	SKNT	THTA	THTE	THTV
hPa	m	C	C	%	g/kg	deg	knot	K	K	K

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1000.0	122									
998.0	137	10.8	8.7	87	7.12	65	6	284.1	304.0	285.3
994.0	171	13.0	9.6	80	7.60	55	6	286.6	308.1	288.0
992.0	188	13.6	9.2	75	7.41	50	6	287.4	308.4	288.7
986.0	239	13.4	8.9	74	7.31	35	6	287.7	308.4	289.0
978.3	305	12.8	10.2	84	8.05	15	6	287.7	310.5	289.1
976.0	325	12.6	10.6	88	8.28	16	6	287.7	311.1	289.2
967.0	403	12.2	7.2	71	6.63	20	6	288.1	307.0	289.2
948.0	569	11.2	5.2	67	5.88	28	5	288.7	305.6	289.8
943.4	610	11.2	1.5	51	4.55	30	5	289.1	302.4	289.9
943.0	614	11.2	1.2	50	4.45	29	5	289.2	302.2	289.9
933.0	703	11.6	-1.4	40	3.72	16	6	290.4	301.5	291.1
925.0	775	11.2	0.2	47	4.22	5	6	290.8	303.2	291.5
919.0	829	10.8	2.8	58	5.12	357	6	290.9	305.9	291.8
917.0	847	10.8	1.8	54	4.78	355	6	291.1	305.1	291.9
912.0	893	11.6	-12.4	17	1.63	348	6	292.3	297.4	292.6
909.7	914	11.6	-14.2	15	1.40	345	6	292.6	297.0	292.8
889.0	1106	12.0	-31.0	3	0.33	326	6	294.9	296.0	295.0
877.0	1219	11.8	-33.7	3	0.25	315	6	295.9	296.8	295.9
861.0	1373	11.6	-37.4	2	0.18	321	4	297.2	297.8	297.2
850.0	1480	10.8	-38.2	2	0.17	325	3	297.4	298.1	297.5
815.0	1829	10.0	-30.0	4	0.39	275	9	300.2	301.6	300.3
787.0	2118	8.6	-27.4	6	0.52	266	10	301.7	303.5	301.8
785.5	2134	8.5	-26.5	6	0.56	265	10	301.8	303.7	301.9
766.0	2341	7.0	-15.0	19	1.57	265	10	302.3	307.4	302.6
757.0	2438	6.7	-20.1	13	1.03	265	10	303.0	306.5	303.2
749.0	2525	6.4	-24.6	9	0.70	262	9	303.6	306.0	303.7
729.3	2743	5.3	-14.5	23	1.72	255	5	304.7	310.4	305.0
728.0	2757	5.2	-13.8	24	1.82	252	5	304.8	310.7	305.1
722.0	2825	5.0	-17.0	19	1.41	237	4	305.3	310.0	305.5
704.0	3030	3.4	-14.6	25	1.76	190	2	305.7	311.5	306.1
700.0	3076	3.0	-13.0	30	2.02	180	1	305.8	312.4	306.1
682.0	3286	1.0	-11.0	40	2.43	184	2	305.8	313.7	306.3
667.0	3465	-0.1	-18.1	24	1.39	187	3	306.5	311.2	306.8
652.0	3646	-1.7	-13.7	39	2.05	190	4	306.7	313.4	307.1
651.0	3658	-1.8	-13.7	40	2.05	190	4	306.7	313.4	307.1
626.3	3962	-4.6	-14.1	47	2.06	195	3	307.0	313.8	307.4
602.4	4267	-7.3	-14.5	56	2.07	180	5	307.2	314.0	307.6
581.0	4551	-9.9	-14.9	67	2.08	194	6	307.4	314.3	307.8
556.7	4877	-12.5	-16.9	70	1.84	210	8	308.1	314.2	308.5
534.9	5182	-14.9	-18.8	73	1.63	235	15	308.8	314.2	309.1
530.0	5253	-15.5	-19.2	73	1.59	235	16	308.9	314.2	309.2
520.0	5396	-16.5	-21.5	65	1.33	235	18	309.4	313.9	309.6
500.0	5690	-19.1	-22.9	72	1.22	235	21	309.7	313.9	309.9
495.0	5765	-19.7	-22.7	77	1.25	242	22	309.9	314.1	310.1
493.3	5791	-19.9	-22.7	78	1.26	245	23	310.0	314.3	310.2
473.4	6096	-21.5	-22.7	90	1.31	245	22	311.6	316.0	311.8
467.0	6196	-22.1	-22.7	95	1.33	240	22	312.1	316.6	312.3
459.0	6324	-22.7	-23.8	91	1.23	234	21	312.9	317.1	313.1
455.0	6388	-23.1	-25.7	79	1.04	231	21	313.1	316.8	313.3
454.2	6401	-23.2	-26.0	78	1.02	230	21	313.2	316.8	313.4
448.0	6501	-23.9	-27.9	70	0.87	231	21	313.5	316.6	313.7
433.0	6750	-25.9	-29.3	73	0.79	232	20	314.1	316.8	314.2
428.0	6834	-26.5	-35.5	42	0.44	232	20	314.3	315.9	314.4
426.0	6868	-26.7	-35.7	42	0.43	233	20	314.5	316.1	314.6
419.0	6987	-27.7	-34.7	51	0.48	233	20	314.7	316.5	314.8
415.0	7056	-28.1	-38.1	38	0.35	234	20	315.1	316.4	315.1
410.0	7143	-28.9	-39.9	34	0.29	234	19	315.1	316.2	315.2
400.0	7320	-30.3	-39.3	41	0.32	235	19	315.5	316.7	315.6

394.0	7427	-31.1	-39.1	45	0.33	240	19	315.9	317.1	315.9
389.0	7517	-31.9	-37.9	55	0.38	245	20	315.9	317.4	316.0
383.4	7620	-32.7	-39.7	50	0.32	250	20	316.2	317.4	316.2
377.0	7737	-33.7	-41.7	44	0.26	252	19	316.4	317.4	316.5
356.0	8135	-37.5	-41.7	65	0.28	258	17	316.5	317.6	316.6
351.1	8230	-38.2	-42.9	61	0.25	260	16	316.8	317.8	316.9
330.0	8653	-41.5	-48.5	47	0.14	260	18	318.0	318.6	318.0
306.6	9144	-46.1	-52.3	49	0.10	260	20	318.2	318.6	318.2
301.0	9268	-47.3	-53.3	50	0.09	260	18	318.3	318.6	318.3
300.0	9290	-47.5	-53.5	50	0.09	260	18	318.3	318.6	318.3
292.8	9449	-48.4	-56.5	38	0.06	260	15	319.3	319.6	319.3
290.0	9512	-48.7	-57.7	34	0.05	260	17	319.7	319.9	319.7
277.0	9810	-51.3	-60.3	33	0.04	260	24	320.1	320.3	320.2
260.0	10218	-53.3	-65.3	22	0.02	260	34	323.1	323.2	323.1
254.2	10363	-52.5	-68.0	14	0.02	250	37	326.3	326.4	326.3
250.0	10470	-51.9	-69.9	10	0.01	250	37	328.8	328.8	328.8
234.0	10899	-52.3	-76.3	4	0.01	253	36	334.4	334.5	334.4
206.0	11721	-55.3	-78.3	4	0.00	259	35	342.1	342.2	342.1
202.0	11846	-54.9	-78.9	4	0.00	260	35	344.7	344.7	344.7
200.0	11910	-55.3	-79.3	4	0.00	260	35	345.0	345.1	345.0
190.0	12237	-56.9	-80.9	3	0.00	261	34	347.6	347.6	347.6
187.0	12338	-55.5	-80.5	3	0.00	261	33	351.4	351.4	351.4
176.0	12724	-57.5	-84.5	2	0.00	262	32	354.3	354.3	354.3
174.0	12797	-56.3	-85.3	1	0.00	262	32	357.4	357.4	357.4
167.0	13058	-56.7	-86.7	1	0.00	263	31	360.9	360.9	360.9
165.0	13134	-56.1	-86.1	1	0.00	263	30	363.2	363.2	363.2
150.0	13740	-57.5	-87.5	1	0.00	265	28	370.8	370.8	370.8
148.0	13825	-57.7	-87.7	1	0.00	265	28	371.9	371.9	371.9
137.0	14312	-56.9	-87.9	1	0.00	263	27	381.6	381.6	381.6
122.0	15040	-59.5	-89.5	1	0.00	261	26	389.7	389.7	389.7
118.2	15240	-59.1	-89.1	1	0.00	260	26	394.0	394.0	394.0
114.0	15464	-58.7	-88.7	1	0.00	260	26	398.8	398.8	398.8
111.0	15631	-59.9	-89.9	1	0.00	260	27	399.6	399.6	399.6
110.0	15687	-59.7	-89.7	1	0.00	260	27	401.0	401.0	401.0
100.0	16280	-60.7	-89.7	1	0.00	260	28	410.2	410.2	410.2
92.5	16764	-60.6	-89.8	1	0.00	255	21	419.6	419.6	419.6
88.1	17069	-60.5	-89.9	1	0.00	240	29	425.6	425.6	425.6
83.9	17374	-60.5	-90.0	1	0.00	255	35	431.7	431.7	431.7
79.9	17678	-60.4	-90.1	1	0.00	255	24	437.9	437.9	437.9
76.1	17983	-60.4	-90.2	1	0.00	255	21	444.2	444.2	444.2
72.4	18288	-60.3	-90.3	1	0.00	235	24	450.6	450.6	450.6
71.4	18376	-60.3	-90.3	1	0.00	243	24	452.5	452.5	452.5
70.4	18464	-58.5	-89.5	1	0.00	252	25	458.1	458.1	458.1
70.0	18500	-58.7	-89.7	1	0.00	255	25	458.5	458.5	458.5
69.0	18593	-58.7	-89.7	1	0.00	260	23	460.5	460.5	460.5
64.4	19025	-58.5	-89.5	1	0.00	253	20	469.9	470.0	469.9
56.8	19812	-61.8	-91.9	1	0.00	240	15	479.7	479.7	479.7
56.1	19887	-62.1	-92.1	1	0.00	246	15	480.6	480.7	480.6
54.1	20117	-61.3	-92.1	1	0.00	265	17	487.6	487.7	487.6
53.6	20169	-61.1	-92.1	1	0.00	274	16	489.2	489.3	489.2
51.5	20422	-62.3	-92.7	1	0.00	320	13	492.2	492.3	492.2
50.0	20600	-63.1	-93.1	1	0.00	350	11	494.4	494.4	494.4
49.0	20726	-63.3	-93.0	1	0.00	350	11	496.8	496.8	496.8
46.6	21031	-63.8	-92.9	1	0.00	0	0	502.6	502.6	502.6
46.3	21072	-63.9	-92.9	1	0.00	347	1	503.4	503.4	503.4
44.4	21336	-62.6	-92.3	1	0.00	265	4	512.8	512.8	512.8
41.2	21794	-60.3	-91.3	1	0.00	289	3	529.4	529.5	529.4
36.5	22545	-62.3	-92.3	1	0.00	328	1	542.9	543.0	542.9
34.0	22984	-61.5	-91.5	1	0.00	351	0	556.1	556.2	556.2



33.0	23165	-60.2	-90.7	1	0.00	0	0	564.1	564.1	564.1
31.5	23470	-58.1	-89.4	1	0.00	350	11	577.7	577.8	577.7
30.2	23728	-56.3	-88.3	1	0.01	3	13	589.4	589.5	589.5
30.0	23774	-56.5	-88.5	1	0.01	5	13	590.1	590.1	590.1
30.0	23770	-56.5	-88.5	1	0.01	5	13	590.0	590.1	590.0
28.9	24007	-57.1	-89.1	1	0.00	1	11	594.7	594.8	594.7
28.6	24079	-56.9	-89.0	1	0.01	0	11	597.1	597.2	597.1
27.2	24384	-56.2	-88.5	1	0.01	30	11	607.4	607.5	607.4
23.8	25245	-54.1	-87.1	1	0.01	121	5	637.4	637.4	637.4
21.7	25836	-55.7	-87.7	1	0.01	182	1	649.6	649.7	649.6
21.5	25908	-55.1	-87.3	1	0.01	190	1	653.4	653.5	653.4
20.5	26201	-52.9	-85.9	1	0.01	284	6	668.8	668.9	668.8
20.0	26360	-53.1	-86.1	1	0.01	335	9	672.9	673.0	672.9
18.9	26724	-53.7	-86.7	1	0.01	335	11	682.0	682.1	682.0
18.6	26822	-53.3	-86.3	1	0.01	335	11	686.2	686.4	686.2
17.8	27127	-52.0	-85.0	1	0.02	275	17	699.6	699.8	699.6
17.3	27295	-51.3	-84.3	1	0.02	283	18	707.1	707.3	707.1
16.9	27432	-51.1	-84.2	1	0.02	290	19	712.0	712.2	712.0
15.4	28042	-50.1	-83.5	1	0.02	330	25	734.4	734.7	734.4
14.7	28346	-49.6	-83.2	1	0.03	285	20	745.9	746.2	745.9
13.4	28956	-48.7	-82.5	1	0.03	315	26	769.3	769.7	769.3
12.7	29317	-48.1	-82.1	1	0.04	306	21	783.5	784.0	783.5
12.2	29566	-45.6	-80.9	1	0.05	300	18	800.8	801.4	800.8
12.0	29693	-44.3	-80.3	1	0.05	287	27	809.8	810.4	809.8
11.7	29870	-44.8	-80.5	1	0.05	270	39	814.0	814.6	814.0
11.2	30154	-45.7	-80.7	1	0.05	275	38	820.8	821.5	820.9
10.7	30480	-45.4	-80.4	1	0.06	280	36	833.6	834.4	833.7
10.0	30910	-44.9	-79.9	1	0.07	300	37	850.8	851.7	850.9
9.3	31394	-43.7	-79.4	1	0.08	295	35	873.2	874.2	873.3
9.1	31542	-43.3	-79.3	1	0.08			880.2	881.3	880.2

## Station information and sounding indices

Station identifier: NKX  
 Station number: 72293  
 Observation time: 150411/1200  
 Station latitude: 32.85  
 Station longitude: -117.12  
 Station elevation: 137.0  
 Showalter index: 11.24  
 Lifted index: 5.18  
 LIFT computed using virtual temperature: 5.20  
 SWEAT index: 26.98  
 K index: -24.30  
 Cross totals index: -19.10  
 Vertical totals index: 29.90  
 Totals totals index: 10.80  
 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: 279.42  
 Pres [hPa] of the Lifted Condensation Level: 900.15  
 Mean mixed layer potential temperature: 287.95  
 Mean mixed layer mixing ratio: 6.76  
 1000 hPa to 500 hPa thickness: 5568.00  
 Precipitable water [mm] for entire sounding: 11.81

# 72293 NKX San Diego Observations at 00Z 12 Apr 2015

PRES	HGHT	TEMP	DWPT	RELH	MIXR	DRCT	SKNT	THTA	THTE	THTV
hPa	m	C	C	%	g/kg	deg	knot	K	K	K
1000.0	105									
996.0	137	20.4	11.4	56	8.57	310	11	293.9	318.7	295.4
983.0	250	18.2	10.2	60	8.01	293	11	292.8	315.9	294.2
976.8	305	17.4	9.7	60	7.78	285	11	292.5	315.0	293.9
961.0	444	15.4	8.4	63	7.24	283	9	291.9	312.8	293.1
942.4	610	14.7	4.6	51	5.66	280	6	292.7	309.4	293.7
931.0	713	14.2	2.2	44	4.84	300	5	293.3	307.6	294.1
925.0	768	14.0	2.0	44	4.80	310	4	293.6	307.9	294.5
919.0	823	13.6	2.6	47	5.05	310	6	293.8	308.7	294.6
910.0	906	13.6	0.6	41	4.41	310	8	294.6	307.8	295.4
909.1	914	13.6	1.0	42	4.53	310	8	294.6	308.2	295.4
903.0	971	13.4	3.4	51	5.44	312	8	295.0	311.2	296.0
887.0	1121	12.8	-0.2	41	4.27	317	9	295.9	308.8	296.7
878.0	1206	13.0	-3.0	33	3.51	320	9	297.0	307.7	297.6
876.7	1219	13.1	-5.2	28	2.96	320	9	297.2	306.4	297.7
870.0	1283	13.4	-16.6	11	1.21	315	9	298.2	302.1	298.4
862.0	1361	13.4	-19.6	8	0.94	309	9	299.0	302.1	299.1
850.0	1478	12.6	-19.4	9	0.97	300	9	299.3	302.6	299.5
819.0	1789	11.4	-13.6	16	1.64	163	5	301.3	306.6	301.6
815.0	1829	11.1	-13.9	16	1.61	145	4	301.3	306.5	301.6
812.0	1860	10.8	-14.2	16	1.58	140	4	301.4	306.5	301.6
799.0	1994	9.8	-5.2	34	3.26	118	6	301.7	311.9	302.3
785.6	2134	8.8	-6.2	34	3.07	95	7	302.0	311.7	302.6
761.0	2397	6.8	-8.2	33	2.72	143	4	302.7	311.3	303.2
757.2	2438	6.6	-12.8	24	1.90	150	3	302.9	309.0	303.2
754.0	2473	6.4	-16.6	17	1.39	166	3	303.0	307.6	303.3
742.0	2604	6.0	-24.0	9	0.75	229	4	304.0	306.6	304.1
729.5	2743	5.0	-18.3	17	1.24	295	4	304.4	308.6	304.6
714.0	2918	3.8	-11.2	33	2.29	350	3	304.9	312.3	305.4
700.0	3078	2.4	-11.6	35	2.26	40	3	305.1	312.4	305.5
652.0	3647	-2.1	-15.1	36	1.82	326	7	306.3	312.3	306.6
651.1	3658	-2.2	-15.1	37	1.83	325	7	306.3	312.3	306.6
614.0	4120	-6.3	-15.3	49	1.90	344	6	306.8	313.0	307.1
608.0	4197	-7.1	-16.1	49	1.80	347	6	306.7	312.6	307.0
602.6	4267	-7.5	-21.3	32	1.17	350	6	307.1	311.0	307.3
599.0	4313	-7.7	-24.7	24	0.87	349	6	307.3	310.3	307.5
591.0	4418	-8.5	-19.5	41	1.39	345	6	307.6	312.2	307.8
586.0	4483	-9.1	-20.1	41	1.33	343	6	307.6	312.1	307.9
582.0	4536	-9.3	-17.3	52	1.70	341	6	308.0	313.6	308.3
557.0	4874	-12.3	-18.3	61	1.63	330	7	308.3	313.8	308.6
556.8	4877	-12.3	-18.4	61	1.63	330	7	308.3	313.8	308.6
543.0	5068	-13.7	-21.7	51	1.25	335	7	308.9	313.1	309.1
534.0	5195	-14.7	-20.7	60	1.39	338	6	309.2	313.9	309.4
525.0	5323	-15.5	-24.5	46	1.01	341	6	309.7	313.2	309.9
516.0	5453	-16.3	-22.3	60	1.25	344	6	310.3	314.6	310.5
507.0	5586	-16.9	-21.9	65	1.31	347	5	311.1	315.6	311.4
500.0	5690	-17.3	-24.3	54	1.08	350	5	311.9	315.6	312.1
497.0	5735	-17.5	-25.5	50	0.97	355	5	312.2	315.6	312.4
489.0	5856	-18.3	-25.3	54	1.01	8	5	312.6	316.2	312.8
477.0	6041	-19.1	-30.1	37	0.66	29	6	313.9	316.3	314.0
473.4	6096	-19.6	-30.4	38	0.65	35	6	314.0	316.3	314.1
454.0	6405	-22.1	-32.1	40	0.57	31	9	314.6	316.7	314.7
447.0	6519	-22.7	-34.7	33	0.45	30	10	315.2	316.9	315.3

400.0	7320	-29.5	-43.5	24	0.20	20	19	316.6	317.4	316.6
383.3	7620	-32.0	-47.2	21	0.14	20	19	317.1	317.7	317.1
351.4	8230	-37.2	-54.7	15	0.07	5	23	318.1	318.4	318.1
344.0	8380	-38.5	-56.5	13	0.05	7	25	318.3	318.5	318.3
307.4	9144	-44.1	-62.1	12	0.03	20	37	320.9	321.0	320.9
300.0	9310	-45.3	-63.3	11	0.03	25	36	321.4	321.5	321.4
293.8	9449	-46.4	-64.0	12	0.02	25	36	321.8	321.9	321.8
285.0	9651	-47.9	-64.9	12	0.02	26	38	322.4	322.5	322.4
271.0	9983	-48.5	-68.5	8	0.01	28	42	326.2	326.3	326.2
260.0	10255	-50.5	-65.5	15	0.02	29	45	327.2	327.3	327.2
250.0	10510	-51.5	-67.5	13	0.02	30	48	329.4	329.4	329.4
243.9	10668	-52.2	-68.7	12	0.02	25	54	330.6	330.7	330.6
226.0	11159	-54.5	-72.5	9	0.01	30	40	334.4	334.5	334.4
211.5	11582	-54.5	-77.0	5	0.01	30	20	340.8	340.8	340.8
207.0	11721	-54.5	-78.5	4	0.00	22	20	342.9	342.9	342.9
201.0	11908	-55.5	-80.5	3	0.00	12	19	344.2	344.2	344.2
200.0	11940	-55.3	-80.3	3	0.00	10	19	345.0	345.1	345.0
192.2	12192	-55.3	-82.1	2	0.00	350	12	349.0	349.0	349.0
183.0	12504	-55.3	-84.3	2	0.00	337	14	353.9	353.9	353.9
174.6	12802	-56.8	-86.7	1	0.00	325	15	356.2	356.2	356.2
174.0	12823	-56.9	-86.9	1	0.00	325	15	356.4	356.4	356.4
169.0	13008	-56.3	-87.3	1	0.00	328	15	360.4	360.4	360.4
158.5	13411	-56.8	-87.8	1	0.00	335	16	366.1	366.1	366.1
151.1	13716	-57.2	-88.2	1	0.00	310	11	370.5	370.5	370.5
150.0	13760	-57.3	-88.3	1	0.00	305	11	371.1	371.2	371.1
148.0	13845	-57.7	-88.7	1	0.00	302	11	371.9	371.9	371.9
144.0	14018	-57.5	-88.5	1	0.00	296	11	375.2	375.2	375.2
139.0	14241	-58.9	-89.9	1	0.00	288	11	376.5	376.5	376.5
137.1	14326	-58.9	-89.6	1	0.00	285	11	378.0	378.0	378.0
133.0	14518	-58.9	-88.9	1	0.00	257	12	381.3	381.3	381.3
130.6	14630	-59.1	-89.0	1	0.00	240	12	382.8	382.8	382.8
124.4	14935	-59.8	-89.3	1	0.00	270	20	387.0	387.0	387.0
118.5	15240	-60.4	-89.6	1	0.00	250	26	391.3	391.3	391.3
116.0	15373	-60.7	-89.7	1	0.00	254	28	393.1	393.1	393.1
112.8	15545	-60.5	-90.3	1	0.00	260	30	396.6	396.6	396.6
112.0	15592	-60.5	-90.5	1	0.00	260	30	397.5	397.5	397.5
108.0	15819	-59.1	-90.1	1	0.00	262	28	404.3	404.3	404.3
103.0	16116	-60.5	-90.5	1	0.00	264	26	407.1	407.1	407.1
100.0	16300	-60.5	-90.5	1	0.00	265	25	410.6	410.6	410.6
83.4	17429	-62.1	-91.1	1	0.00	265	13	429.2	429.2	429.2
80.1	17678	-61.4	-90.8	1	0.00	265	10	435.5	435.6	435.5
76.3	17983	-60.5	-90.3	1	0.00	250	12	443.5	443.5	443.5
74.4	18140	-60.1	-90.1	1	0.00	250	13	447.6	447.6	447.6
72.7	18288	-60.5	-90.5	1	0.00	250	14	449.8	449.8	449.8
70.0	18520	-61.1	-91.1	1	0.00	260	18	453.3	453.3	453.3
65.8	18898	-61.5	-91.5	1	0.00	255	10	460.5	460.5	460.5
61.8	19290	-61.9	-91.9	1	0.00	276	12	468.0	468.0	468.0
57.7	19715	-60.3	-91.3	1	0.00	300	14	480.9	480.9	480.9
56.8	19812	-60.5	-91.4	1	0.00	305	15	482.5	482.5	482.5
54.1	20117	-61.3	-91.8	1	0.00	75	1	487.6	487.6	487.6
50.0	20600	-62.5	-92.5	1	0.00	220	9	495.8	495.8	495.8
47.9	20865	-63.3	-93.3	1	0.00	260	10	500.0	500.0	500.0
46.6	21031	-62.9	-93.1	1	0.00	285	11	504.8	504.8	504.8
44.4	21336	-62.2	-92.8	1	0.00	320	8	513.7	513.7	513.7
42.3	21633	-61.5	-92.5	1	0.00	336	9	522.5	522.5	522.5
39.7	22026	-62.3	-92.3	1	0.00	358	10	530.0	530.1	530.0
38.3	22250	-61.1	-91.6	1	0.00	10	11	538.7	538.7	538.7
37.0	22464	-59.9	-90.9	1	0.00	56	15	547.0	547.0	547.0
36.5	22555	-60.2	-91.0	1	0.00	75	16	548.6	548.6	548.6

33.1	23157	-61.9	-91.9	1	0.00	142	9	559.4	559.4	559.4
30.0	23774	-59.3	-90.3	1	0.00	235	1	582.5	582.6	582.5
30.0	23770	-59.3	-90.3	1	0.00	210	2	582.4	582.4	582.4
28.1	24181	-57.9	-89.9	1	0.00	305	4	597.3	597.3	597.3
27.4	24341	-55.3	-87.3	1	0.01	333	6	608.9	608.9	608.9
27.2	24384	-55.3	-87.3	1	0.01	340	6	610.0	610.0	610.0
21.6	25858	-55.9	-87.9	1	0.01	302	10	649.9	650.0	649.9
20.0	26350	-53.9	-86.9	1	0.01	290	11	670.4	670.5	670.4
19.5	26518	-53.4	-86.4	1	0.01	325	15	677.0	677.1	677.0
19.0	26680	-52.9	-85.9	1	0.01	333	14	683.4	683.6	683.5
18.6	26822	-53.0	-86.0	1	0.01	340	13	687.5	687.6	687.5
17.7	27127	-53.2	-86.2	1	0.01	315	15	696.2	696.3	696.2
16.9	27432	-53.4	-86.4	1	0.01	330	23	705.0	705.2	705.0
16.5	27589	-53.5	-86.5	1	0.01	340	18	709.6	709.8	709.6
16.1	27737	-52.8	-85.9	1	0.02	350	14	716.5	716.7	716.5
15.4	28042	-51.3	-84.7	1	0.02	310	16	731.0	731.3	731.1
14.7	28346	-49.8	-83.5	1	0.03	345	17	745.8	746.1	745.8
13.9	28706	-48.1	-82.1	1	0.03	324	16	763.6	764.0	763.6
13.4	28956	-49.2	-83.3	1	0.03	310	16	768.0	768.3	768.0
13.4	28947	-49.3	-83.3	1	0.03	310	16	767.5	767.8	767.5
12.8	29261	-47.4	-82.2	1	0.04	325	24	784.6	785.0	784.6
12.2	29566	-45.5	-81.1	1	0.05	300	27	801.5	802.1	801.5
11.9	29734	-44.5	-80.5	1	0.05	303	30	811.0	811.6	811.0
11.7	29870	-44.5	-80.5	1	0.05	305	32	815.7	816.4	815.7
10.7	30480	-44.5	-80.5	1	0.06	325	25	837.2	837.9	837.2
10.2	30785	-44.3	-80.3	1	0.06	310	17	848.9	849.7	848.9
10.2	30767	-44.5	-80.5	1	0.06	311	17	847.5	848.3	847.5
10.0	30900	-43.1	-79.1	1	0.08	310	17	857.5	858.5	857.6
9.7	31090	-42.9	-78.9	1	0.08	275	21	865.4	866.4	865.4
8.7	31839	-41.9	-77.9	1	0.11	283	25	897.0	898.4	897.0
8.5	32004	-42.3	-78.3	1	0.10	285	26	901.7	903.0	901.7
8.2	32239	-42.9	-78.9	1	0.10	284	31	908.4	909.7	908.4
7.7	32664	-41.1	-78.1	1	0.12	281	41	932.0	933.7	932.1
7.4	32933	-42.1	-78.1	1	0.12	280	47	938.6	940.3	938.7
7.4	32918	-42.0	-78.1	1	0.12	280	47	938.3	940.0	938.3
7.1	33223	-40.6	-77.3	1	0.14	290	39	956.5	958.5	956.6
7.0	33310	-40.1	-77.1	1	0.15	290	39	961.9	964.0	962.0
6.9	33408	-38.7	-75.7	1	0.19			971.7	974.4	971.8

## Station information and sounding indices

Station identifier: NKX  
 Station number: 72293  
 Observation time: 150412/0000  
 Station latitude: 32.85  
 Station longitude: -117.12  
 Station elevation: 137.0  
 Showalter index: 9.91  
 Lifted index: 2.90  
 LIFT computed using virtual temperature: 2.84  
 SWEAT index: 22.98  
 K index: -3.50  
 Cross totals index: -2.10  
 Vertical totals index: 29.90  
 Totals totals index: 27.80  
 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: 279.79  
 Pres [hPa] of the Lifted Condensation Level: 855.39  
 Mean mixed layer potential temperature: 292.57  
 Mean mixed layer mixing ratio: 7.28  
 1000 hPa to 500 hPa thickness: 5585.00  
 Precipitable water [mm] for entire sounding: 14.58

## 72293 NKX San Diego Observations at 12Z 12 Apr 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	108									
997.0	137	10.8	10.0	95	7.79	95	4	284.2	305.9	285.5
993.0	171	13.2	11.2	88	8.48	109	5	286.9	310.8	288.4
987.0	221	13.6	11.2	85	8.53	130	6	287.8	311.9	289.3
977.2	305	13.1	11.9	93	9.05	165	7	288.1	313.7	289.7
971.0	358	12.8	12.4	97	9.40	162	7	288.4	314.9	290.0
962.0	436	12.4	11.5	94	8.93	159	6	288.7	314.0	290.3
954.0	506	12.4	7.4	72	6.81	155	6	289.4	309.0	290.6
949.0	550	12.8	-0.2	41	3.99	153	5	290.3	302.1	291.0
942.2	610	13.0	3.9	54	5.40	150	5	291.1	306.8	292.0
942.0	612	13.0	4.0	54	5.44	149	5	291.1	306.9	292.0
936.0	665	13.4	3.4	51	5.25	111	5	292.0	307.4	292.9
926.0	755	13.6	4.6	54	5.77	46	4	293.1	310.1	294.1
925.0	764	13.6	4.6	54	5.78	40	4	293.2	310.2	294.2
920.0	810	13.6	0.6	41	4.36	19	5	293.7	306.7	294.4
910.0	902	13.4	-0.6	38	4.04	336	6	294.4	306.5	295.1
908.7	914	13.4	0.4	41	4.35	330	6	294.5	307.6	295.3
903.0	967	13.6	4.6	54	5.92	334	6	295.2	312.8	296.3
895.0	1042	13.2	6.2	63	6.68	340	6	295.6	315.3	296.8
880.0	1184	13.2	2.2	47	5.12	352	7	297.0	312.4	297.9
876.3	1219	12.9	3.0	51	5.46	355	7	297.1	313.4	298.1
867.0	1309	12.2	5.2	62	6.43	348	8	297.2	316.4	298.4
861.0	1367	12.8	-5.2	28	3.03	343	9	298.4	307.9	299.0
850.0	1475	13.2	-9.8	19	2.15	335	10	300.0	306.8	300.4
847.0	1505	13.4	-15.6	12	1.35	336	10	300.5	304.9	300.7
826.0	1715	12.6	-16.4	12	1.29	342	9	301.8	306.1	302.0
814.8	1829	11.8	-13.3	16	1.70	345	9	302.1	307.7	302.4
795.0	2034	10.4	-7.6	27	2.73	22	8	302.8	311.4	303.3
788.0	2108	10.0	-4.0	37	3.63	35	8	303.1	314.4	303.8
785.5	2134	9.8	-4.2	37	3.60	40	8	303.2	314.4	303.8
757.0	2438	7.6	-5.9	38	3.26	85	11	304.0	314.3	304.6
729.5	2743	5.4	-7.7	38	2.95	50	6	304.8	314.2	305.3
725.0	2794	5.0	-8.0	38	2.90	48	6	304.9	314.2	305.4
700.0	3079	3.2	-12.8	30	2.05	35	8	306.0	312.7	306.4
683.0	3278	2.0	-16.0	25	1.62	33	8	306.8	312.2	307.1
651.2	3658	-1.1	-16.6	30	1.61	30	9	307.5	312.9	307.8
620.0	4050	-4.3	-17.3	36	1.60	40	15	308.2	313.5	308.5
606.0	4229	-5.3	-23.3	23	0.97	44	17	309.1	312.4	309.2
603.1	4267	-5.6	-23.4	23	0.97	45	18	309.1	312.5	309.3
575.0	4639	-8.9	-23.9	29	0.97	27	20	309.5	312.9	309.7
572.0	4680	-9.1	-24.1	29	0.96	25	20	309.7	313.1	309.9
563.0	4802	-9.1	-34.1	11	0.38	19	21	311.1	312.6	311.2
557.6	4877	-9.6	-36.2	9	0.31	15	21	311.4	312.6	311.5
530.0	5267	-12.1	-47.1	4	0.10	13	25	313.0	313.4	313.0

503.0	5665	-14.9	-42.9	7	0.17	10	29	314.3	314.9	314.3
500.0	5710	-15.1	-33.1	20	0.47	10	29	314.6	316.3	314.7
498.0	5740	-15.3	-28.3	32	0.75	10	29	314.7	317.4	314.8
491.0	5847	-16.3	-25.3	46	1.00	12	28	314.7	318.3	314.9
474.9	6096	-17.8	-26.0	48	0.97	15	27	315.9	319.4	316.1
469.0	6189	-18.3	-26.3	49	0.96	14	27	316.4	319.8	316.6
455.0	6413	-20.3	-27.3	54	0.90	11	28	316.6	319.9	316.8
447.0	6544	-21.5	-26.2	66	1.01	10	28	316.7	320.3	316.9
436.0	6727	-22.9	-27.9	64	0.89	8	28	317.2	320.4	317.4
418.0	7033	-25.5	-29.7	68	0.78	4	29	317.7	320.6	317.9
412.0	7137	-25.9	-32.9	52	0.59	3	29	318.5	320.7	318.6
408.0	7208	-26.5	-37.5	35	0.37	2	30	318.7	320.1	318.7
402.0	7314	-26.9	-40.9	25	0.27	0	30	319.5	320.5	319.5
400.0	7350	-27.1	-41.1	25	0.26	0	30	319.7	320.7	319.7
397.0	7404	-27.7	-40.7	28	0.28	0	31	319.6	320.7	319.6
391.0	7514	-28.5	-35.5	51	0.48	0	32	319.9	321.7	320.0
386.0	7607	-29.5	-35.5	56	0.48	0	33	319.8	321.6	319.9
385.3	7620	-29.6	-36.3	52	0.45	0	33	319.9	321.6	320.0
382.0	7681	-29.9	-39.9	37	0.31	359	33	320.2	321.4	320.3
376.0	7794	-30.9	-36.9	56	0.43	358	33	320.4	322.0	320.4
368.0	7947	-32.1	-39.1	50	0.35	356	33	320.7	322.1	320.8
321.0	8900	-40.3	-47.3	47	0.17	343	32	322.2	322.8	322.2
315.0	9029	-40.9	-49.9	37	0.13	342	32	323.1	323.6	323.1
309.7	9144	-42.0	-51.0	37	0.11	340	32	323.2	323.6	323.2
305.0	9248	-42.9	-51.9	37	0.10	338	30	323.2	323.7	323.3
300.0	9360	-43.5	-53.5	32	0.09	335	28	323.9	324.3	323.9
277.0	9890	-46.3	-68.3	6	0.01	331	31	327.4	327.4	327.4
260.0	10306	-49.9	-69.9	8	0.01	327	34	328.1	328.1	328.1
250.0	10560	-51.1	-71.1	7	0.01	325	35	330.0	330.0	330.0
222.0	11327	-55.9	-70.9	14	0.01	321	40	334.0	334.0	334.0
213.3	11582	-56.6	-72.5	12	0.01	320	42	336.7	336.8	336.7
203.0	11895	-57.5	-74.5	10	0.01	324	33	340.1	340.1	340.1
200.0	11990	-56.5	-73.5	10	0.01	325	30	343.1	343.2	343.1
195.0	12150	-56.9	-75.9	7	0.01	317	28	345.0	345.0	345.0
193.7	12192	-57.1	-76.2	7	0.01	315	28	345.2	345.3	345.2
179.0	12686	-60.1	-79.1	7	0.00	320	30	348.3	348.3	348.3
175.7	12802	-59.3	-80.3	5	0.00	295	34	351.5	351.5	351.5
171.0	12971	-58.1	-82.1	3	0.00	303	35	356.2	356.2	356.2
167.4	13106	-58.2	-83.5	3	0.00	310	36	358.3	358.3	358.3
160.0	13388	-58.3	-86.3	2	0.00	319	20	362.7	362.7	362.7
159.4	13411	-58.4	-86.4	2	0.00	320	19	362.8	362.9	362.8
154.0	13626	-59.7	-87.7	1	0.00	309	21	364.3	364.3	364.3
151.8	13716	-59.9	-87.9	1	0.00	305	22	365.4	365.4	365.4
150.0	13790	-60.1	-88.1	1	0.00	310	27	366.3	366.4	366.3
144.6	14021	-60.5	-88.5	1	0.00	315	31	369.5	369.5	369.5
142.0	14132	-60.7	-88.7	1	0.00	313	28	371.1	371.1	371.1
137.6	14326	-61.7	-89.1	2	0.00	310	24	372.6	372.7	372.6
135.0	14446	-62.3	-89.3	2	0.00	314	22	373.6	373.6	373.6
126.0	14874	-62.3	-90.3	1	0.00	328	16	381.1	381.1	381.1
124.8	14935	-62.5	-90.3	1	0.00	330	15	381.9	381.9	381.9
118.7	15240	-63.2	-90.1	2	0.00	300	13	385.9	385.9	385.9
114.0	15491	-63.9	-89.9	2	0.00	289	14	389.1	389.2	389.1
111.0	15655	-62.3	-89.3	2	0.00	282	15	395.1	395.1	395.1
108.0	15824	-63.3	-89.3	2	0.00	275	15	396.4	396.4	396.4
105.0	15998	-62.1	-89.1	2	0.00	268	16	401.8	401.8	401.8
100.0	16300	-63.1	-90.1	2	0.00	255	17	405.5	405.6	405.5
93.0	16744	-64.3	-91.3	1	0.00	261	23	411.7	411.7	411.7
89.3	16993	-61.7	-88.7	2	0.00	264	27	421.7	421.7	421.7
88.2	17069	-61.7	-89.0	2	0.00	265	28	423.1	423.1	423.1

84.1	17363	-61.9	-89.9	1	0.00	265	24	428.6	428.6	428.6
79.9	17678	-60.0	-88.9	1	0.00	265	19	438.8	438.8	438.8
79.8	17688	-59.9	-88.9	1	0.00	265	19	439.1	439.1	439.1
72.4	18288	-61.1	-90.8	1	0.00	235	8	449.0	449.0	449.0
70.0	18500	-61.5	-91.5	1	0.00	270	10	452.5	452.5	452.5
65.4	18920	-62.9	-91.9	1	0.00	276	14	458.3	458.3	458.3
62.5	19202	-62.4	-91.7	1	0.00	280	16	465.4	465.4	465.4
59.5	19507	-61.9	-91.5	1	0.00	300	10	473.1	473.2	473.1
56.6	19812	-61.4	-91.2	1	0.00	250	14	481.1	481.1	481.1
55.2	19969	-61.1	-91.1	1	0.00	263	13	485.2	485.2	485.2
53.9	20117	-61.6	-91.6	1	0.00	275	13	487.3	487.3	487.3
50.0	20580	-63.3	-93.3	1	0.00	10	7	493.9	493.9	493.9
46.9	20973	-64.1	-93.1	1	0.00	5	3	501.1	501.1	501.1
44.2	21336	-62.9	-92.8	1	0.00	0	0	512.4	512.4	512.4
40.7	21848	-61.3	-92.3	1	0.00	22	4	528.8	528.8	528.8
37.5	22356	-62.1	-92.1	1	0.00	44	9	539.3	539.3	539.3
34.6	22860	-59.4	-90.2	1	0.00	65	13	559.0	559.0	559.0
34.1	22948	-58.9	-89.9	1	0.00	64	15	562.5	562.5	562.5
32.9	23165	-59.9	-90.9	1	0.00	60	21	565.4	565.5	565.4
32.5	23249	-60.3	-91.3	1	0.00	58	20	566.6	566.6	566.6
30.0	23750	-59.3	-90.3	1	0.00	45	14	582.4	582.4	582.4
29.9	23774	-59.3	-90.3	1	0.00	45	14	583.1	583.1	583.1
28.5	24079	-59.0	-90.0	1	0.00	75	14	591.9	591.9	591.9
27.1	24384	-58.8	-89.8	1	0.00	60	9	600.8	600.9	600.8
26.4	24551	-58.7	-89.7	1	0.00	56	10	605.8	605.8	605.8
24.6	24994	-59.8	-90.8	1	0.00	45	13	614.9	614.9	614.9
24.5	25018	-59.9	-90.9	1	0.00	45	13	615.4	615.4	615.4
23.5	25279	-58.1	-90.1	1	0.01	50	13	628.0	628.0	628.0
23.4	25298	-58.1	-90.1	1	0.01	50	13	628.5	628.6	628.6
21.4	25869	-57.7	-89.7	1	0.01	83	11	646.2	646.3	646.2
21.3	25908	-57.1	-89.3	1	0.01	85	11	649.0	649.1	649.0
20.7	26080	-54.7	-87.7	1	0.01	85	7	661.5	661.5	661.5
20.0	26300	-54.3	-87.3	1	0.01	85	3	669.2	669.3	669.2
19.4	26495	-53.5	-86.5	1	0.01	102	3	677.5	677.7	677.5
17.5	27155	-54.5	-87.5	1	0.01	161	1	694.6	694.7	694.6
16.8	27432	-54.0	-87.0	1	0.01	185	1	704.7	704.9	704.7
14.5	28346	-52.4	-85.4	1	0.02	295	18	739.3	739.5	739.3
14.1	28544	-52.1	-85.1	1	0.02	302	21	746.9	747.2	747.0
13.2	28973	-49.3	-83.3	1	0.03	315	28	770.8	771.1	770.8
13.2	28956	-49.4	-83.4	1	0.03	315	28	769.9	770.2	769.9
11.8	29703	-51.1	-85.1	1	0.02	309	34	789.5	789.8	789.5
11.3	29986	-48.5	-82.5	1	0.04	307	36	808.7	809.1	808.7
11.0	30175	-48.3	-82.5	1	0.04	305	38	816.0	816.5	816.0
10.5	30480	-48.0	-82.6	1	0.04	325	34	828.0	828.5	828.0
10.0	30790	-47.7	-82.7	1	0.04	340	25	840.4	840.9	840.4
10.0	30785	-47.7	-82.7	1	0.04	335	31	840.2	840.7	840.2
9.8	30924	-45.9	-80.9	1	0.06	336	25	852.0	852.8	852.0
9.4	31201	-45.7	-80.7	1	0.06	329	25	863.0	863.8	863.0
9.1	31418	-43.3	-79.3	1	0.08	323	25	880.2	881.3	880.2
8.0	32309	-41.6	-77.6	1	0.12	300	24	920.7	922.3	920.7
7.9	32374	-41.5	-77.5	1	0.13			923.7	925.4	923.7

## Station information and sounding indices

Station identifier: NKX  
 Station number: 72293  
 Observation time: 150412/1200  
 Station latitude: 32.85  
 Station longitude: -117.12

Station elevation: 137.0  
 Showalter index: 9.30  
 Lifted index: 7.22  
 LIFT computed using virtual temperature: 7.10  
 SWEAT index: 49.01  
 K index: 2.50  
 Cross totals index: 5.30  
 Vertical totals index: 28.30  
 Totals totals index: 33.60  
 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: 281.35  
 Pres [hPa] of the Lifted Condensation Level: 914.25  
 Mean mixed layer potential temperature: 288.67  
 Mean mixed layer mixing ratio: 7.74  
 1000 hPa to 500 hPa thickness: 5602.00  
 Precipitable water [mm] for entire sounding: 16.28

## 72293 NKX San Diego Observations at 00Z 13 Apr 2015

PRES	HGHT	TEMP	DWPT	RELH	MIXR	DRCT	SKNT	THTA	THTE	THTV
hPa	m	C	C	%	g/kg	deg	knot	K	K	K
1000.0	114									
997.0	137	21.6	11.6	53	8.67	240	8	295.0	320.3	296.5
990.0	198	20.2	11.2	56	8.50	242	7	294.2	318.9	295.7
977.8	305	18.5	10.0	58	7.96	245	6	293.5	316.6	294.9
967.0	401	17.0	9.0	59	7.50	239	4	292.9	314.7	294.3
943.6	610	15.1	9.0	67	7.69	225	1	293.0	315.3	294.4
943.0	615	15.0	9.0	67	7.69	222	1	293.0	315.3	294.4
933.0	706	15.0	9.0	67	7.78	174	2	293.9	316.5	295.3
925.0	779	15.8	6.8	55	6.74	135	2	295.5	315.3	296.7
910.4	914	16.6	1.9	37	4.84	285	1	297.6	312.2	298.4
902.0	993	17.0	-1.0	29	3.96	272	2	298.8	311.0	299.5
887.0	1136	18.6	-2.4	24	3.63	249	5	301.9	313.2	302.6
878.5	1219	18.3	-3.9	22	3.28	235	6	302.4	312.7	303.0
872.0	1282	18.0	-5.0	20	3.04	234	5	302.8	312.4	303.3
850.0	1500	16.4	-3.6	25	3.46	230	2	303.3	314.2	303.9
817.2	1829	13.7	-4.2	29	3.45	135	5	303.8	314.7	304.5
788.0	2134	11.1	-4.7	33	3.44	85	7	304.3	315.2	304.9
759.9	2438	8.6	-5.2	37	3.43	85	9	304.8	315.6	305.4
749.0	2559	7.6	-5.4	39	3.43	71	11	304.9	315.8	305.6
732.4	2743	5.8	-4.2	49	3.84	50	13	304.9	317.0	305.6
727.0	2804	5.2	-3.8	52	3.99	49	12	304.9	317.4	305.6
700.0	3112	4.0	-15.0	24	1.71	45	6	306.9	312.6	307.2
689.0	3241	3.6	-21.4	14	1.01	45	6	307.8	311.3	308.0
673.0	3431	3.0	-21.0	15	1.07	45	7	309.2	312.9	309.4
654.3	3658	1.4	-21.5	16	1.06	45	7	309.9	313.6	310.1
641.0	3823	0.2	-21.8	17	1.05	59	9	310.4	314.0	310.6
631.0	3948	-0.3	-41.3	3	0.16	69	11	311.2	311.8	311.2
629.9	3962	-0.4	-41.4	3	0.16	70	11	311.2	311.8	311.2
615.0	4153	-2.3	-42.3	3	0.15	73	15	311.2	311.8	311.2
606.2	4267	-2.7	-41.6	3	0.16	75	18	312.0	312.6	312.0
599.0	4362	-3.1	-41.1	3	0.18	70	19	312.6	313.3	312.7



583.1	4572	-5.0	-39.6	5	0.21	60	21	312.8	313.6	312.8
560.8	4877	-7.8	-37.4	7	0.28	65	18	313.0	314.0	313.1
554.0	4973	-8.7	-36.7	8	0.30	60	18	313.1	314.2	313.1
521.0	5446	-11.1	-39.1	8	0.25	37	16	315.7	316.7	315.8
518.3	5486	-11.4	-39.7	8	0.24	35	16	315.8	316.7	315.9
500.0	5760	-13.5	-43.5	6	0.16	30	15	316.5	317.2	316.6
489.0	5929	-14.7	-41.7	8	0.20	32	16	317.1	317.9	317.1
478.0	6096	-16.2	-42.5	8	0.19	35	16	317.3	318.1	317.3
458.7	6401	-18.9	-43.8	9	0.17	35	17	317.7	318.4	317.8
440.1	6706	-21.5	-45.2	10	0.15	10	14	318.1	318.7	318.1
404.0	7338	-27.1	-48.1	12	0.12	357	10	318.8	319.3	318.8
400.0	7410	-27.7	-47.7	13	0.13	355	10	318.9	319.4	318.9
388.2	7620	-29.4	-49.3	13	0.11	355	8	319.4	319.8	319.4
371.8	7925	-31.9	-51.5	13	0.09	330	10	320.0	320.4	320.1
356.0	8230	-34.4	-53.8	12	0.07	330	8	320.7	321.0	320.7
334.0	8678	-38.1	-57.1	12	0.05	328	10	321.5	321.8	321.6
312.0	9144	-41.0	-56.8	17	0.06	325	13	323.8	324.0	323.8
307.0	9254	-41.7	-56.7	18	0.06	315	14	324.3	324.6	324.3
300.0	9410	-43.1	-57.1	20	0.06	300	16	324.5	324.7	324.5
298.2	9449	-43.5	-57.2	20	0.06	300	16	324.5	324.8	324.5
285.0	9752	-46.3	-58.3	24	0.05	290	19	324.7	324.9	324.7
284.9	9754	-46.3	-58.4	24	0.05	290	19	324.7	324.9	324.7
281.0	9846	-46.9	-62.9	14	0.03	291	20	325.2	325.3	325.2
275.0	9988	-47.9	-59.9	24	0.04	291	21	325.7	325.9	325.7
259.0	10380	-50.9	-64.9	17	0.02	294	23	326.9	327.1	326.9
256.0	10456	-50.7	-67.7	12	0.02	294	24	328.3	328.4	328.3
250.0	10610	-51.7	-69.7	10	0.01	295	25	329.1	329.1	329.1
238.0	10928	-53.3	-72.3	8	0.01	304	29	331.3	331.4	331.3
236.3	10973	-53.6	-72.3	8	0.01	305	30	331.5	331.5	331.5
216.0	11547	-57.9	-72.9	13	0.01	297	29	333.5	333.6	333.5
200.0	12030	-59.7	-74.7	12	0.01	290	29	338.1	338.1	338.1
194.9	12192	-60.2	-75.2	12	0.01	285	35	339.8	339.8	339.8
192.0	12285	-60.5	-75.5	12	0.01	285	35	340.8	340.8	340.8
188.0	12417	-59.3	-75.3	11	0.01	290	33	344.7	344.8	344.7
181.0	12655	-59.3	-78.3	7	0.00	299	29	348.5	348.5	348.5
176.8	12802	-60.1	-79.8	6	0.00	305	27	349.5	349.5	349.5
175.0	12866	-60.5	-80.5	6	0.00	304	26	349.9	349.9	349.9
161.0	13388	-59.5	-84.5	3	0.00	299	19	360.0	360.0	360.0
156.0	13585	-60.5	-86.5	2	0.00	296	16	361.6	361.6	361.6
152.8	13716	-60.0	-86.8	2	0.00	295	14	364.6	364.6	364.6
152.0	13747	-59.9	-86.9	2	0.00	291	15	365.3	365.3	365.3
150.0	13830	-60.5	-87.5	2	0.00	280	17	365.6	365.7	365.6
139.0	14302	-62.1	-90.1	1	0.00	278	18	370.9	370.9	370.9
132.0	14621	-61.7	-89.7	1	0.00	277	19	377.1	377.1	377.1
130.0	14715	-62.5	-90.5	1	0.00	277	19	377.3	377.3	377.3
126.0	14908	-62.5	-90.5	1	0.00	276	19	380.7	380.7	380.7
119.3	15240	-63.8	-91.2	1	0.00	275	20	384.3	384.3	384.3
115.0	15467	-64.7	-91.7	1	0.00	280	19	386.7	386.7	386.7
106.0	15965	-64.1	-91.1	1	0.00	292	18	396.9	396.9	396.9
103.0	16140	-64.9	-91.9	1	0.00	296	18	398.7	398.7	398.7
100.0	16320	-64.7	-90.7	2	0.00	300	17	402.4	402.5	402.4
97.8	16459	-64.5	-90.7	2	0.00	295	13	405.6	405.6	405.6
80.5	17649	-62.3	-90.3	1	0.00	232	12	433.1	433.1	433.1
80.1	17678	-62.5	-90.5	1	0.00	230	12	433.3	433.3	433.3
78.1	17835	-63.5	-91.5	1	0.00	238	12	434.4	434.4	434.4
72.6	18288	-61.8	-90.4	1	0.00	260	11	447.3	447.3	447.3
70.0	18510	-60.9	-89.9	1	0.00	255	11	453.8	453.8	453.8
65.8	18898	-60.2	-90.1	1	0.00	250	15	463.3	463.3	463.3
64.8	18990	-60.1	-90.1	1	0.00	249	15	465.6	465.6	465.6

61.0	19366	-61.7	-91.7	1	0.00	243	13	470.2	470.2	470.2
57.1	19777	-59.9	-90.9	1	0.00	237	10	483.2	483.2	483.2
50.0	20600	-62.7	-91.7	1	0.00	225	6	495.3	495.3	495.3
47.2	20954	-64.1	-93.1	1	0.00	148	6	500.2	500.2	500.2
44.3	21336	-64.1	-93.1	1	0.00	65	6	509.2	509.2	509.2
42.5	21596	-64.1	-93.1	1	0.00			515.4	515.4	515.4
40.3	21923	-61.5	-91.5	1	0.00			529.8	529.8	529.8
34.7	22854	-59.7	-90.7	1	0.00			557.6	557.7	557.6

## Station information and sounding indices

Station identifier: NKX  
 Station number: 72293  
 Observation time: 150413/0000  
 Station latitude: 32.85  
 Station longitude: -117.12  
 Station elevation: 137.0  
 Showalter index: 6.29  
 Lifted index: 5.07  
 LIFT computed using virtual temperature: 4.82  
 SWEAT index: 19.00  
 K index: 7.30  
 Cross totals index: 9.90  
 Vertical totals index: 29.90  
 Totals totals index: 39.80  
 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: 281.14  
 Pres [hPa] of the Lifted Condensation Level: 861.03  
 Mean mixed layer potential temperature: 293.43  
 Mean mixed layer mixing ratio: 7.89  
 1000 hPa to 500 hPa thickness: 5646.00  
 Precipitable water [mm] for entire sounding: 15.25

## 72293 NKX San Diego Observations at 12Z 13 Apr 2015

PRES	HGHT	TEMP	DWPT	RELH	MIXR	DRCT	SKNT	THTA	THTE	THTV
hPa	m	C	C	%	g/kg	deg	knot	K	K	K
1001.0	137	15.0	13.7	92	9.93	220	2	288.1	316.0	289.8
1000.0	147	14.8	13.5	92	9.81	220	2	287.9	315.5	289.6
981.5	305	13.6	12.8	95	9.56	85	2	288.2	315.2	289.9
959.0	501	12.0	12.0	100	9.26	130	3	288.6	314.7	290.2
948.0	598	13.8	11.1	84	8.82	152	3	291.4	316.6	292.9
946.6	610	13.9	11.0	83	8.78	155	3	291.6	316.7	293.1
930.0	760	14.8	9.8	72	8.24	147	3	294.0	317.9	295.4
925.0	806	15.6	7.6	59	7.13	145	3	295.2	316.2	296.5
923.0	824	15.8	7.8	59	7.24	165	3	295.6	316.9	296.9
919.0	861	15.6	9.6	67	8.23	206	4	295.8	319.9	297.3
913.3	914	15.5	8.0	61	7.39	265	4	296.2	318.0	297.5
908.0	963	15.4	6.4	55	6.68	270	4	296.6	316.4	297.8
904.0	1001	15.6	4.6	48	5.91	274	5	297.2	314.9	298.3
900.0	1038	16.0	7.0	55	7.03	277	5	298.0	318.9	299.2
895.0	1086	16.4	1.4	36	4.75	282	5	298.9	313.3	299.7

888.0	1152	17.0	1.0	34	4.65	288	6	300.2	314.4	301.0
881.1	1219	16.9	-1.3	29	3.95	295	6	300.8	313.0	301.5
864.0	1385	16.8	-7.2	19	2.59	290	7	302.3	310.6	302.8
850.0	1524	16.0	-7.0	20	2.67	285	7	302.9	311.4	303.4
848.0	1544	15.8	-7.2	20	2.64	281	7	302.9	311.3	303.4
819.9	1829	13.6	-1.0	37	4.35	230	5	303.4	317.0	304.2
818.0	1848	13.4	-0.6	38	4.50	224	5	303.5	317.4	304.3
790.5	2134	11.2	-4.0	34	3.63	135	2	304.1	315.5	304.8
771.0	2342	9.6	-6.4	32	3.09	101	5	304.6	314.4	305.1
762.1	2438	9.1	-10.7	24	2.23	85	7	305.0	312.3	305.4
757.0	2494	8.8	-13.2	20	1.84	94	8	305.3	311.3	305.6
741.0	2670	7.8	-16.2	16	1.46	123	11	306.1	311.0	306.3
734.5	2743	7.2	-14.9	19	1.65	135	12	306.2	311.6	306.5
724.0	2861	6.2	-12.8	24	1.98	135	14	306.4	312.9	306.7
707.6	3048	5.1	-19.3	15	1.18	135	18	307.2	311.2	307.4
700.0	3136	4.6	-22.4	12	0.91	125	17	307.6	310.7	307.7
695.0	3194	4.4	-28.6	7	0.52	124	16	308.0	309.8	308.1
681.5	3353	3.1	-31.3	6	0.41	120	13	308.2	309.7	308.3
675.0	3431	2.4	-32.6	5	0.37	124	12	308.3	309.6	308.4
656.3	3658	1.6	-36.1	4	0.27	135	10	309.9	310.9	310.0
655.0	3674	1.6	-36.4	4	0.26	135	10	310.1	311.0	310.1
608.0	4267	-2.8	-34.5	7	0.34	130	9	311.6	312.9	311.7
589.0	4520	-4.7	-33.7	8	0.38	126	10	312.3	313.7	312.4
585.1	4572	-4.9	-33.7	8	0.38	125	10	312.6	314.0	312.7
562.8	4877	-6.4	-33.5	10	0.40	125	10	314.4	315.9	314.5
561.0	4903	-6.5	-33.5	10	0.41	126	10	314.5	316.0	314.6
500.0	5790	-14.3	-37.3	12	0.31	165	3	315.5	316.7	315.6
480.0	6096	-17.1	-37.9	15	0.30	210	3	315.8	317.0	315.9
463.0	6366	-19.5	-38.5	17	0.30	230	7	316.1	317.2	316.1
442.1	6706	-22.5	-43.5	13	0.19	255	11	316.5	317.2	316.5
442.0	6708	-22.5	-43.5	13	0.18	255	11	316.5	317.2	316.5
429.0	6925	-24.3	-41.3	19	0.24	248	12	316.9	317.9	317.0
406.4	7315	-27.5	-45.3	17	0.16	235	13	317.7	318.3	317.7
400.0	7430	-28.5	-46.5	16	0.15	245	12	317.9	318.4	317.9
389.5	7620	-29.9	-52.1	10	0.08	240	16	318.5	318.8	318.5
385.0	7702	-30.5	-54.5	8	0.06	241	16	318.7	319.0	318.7
373.1	7925	-32.6	-50.2	16	0.10	245	16	318.9	319.3	318.9
370.0	7983	-33.1	-49.1	19	0.12	249	16	318.9	319.4	318.9
362.0	8136	-33.9	-49.9	18	0.11	259	15	319.8	320.3	319.9
357.1	8230	-34.8	-49.2	22	0.12	265	15	319.9	320.4	319.9
341.9	8534	-37.5	-46.8	37	0.17	260	17	320.2	320.8	320.2
341.0	8551	-37.7	-46.7	38	0.17	260	17	320.2	320.9	320.2
323.0	8922	-41.1	-49.1	42	0.14	266	21	320.5	321.0	320.5
315.0	9092	-42.1	-52.1	33	0.10	269	22	321.4	321.8	321.4
312.6	9144	-42.6	-52.3	34	0.10	270	23	321.3	321.7	321.4
308.0	9244	-43.7	-52.7	36	0.09	272	22	321.2	321.6	321.2
301.0	9398	-44.5	-58.5	19	0.05	275	20	322.2	322.4	322.2
300.0	9420	-44.7	-58.7	19	0.05	275	20	322.2	322.4	322.2
260.1	10363	-51.5	-62.6	25	0.03	285	28	325.7	325.8	325.7
259.0	10391	-51.7	-62.7	26	0.03	284	28	325.8	325.9	325.8
250.0	10620	-52.9	-64.9	22	0.02	280	29	327.3	327.4	327.3
239.0	10908	-54.1	-70.1	12	0.01	279	30	329.7	329.8	329.7
214.7	11582	-57.6	-72.4	14	0.01	275	34	334.6	334.6	334.6
200.0	12030	-59.9	-73.9	14	0.01	275	31	337.8	337.8	337.8
198.0	12093	-60.5	-74.5	14	0.01	277	30	337.8	337.8	337.8
188.0	12416	-61.3	-74.3	16	0.01	285	26	341.5	341.6	341.5
185.6	12497	-60.8	-74.7	14	0.01	285	26	343.6	343.7	343.6
178.0	12757	-59.1	-76.1	9	0.01	264	26	350.5	350.5	350.5
176.7	12802	-59.3	-77.1	8	0.01	260	26	350.9	351.0	350.9

175.0	12864	-59.5	-78.5	7	0.00	262	25	351.5	351.6	351.5
167.0	13158	-58.7	-81.7	4	0.00	272	23	357.6	357.6	357.6
160.4	13411	-59.7	-83.9	3	0.00	280	21	360.1	360.1	360.1
151.0	13789	-61.1	-87.1	2	0.00	262	17	363.9	363.9	363.9
150.0	13830	-61.1	-87.1	2	0.00	260	16	364.6	364.6	364.6
145.4	14021	-61.4	-87.4	2	0.00	260	19	367.3	367.3	367.3
144.0	14083	-61.5	-87.5	2	0.00	264	18	368.2	368.2	368.2
142.0	14169	-60.7	-87.7	2	0.00	270	17	371.1	371.1	371.1
138.4	14326	-61.3	-87.9	2	0.00	280	14	372.7	372.7	372.7
133.0	14574	-62.3	-88.3	2	0.00	280	15	375.2	375.2	375.2
131.8	14630	-62.3	-88.3	2	0.00	280	15	376.2	376.2	376.2
125.4	14935	-62.3	-88.3	2	0.00	250	15	381.6	381.6	381.6
125.0	14957	-62.3	-88.3	2	0.00	252	16	381.9	381.9	381.9
121.0	15156	-63.7	-89.7	2	0.00	268	25	382.9	383.0	382.9
119.3	15240	-63.9	-89.9	2	0.00	275	29	384.1	384.1	384.1
113.0	15574	-64.7	-90.7	2	0.00	270	23	388.6	388.6	388.6
103.0	16140	-63.9	-89.9	2	0.00	263	12	400.6	400.6	400.6
100.0	16320	-64.7	-90.7	2	0.00	260	9	402.4	402.5	402.4
80.6	17645	-63.3	-90.3	1	0.00	246	10	430.9	430.9	430.9
75.0	18092	-61.3	-89.3	1	0.00	242	11	444.1	444.1	444.1
72.7	18288	-61.8	-89.8	1	0.00	240	11	447.1	447.1	447.1
70.0	18520	-62.3	-90.3	1	0.00	235	11	450.8	450.8	450.8
69.6	18555	-62.5	-90.5	1	0.00	233	11	451.1	451.1	451.1
65.8	18898	-61.6	-90.4	1	0.00	215	16	460.1	460.1	460.1
64.4	19036	-61.3	-90.3	1	0.00	214	15	463.8	463.8	463.8
60.8	19392	-62.7	-91.7	1	0.00	212	14	468.4	468.4	468.4
58.3	19651	-61.5	-90.5	1	0.00	211	13	476.7	476.8	476.7
56.8	19812	-62.2	-91.2	1	0.00	210	12	478.7	478.7	478.7
55.0	20011	-63.1	-92.1	1	0.00	217	11	481.1	481.1	481.1
54.1	20117	-62.4	-91.4	1	0.00	220	11	485.0	485.0	485.0
52.5	20298	-61.3	-90.3	1	0.00	119	5	491.7	491.7	491.7
51.5	20422	-62.0	-91.0	1	0.00	50	1	493.0	493.0	493.0
50.0	20600	-62.9	-91.9	1	0.00	135	7	494.8	494.9	494.8
49.0	20726	-63.6	-92.6	1	0.00	160	19	496.0	496.0	496.0
48.9	20737	-63.7	-92.7	1	0.00	163	19	496.1	496.1	496.1
44.4	21336	-62.0	-91.9	1	0.00	305	4	514.1	514.2	514.1
43.5	21457	-61.7	-91.7	1	0.00	314	4	517.9	517.9	517.9
41.1	21807	-63.3	-92.3	1	0.00	339	4	522.3	522.4	522.3
35.7	22671	-63.3	-92.3	1	0.00	42	4	543.8	543.8	543.8
33.4	23083	-60.5	-91.5	1	0.00	72	4	561.6	561.7	561.6
30.4	23668	-60.9	-91.9	1	0.00	114	4	575.9	575.9	575.9
30.0	23750	-60.5	-91.5	1	0.00	120	4	579.1	579.2	579.1
29.0	23962	-58.5	-89.5	1	0.00	90	5	590.3	590.3	590.3
27.1	24384	-57.9	-89.6	1	0.00	30	7	603.3	603.3	603.3
26.4	24553	-57.7	-89.7	1	0.00	49	8	608.6	608.6	608.6
25.2	24845	-59.1	-90.1	1	0.00	83	9	612.7	612.8	612.7
24.6	24994	-58.3	-89.6	1	0.01	100	10	619.2	619.3	619.2
23.5	25285	-56.7	-88.7	1	0.01	64	10	632.1	632.1	632.1
22.3	25603	-57.5	-89.2	1	0.01	25	10	638.8	638.8	638.8
20.6	26115	-58.9	-89.9	1	0.01	10	4	649.6	649.7	649.6
20.0	26300	-58.5	-89.5	1	0.01	5	2	656.4	656.4	656.4
16.8	27399	-57.9	-89.9	1	0.01	44	3	691.8	691.9	691.8
16.7	27432	-57.8	-89.8	1	0.01	45	3	693.1	693.2	693.1
13.9	28604	-54.9	-86.9	1	0.02	2	0	740.5	740.7	740.5
13.8	28651	-54.6	-86.7	1	0.02	0	0	743.0	743.1	743.0
12.7	29187	-51.5	-84.5	1	0.03	320	12	771.7	772.0	771.7
12.1	29501	-51.7	-84.7	1	0.03	297	18	781.7	782.0	781.7
11.4	29870	-49.0	-83.2	1	0.03	270	26	804.1	804.5	804.1
11.0	30127	-47.1	-82.1	1	0.04	270	23	820.0	820.5	820.0

10.4	30480	-46.5	-81.5	1	0.05	270	20	834.6	835.2	834.6
10.0	30760	-46.1	-81.1	1	0.06	255	24	846.4	847.1	846.4
9.5	31090	-45.8	-80.8	1	0.06	260	18	859.6	860.4	859.7
9.4	31172	-45.7	-80.7	1	0.06			863.0	863.8	863.0

## Station information and sounding indices

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Station identifier: NKX
Station number: 72293
Observation time: 150413/1200
Station latitude: 32.85
Station longitude: -117.12
Station elevation: 137.0
Showalter index: 7.19
Lifted index: 4.81
LIFT computed using virtual temperature: 4.60
SWEAT index: 16.98
K index: -3.70
Cross totals index: 7.30
Vertical totals index: 30.30
Totals totals index: 37.60
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: 285.33
Pres [hPa] of the Lifted Condensation Level: 958.14
Mean mixed layer potential temperature: 288.85
Mean mixed layer mixing ratio: 9.39
1000 hPa to 500 hPa thickness: 5643.00
Precipitable water [mm] for entire sounding: 16.11

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## 72293 NKX San Diego Observations at 00Z 14 Apr 2015

PRES	HGHT	TEMP	DWPT	RELH	MIXR	DRCT	SKNT	THTA	THTE	THTV
hPa	m	C	C	%	g/kg	deg	knot	K	K	K
1001.0	137	21.2	14.2	64	10.27	300	10	294.3	323.9	296.1
1000.0	147	21.0	14.0	64	10.14	300	10	294.1	323.4	295.9
981.8	305	17.8	12.6	72	9.42	295	9	292.5	319.5	294.1
974.0	373	16.4	12.0	75	9.12	292	8	291.7	317.9	293.3
947.2	610	15.0	10.4	74	8.40	280	5	292.7	316.9	294.1
943.0	648	14.8	10.1	73	8.29	280	5	292.8	316.8	294.3
928.0	784	16.8	7.8	55	7.20	280	7	296.2	317.4	297.5
925.0	812	17.2	4.2	42	5.62	280	7	296.9	313.7	297.9
924.0	821	17.4	2.4	37	4.95	277	7	297.2	312.1	298.1
917.0	886	17.6	-1.4	27	3.78	255	7	298.0	309.6	298.7
914.0	914	17.6	-1.2	28	3.84	245	7	298.3	310.1	299.0
899.0	1055	17.6	-0.4	30	4.15	233	6	299.7	312.5	300.5
890.0	1141	18.8	-6.2	18	2.71	226	5	301.8	310.4	302.3
882.0	1218	18.4	-4.6	21	3.09	220	4	302.2	311.9	302.8
881.9	1219	18.4	-4.6	21	3.10	220	4	302.2	312.0	302.8
853.0	1503	16.2	0.2	34	4.57	211	2	302.8	316.9	303.6
850.9	1524	16.1	-0.6	32	4.31	210	2	302.9	316.2	303.6
850.0	1533	16.0	-1.0	31	4.20	220	2	302.9	315.9	303.7
837.0	1664	15.6	-5.4	23	3.07	213	5	303.8	313.5	304.4

820.8	1829	14.3	-7.2	22	2.72	205	9	304.1	312.8	304.6
805.0	1992	13.0	-9.0	21	2.41	205	12	304.4	312.2	304.9
791.5	2134	12.4	-11.0	18	2.10	205	14	305.3	312.2	305.7
786.0	2193	12.2	-11.8	18	1.98	204	15	305.7	312.2	306.0
763.0	2438	10.0	-12.3	19	1.96	200	20	305.9	312.4	306.3
735.3	2743	7.3	-12.9	22	1.93	190	23	306.3	312.6	306.6
706.0	3079	4.4	-13.6	26	1.91	198	21	306.6	312.9	306.9
700.0	3148	3.8	-15.2	24	1.68	200	20	306.7	312.2	307.0
687.0	3300	3.0	-21.0	15	1.05	204	17	307.4	311.0	307.6
682.5	3353	2.6	-21.4	15	1.02	205	16	307.5	311.0	307.7
657.0	3658	0.0	-24.0	14	0.84	175	12	308.0	310.9	308.2
650.0	3745	-0.7	-24.7	14	0.80	176	12	308.1	310.9	308.3
638.0	3893	-0.5	-37.5	4	0.24	179	13	310.0	310.9	310.1
608.5	4267	-3.4	-38.2	5	0.23	185	14	310.9	311.8	310.9
586.0	4566	-5.7	-38.7	5	0.23	180	10	311.6	312.4	311.6
585.5	4572	-5.7	-38.9	5	0.23	180	10	311.6	312.5	311.7
570.0	4782	-6.1	-46.1	3	0.11	201	14	313.6	314.0	313.6
563.0	4877	-6.9	-45.9	3	0.11	210	16	313.7	314.2	313.8
500.0	5790	-14.7	-43.7	7	0.16	210	20	315.1	315.7	315.1
479.8	6096	-17.3	-45.1	7	0.14	215	20	315.6	316.1	315.6
438.0	6774	-23.1	-48.1	8	0.11	219	19	316.6	317.0	316.6
424.0	7010	-25.1	-45.7	13	0.15	220	18	316.9	317.5	317.0
416.0	7148	-26.3	-44.3	17	0.18	231	18	317.1	317.9	317.2
407.0	7306	-27.3	-49.3	10	0.11	244	17	317.8	318.3	317.9
406.5	7315	-27.4	-48.9	11	0.11	245	17	317.9	318.3	317.9
400.0	7430	-28.3	-43.3	22	0.21	245	16	318.1	318.9	318.2
389.5	7620	-30.0	-45.7	20	0.17	245	17	318.4	319.0	318.4
385.0	7703	-30.7	-46.7	19	0.15	248	17	318.5	319.1	318.5
378.0	7833	-31.5	-52.5	11	0.08	252	17	319.1	319.4	319.1
362.0	8138	-33.9	-50.9	16	0.10	262	16	319.8	320.2	319.9
357.3	8230	-34.5	-52.5	14	0.08	265	16	320.2	320.5	320.2
342.0	8535	-36.7	-57.7	10	0.05	300	19	321.3	321.5	321.3
312.8	9144	-41.3	-58.9	13	0.04	300	20	323.1	323.3	323.1
300.0	9430	-43.5	-59.5	15	0.04	305	19	323.9	324.1	323.9
296.0	9520	-44.1	-60.1	15	0.04	304	19	324.3	324.5	324.3
264.0	10277	-50.5	-63.5	20	0.03	298	23	325.8	325.9	325.8
250.0	10630	-52.7	-68.7	13	0.01	295	24	327.6	327.6	327.6
219.0	11472	-58.1	-73.1	13	0.01	299	28	331.9	331.9	331.9
215.2	11582	-58.5	-73.5	13	0.01	300	28	332.9	333.0	332.9
200.0	12040	-60.1	-75.1	12	0.01	300	24	337.4	337.5	337.4
186.0	12492	-61.9	-76.9	12	0.01	265	26	341.6	341.6	341.6
174.0	12906	-60.5	-79.5	7	0.00	257	23	350.5	350.5	350.5
159.0	13467	-61.9	-85.9	3	0.00	247	19	357.2	357.3	357.2
156.0	13585	-60.3	-85.3	2	0.00	245	19	361.9	361.9	361.9
150.0	13830	-60.3	-87.3	2	0.00	240	17	366.0	366.0	366.0
147.0	13956	-60.7	-87.7	2	0.00	241	17	367.4	367.4	367.4
140.0	14261	-59.7	-88.7	1	0.00	245	17	374.3	374.3	374.3
136.0	14442	-61.3	-90.3	1	0.00	246	17	374.6	374.6	374.6
130.0	14722	-61.1	-90.1	1	0.00	249	17	379.8	379.8	379.8
123.0	15065	-62.7	-91.7	1	0.00	253	17	383.0	383.0	383.0
119.6	15240	-62.4	-91.4	1	0.00	255	17	386.6	386.6	386.6
118.0	15321	-62.3	-91.3	1	0.00	256	17	388.3	388.3	388.3
103.0	16158	-64.1	-92.1	1	0.00	268	20	400.2	400.2	400.2
102.0	16218	-63.3	-92.3	1	0.00	268	20	402.9	402.9	402.9
100.0	16340	-64.1	-93.1	1	0.00	270	20	403.6	403.6	403.6
93.7	16739	-61.5	-90.5	1	0.00	268	18	416.3	416.3	416.3
88.9	17063	-63.1	-92.1	1	0.00	266	17	419.4	419.4	419.4
77.6	17896	-63.5	-92.5	1	0.00	262	14	435.2	435.2	435.2
72.8	18288	-62.0	-91.7	1	0.00	260	12	446.5	446.5	446.5

70.9	18451	-61.3	-91.3	1	0.00	247	13	451.2	451.3	451.2
70.0	18530	-61.7	-91.7	1	0.00	240	13	452.0	452.1	452.0
66.0	18898	-62.1	-92.1	1	0.00	240	16	458.9	459.0	458.9
65.8	18913	-62.1	-92.1	1	0.00	240	15	459.2	459.2	459.2
62.8	19202	-60.4	-91.2	1	0.00	240	1	469.1	469.2	469.1
62.0	19283	-59.9	-90.9	1	0.00	240	2	472.0	472.0	472.0
58.4	19656	-61.9	-91.9	1	0.00	240	7	475.6	475.6	475.6
56.5	19861	-60.3	-91.3	1	0.00	240	9	483.8	483.8	483.8
52.6	20306	-62.3	-92.3	1	0.00	240	15	489.1	489.1	489.1
51.6	20422	-61.9	-92.2	1	0.00	240	16	492.8	492.8	492.8
50.0	20620	-61.1	-92.1	1	0.00	255	14	499.1	499.1	499.1
49.1	20726	-61.1	-92.1	1	0.00	270	11	501.5	501.5	501.5
47.5	20939	-61.1	-92.1	1	0.00	223	10	506.4	506.4	506.4
44.5	21336	-63.0	-93.3	1	0.00	135	9	511.1	511.1	511.1
43.3	21511	-63.9	-93.9	1	0.00	109	7	513.1	513.2	513.1
42.4	21640	-62.1	-92.1	1	0.00	90	6	520.7	520.7	520.7
38.4	22250	-62.0	-92.0	1	0.00	0	0	535.9	535.9	535.9
36.5	22568	-61.9	-91.9	1	0.00	13	2	544.0	544.0	544.0
35.2	22793	-60.1	-91.1	1	0.00	23	3	554.3	554.3	554.3
33.1	23176	-61.3	-92.3	1	0.00	39	5	561.0	561.0	561.0
30.0	23790	-59.3	-90.3	1	0.00	65	8	582.4	582.4	582.4
28.6	24079	-59.4	-90.4	1	0.00	90	12	589.8	589.8	589.8
27.3	24384	-59.6	-90.6	1	0.00	85	11	597.7	597.7	597.7
26.0	24685	-59.7	-90.7	1	0.00	100	11	605.6	605.6	605.6
25.0	24931	-57.5	-89.5	1	0.01	112	10	618.7	618.8	618.7
20.0	26340	-57.1	-89.1	1	0.01	180	9	660.6	660.7	660.7
18.9	26697	-56.9	-88.9	1	0.01	220	9	672.0	672.1	672.0
18.5	26833	-54.9	-86.9	1	0.01	235	9	682.4	682.5	682.4
17.5	27189	-53.5	-86.5	1	0.01	273	10	697.8	697.9	697.8
16.9	27432	-53.5	-86.5	1	0.01	300	10	705.4	705.5	705.4
16.1	27737	-53.5	-86.5	1	0.01	255	4	715.0	715.2	715.0
15.1	28135	-53.5	-86.5	1	0.01	252	13	727.8	728.0	727.8
14.6	28346	-52.6	-85.8	1	0.02	250	18	737.7	737.9	737.7
13.9	28651	-51.3	-84.8	1	0.02	230	18	752.1	752.4	752.1
13.0	29105	-49.3	-83.3	1	0.03	241	17	774.2	774.5	774.2
12.7	29261	-49.9	-83.9	1	0.03	245	17	777.4	777.8	777.5
12.7	29258	-49.9	-83.9	1	0.03	245	17	777.2	777.6	777.3
11.9	29685	-46.9	-81.9	1	0.04	235	26	802.5	803.0	802.5
11.6	29870	-47.4	-82.2	1	0.04	230	30	807.0	807.5	807.1
10.7	30385	-48.9	-82.9	1	0.04	255	27	819.9	820.4	819.9
10.6	30480	-48.5	-82.7	1	0.04	260	27	824.9	825.4	824.9
10.0	30830	-46.9	-81.9	1	0.05	260	28	843.4	844.0	843.4
9.3	31312	-45.9	-80.9	1	0.06	260	30	864.8	865.6	864.9
8.4	32004	-47.0	-82.0	1	0.06	260	32	886.8	887.5	886.8
8.4	31987	-47.1	-82.1	1	0.06	260	32	885.7	886.4	885.7
8.0	32311	-44.9	-79.9	1	0.08			906.8	908.0	906.9

## Station information and sounding indices

Station identifier: NKX  
 Station number: 72293  
 Observation time: 150414/0000  
 Station latitude: 32.85  
 Station longitude: -117.12  
 Station elevation: 137.0  
 Showalter index: 4.06  
 Lifted index: 2.38  
 LIFT computed using virtual temperature: 2.09  
 SWEAT index: 24.01

K index: 10.70  
 Cross totals index: 13.70  
 Vertical totals index: 30.70  
 Totals totals index: 44.40  
 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: 284.01  
 Pres [hPa] of the Lifted Condensation Level: 900.94  
 Mean mixed layer potential temperature: 292.61  
 Mean mixed layer mixing ratio: 9.16  
 1000 hPa to 500 hPa thickness: 5643.00  
 Precipitable water [mm] for entire sounding: 14.29

## 72293 NKX San Diego Observations at 12Z 14 Apr 2015

PRES	HGHT	TEMP	DWPT	RELH	MIXR	DRCT	SKNT	THTA	THTE	THTV
hPa	m	C	C	%	g/kg	deg	knot	K	K	K
1002.0	137	15.6	12.5	82	9.16	300	5	288.6	314.5	290.2
1000.0	153	15.6	12.5	82	9.18	300	5	288.8	314.7	290.4
982.1	305	14.2	12.0	86	9.02	300	2	288.8	314.4	290.4
947.1	610	11.4	10.9	97	8.71	110	2	289.0	313.6	290.5
938.0	692	10.6	10.6	100	8.62	124	2	289.0	313.4	290.5
925.0	808	10.0	10.0	100	8.40	145	3	289.5	313.4	291.0
921.0	844	9.6	9.2	97	7.99	154	4	289.5	312.2	290.9
918.0	871	10.4	7.1	80	6.94	160	5	290.6	310.5	291.8
914.0	908	15.4	2.4	42	5.00	169	7	296.1	311.0	297.0
913.3	914	15.9	0.9	36	4.51	170	7	296.7	310.3	297.5
912.0	926	17.0	-2.0	27	3.64	171	7	297.9	309.1	298.5
907.0	973	17.0	-6.0	20	2.70	177	8	298.4	306.8	298.9
881.1	1219	16.4	-13.0	12	1.60	205	13	300.2	305.4	300.5
871.0	1317	16.2	-15.8	10	1.29	210	13	301.0	305.2	301.2
850.0	1523	14.6	-8.4	20	2.40	220	14	301.4	309.1	301.9
820.0	1825	12.6	-7.4	24	2.69	235	16	302.4	310.9	302.9
819.6	1829	12.6	-7.4	24	2.68	235	16	302.4	311.0	302.9
813.0	1897	12.2	-7.8	24	2.63	234	16	302.7	311.1	303.2
804.0	1990	12.0	-18.0	11	1.16	232	17	303.5	307.4	303.7
791.0	2126	11.4	-15.6	14	1.44	230	18	304.3	309.1	304.5
790.3	2134	11.3	-15.6	14	1.44	230	18	304.3	309.1	304.6
761.7	2438	8.9	-15.8	16	1.47	235	22	304.9	309.8	305.2
734.0	2743	6.5	-16.0	18	1.50	230	21	305.5	310.5	305.8
715.0	2959	4.8	-16.2	20	1.52	238	20	305.9	311.0	306.2
700.0	3132	4.0	-22.0	13	0.94	245	20	306.9	310.1	307.1
690.0	3249	3.2	-29.8	7	0.47	253	19	307.3	308.9	307.4
683.0	3331	2.8	-17.2	21	1.46	258	19	307.7	312.6	308.0
667.0	3522	1.2	-13.8	32	1.98	271	18	308.0	314.6	308.4
655.8	3658	-0.0	-14.6	32	1.88	280	17	308.1	314.4	308.5
639.0	3865	-1.9	-15.9	33	1.74	263	17	308.3	314.1	308.6
629.0	3990	-2.7	-17.7	31	1.52	253	18	308.8	313.9	309.0
622.0	4079	-3.5	-15.5	39	1.85	246	18	308.8	315.0	309.2
617.0	4143	-3.3	-25.3	16	0.80	240	18	309.8	312.6	309.9
615.0	4168	-3.5	-24.5	18	0.86	238	18	309.8	312.8	310.0
610.0	4233	-4.1	-20.1	28	1.28	233	18	309.9	314.2	310.1
607.4	4267	-4.4	-20.1	28	1.28	230	18	309.9	314.3	310.2



584.2	4572	-6.9	-20.3	34	1.31	225	21	310.4	314.9	310.6
581.0	4615	-7.3	-20.3	35	1.32	226	21	310.5	315.0	310.7
572.0	4736	-7.7	-25.7	22	0.83	228	21	311.4	314.3	311.5
561.7	4877	-8.4	-28.5	18	0.65	230	21	312.2	314.5	312.3
548.0	5068	-9.3	-32.3	14	0.47	235	21	313.3	315.0	313.4
518.9	5486	-12.3	-37.1	11	0.31	245	21	314.7	315.8	314.7
500.0	5770	-14.3	-40.3	9	0.23	235	20	315.5	316.4	315.6
478.8	6096	-17.1	-42.5	9	0.19	235	18	316.0	316.8	316.1
464.0	6332	-19.1	-44.1	9	0.16	250	18	316.4	317.0	316.4
447.0	6609	-20.5	-44.5	10	0.16	269	18	318.0	318.6	318.0
441.1	6706	-21.4	-44.4	11	0.17	275	18	318.1	318.8	318.1
406.0	7313	-26.9	-43.9	18	0.19	262	22	318.6	319.3	318.6
400.0	7420	-27.7	-46.7	15	0.14	260	23	318.9	319.5	318.9
388.9	7620	-29.4	-48.4	14	0.12	260	24	319.3	319.8	319.3
370.0	7973	-32.3	-51.3	13	0.09	257	23	320.0	320.4	320.0
356.6	8230	-34.5	-52.1	15	0.09	255	22	320.4	320.7	320.4
343.0	8500	-36.9	-52.9	17	0.08	258	22	320.7	321.1	320.8
331.0	8745	-38.7	-59.7	9	0.04	261	22	321.6	321.7	321.6
312.0	9144	-41.7	-60.9	11	0.03	265	22	322.8	323.0	322.8
300.0	9410	-43.7	-61.7	12	0.03	270	22	323.6	323.8	323.7
298.2	9449	-44.0	-61.9	12	0.03	275	21	323.8	323.9	323.8
271.0	10085	-49.1	-65.1	14	0.02	275	24	325.4	325.4	325.4
250.0	10610	-52.7	-65.7	19	0.02	275	26	327.6	327.7	327.6
225.1	11278	-57.6	-69.2	22	0.02	280	33	330.1	330.2	330.1
216.0	11540	-59.5	-70.5	23	0.01	276	33	331.0	331.1	331.0
202.0	11958	-61.1	-72.1	22	0.01	270	33	334.9	334.9	334.9
200.0	12020	-61.1	-72.1	22	0.01	265	33	335.9	335.9	335.9
194.6	12192	-61.1	-72.8	20	0.01	260	34	338.5	338.6	338.5
192.0	12274	-61.1	-73.1	19	0.01	264	32	339.8	339.8	339.8
187.0	12438	-61.7	-74.7	16	0.01	272	29	341.4	341.4	341.4
185.2	12497	-61.1	-74.8	15	0.01	275	28	343.3	343.3	343.3
180.0	12676	-59.3	-75.3	11	0.01	279	29	349.1	349.1	349.1
173.0	12925	-58.3	-78.3	6	0.01	286	32	354.7	354.7	354.7
168.1	13106	-58.9	-80.2	5	0.00	290	33	356.6	356.6	356.6
158.0	13494	-60.3	-84.3	3	0.00	280	31	360.6	360.6	360.6
152.5	13716	-59.2	-84.0	3	0.00	275	30	366.1	366.1	366.1
151.0	13778	-58.9	-83.9	3	0.00	275	30	367.7	367.7	367.7
150.0	13820	-58.9	-84.9	2	0.00	275	30	368.4	368.4	368.4
141.0	14206	-60.9	-86.9	2	0.00	286	25	371.5	371.5	371.5
138.3	14326	-61.1	-87.1	2	0.00	290	23	373.2	373.2	373.2
136.0	14429	-61.3	-87.3	2	0.00	285	24	374.6	374.6	374.6
133.0	14568	-60.5	-87.5	2	0.00	278	26	378.4	378.4	378.4
126.0	14902	-62.5	-89.5	2	0.00	262	30	380.7	380.7	380.7
125.3	14935	-62.5	-89.4	2	0.00	260	30	381.2	381.3	381.2
120.0	15202	-62.7	-88.7	2	0.00	273	26	385.7	385.7	385.7
119.3	15240	-62.5	-88.8	2	0.00	275	25	386.8	386.8	386.8
118.0	15306	-62.1	-89.1	2	0.00	276	25	388.6	388.7	388.6
111.0	15682	-63.3	-89.3	2	0.00	282	23	393.2	393.3	393.2
110.0	15738	-62.5	-88.5	2	0.00	283	23	395.8	395.8	395.8
108.0	15850	-63.1	-88.9	2	0.00	285	22	396.7	396.7	396.7
100.0	16320	-65.7	-90.7	2	0.00	275	29	400.5	400.5	400.5
93.0	16762	-65.1	-90.1	2	0.00	256	20	410.1	410.1	410.1
86.8	17185	-62.5	-88.5	2	0.00	238	12	423.5	423.5	423.5
84.2	17374	-62.6	-88.6	2	0.00	230	8	427.0	427.0	427.0
80.1	17678	-62.8	-88.8	2	0.00	260	14	432.7	432.7	432.7
72.9	18260	-63.1	-89.1	2	0.00	255	16	443.9	443.9	443.9
72.6	18288	-63.0	-89.1	2	0.00	255	16	444.7	444.7	444.7
70.0	18510	-62.1	-89.1	2	0.00	255	15	451.2	451.2	451.2
62.6	19202	-60.8	-89.1	1	0.00	255	12	468.7	468.7	468.7

59.6	19507	-60.2	-89.1	1	0.00	225	15	476.6	476.6	476.6
56.8	19812	-59.6	-89.1	1	0.00	255	11	484.6	484.7	484.6
54.3	20088	-59.1	-89.1	1	0.00	218	11	492.0	492.1	492.0
50.0	20600	-62.3	-90.3	1	0.00	150	12	496.2	496.3	496.2
49.0	20726	-63.2	-91.2	1	0.00	155	13	496.9	497.0	496.9
48.7	20762	-63.5	-91.5	1	0.00	174	13	497.1	497.2	497.1
46.6	21031	-60.9	-89.8	1	0.00	315	11	509.6	509.6	509.6
46.3	21075	-60.5	-89.5	1	0.00	324	11	511.6	511.6	511.6
44.4	21336	-60.9	-89.7	1	0.00	15	8	516.8	516.8	516.8
37.8	22333	-62.5	-90.5	1	0.00	328	6	537.0	537.0	537.0
37.2	22432	-61.3	-90.3	1	0.00	323	6	542.6	542.6	542.6
35.5	22722	-61.9	-90.9	1	0.00	309	5	548.3	548.3	548.3
34.3	22936	-59.9	-89.9	1	0.00	299	5	559.0	559.0	559.0
31.8	23407	-61.1	-90.1	1	0.00	277	4	568.0	568.0	568.0
30.0	23774	-60.3	-90.3	1	0.00	310	2	579.8	579.9	579.8
30.0	23770	-60.3	-90.3	1	0.00	260	3	579.7	579.7	579.7
28.3	24135	-58.7	-89.7	1	0.00	328	4	593.8	593.9	593.9
27.2	24384	-59.0	-89.6	1	0.00	340	6	599.9	600.0	599.9
24.9	24937	-59.5	-89.5	1	0.01	265	8	613.7	613.7	613.7
22.4	25603	-58.0	-88.6	1	0.01	175	11	637.0	637.1	637.0
21.1	25979	-57.1	-88.1	1	0.01	183	10	650.6	650.7	650.6
20.0	26320	-54.7	-86.7	1	0.01	190	9	668.0	668.1	668.0
19.8	26384	-54.3	-87.3	1	0.01	200	8	671.1	671.2	671.1
19.4	26518	-54.4	-86.9	1	0.01	220	6	674.9	675.0	674.9
18.9	26682	-54.5	-86.5	1	0.01	224	10	679.5	679.6	679.5
17.6	27127	-52.4	-85.6	1	0.02	235	22	699.7	699.8	699.7
16.8	27443	-50.9	-84.9	1	0.02	275	13	714.3	714.5	714.3
16.8	27432	-51.0	-84.9	1	0.02	275	13	713.8	714.0	713.8
16.1	27737	-51.3	-85.0	1	0.02	270	15	722.4	722.6	722.4
15.3	28042	-51.7	-85.1	1	0.02	285	17	730.9	731.1	730.9
12.7	29261	-53.2	-85.4	1	0.02	245	23	765.9	766.1	765.9
12.3	29461	-53.5	-85.5	1	0.02	268	14	771.7	772.0	771.8
12.1	29566	-52.2	-85.0	1	0.02	280	9	779.7	780.0	779.8
11.8	29730	-50.3	-84.3	1	0.03	258	14	792.3	792.7	792.3
11.6	29870	-50.3	-83.8	1	0.03	240	18	797.2	797.6	797.2
11.3	30013	-50.3	-83.3	1	0.03	242	24	802.2	802.6	802.2
11.0	30175	-48.9	-82.6	1	0.04	245	31	813.0	813.5	813.0
10.5	30496	-46.1	-81.1	1	0.05	250	26	834.6	835.3	834.7
10.5	30480	-46.2	-81.2	1	0.05	250	26	833.5	834.2	833.5
10.0	30820	-47.3	-81.3	1	0.05	255	32	841.9	842.6	841.9
9.7	31021	-47.9	-81.9	1	0.05	255	33	847.0	847.6	847.0
9.4	31229	-46.7	-81.7	1	0.05	255	34	859.2	859.9	859.2
9.1	31445	-43.3	-79.3	1	0.08	255	35	880.2	881.3	880.2
8.4	31986	-40.9	-77.9	1	0.11	255	37	910.0	911.5	910.0
7.8	32487	-43.3	-79.3	1	0.10	255	39	919.8	921.1	919.9
7.6	32663	-41.1	-78.1	1	0.12	255	40	935.5	937.2	935.6
7.0	33223	-41.9	-77.9	1	0.13	255	44	954.6	956.5	954.7
7.0	33220	-41.9	-77.9	1	0.13	255	42	954.5	956.4	954.6
6.8	33416	-42.3	-78.3	1	0.13			960.8	962.6	960.8

## Station information and sounding indices

Station identifier: NKX  
 Station number: 72293  
 Observation time: 150414/1200  
 Station latitude: 32.85  
 Station longitude: -117.12  
 Station elevation: 137.0  
 Showalter index: 8.65

Lifted index: 5.53  
 LIFT computed using virtual temperature: 5.32  
 SWEAT index: 48.02  
 K index: -5.50  
 Cross totals index: 5.90  
 Vertical totals index: 28.90  
 Totals totals index: 34.80  
 Convective Available Potential Energy: 1.72  
 CAPE using virtual temperature: 2.01  
 Convective Inhibition: 0.00  
 CINS using virtual temperature: 0.00  
 Equilibrium Level: 919.47  
 Equilibrium Level using virtual temperature: 918.89  
 Level of Free Convection: 944.60  
 LFCT using virtual temperature: 945.97  
 Bulk Richardson Number: 0.07  
 Bulk Richardson Number using CAPV: 0.08  
 Temp [K] of the Lifted Condensation Level: 284.43  
 Pres [hPa] of the Lifted Condensation Level: 947.53  
 Mean mixed layer potential temperature: 288.86  
 Mean mixed layer mixing ratio: 8.94  
 1000 hPa to 500 hPa thickness: 5617.00  
 Precipitable water [mm] for entire sounding: 14.24

## 72293 NKX San Diego Observations at 00Z 15 Apr 2015

PRES	HGHT	TEMP	DWPT	RELH	MIXR	DRCT	SKNT	THTA	THTE	THTV
hPa	m	C	C	%	g/kg	deg	knot	K	K	K
1000.0	137	21.2	12.2	56	9.00	300	10	294.4	320.5	295.9
993.0	197	20.0	12.0	60	8.94	300	10	293.7	319.6	295.3
980.5	305	18.2	11.0	63	8.48	300	10	293.0	317.5	294.5
963.0	459	15.6	9.6	67	7.85	290	6	291.9	314.5	293.3
954.0	538	15.2	10.2	72	8.25	285	4	292.3	316.0	293.7
945.9	610	15.7	7.2	57	6.76	280	2	293.5	313.2	294.7
938.0	681	16.2	4.2	45	5.54	286	5	294.7	311.1	295.7
933.0	726	17.2	-2.8	25	3.35	289	6	296.2	306.4	296.8
930.0	753	17.6	-5.4	20	2.76	291	7	296.8	305.4	297.3
925.0	799	17.6	-6.4	19	2.57	295	9	297.3	305.3	297.8
912.6	914	17.6	-8.3	16	2.24	290	9	298.4	305.5	298.9
906.0	976	17.6	-9.4	15	2.08	298	9	299.1	305.7	299.4
880.5	1219	16.9	-11.9	13	1.76	330	11	300.8	306.5	301.1
877.0	1252	16.8	-12.2	13	1.72	329	11	301.0	306.6	301.3
851.0	1507	14.6	-10.4	17	2.05	320	12	301.3	307.9	301.7
850.0	1517	14.6	-12.4	14	1.74	320	12	301.4	307.1	301.8
849.3	1524	14.6	-12.9	14	1.67	315	12	301.5	307.0	301.8
839.0	1627	15.0	-21.0	7	0.86	315	12	303.0	305.9	303.1
819.1	1829	13.7	-15.7	12	1.38	315	12	303.7	308.2	303.9
812.0	1902	13.2	-13.8	14	1.63	317	13	303.9	309.3	304.2
793.0	2101	12.0	-26.0	5	0.58	324	15	304.7	306.7	304.8
789.8	2134	12.0	-27.8	4	0.50	325	15	305.0	306.8	305.1
779.0	2249	12.0	-34.0	2	0.28	323	15	306.2	307.3	306.3
761.4	2438	10.6	-34.2	3	0.28	320	16	306.7	307.7	306.7
733.8	2743	8.2	-34.5	3	0.28	320	20	307.4	308.4	307.4
700.0	3132	5.2	-34.8	4	0.29	315	21	308.2	309.3	308.3
686.0	3296	4.2	-38.8	3	0.20	319	24	308.9	309.6	308.9
681.2	3353	3.7	-39.0	3	0.19	320	25	308.9	309.7	309.0
655.8	3658	1.0	-39.8	3	0.18	325	22	309.2	309.9	309.3

632.0	3954	-1.7	-40.7	3	0.17	335	24	309.5	310.1	309.5
631.4	3962	-1.7	-40.9	3	0.17	335	24	309.5	310.2	309.6
613.0	4196	-2.5	-45.5	2	0.11	327	22	311.3	311.7	311.3
607.4	4267	-3.1	-45.0	2	0.11	325	22	311.4	311.8	311.4
584.0	4572	-5.7	-43.1	3	0.15	310	18	311.9	312.5	312.0
561.5	4877	-8.2	-41.1	5	0.19	320	16	312.4	313.2	312.5
539.9	5182	-10.8	-39.2	8	0.24	320	21	312.9	313.8	313.0
524.0	5414	-12.7	-37.7	10	0.29	309	19	313.3	314.3	313.3
519.1	5486	-13.1	-38.4	10	0.27	305	19	313.6	314.6	313.7
507.0	5665	-14.1	-40.1	9	0.23	311	23	314.5	315.4	314.6
500.0	5770	-15.1	-38.1	12	0.29	315	25	314.6	315.6	314.6
482.0	6046	-17.5	-36.5	17	0.35	315	31	314.9	316.2	315.0
478.8	6096	-17.9	-37.6	16	0.32	315	32	315.0	316.2	315.1
432.0	6855	-24.5	-54.5	4	0.05	315	29	316.0	316.3	316.1
405.3	7315	-28.8	-57.1	5	0.04	315	27	316.3	316.4	316.3
400.0	7410	-29.7	-57.7	5	0.04	315	27	316.3	316.5	316.3
388.2	7620	-31.7	-57.9	6	0.04	310	28	316.4	316.6	316.4
362.0	8112	-36.3	-58.3	8	0.04	297	27	316.6	316.8	316.6
340.3	8534	-39.4	-60.3	9	0.03	285	27	318.1	318.2	318.1
322.0	8913	-42.1	-62.1	9	0.03	282	35	319.4	319.5	319.4
311.2	9144	-42.9	-62.9	9	0.03	280	40	321.4	321.5	321.4
306.0	9257	-43.3	-63.3	9	0.03	275	39	322.4	322.5	322.4
300.0	9390	-44.5	-63.5	10	0.02	270	37	322.5	322.6	322.5
286.0	9709	-47.5	-63.5	14	0.03	266	41	322.7	322.8	322.7
284.1	9754	-47.8	-63.7	14	0.03	265	41	322.8	322.9	322.8
258.8	10363	-52.2	-66.8	16	0.02	280	41	325.0	325.1	325.0
250.0	10590	-53.9	-67.9	16	0.02	275	42	325.8	325.9	325.8
242.0	10798	-55.5	-69.5	16	0.01	271	44	326.4	326.5	326.4
225.0	11259	-57.9	-69.9	20	0.01	260	48	329.6	329.7	329.6
224.3	11278	-57.9	-70.0	20	0.01	260	48	329.9	330.0	329.9
217.0	11487	-58.1	-71.1	17	0.01	260	46	332.8	332.8	332.8
212.0	11633	-59.1	-72.1	17	0.01	260	45	333.4	333.5	333.4
206.0	11814	-57.3	-74.3	10	0.01	260	46	339.0	339.0	339.0
200.0	12000	-57.7	-77.7	6	0.00	260	46	341.2	341.3	341.2
195.0	12160	-55.9	-78.9	4	0.00	263	46	346.6	346.6	346.6
191.0	12292	-55.5	-81.5	3	0.00	265	45	349.3	349.3	349.3
168.0	13106	-56.8	-85.1	2	0.00	280	43	360.3	360.3	360.3
162.0	13335	-57.1	-86.1	1	0.00	277	43	363.4	363.4	363.4
158.0	13493	-56.7	-85.7	1	0.00	275	43	366.7	366.7	366.7
154.0	13655	-58.1	-86.1	2	0.00	272	43	367.0	367.0	367.0
151.0	13778	-57.9	-86.9	1	0.00	271	43	369.4	369.4	369.4
150.0	13820	-58.1	-87.1	1	0.00	270	43	369.8	369.8	369.8
143.0	14121	-59.9	-87.9	1	0.00	270	37	371.7	371.7	371.7
138.4	14326	-60.3	-88.3	1	0.00	270	33	374.6	374.6	374.6
131.8	14630	-60.8	-88.8	1	0.00	260	40	378.9	378.9	378.9
122.0	15111	-61.7	-89.7	1	0.00	264	42	385.7	385.7	385.7
119.5	15240	-62.4	-90.0	1	0.00	265	42	386.6	386.6	386.6
116.0	15423	-63.5	-90.5	1	0.00	270	44	388.0	388.0	388.0
113.7	15545	-62.7	-89.7	2	0.00	270	44	391.6	391.6	391.6
113.0	15585	-62.5	-89.5	2	0.00	272	43	392.7	392.8	392.8
110.0	15751	-62.7	-90.7	1	0.00	278	40	395.4	395.4	395.4
100.0	16340	-62.7	-90.7	1	0.00	300	27	406.3	406.3	406.3
76.5	17976	-65.3	-91.3	2	0.00	240	7	433.2	433.2	433.2
76.4	17983	-65.2	-91.2	2	0.00	240	7	433.5	433.5	433.5
72.7	18288	-62.5	-89.3	2	0.00	260	22	445.5	445.5	445.5
71.9	18355	-61.9	-88.9	2	0.00	267	22	448.2	448.2	448.2
70.0	18520	-62.5	-89.5	2	0.00	285	21	450.3	450.4	450.3
69.2	18593	-62.6	-89.6	2	0.00	285	21	451.7	451.7	451.7
66.4	18845	-62.9	-89.9	2	0.00	248	17	456.3	456.3	456.3

65.8	18898	-62.4	-89.7	1	0.00	240	16	458.6	458.6	458.6
63.2	19151	-59.9	-88.9	1	0.00	248	22	469.4	469.4	469.4
62.7	19202	-60.0	-89.0	1	0.00	250	23	470.3	470.4	470.3
59.7	19507	-60.4	-89.4	1	0.00	235	7	476.0	476.0	476.0
59.0	19579	-60.5	-89.5	1	0.00	240	7	477.4	477.4	477.4
56.4	19861	-59.1	-89.1	1	0.00	260	9	486.7	486.8	486.7
51.5	20422	-61.2	-90.3	1	0.00	300	11	494.6	494.6	494.6
50.8	20512	-61.5	-90.5	1	0.00	307	11	495.9	495.9	495.9
50.0	20610	-60.7	-89.7	1	0.00	315	12	500.0	500.0	500.0
49.7	20647	-60.5	-89.5	1	0.00	324	12	501.3	501.4	501.3
46.7	21031	-62.3	-90.8	1	0.00	60	12	506.1	506.1	506.1
44.5	21336	-63.7	-91.7	1	0.00	185	2	509.9	509.9	509.9
44.1	21386	-63.9	-91.9	1	0.00	187	2	510.5	510.5	510.5
41.8	21716	-61.5	-90.5	1	0.00	202	4	524.3	524.3	524.3
37.8	22339	-61.7	-89.7	1	0.00	229	8	539.1	539.1	539.1
36.2	22608	-59.7	-89.7	1	0.00	241	9	550.9	551.0	550.9
34.9	22836	-60.1	-89.1	1	0.00	251	10	555.7	555.7	555.7
33.1	23165	-57.2	-87.9	1	0.01	265	12	571.6	571.7	571.6
32.8	23226	-56.7	-87.7	1	0.01	280	11	574.6	574.7	574.6
30.0	23790	-57.9	-87.9	1	0.01	55	5	586.2	586.3	586.2
28.3	24158	-58.7	-87.7	1	0.01	105	6	593.8	593.9	593.9
27.3	24384	-58.5	-87.6	1	0.01	135	6	600.6	600.6	600.6
24.8	24994	-57.8	-87.4	1	0.01	260	1	619.2	619.3	619.2
22.2	25694	-57.1	-87.1	1	0.01	237	10	641.2	641.3	641.2
21.5	25908	-56.5	-86.8	1	0.01	230	13	649.3	649.4	649.3
20.0	26360	-55.1	-86.1	1	0.01	245	7	666.8	666.9	666.8
16.9	27432	-51.8	-84.3	1	0.02	230	6	709.7	709.9	709.7
16.1	27737	-50.9	-83.8	1	0.02	260	14	722.4	722.7	722.4
16.0	27799	-50.7	-83.7	1	0.02	259	15	725.0	725.3	725.0
15.1	28178	-47.7	-81.7	1	0.03	256	23	747.0	747.4	747.0
14.7	28346	-48.0	-81.6	1	0.03	255	27	751.6	752.0	751.6
14.1	28651	-48.5	-81.5	1	0.04	260	17	760.0	760.4	760.0
14.0	28676	-48.5	-81.5	1	0.04	258	17	760.6	761.1	760.7
13.5	28917	-46.5	-80.5	1	0.05	238	18	775.4	776.0	775.5
13.4	28956	-46.5	-80.5	1	0.05	235	18	776.8	777.4	776.8
12.7	29322	-46.3	-80.3	1	0.05	241	31	789.8	790.4	789.8
12.2	29566	-46.9	-80.9	1	0.05	245	39	796.1	796.7	796.2
11.9	29753	-47.3	-81.3	1	0.05	245	40	801.1	801.6	801.1
11.4	30038	-45.3	-80.3	1	0.06	245	41	818.1	818.8	818.1
10.7	30480	-45.9	-80.3	1	0.06	245	42	831.8	832.5	831.8
10.1	30844	-46.3	-80.3	1	0.06	258	43	843.2	844.0	843.2
10.0	30910	-45.9	-80.9	1	0.06	260	43	847.1	847.8	847.1
9.3	31394	-43.3	-79.3	1	0.08	255	39	874.5	875.6	874.6
8.9	31699	-41.7	-78.4	1	0.10	240	48	892.2	893.5	892.3
8.7	31847	-40.9	-77.9	1	0.11	245	52	900.9	902.3	900.9
8.5	32004	-41.8	-78.1	1	0.11	250	56	903.6	905.0	903.6
8.1	32330	-43.5	-78.5	1	0.10	255	47	909.2	910.6	909.2
7.8	32614	-41.5	-77.6	1	0.13	260	40	928.0	929.7	928.1
7.5	32851	-39.9	-76.9	1	0.15			944.0	946.0	944.0

## Station information and sounding indices

Station identifier: NKX  
 Station number: 72293  
 Observation time: 150415/0000  
 Station latitude: 32.85  
 Station longitude: -117.12  
 Station elevation: 137.0  
 Showalter index: 9.12

Lifted index: 3.36  
 LIFT computed using virtual temperature: 3.12  
 SWEAT index: 49.01  
 K index: -22.70  
 Cross totals index: 2.70  
 Vertical totals index: 29.70  
 Totals totals index: 32.40  
 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: 281.87  
 Pres [hPa] of the Lifted Condensation Level: 874.38  
 Mean mixed layer potential temperature: 292.90  
 Mean mixed layer mixing ratio: 8.18  
 1000 hPa to 500 hPa thickness: 5633.00  
 Precipitable water [mm] for entire sounding: 8.66

## 72293 NKX San Diego Observations at 12Z 15 Apr 2015

PRES	HGHT	TEMP	DWPT	RELH	MIXR	DRCT	SKNT	THTA	THTE	THTV
hPa	m	C	C	%	g/kg	deg	knot	K	K	K
1000.0	119									
998.0	137	11.6	10.8	95	8.21	55	4	284.9	307.8	286.3
993.0	179	14.2	12.5	90	9.25	88	4	287.9	314.0	289.5
978.3	305	13.6	12.0	90	9.10	185	3	288.5	314.2	290.1
974.0	342	13.4	11.9	91	9.06	177	3	288.7	314.3	290.3
948.0	571	15.8	3.8	45	5.33	128	4	293.4	309.1	294.3
943.7	610	15.6	3.1	43	5.09	120	4	293.6	308.6	294.5
931.0	724	15.0	1.0	39	4.44	86	4	294.1	307.4	294.9
925.0	779	14.8	2.8	44	5.09	70	4	294.4	309.6	295.3
919.0	834	14.4	4.4	51	5.74	44	3	294.6	311.5	295.6
911.0	908	14.6	2.6	44	5.09	8	2	295.5	310.7	296.4
910.3	914	14.6	2.7	45	5.14	5	2	295.5	310.9	296.4
895.0	1057	13.6	5.6	58	6.41	5	4	296.0	314.9	297.1
891.0	1095	13.8	1.8	44	4.92	5	5	296.6	311.3	297.4
878.0	1219	13.6	-2.1	34	3.74	5	7	297.6	309.1	298.3
850.0	1491	13.2	-10.8	18	1.98	325	12	300.0	306.3	300.3
843.0	1560	13.0	-12.0	16	1.82	323	12	300.5	306.3	300.8
823.0	1762	13.6	-20.4	8	0.92	317	14	303.2	306.3	303.3
816.4	1829	13.2	-20.8	8	0.90	315	14	303.4	306.5	303.6
787.2	2134	11.5	-22.5	7	0.80	290	14	304.8	307.5	304.9
776.0	2254	10.8	-23.2	7	0.77	288	13	305.3	307.9	305.4
759.0	2438	10.3	-24.4	7	0.71	285	12	306.7	309.1	306.8
750.0	2537	10.0	-25.0	7	0.67	288	14	307.4	309.8	307.5
731.5	2743	8.2	-25.3	7	0.67	295	19	307.6	310.0	307.7
714.0	2942	6.4	-25.6	8	0.67	295	21	307.8	310.1	307.9
700.0	3104	5.2	-25.8	9	0.67	295	22	308.2	310.6	308.3
653.4	3658	1.4	-28.4	9	0.56	275	20	310.1	312.1	310.2
619.0	4093	-1.5	-30.5	9	0.49	268	21	311.6	313.3	311.6
605.5	4267	-3.0	-29.9	10	0.53	265	22	311.8	313.8	311.9
574.0	4687	-6.5	-28.5	16	0.64	289	24	312.5	314.8	312.6
560.1	4877	-7.5	-30.3	14	0.55	300	25	313.4	315.4	313.6
540.0	5161	-9.1	-33.1	12	0.44	305	26	314.9	316.5	315.0
500.0	5750	-13.7	-36.7	12	0.33	315	29	316.3	317.5	316.3

489.0	5919	-14.9	-38.9	11	0.27	315	28	316.8	317.9	316.9
477.4	6096	-16.6	-39.3	12	0.27	315	27	316.9	317.9	317.0
414.0	7152	-26.5	-41.5	23	0.24	319	35	317.3	318.3	317.4
400.0	7400	-28.5	-44.5	20	0.18	320	37	317.9	318.6	317.9
387.7	7620	-30.6	-44.3	25	0.19	325	39	318.0	318.7	318.0
358.0	8181	-35.9	-43.9	44	0.22	325	40	318.2	319.0	318.2
348.0	8377	-37.5	-49.5	27	0.12	325	40	318.6	319.1	318.6
328.0	8782	-40.9	-51.9	30	0.10	325	41	319.4	319.8	319.4
310.8	9144	-44.3	-50.8	48	0.12	325	42	319.5	320.0	319.5
309.0	9183	-44.7	-50.7	51	0.12	325	42	319.5	320.0	319.6
300.0	9380	-46.3	-52.3	50	0.10	325	44	320.0	320.4	320.0
272.0	10026	-52.3	-58.3	48	0.05	335	49	320.4	320.6	320.4
258.1	10363	-54.6	-61.3	44	0.04	340	52	321.7	321.9	321.7
250.0	10570	-56.1	-63.1	41	0.03	340	52	322.5	322.7	322.5
243.0	10750	-57.3	-65.3	35	0.02	334	50	323.4	323.5	323.4
231.0	11070	-57.7	-66.7	31	0.02	325	46	327.5	327.6	327.5
220.0	11376	-59.9	-68.9	30	0.02	315	43	328.7	328.8	328.7
215.0	11521	-55.7	-67.7	21	0.02	315	39	337.4	337.4	337.4
214.0	11550	-55.3	-68.3	18	0.02	315	39	338.4	338.5	338.4
212.9	11582	-55.5	-68.8	17	0.02	315	38	338.7	338.8	338.7
202.0	11917	-57.1	-74.1	10	0.01	286	38	341.2	341.2	341.2
200.0	11980	-56.1	-73.1	10	0.01	280	38	343.8	343.8	343.8
198.0	12044	-54.7	-72.7	9	0.01	277	38	347.0	347.0	347.0
196.0	12109	-54.1	-75.1	6	0.01	274	39	348.9	349.0	348.9
193.5	12192	-54.3	-76.2	5	0.01	270	39	349.9	350.0	349.9
185.0	12480	-54.9	-79.9	3	0.00	279	45	353.4	353.5	353.5
184.5	12497	-54.6	-80.0	3	0.00	280	45	354.2	354.2	354.2
182.0	12585	-53.3	-80.3	2	0.00	279	43	357.7	357.7	357.7
173.0	12911	-54.3	-84.3	1	0.00	277	36	361.3	361.3	361.3
169.0	13061	-53.9	-83.9	1	0.00	275	32	364.4	364.4	364.4
167.8	13106	-54.2	-84.1	1	0.00	275	31	364.6	364.6	364.6
156.0	13572	-57.3	-86.3	1	0.00	282	34	367.0	367.0	367.0
150.0	13820	-57.1	-86.1	1	0.00	285	35	371.5	371.5	371.5
143.0	14121	-58.1	-87.1	1	0.00	287	33	374.9	374.9	374.9
135.0	14480	-61.1	-88.1	2	0.00	288	32	375.8	375.8	375.8
129.0	14760	-62.3	-88.3	2	0.00	290	30	378.5	378.5	378.5
119.3	15240	-63.1	-89.1	2	0.00	295	31	385.7	385.7	385.7
114.0	15519	-63.5	-89.5	2	0.00	291	33	389.9	389.9	389.9
113.0	15573	-62.7	-89.7	2	0.00	290	33	392.4	392.4	392.4
108.0	15850	-63.7	-90.7	1	0.00	287	34	395.6	395.6	395.6
106.0	15965	-63.1	-90.1	2	0.00	285	35	398.9	398.9	398.9
103.0	16140	-64.5	-91.5	1	0.00	283	36	399.4	399.5	399.4
100.0	16320	-64.7	-90.7	2	0.00	280	37	402.4	402.5	402.4
95.1	16628	-63.5	-90.5	1	0.00	281	30	410.6	410.6	410.6
84.2	17374	-64.1	-90.6	2	0.00	285	13	423.9	423.9	423.9
76.3	17983	-64.6	-90.7	2	0.00	280	27	435.1	435.1	435.1
74.1	18159	-64.7	-90.7	2	0.00	286	22	438.4	438.4	438.4
72.6	18288	-63.7	-90.0	2	0.00	290	18	443.2	443.2	443.2
70.0	18510	-61.9	-88.9	2	0.00	255	19	451.6	451.6	451.6
69.1	18593	-61.2	-88.7	2	0.00	255	19	454.9	454.9	454.9
66.5	18829	-59.1	-88.1	1	0.00	332	17	464.4	464.4	464.4
65.8	18898	-59.6	-88.4	1	0.00	355	16	464.7	464.8	464.7
62.6	19202	-61.9	-89.9	1	0.00	20	18	466.4	466.4	466.4
58.3	19640	-65.1	-92.1	1	0.00	290	13	468.6	468.6	468.6
56.7	19812	-62.7	-90.6	1	0.00	255	11	477.9	477.9	477.9
54.8	20021	-59.7	-88.7	1	0.00	245	13	489.4	489.4	489.4
51.5	20407	-61.3	-90.3	1	0.00	226	16	494.4	494.4	494.4
51.4	20422	-61.2	-90.3	1	0.00	225	16	495.0	495.0	495.0
50.0	20590	-60.1	-90.1	1	0.00	270	14	501.4	501.4	501.4

48.9	20726	-59.9	-89.9	1	0.00	330	18	505.0	505.0	505.0
47.7	20884	-59.7	-89.7	1	0.00	345	19	509.2	509.2	509.2
44.4	21336	-62.0	-91.4	1	0.00	30	21	514.2	514.2	514.2
42.6	21586	-63.3	-92.3	1	0.00	26	17	517.0	517.0	517.0
40.2	21946	-62.4	-91.4	1	0.00	20	11	528.0	528.0	528.0
37.5	22374	-61.3	-90.3	1	0.00	14	8	541.3	541.3	541.3
35.4	22731	-61.9	-90.9	1	0.00	10	5	548.7	548.8	548.7
32.1	23343	-57.5	-89.5	1	0.00	2	1	576.0	576.1	576.0
31.5	23470	-57.7	-89.4	1	0.00	0	0	578.9	578.9	578.9
30.0	23770	-58.1	-89.1	1	0.00	60	4	585.7	585.7	585.7
27.2	24384	-58.7	-89.7	1	0.00	120	2	600.7	600.7	600.7
27.0	24433	-58.7	-89.7	1	0.00	116	2	601.9	601.9	601.9
25.1	24894	-55.9	-87.9	1	0.01	79	4	622.6	622.6	622.6
23.0	25451	-54.9	-86.9	1	0.01	35	6	641.3	641.4	641.3
21.4	25910	-56.7	-88.7	1	0.01	359	8	649.2	649.3	649.2
20.0	26340	-55.1	-87.1	1	0.01	325	10	666.8	666.9	666.8
19.0	26668	-53.7	-86.7	1	0.01	311	7	681.0	681.1	681.0
18.6	26822	-53.6	-86.6	1	0.01	305	6	686.0	686.2	686.0
17.7	27127	-53.3	-86.3	1	0.01	275	11	696.2	696.3	696.2
16.9	27432	-53.1	-86.1	1	0.01	285	16	706.5	706.7	706.5
16.1	27737	-52.8	-85.8	1	0.02	265	13	717.0	717.2	717.0
15.8	27855	-52.7	-85.7	1	0.02	267	16	721.1	721.3	721.1
15.3	28042	-52.1	-85.3	1	0.02	270	20	729.0	729.2	729.1
14.7	28346	-51.1	-84.7	1	0.02	250	19	742.2	742.4	742.2
14.0	28651	-50.1	-84.0	1	0.02	280	35	755.6	755.8	755.6
13.3	28956	-49.1	-83.4	1	0.03	280	23	769.2	769.5	769.2
12.7	29261	-48.0	-82.8	1	0.03	255	17	783.0	783.4	783.0
12.3	29489	-47.3	-82.3	1	0.04	257	20	793.5	794.0	793.5
10.7	30411	-46.9	-81.9	1	0.05	264	31	827.2	827.8	827.2
10.6	30480	-46.6	-81.7	1	0.05	265	32	830.6	831.2	830.6
10.1	30785	-45.6	-80.6	1	0.06	240	32	845.6	846.4	845.6
10.0	30860	-45.3	-80.3	1	0.06	245	31	849.3	850.1	849.4

## Station information and sounding indices

Station identifier: NKX  
 Station number: 72293  
 Observation time: 150415/1200  
 Station latitude: 32.85  
 Station longitude: -117.12  
 Station elevation: 137.0  
 Showalter index: 11.02  
 Lifted index: 7.72  
 LIFT computed using virtual temperature: 7.56  
 SWEAT index: 53.01  
 K index: -14.90  
 Cross totals index: 2.90  
 Vertical totals index: 26.90  
 Totals totals index: 29.80  
 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: 281.00  
 Pres [hPa] of the Lifted Condensation Level: 895.05  
 Mean mixed layer potential temperature: 290.06  
 Mean mixed layer mixing ratio: 7.71



1000 hPa to 500 hPa thickness: 5631.00  
 Precipitable water [mm] for entire sounding: 11.49

## 72293 NKX San Diego Observations at 00Z 16 Apr 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	103									
996.0	137	23.2	10.2	44	7.90	275	11	296.7	319.9	298.1
990.0	190	22.0	9.0	43	7.33	275	11	296.0	317.6	297.3
976.9	305	20.0	8.9	49	7.38	275	12	295.2	316.8	296.5
962.0	437	17.8	8.8	56	7.44	281	12	294.2	315.9	295.5
945.0	590	17.6	5.6	45	6.07	289	11	295.5	313.5	296.6
942.8	610	17.6	4.3	41	5.57	290	11	295.7	312.3	296.7
928.0	745	17.8	-4.2	22	3.03	298	8	297.2	306.6	297.8
925.0	773	17.8	-6.2	19	2.61	300	7	297.5	305.6	298.0
921.0	810	17.8	-5.2	20	2.83	300	6	297.9	306.7	298.4
909.8	914	17.3	-2.1	26	3.60	300	4	298.4	309.5	299.1
902.0	988	17.0	0.0	32	4.26	274	4	298.8	311.8	299.6
887.0	1130	16.4	-3.6	25	3.32	222	3	299.6	309.9	300.2
877.8	1219	15.6	-1.8	30	3.85	190	3	299.7	311.6	300.4
873.0	1265	15.2	-0.8	33	4.15	189	3	299.8	312.5	300.5
850.0	1490	13.4	-7.6	23	2.55	185	3	300.2	308.2	300.6
832.0	1669	11.8	-7.2	26	2.69	169	4	300.3	308.8	300.8
823.0	1760	11.4	-10.6	20	2.08	161	4	300.8	307.5	301.2
816.2	1829	10.8	-9.6	23	2.28	155	4	300.9	308.1	301.3
786.7	2134	8.0	-5.0	39	3.37	105	6	301.1	311.6	301.7
783.0	2173	7.6	-4.4	42	3.54	99	6	301.1	312.1	301.7
768.0	2332	6.6	-8.4	33	2.65	76	5	301.7	310.1	302.1
758.2	2438	6.3	-12.9	24	1.88	60	4	302.5	308.6	302.9
745.0	2581	6.0	-19.0	15	1.15	18	11	303.6	307.5	303.9
737.0	2670	6.6	-22.4	10	0.87	352	15	305.2	308.2	305.4
730.4	2743	6.1	-21.3	12	0.96	330	18	305.5	308.8	305.7
700.0	3090	3.8	-16.2	22	1.55	325	13	306.7	311.8	306.9
698.0	3113	3.6	-16.4	22	1.53	324	14	306.7	311.8	307.0
677.7	3353	3.2	-16.8	21	1.53	310	25	308.9	314.0	309.2
675.0	3385	3.2	-16.8	21	1.53	311	25	309.2	314.3	309.5
667.0	3482	3.6	-22.4	13	0.96	314	25	310.7	314.0	310.9
652.6	3658	2.1	-24.6	12	0.81	320	24	311.0	313.8	311.1
628.4	3962	-0.4	-28.3	10	0.59	330	33	311.4	313.6	311.5
626.0	3993	-0.7	-28.7	10	0.58	329	34	311.5	313.5	311.6
611.0	4187	-1.3	-29.3	10	0.56	323	37	312.9	315.0	313.1
604.8	4267	-1.9	-30.3	9	0.51	320	38	313.2	315.1	313.3
582.0	4572	-4.0	-34.1	8	0.37	320	40	314.2	315.6	314.3
570.0	4737	-5.1	-36.1	7	0.31	315	37	314.8	315.9	314.8
559.8	4877	-6.3	-36.9	7	0.29	310	35	314.9	316.1	315.0
500.0	5750	-13.9	-41.9	7	0.19	330	34	316.0	316.8	316.1
477.4	6096	-16.9	-42.9	9	0.18	330	38	316.6	317.3	316.6
455.0	6454	-19.9	-43.9	10	0.17	329	40	317.1	317.8	317.2
412.0	7178	-25.7	-50.7	8	0.09	326	43	318.8	319.2	318.8
400.0	7390	-27.7	-49.7	10	0.10	325	44	318.9	319.3	318.9
386.9	7620	-29.8	-50.6	11	0.10	325	44	319.2	319.6	319.2
310.4	9144	-43.6	-56.8	22	0.06	315	45	320.7	320.9	320.7
300.0	9380	-45.7	-57.7	25	0.05	315	42	320.8	321.1	320.8
296.9	9449	-46.3	-58.0	25	0.05	315	42	320.9	321.2	321.0
271.0	10050	-51.5	-60.5	33	0.04	335	47	321.9	322.0	321.9
261.0	10294	-53.5	-64.5	25	0.03	343	49	322.4	322.5	322.4

258.2	10363	-53.9	-65.2	24	0.02	345	50	322.8	322.9	322.8
252.0	10519	-54.9	-66.9	21	0.02	341	53	323.6	323.7	323.6
250.0	10570	-55.3	-66.3	24	0.02	340	54	323.7	323.8	323.7
240.0	10830	-57.1	-66.1	31	0.02	343	57	324.8	324.9	324.8
234.6	10973	-58.2	-67.9	27	0.02	345	58	325.3	325.4	325.3
233.0	11017	-58.5	-68.5	26	0.02	345	57	325.4	325.5	325.4
223.5	11278	-58.9	-70.5	21	0.01	325	45	328.7	328.8	328.7
210.0	11670	-59.5	-73.5	15	0.01	302	46	333.7	333.7	333.7
206.0	11791	-58.3	-73.3	13	0.01	295	47	337.4	337.5	337.4
205.0	11822	-55.3	-72.3	10	0.01	294	47	342.6	342.7	342.6
203.0	11885	-54.7	-73.7	8	0.01	290	47	344.5	344.6	344.5
202.9	11887	-54.7	-73.8	8	0.01	290	47	344.5	344.6	344.5
201.0	11948	-54.9	-75.9	6	0.01	290	46	345.2	345.2	345.2
200.0	11980	-54.3	-76.3	5	0.01	290	46	346.6	346.6	346.6
199.0	12012	-53.9	-76.9	4	0.01	291	47	347.8	347.8	347.8
194.0	12176	-54.1	-80.1	3	0.00	295	52	350.0	350.0	350.0
193.5	12192	-54.0	-80.2	3	0.00	295	52	350.4	350.4	350.4
189.0	12344	-52.7	-81.7	2	0.00	295	44	354.8	354.9	354.8
184.6	12497	-52.6	-82.2	2	0.00	295	36	357.4	357.5	357.4
182.0	12588	-52.5	-82.5	2	0.00	294	37	359.0	359.0	359.0
173.0	12915	-54.9	-84.9	1	0.00	292	41	360.3	360.3	360.3
170.0	13027	-53.9	-83.9	1	0.00	291	43	363.8	363.8	363.8
168.0	13103	-54.7	-84.7	1	0.00	290	44	363.7	363.7	363.7
167.9	13106	-54.7	-84.7	1	0.00	290	44	363.7	363.8	363.7
165.0	13219	-53.9	-84.9	1	0.00	299	37	366.9	366.9	366.9
160.1	13411	-54.0	-85.6	1	0.00	315	26	369.8	369.8	369.8
157.0	13538	-54.1	-86.1	1	0.00	303	22	371.8	371.8	371.8
152.7	13716	-55.4	-86.8	1	0.00	285	17	372.4	372.5	372.4
150.0	13830	-56.3	-87.3	1	0.00	285	17	372.9	372.9	372.9
138.6	14326	-60.0	-88.3	1	0.00	265	24	374.9	375.0	374.9
137.0	14399	-60.5	-88.5	1	0.00	267	25	375.2	375.2	375.2
133.0	14584	-59.9	-88.9	1	0.00	271	29	379.5	379.5	379.5
126.0	14920	-61.7	-89.7	1	0.00	280	36	382.2	382.2	382.2
125.7	14935	-61.7	-89.7	1	0.00	280	36	382.5	382.5	382.5
121.0	15170	-61.5	-89.5	1	0.00	276	36	387.0	387.0	387.0
119.6	15240	-61.7	-89.7	1	0.00	275	36	387.8	387.8	387.8
104.0	16100	-64.5	-91.5	1	0.00	270	26	398.4	398.4	398.4
100.0	16340	-63.9	-90.9	1	0.00	275	28	404.0	404.0	404.0
86.8	17211	-62.5	-90.5	1	0.00	291	25	423.5	423.5	423.5
82.7	17508	-64.7	-91.7	1	0.00	297	25	424.9	424.9	424.9
80.4	17678	-64.3	-91.6	1	0.00	300	24	429.0	429.0	429.0
76.5	17983	-63.7	-91.3	1	0.00	310	17	436.4	436.4	436.4
72.8	18289	-63.1	-91.1	1	0.00	335	11	444.1	444.1	444.1
72.8	18288	-63.1	-91.1	1	0.00	335	11	444.0	444.0	444.0
70.0	18530	-64.5	-91.5	1	0.00	290	3	446.1	446.1	446.1
69.3	18593	-64.7	-91.7	1	0.00	305	3	447.0	447.1	447.0
68.2	18689	-64.9	-91.9	1	0.00	297	6	448.5	448.5	448.5
65.9	18898	-63.4	-91.0	1	0.00	280	14	456.2	456.2	456.2
64.6	19020	-62.5	-90.5	1	0.00	266	14	460.8	460.8	460.8
62.8	19194	-63.7	-90.7	1	0.00	246	14	461.9	461.9	461.9
62.7	19202	-63.6	-90.7	1	0.00	245	14	462.2	462.2	462.2
61.3	19342	-62.3	-90.3	1	0.00	267	13	468.2	468.2	468.2
57.8	19704	-62.5	-90.5	1	0.00	323	11	475.7	475.7	475.7
56.8	19812	-61.2	-89.7	1	0.00	340	10	480.9	481.0	480.9
55.8	19922	-59.9	-88.9	1	0.00	360	11	486.4	486.4	486.4
54.1	20117	-61.4	-90.4	1	0.00	35	13	487.4	487.4	487.4
53.5	20183	-61.9	-90.9	1	0.00	44	14	487.7	487.7	487.7
51.5	20422	-62.2	-90.7	1	0.00	75	16	492.3	492.3	492.3
50.0	20600	-62.5	-90.5	1	0.00	105	9	495.8	495.8	495.8

47.3	20943	-63.5	-91.5	1	0.00	192	4	501.3	501.3	501.3
46.6	21031	-63.4	-91.5	1	0.00	215	3	503.7	503.7	503.7
44.4	21336	-62.9	-91.4	1	0.00	310	8	512.0	512.0	512.0
41.8	21706	-62.3	-91.3	1	0.00	336	9	522.3	522.3	522.3
40.6	21887	-60.1	-90.1	1	0.00	349	9	532.2	532.2	532.2
38.3	22250	-59.3	-89.3	1	0.00	15	10	543.1	543.1	543.1
37.8	22335	-59.1	-89.1	1	0.00	23	11	545.7	545.7	545.7
36.5	22555	-60.2	-89.4	1	0.00	45	15	548.3	548.3	548.3
36.2	22606	-60.5	-89.5	1	0.00	52	15	548.9	548.9	548.9
31.3	23514	-60.5	-89.5	1	0.00	170	6	572.1	572.2	572.1
30.0	23780	-58.7	-88.7	1	0.01	205	3	584.0	584.1	584.0
29.2	23950	-57.3	-88.3	1	0.01	285	8	592.4	592.5	592.4
28.6	24079	-57.3	-88.2	1	0.01	345	12	595.8	595.9	595.8
27.3	24384	-57.4	-87.9	1	0.01	350	7	603.9	604.0	603.9
25.5	24804	-57.5	-87.5	1	0.01	357	2	615.2	615.3	615.2
24.8	24994	-56.3	-87.1	1	0.01	0	0	623.9	623.9	623.9
23.6	25295	-54.5	-86.5	1	0.01	339	2	637.7	637.8	637.7
22.2	25684	-55.9	-86.9	1	0.01	312	5	644.8	644.9	644.8
20.0	26350	-53.7	-85.7	1	0.01	265	10	671.0	671.2	671.1
19.1	26646	-53.7	-85.7	1	0.01	261	12	679.9	680.1	679.9
18.6	26818	-52.3	-85.3	1	0.01	258	13	689.5	689.6	689.5
16.9	27432	-51.2	-84.2	1	0.02	250	17	712.0	712.2	712.0
16.8	27478	-51.1	-84.1	1	0.02	250	17	713.7	713.9	713.7
15.5	28007	-47.9	-81.9	1	0.03	254	21	740.8	741.2	740.8
13.2	29067	-48.1	-82.1	1	0.04	261	29	774.9	775.3	774.9
11.4	30039	-45.9	-80.9	1	0.05	267	37	816.0	816.6	816.0
10.9	30337	-47.3	-81.3	1	0.05	269	39	821.4	822.0	821.4
10.7	30480	-46.9	-81.2	1	0.05	270	40	827.9	828.6	827.9
10.0	30910	-45.7	-80.7	1	0.06	275	30	847.8	848.6	847.9
9.7	31113	-44.5	-80.5	1	0.06	269	32	859.8	860.6	859.8
8.5	32004	-43.3	-79.3	1	0.09	245	42	897.6	898.8	897.7
8.3	32160	-43.1	-79.1	1	0.09			904.4	905.7	904.5

## Station information and sounding indices

Station identifier: NKX  
 Station number: 72293  
 Observation time: 150416/0000  
 Station latitude: 32.85  
 Station longitude: -117.12  
 Station elevation: 137.0  
 Showalter index: 9.58  
 Lifted index: 4.95  
 LIFT computed using virtual temperature: 4.71  
 SWEAT index: 39.98  
 K index: -0.30  
 Cross totals index: 6.30  
 Vertical totals index: 27.30  
 Totals totals index: 33.60  
 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: 278.70  
 Pres [hPa] of the Lifted Condensation Level: 817.62  
 Mean mixed layer potential temperature: 295.21  
 Mean mixed layer mixing ratio: 7.04

1000 hPa to 500 hPa thickness: 5647.00  
 Precipitable water [mm] for entire sounding: 12.08

## 72293 NKX San Diego Observations at 12Z 16 Apr 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	113									
997.0	137	12.4	10.8	90	8.22	60	3	285.8	308.8	287.2
990.0	197	18.0	7.0	49	6.38	62	3	292.0	310.6	293.1
982.0	266	19.0	-2.0	24	3.38	64	4	293.7	303.9	294.3
977.6	305	18.7	-1.1	26	3.62	65	4	293.7	304.6	294.4
971.0	363	18.2	0.2	30	4.01	62	5	293.8	305.9	294.5
960.0	461	18.0	-11.0	13	1.73	57	6	294.6	300.0	294.9
943.3	610	17.0	-10.2	15	1.88	50	7	295.0	300.9	295.3
925.0	777	15.8	-9.2	17	2.07	45	7	295.5	301.9	295.8
912.0	897	15.2	-8.8	18	2.17	49	9	296.0	302.8	296.4
910.1	914	15.1	-9.1	18	2.12	50	9	296.1	302.8	296.5
877.8	1219	13.4	-14.8	13	1.39	60	17	297.4	301.9	297.6
871.0	1284	13.0	-16.0	12	1.27	60	18	297.7	301.8	297.9
850.0	1488	11.2	-16.8	12	1.21	60	21	297.9	301.8	298.1
846.3	1524	10.9	-16.8	13	1.22	55	21	297.9	301.9	298.1
815.5	1829	8.4	-16.5	15	1.29	50	17	298.4	302.7	298.7
785.9	2134	5.9	-16.3	19	1.37	50	12	298.9	303.4	299.2
773.0	2271	4.8	-16.2	20	1.40	26	12	299.2	303.7	299.4
757.2	2438	3.6	-14.1	26	1.70	355	11	299.6	305.1	300.0
729.2	2743	1.4	-10.3	41	2.40	325	12	300.5	308.1	301.0
721.0	2834	0.8	-9.2	47	2.65	326	12	300.8	309.2	301.3
708.0	2981	1.2	-17.8	23	1.34	329	13	302.8	307.2	303.0
702.1	3048	0.9	-18.1	23	1.32	330	13	303.2	307.6	303.4
700.0	3072	0.8	-18.2	23	1.31	325	20	303.3	307.7	303.6
696.0	3118	0.6	-19.4	21	1.19	323	22	303.6	307.6	303.8
690.0	3187	1.4	-20.6	18	1.08	321	26	305.3	308.9	305.5
675.9	3353	0.6	-23.9	14	0.82	315	34	306.1	309.0	306.3
673.0	3388	0.4	-24.6	13	0.78	315	34	306.3	309.0	306.5
667.0	3459	0.8	-24.2	13	0.81	315	33	307.6	310.4	307.7
650.6	3658	-0.8	-24.1	15	0.84	315	32	307.9	310.8	308.1
638.0	3814	-2.1	-24.1	17	0.86	320	33	308.2	311.2	308.4
608.0	4194	-4.3	-37.3	6	0.26	333	35	309.9	310.9	310.0
602.4	4267	-4.6	-36.7	6	0.28	335	35	310.4	311.4	310.5
560.0	4838	-6.9	-31.9	12	0.47	321	44	314.2	316.0	314.3
557.2	4877	-7.2	-32.0	12	0.47	320	45	314.3	316.1	314.4
535.5	5182	-9.5	-32.5	13	0.47	315	49	315.1	316.9	315.2
500.0	5710	-13.5	-33.5	17	0.46	305	46	316.5	318.2	316.6
474.8	6096	-17.0	-35.1	19	0.41	310	48	316.9	318.4	317.0
435.0	6750	-22.9	-37.9	24	0.34	315	51	317.4	318.7	317.5
407.0	7235	-26.3	-46.3	13	0.15	319	52	319.1	319.7	319.2
400.0	7360	-27.5	-46.5	15	0.15	320	53	319.2	319.8	319.2
385.4	7620	-29.8	-47.7	16	0.13	320	57	319.5	320.0	319.5
319.0	8945	-41.7	-53.7	26	0.08	320	60	320.8	321.1	320.8
309.8	9144	-43.2	-55.2	25	0.07	320	60	321.4	321.6	321.4
300.0	9360	-44.9	-56.9	25	0.06	325	61	322.0	322.2	322.0
259.0	10321	-53.0	-62.4	31	0.03	335	63	323.8	324.0	323.9
257.3	10363	-53.4	-62.7	31	0.03	335	63	323.9	324.1	323.9
253.0	10474	-54.3	-63.3	32	0.03	335	61	324.1	324.2	324.1
250.0	10550	-54.5	-63.5	32	0.03	335	59	324.9	325.0	324.9
243.0	10731	-54.5	-66.5	21	0.02	329	57	327.6	327.6	327.6

223.0	11278	-56.5	-69.4	18	0.01	310	50	332.6	332.7	332.6
221.0	11334	-56.7	-69.7	18	0.01	308	51	333.2	333.2	333.2
212.4	11582	-58.2	-71.2	17	0.01	300	57	334.7	334.7	334.7
205.0	11806	-59.5	-72.5	17	0.01	305	58	336.0	336.1	336.0
202.3	11887	-59.3	-72.3	17	0.01	305	58	337.6	337.6	337.6
200.0	11960	-59.1	-72.1	17	0.01	315	52	339.0	339.1	339.0
196.0	12087	-56.9	-71.9	13	0.01	307	44	344.5	344.5	344.5
192.8	12192	-56.9	-73.6	10	0.01	300	38	346.2	346.2	346.2
183.7	12497	-56.7	-78.7	5	0.00	285	51	351.2	351.2	351.2
182.0	12557	-56.7	-79.7	4	0.00	286	51	352.2	352.2	352.2
180.0	12627	-55.3	-80.3	3	0.00	287	51	355.6	355.6	355.6
176.0	12771	-54.7	-81.7	2	0.00	288	51	358.9	358.9	358.9
168.0	13068	-55.1	-84.1	2	0.00	292	50	363.0	363.0	363.0
163.0	13261	-54.3	-84.3	1	0.00	294	50	367.5	367.5	367.5
159.0	13420	-55.9	-85.9	1	0.00	296	49	367.4	367.4	367.4
152.0	13706	-56.7	-86.7	1	0.00	300	49	370.8	370.8	370.8
151.8	13716	-56.6	-86.7	1	0.00	300	49	371.1	371.1	371.1
150.0	13790	-55.9	-86.9	1	0.00	295	49	373.6	373.6	373.6
148.0	13875	-55.1	-86.1	1	0.00	299	46	376.4	376.4	376.4
146.0	13962	-55.1	-87.1	1	0.00	303	42	377.8	377.9	377.8
138.0	14321	-56.1	-88.1	1	0.00	320	28	382.2	382.2	382.2
137.9	14326	-56.1	-88.1	1	0.00	320	28	382.2	382.2	382.2
131.4	14630	-58.0	-89.0	1	0.00	300	19	384.1	384.1	384.1
126.0	14894	-59.7	-89.7	1	0.00	306	19	385.8	385.8	385.8
119.2	15240	-60.6	-90.6	1	0.00	315	19	390.3	390.3	390.3
117.0	15356	-60.9	-90.9	1	0.00	310	19	391.8	391.8	391.8
108.0	15849	-64.3	-91.3	1	0.00	290	21	394.5	394.5	394.5
105.0	16021	-63.3	-90.3	1	0.00	286	23	399.6	399.6	399.6
103.0	16139	-64.3	-91.3	1	0.00	284	25	399.8	399.8	399.8
100.0	16320	-63.9	-90.9	1	0.00	280	27	404.0	404.0	404.0
93.0	16764	-64.2	-91.2	1	0.00	260	13	411.9	411.9	411.9
84.2	17374	-64.5	-91.5	1	0.00	270	20	423.0	423.0	423.0
80.1	17678	-64.7	-91.7	1	0.00	305	17	428.7	428.7	428.7
76.7	17947	-64.9	-91.9	1	0.00	287	17	433.7	433.7	433.7
76.3	17983	-64.7	-91.8	1	0.00	285	17	434.8	434.8	434.8
72.6	18288	-63.4	-91.0	1	0.00	290	15	443.9	443.9	443.9
70.3	18484	-62.5	-90.5	1	0.00	334	11	449.8	449.8	449.8
70.0	18510	-62.5	-90.5	1	0.00	340	10	450.3	450.3	450.3
66.1	18863	-63.7	-90.7	1	0.00	358	1	455.2	455.2	455.2
65.7	18898	-63.6	-90.7	1	0.00	0	0	456.2	456.2	456.2
62.9	19168	-62.5	-90.5	1	0.00	3	1	464.3	464.3	464.3
57.9	19676	-64.3	-91.3	1	0.00	9	4	471.4	471.4	471.4
52.8	20244	-61.5	-90.5	1	0.00	16	6	490.4	490.4	490.4
50.1	20568	-63.5	-92.5	1	0.00	20	8	493.1	493.1	493.1
50.0	20580	-63.3	-92.3	1	0.00	20	8	493.9	493.9	493.9
45.3	21186	-62.7	-91.7	1	0.00	4	6	509.5	509.5	509.5
44.2	21336	-61.6	-91.3	1	0.00	0	6	515.6	515.7	515.7
43.7	21408	-61.1	-91.1	1	0.00	1	6	518.6	518.7	518.6
31.1	23499	-64.3	-93.3	1	0.00	36	8	563.0	563.0	563.0
30.0	23720	-62.7	-92.7	1	0.00	40	8	573.1	573.2	573.1
29.3	23866	-62.3	-92.3	1	0.00	24	10	578.1	578.1	578.1
28.5	24038	-59.5	-90.5	1	0.00	5	12	590.4	590.5	590.4
28.3	24079	-59.6	-90.6	1	0.00	0	13	591.3	591.3	591.3
27.0	24384	-60.4	-91.4	1	0.00	15	13	597.4	597.4	597.4
26.8	24421	-60.5	-91.5	1	0.00	19	13	598.1	598.1	598.1
25.7	24689	-58.3	-89.9	1	0.00	45	15	611.7	611.8	611.7
25.0	24858	-56.9	-88.9	1	0.01			620.4	620.5	620.4

## Station information and sounding indices

Station identifier: NKX  
 Station number: 72293  
 Observation time: 150416/1200  
 Station latitude: 32.85  
 Station longitude: -117.12  
 Station elevation: 137.0  
 Showalter index: 14.22  
 Lifted index: 13.55  
 LIFT computed using virtual temperature: 13.49  
 SWEAT index: 88.00  
 K index: -11.10  
 Cross totals index: -3.30  
 Vertical totals index: 24.70  
 Totals totals index: 21.40  
 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: 265.53  
 Pres [hPa] of the Lifted Condensation Level: 704.65  
 Mean mixed layer potential temperature: 293.47  
 Mean mixed layer mixing ratio: 3.50  
 1000 hPa to 500 hPa thickness: 5597.00  
 Precipitable water [mm] for entire sounding: 7.73

## 72293 NKX San Diego Observations at 00Z 17 Apr 2015

PRES	HGHT	TEMP	DWPT	RELH	MIXR	DRCT	SKNT	THTA	THTE	THTV
hPa	m	C	C	%	g/kg	deg	knot	K	K	K
1000.0	121									
998.0	137	25.4	0.4	19	3.96	320	11	298.7	310.9	299.4
993.0	181	24.4	0.4	21	3.98	311	11	298.1	310.3	298.9
978.9	305	22.4	-1.1	21	3.61	285	11	297.4	308.5	298.1
960.0	474	19.8	-3.2	21	3.16	271	11	296.4	306.1	296.9
945.0	610	19.6	-12.2	11	1.59	260	11	297.6	302.7	297.8
943.0	628	19.6	-13.4	10	1.45	260	11	297.7	302.4	298.0
925.0	793	18.4	-14.6	9	1.34	260	9	298.1	302.5	298.4
912.0	914	17.8	-16.2	9	1.19	275	7	298.7	302.6	298.9
912.0	914	17.8	-16.2	9	1.19	275	7	298.7	302.6	298.9
879.7	1219	15.1	-16.3	10	1.22	245	3	299.0	303.1	299.3
850.0	1509	12.6	-16.4	12	1.26	290	5	299.3	303.4	299.6
817.6	1829	9.8	-18.0	12	1.14	350	7	299.6	303.4	299.9
787.9	2134	7.0	-19.5	13	1.04	0	6	299.9	303.4	300.1
759.4	2438	4.3	-21.0	14	0.95	30	5	300.2	303.3	300.3
752.0	2518	3.6	-21.4	14	0.93	21	6	300.2	303.3	300.4
731.3	2743	2.6	-25.1	11	0.68	355	7	301.5	303.9	301.6
700.0	3096	1.0	-31.0	7	0.41	335	10	303.6	305.0	303.6
667.0	3482	-1.3	-34.3	6	0.32	301	11	305.2	306.3	305.2
652.4	3658	-1.3	-35.2	6	0.30	285	11	307.1	308.2	307.2
650.0	3688	-1.3	-35.3	6	0.29	287	12	307.5	308.5	307.5
613.0	4151	-4.7	-40.7	4	0.18	313	21	308.7	309.4	308.8
604.0	4267	-4.7	-44.4	3	0.12	320	23	310.0	310.5	310.1
601.0	4307	-4.7	-45.7	2	0.11	321	24	310.5	310.9	310.5

584.0	4531	-6.5	-45.5	3	0.11	326	27	310.9	311.4	311.0
558.6	4877	-7.7	-44.7	3	0.13	335	32	313.5	314.0	313.5
546.0	5055	-8.3	-44.3	4	0.14	335	35	314.8	315.4	314.9
516.2	5486	-12.0	-43.5	5	0.16	335	43	315.5	316.1	315.5
500.0	5730	-14.1	-43.1	7	0.17	335	42	315.8	316.4	315.8
476.0	6096	-17.2	-43.9	8	0.16	330	42	316.4	317.1	316.4
423.0	6975	-24.7	-45.7	12	0.15	319	42	317.7	318.3	317.7
414.0	7131	-25.3	-51.3	7	0.08	317	42	318.9	319.2	318.9
403.6	7315	-26.9	-51.5	8	0.08	315	42	319.1	319.4	319.1
400.0	7380	-27.5	-51.5	8	0.08	315	43	319.2	319.5	319.2
386.6	7620	-29.5	-52.4	9	0.08	320	45	319.6	320.0	319.7
341.0	8506	-36.9	-55.9	12	0.06	317	48	321.3	321.5	321.3
310.6	9144	-41.9	-60.9	11	0.03	315	50	323.0	323.2	323.0
300.0	9380	-43.7	-62.7	10	0.03	315	49	323.6	323.8	323.7
281.0	9817	-46.7	-64.7	11	0.02	317	49	325.4	325.6	325.4
250.0	10580	-53.3	-67.3	17	0.02	320	50	326.7	326.8	326.7
236.0	10948	-56.3	-67.3	24	0.02	325	50	327.6	327.7	327.6
235.1	10973	-56.4	-67.5	24	0.02	325	50	327.8	327.8	327.8
218.0	11449	-58.9	-70.9	20	0.01	315	51	331.1	331.1	331.1
213.4	11582	-58.7	-71.6	17	0.01	315	52	333.4	333.4	333.4
203.3	11887	-58.3	-73.2	13	0.01	320	41	338.7	338.7	338.7
203.0	11896	-58.3	-73.3	13	0.01	318	41	338.8	338.9	338.8
200.0	11990	-57.7	-73.7	11	0.01	300	36	341.2	341.3	341.2
197.0	12085	-57.5	-74.5	10	0.01	298	37	343.0	343.1	343.0
195.0	12150	-55.9	-72.9	10	0.01	296	38	346.6	346.6	346.6
193.7	12192	-55.8	-73.5	9	0.01	295	38	347.4	347.4	347.4
184.6	12497	-55.3	-78.0	4	0.00	310	41	353.0	353.0	353.0
184.0	12518	-55.3	-78.3	4	0.00	309	41	353.4	353.4	353.4
182.0	12588	-53.9	-77.9	4	0.01	306	41	356.7	356.8	356.7
180.0	12659	-53.3	-80.3	2	0.00	303	41	358.8	358.9	358.8
173.0	12913	-53.5	-83.5	1	0.00	293	40	362.6	362.6	362.6
167.8	13106	-54.9	-84.0	2	0.00	285	40	363.4	363.5	363.4
162.0	13332	-56.5	-84.5	2	0.00	296	43	364.4	364.4	364.4
160.0	13411	-56.0	-84.6	2	0.00	300	44	366.6	366.6	366.6
159.0	13450	-55.7	-84.7	2	0.00	300	42	367.7	367.7	367.7
151.0	13778	-55.9	-85.9	1	0.00	300	29	372.9	372.9	372.9
150.0	13820	-55.9	-85.9	1	0.00	300	27	373.6	373.6	373.6
145.3	14021	-57.1	-87.1	1	0.00	295	25	374.9	375.0	374.9
142.0	14168	-57.9	-87.9	1	0.00	291	28	376.0	376.0	376.0
138.0	14348	-58.1	-88.1	1	0.00	287	31	378.7	378.7	378.7
131.9	14630	-59.8	-89.0	1	0.00	280	36	380.6	380.6	380.6
130.0	14723	-60.3	-89.3	1	0.00	282	35	381.3	381.3	381.3
121.0	15170	-60.5	-90.5	1	0.00	293	31	388.8	388.8	388.8
119.7	15240	-60.8	-90.6	1	0.00	295	30	389.6	389.6	389.6
113.0	15595	-62.1	-91.1	1	0.00	300	26	393.5	393.5	393.5
106.0	15991	-61.9	-90.9	1	0.00	306	21	401.1	401.1	401.1
101.0	16289	-64.1	-92.1	1	0.00	310	18	402.5	402.5	402.5
100.0	16350	-64.1	-92.1	1	0.00	310	17	403.6	403.6	403.6
91.4	16899	-65.3	-92.3	1	0.00	301	16	411.7	411.8	411.7
89.4	17034	-63.5	-91.5	1	0.00	299	15	417.9	417.9	417.9
74.4	18157	-65.5	-92.5	1	0.00	282	12	436.2	436.3	436.2
72.8	18288	-64.5	-91.9	1	0.00	280	12	441.0	441.0	441.0
70.3	18504	-62.9	-90.9	1	0.00	280	9	448.9	448.9	448.9
70.0	18530	-62.9	-90.9	1	0.00	280	9	449.5	449.5	449.5
54.1	20117	-63.2	-92.0	1	0.00	325	3	483.1	483.2	483.1
50.0	20600	-63.3	-92.3	1	0.00	50	4	493.9	493.9	493.9
47.2	20954	-63.7	-91.7	1	0.00	55	4	501.1	501.1	501.1
44.4	21336	-62.6	-91.2	1	0.00	60	5	512.8	512.8	512.8
42.7	21571	-61.9	-90.9	1	0.00	81	7	520.1	520.1	520.1

41.7	21717	-62.9	-91.9	1	0.00	94	9	521.2	521.2	521.2
40.3	21928	-61.3	-91.3	1	0.00	113	11	530.3	530.3	530.3
40.2	21946	-61.3	-91.3	1	0.00	115	11	530.7	530.7	530.7
38.3	22250	-61.3	-91.3	1	0.00	120	13	538.1	538.1	538.1
34.7	22860	-61.4	-91.4	1	0.00	110	10	553.2	553.2	553.2
31.6	23437	-61.5	-91.5	1	0.00	91	8	567.9	567.9	567.9
30.0	23760	-59.9	-90.9	1	0.00	80	7	580.8	580.8	580.8
29.1	23951	-58.1	-89.1	1	0.00	65	11	590.8	590.8	590.8
28.5	24079	-58.5	-89.2	1	0.00	55	14	593.1	593.2	593.1
27.1	24384	-59.5	-89.6	1	0.00	75	13	598.8	598.9	598.8
26.8	24466	-59.7	-89.7	1	0.00	63	12	600.3	600.4	600.4
24.7	24978	-56.7	-88.7	1	0.01	350	5	623.1	623.2	623.1
23.5	25298	-56.6	-88.2	1	0.01	305	1	632.5	632.5	632.5
22.0	25711	-56.5	-87.5	1	0.01	305	8	644.7	644.8	644.7
21.2	25947	-53.9	-86.9	1	0.01	305	12	659.4	659.5	659.4
20.3	26213	-53.9	-86.9	1	0.01	305	16	667.2	667.4	667.2
20.0	26320	-53.9	-86.9	1	0.01	305	18	670.4	670.5	670.4
19.4	26518	-54.2	-86.5	1	0.01	320	16	675.5	675.7	675.5
19.1	26615	-54.3	-86.3	1	0.01	318	16	678.1	678.2	678.1
17.6	27127	-52.2	-85.0	1	0.02	305	17	700.3	700.5	700.3
16.8	27432	-50.9	-84.3	1	0.02	320	24	713.9	714.1	713.9
16.1	27737	-49.6	-83.6	1	0.02	330	16	727.7	728.0	727.7
16.0	27763	-49.5	-83.5	1	0.02	328	16	728.9	729.2	728.9
15.3	28042	-49.8	-83.5	1	0.02	305	19	736.7	737.0	736.8
14.1	28589	-50.5	-83.5	1	0.03	305	28	752.4	752.6	752.4
14.0	28651	-50.3	-83.5	1	0.03	305	29	754.9	755.2	754.9
13.3	28971	-49.5	-83.5	1	0.03	321	21	768.4	768.8	768.5
12.9	29172	-47.5	-82.5	1	0.03	331	16	782.1	782.5	782.1
12.7	29261	-47.8	-82.6	1	0.03	335	14	784.0	784.4	784.0
12.2	29566	-49.0	-83.1	1	0.03	300	17	790.3	790.7	790.3
12.1	29594	-49.1	-83.1	1	0.03	300	18	790.9	791.3	790.9
11.1	30164	-46.1	-81.1	1	0.05	297	31	821.5	822.1	821.5
10.6	30480	-45.4	-80.8	1	0.06	295	39	835.4	836.0	835.4
10.0	30860	-44.5	-80.5	1	0.06	290	36	852.3	853.1	852.4
9.6	31133	-44.1	-80.1	1	0.07	282	39	863.8	864.7	863.9
9.3	31348	-41.3	-78.3	1	0.09	276	41	882.4	883.6	882.4
9.2	31394	-41.2	-78.2	1	0.10	275	41	884.4	885.6	884.4
9.0	31570	-40.9	-77.9	1	0.10			892.2	893.6	892.2

## Station information and sounding indices

Station identifier: NKX  
 Station number: 72293  
 Observation time: 150417/0000  
 Station latitude: 32.85  
 Station longitude: -117.12  
 Station elevation: 137.0  
 Showalter index: 12.52  
 Lifted index: 10.35  
 LIFT computed using virtual temperature: 10.22  
 SWEAT index: 51.98  
 K index: -21.70  
 Cross totals index: -2.30  
 Vertical totals index: 26.70  
 Totals totals index: 24.40  
 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: 264.64  
 Pres [hPa] of the Lifted Condensation Level: 665.39  
 Mean mixed layer potential temperature: 297.32  
 Mean mixed layer mixing ratio: 3.17  
 1000 hPa to 500 hPa thickness: 5609.00  
 Precipitable water [mm] for entire sounding: 5.08

## 72293 NKX San Diego Observations at 12Z 17 Apr 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	137	12.4	-2.6	35	3.17	70	6	285.6	294.9	286.1
996.0	171	16.2	0.2	34	3.91	45	5	289.7	301.2	290.4
994.0	188	17.2	0.2	32	3.92	32	5	290.9	302.5	291.5
980.5	305	17.7	-4.9	21	2.71	305	3	292.5	300.8	293.0
968.0	415	18.2	-9.8	14	1.89	319	6	294.1	300.0	294.4
946.2	610	17.3	-10.7	14	1.80	345	10	295.1	300.7	295.4
925.0	804	16.4	-11.6	14	1.71	345	8	296.1	301.5	296.4
913.0	914	15.9	-12.7	13	1.59	340	8	296.7	301.7	296.9
883.0	1197	14.6	-15.4	11	1.31	335	8	298.2	302.4	298.4
880.7	1219	14.5	-15.3	11	1.32	335	8	298.2	302.6	298.5
850.0	1517	12.6	-14.4	14	1.48	335	4	299.3	304.1	299.6
818.3	1829	10.2	-14.4	16	1.53	15	2	300.1	305.1	300.4
788.5	2134	7.9	-14.5	19	1.59	35	12	300.8	305.9	301.1
759.8	2438	5.6	-14.5	22	1.64	40	18	301.5	306.8	301.8
732.1	2743	3.2	-14.6	26	1.70	40	21	302.1	307.7	302.4
711.0	2983	1.4	-14.6	29	1.74	33	19	302.6	308.3	303.0
700.0	3108	0.6	-15.4	29	1.66	30	18	303.1	308.5	303.4
683.0	3305	-0.3	-18.3	24	1.33	16	17	304.2	308.7	304.5
653.1	3658	-2.9	-20.0	26	1.21	350	16	305.2	309.3	305.5
628.5	3962	-5.1	-21.4	27	1.11	350	13	306.1	309.8	306.3
620.0	4069	-5.9	-21.9	27	1.07	338	18	306.4	310.0	306.6
613.0	4158	-6.5	-23.5	25	0.94	328	21	306.7	309.9	306.8
607.0	4235	-5.3	-26.3	17	0.74	319	25	308.9	311.5	309.1
604.5	4267	-5.3	-28.0	15	0.63	315	26	309.3	311.5	309.4
597.0	4365	-5.3	-33.3	9	0.39	318	27	310.4	311.8	310.5
587.0	4497	-5.9	-42.9	4	0.15	322	27	311.2	311.8	311.2
558.9	4877	-8.8	-41.1	5	0.19	335	30	312.2	312.9	312.2
528.0	5316	-12.1	-39.1	9	0.25	327	34	313.3	314.2	313.4
510.0	5580	-13.3	-41.3	8	0.20	323	36	315.0	315.8	315.0
500.0	5730	-14.7	-42.7	7	0.18	320	37	315.1	315.8	315.1
476.0	6096	-17.6	-45.0	7	0.14	320	39	315.9	316.4	315.9
456.9	6401	-20.1	-47.0	7	0.12	315	40	316.5	317.0	316.6
423.0	6974	-24.7	-50.7	7	0.09	315	37	317.7	318.0	317.7
400.0	7380	-27.5	-52.5	7	0.07	315	34	319.2	319.5	319.2
386.4	7620	-29.5	-53.4	8	0.07	315	37	319.8	320.0	319.8
310.4	9144	-42.0	-59.0	14	0.04	315	38	322.9	323.1	323.0
300.0	9380	-43.9	-59.9	15	0.04	315	37	323.4	323.5	323.4
275.0	9954	-48.9	-62.9	18	0.03	315	37	324.3	324.4	324.3
253.0	10494	-52.9	-64.9	22	0.02	315	37	326.2	326.3	326.2
250.0	10570	-53.3	-65.3	22	0.02	315	37	326.7	326.8	326.7
246.2	10668	-53.7	-66.0	21	0.02	315	37	327.5	327.6	327.5
235.0	10968	-55.1	-68.1	18	0.02	325	41	329.8	329.9	329.8
234.8	10973	-55.1	-68.1	18	0.02	325	41	329.8	329.9	329.8
229.0	11133	-56.5	-69.5	18	0.01	330	39	330.1	330.2	330.1

226.0	11217	-56.3	-68.3	21	0.02	333	38	331.7	331.7	331.7
223.8	11278	-56.6	-68.6	21	0.02	335	37	332.1	332.2	332.1
213.4	11582	-58.1	-70.1	20	0.01	320	25	334.3	334.4	334.3
211.0	11652	-58.5	-70.5	20	0.01	315	27	334.8	334.9	334.8
203.3	11887	-58.7	-71.5	18	0.01	295	34	338.1	338.2	338.1
202.0	11927	-58.7	-71.7	17	0.01	295	36	338.7	338.7	338.7
201.0	11958	-58.3	-71.3	17	0.01	295	37	339.8	339.9	339.8
200.0	11990	-57.9	-71.9	15	0.01	295	38	340.9	341.0	340.9
195.0	12151	-54.3	-74.3	7	0.01	295	40	349.1	349.2	349.1
190.0	12318	-52.9	-77.9	3	0.00	295	41	354.0	354.0	354.0
184.8	12497	-53.1	-80.7	2	0.00	295	43	356.5	356.6	356.5
184.0	12524	-53.1	-81.1	2	0.00	295	43	356.9	356.9	356.9
180.0	12666	-52.3	-81.3	2	0.00	294	42	360.5	360.5	360.5
160.2	13411	-56.0	-84.1	2	0.00	290	35	366.3	366.3	366.3
160.0	13420	-56.1	-84.1	2	0.00	291	35	366.4	366.4	366.4
153.0	13704	-55.7	-84.7	2	0.00	314	35	371.8	371.8	371.8
152.7	13716	-55.8	-84.8	2	0.00	315	35	371.9	371.9	371.9
150.0	13830	-56.3	-85.3	1	0.00	310	32	372.9	372.9	372.9
141.0	14221	-58.5	-86.5	2	0.00	286	30	375.7	375.7	375.7
138.7	14326	-58.3	-86.5	2	0.00	280	29	377.8	377.8	377.8
132.2	14630	-57.7	-86.7	1	0.00	315	21	384.1	384.1	384.1
132.0	14637	-57.7	-86.7	1	0.00	315	21	384.2	384.3	384.2
128.0	14832	-58.3	-87.3	1	0.00	305	18	386.6	386.6	386.6
125.9	14935	-59.1	-87.8	1	0.00	300	17	386.9	386.9	386.9
122.0	15132	-60.7	-88.7	1	0.00	294	20	387.5	387.5	387.5
119.9	15240	-61.2	-89.0	1	0.00	290	21	388.5	388.5	388.5
113.0	15607	-62.9	-89.9	2	0.00	276	24	392.0	392.0	392.0
110.0	15773	-62.3	-89.3	2	0.00	269	26	396.1	396.2	396.1
106.0	16001	-64.1	-90.1	2	0.00	260	28	396.9	397.0	396.9
102.0	16238	-62.7	-88.7	2	0.00	267	25	404.0	404.0	404.0
100.0	16360	-63.3	-89.3	2	0.00	270	24	405.2	405.2	405.2
88.8	17083	-65.7	-90.7	2	0.00	284	25	414.4	414.4	414.4
85.7	17299	-62.9	-87.9	2	0.00	289	25	424.2	424.2	424.2
84.7	17374	-63.1	-88.1	2	0.00	290	25	425.3	425.4	425.3
80.5	17678	-63.9	-88.9	2	0.00	285	20	429.9	429.9	429.9
76.6	17983	-64.6	-89.6	2	0.00	280	15	434.4	434.4	434.4
73.4	18244	-65.3	-90.3	2	0.00	297	12	438.4	438.4	438.4
72.9	18288	-65.5	-90.4	2	0.00	300	11	438.8	438.8	438.8
70.0	18530	-66.9	-90.9	2	0.00	285	3	440.9	440.9	440.9
69.3	18593	-67.4	-91.4	2	0.00	280	3	441.2	441.2	441.2
68.8	18634	-67.7	-91.7	2	0.00	278	4	441.4	441.4	441.4
65.1	18969	-65.1	-89.1	2	0.00	265	9	454.1	454.1	454.1
62.7	19202	-65.3	-89.3	2	0.00	255	12	458.7	458.7	458.7
62.1	19257	-65.3	-89.3	2	0.00	261	12	459.8	459.8	459.8
55.7	19924	-62.1	-89.1	2	0.00	328	11	481.6	481.6	481.6
50.0	20590	-63.3	-90.3	1	0.00	35	11	493.9	493.9	493.9
46.7	21009	-64.9	-90.9	2	0.00	343	1	499.8	499.8	499.8
46.5	21031	-64.8	-90.8	2	0.00	340	1	500.6	500.6	500.6
44.3	21336	-63.3	-89.9	2	0.00	60	2	511.3	511.3	511.3
42.5	21588	-62.1	-89.1	2	0.00	14	9	520.3	520.4	520.3
42.1	21641	-62.3	-89.3	2	0.00	5	11	521.0	521.0	521.0
39.0	22117	-64.5	-91.5	1	0.00	48	16	527.2	527.2	527.2
38.2	22250	-64.0	-91.2	1	0.00	60	17	531.7	531.8	531.7
35.2	22748	-62.1	-90.1	1	0.00	52	12	549.1	549.1	549.1
34.6	22860	-62.0	-90.1	1	0.00	50	11	552.2	552.2	552.2
31.3	23470	-61.5	-90.2	1	0.00	80	12	569.2	569.3	569.2
30.0	23740	-61.3	-90.3	1	0.00	70	13	577.0	577.0	577.0
28.4	24079	-61.1	-90.1	1	0.00	40	14	586.6	586.6	586.6
27.0	24393	-60.9	-89.9	1	0.00	85	17	595.7	595.8	595.7

27.0	24384	-60.9	-89.9	1	0.00	85	17	595.4	595.5	595.4
25.8	24689	-59.0	-88.7	1	0.01	100	11	609.2	609.3	609.2
25.3	24799	-58.3	-88.3	1	0.01	95	12	614.3	614.4	614.3
24.5	24994	-58.1	-88.2	1	0.01	85	14	620.3	620.4	620.3
23.4	25298	-57.8	-88.2	1	0.01	75	10	629.8	629.9	629.8
21.2	25908	-57.2	-88.0	1	0.01	100	14	649.2	649.3	649.2
20.1	26248	-56.9	-87.9	1	0.01	123	8	660.3	660.4	660.3
20.0	26280	-56.5	-87.5	1	0.01	125	7	662.5	662.6	662.5
19.3	26518	-55.2	-86.8	1	0.01	175	6	673.7	673.8	673.7
18.4	26822	-53.5	-85.8	1	0.01	230	11	688.2	688.4	688.2
17.7	27063	-52.1	-85.1	1	0.02	238	18	700.0	700.1	700.0
17.5	27127	-52.0	-85.0	1	0.02	240	20	702.1	702.3	702.1
16.7	27432	-51.8	-84.5	1	0.02	270	27	712.4	712.6	712.4
15.9	27737	-51.5	-84.0	1	0.02	285	32	722.9	723.1	722.9
14.7	28267	-51.1	-83.1	1	0.03	315	27	741.4	741.8	741.5
14.5	28346	-50.8	-83.1	1	0.03	320	26	745.0	745.3	745.0
13.5	28823	-49.1	-83.1	1	0.03	316	32	766.5	766.9	766.5
13.2	28956	-49.2	-82.8	1	0.03	315	34	770.7	771.1	770.8
12.8	29172	-49.3	-82.3	1	0.04	336	35	777.6	778.0	777.6
12.6	29261	-48.7	-82.0	1	0.04	345	36	782.6	783.1	782.6
12.1	29566	-46.9	-80.9	1	0.05	320	22	799.5	800.0	799.5
12.1	29543	-46.9	-80.9	1	0.05	322	23	798.7	799.2	798.7
11.5	29870	-46.9	-80.9	1	0.05	305	40	810.0	810.6	810.0
11.4	29937	-46.9	-80.9	1	0.05			812.4	813.0	812.4

## Station information and sounding indices

Station identifier: NKX  
 Station number: 72293  
 Observation time: 150417/1200  
 Station latitude: 32.85  
 Station longitude: -117.12  
 Station elevation: 137.0  
 Showalter index: 11.45  
 Lifted index: 14.08  
 LIFT computed using virtual temperature: 14.00  
 SWEAT index: 45.01  
 K index: -3.10  
 Cross totals index: 0.30  
 Vertical totals index: 27.30  
 Totals totals index: 27.60  
 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: 261.68  
 Pres [hPa] of the Lifted Condensation Level: 673.49  
 Mean mixed layer potential temperature: 292.99  
 Mean mixed layer mixing ratio: 2.48  
 1000 hPa to 500 hPa thickness: 5593.00  
 Precipitable water [mm] for entire sounding: 6.97

## 72293 NKX San Diego Observations at 00Z 18 Apr 2015

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PRES	HGHT	TEMP	DWPT	RELH	MIXR	DRCT	SKNT	THTA	THTE	THTV
hPa	m	C	C	%	g/kg	deg	knot	K	K	K

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1000.0	126									
999.0	137	23.6	3.6	27	4.98	310	14	296.8	311.8	297.7
990.0	215	22.2	3.2	29	4.89	310	16	296.2	310.9	297.1
979.7	305	20.9	2.6	30	4.74	310	18	295.8	310.0	296.6
962.0	462	18.6	1.6	32	4.49	313	19	295.0	308.4	295.8
945.4	610	17.9	-1.6	27	3.63	315	19	295.8	306.8	296.4
942.0	641	17.8	-2.2	26	3.47	313	19	296.0	306.6	296.6
935.0	704	18.6	-8.4	15	2.18	310	18	297.4	304.3	297.8
925.0	796	19.2	-9.8	13	1.97	305	17	298.9	305.2	299.3
920.0	842	19.4	-11.6	11	1.72	305	15	299.6	305.1	299.9
912.4	914	19.1	-12.9	10	1.56	305	13	300.0	305.1	300.3
905.0	983	18.8	-14.2	9	1.42	304	12	300.4	305.0	300.6
880.2	1219	16.9	-13.0	12	1.61	300	9	300.9	306.1	301.1
850.0	1516	14.6	-11.4	15	1.89	310	5	301.4	307.5	301.8
818.3	1829	11.9	-12.0	18	1.87	325	9	301.8	307.9	302.2
788.5	2134	9.2	-12.6	20	1.86	350	6	302.2	308.2	302.5
759.9	2438	6.5	-13.1	23	1.84	10	3	302.5	308.5	302.8
732.2	2743	3.8	-13.7	26	1.82	20	8	302.8	308.7	303.1
700.0	3113	0.6	-14.4	32	1.80	20	7	303.1	309.0	303.4
665.0	3523	-3.1	-17.1	33	1.51	24	12	303.4	308.4	303.7
653.7	3658	-3.2	-19.7	27	1.23	25	13	304.8	308.9	305.0
647.0	3740	-3.3	-21.3	23	1.09	16	17	305.6	309.3	305.8
636.0	3876	-2.3	-31.3	9	0.44	360	23	308.2	309.8	308.3
629.1	3962	-2.8	-33.0	8	0.38	350	27	308.6	310.0	308.6
605.3	4267	-4.8	-38.9	5	0.22	350	32	309.8	310.6	309.8
589.0	4482	-6.1	-43.1	4	0.14	345	32	310.6	311.2	310.7
579.0	4617	-5.9	-47.9	2	0.09	341	31	312.4	312.8	312.4
560.0	4877	-7.0	-45.2	3	0.12	335	31	314.1	314.5	314.1
559.0	4892	-7.1	-45.1	3	0.12	335	31	314.1	314.6	314.2
538.3	5182	-9.7	-45.0	4	0.13	345	33	314.5	315.0	314.5
500.0	5750	-14.7	-44.7	6	0.14	340	31	315.1	315.6	315.1
477.2	6096	-17.5	-46.0	6	0.13	330	30	315.9	316.4	315.9
457.9	6401	-19.9	-47.1	7	0.12	315	31	316.5	317.0	316.6
427.0	6919	-24.1	-49.1	8	0.10	321	32	317.6	318.0	317.6
404.2	7315	-27.1	-51.3	8	0.08	325	33	318.7	319.1	318.7
400.0	7390	-27.7	-51.7	8	0.08	325	32	318.9	319.2	318.9
387.0	7620	-29.6	-52.8	9	0.07	320	32	319.4	319.7	319.4
370.4	7925	-32.1	-54.3	9	0.06	310	33	320.1	320.4	320.1
324.7	8839	-39.7	-58.7	12	0.04	325	36	321.9	322.1	321.9
310.8	9144	-42.3	-60.1	12	0.04	325	36	322.4	322.6	322.4
300.0	9390	-44.3	-61.3	13	0.03	325	36	322.8	322.9	322.8
288.0	9663	-46.9	-61.9	16	0.03	325	37	322.9	323.0	322.9
273.0	10016	-48.7	-65.7	12	0.02	325	38	325.2	325.3	325.2
250.0	10590	-53.3	-69.3	13	0.01	325	39	326.7	326.8	326.7
246.0	10693	-54.1	-70.1	12	0.01	322	37	327.0	327.1	327.0
235.5	10973	-54.4	-70.4	12	0.01	315	33	330.6	330.7	330.6
226.0	11236	-54.7	-70.7	12	0.01	293	40	334.1	334.2	334.1
224.5	11278	-55.1	-71.4	11	0.01	290	41	334.2	334.2	334.2
222.0	11350	-55.7	-72.7	10	0.01	285	46	334.3	334.3	334.3
214.1	11582	-53.8	-75.3	6	0.01	290	52	340.7	340.7	340.7
208.0	11767	-52.3	-77.3	3	0.00	294	46	345.9	345.9	345.9
200.0	12020	-52.7	-80.7	2	0.00	300	38	349.1	349.2	349.1
199.0	12052	-52.7	-80.7	2	0.00	299	37	349.6	349.7	349.6
194.8	12192	-52.0	-81.0	2	0.00	295	35	352.9	352.9	352.9
190.0	12352	-51.3	-81.3	2	0.00	296	37	356.6	356.6	356.6
177.2	12802	-55.1	-83.3	2	0.00	300	44	357.5	357.5	357.5
176.0	12845	-55.5	-83.5	2	0.00	300	43	357.5	357.6	357.5
170.0	13065	-56.3	-84.3	2	0.00	298	37	359.8	359.8	359.8

166.0	13217	-56.5	-84.5	2	0.00	297	33	361.9	361.9	361.9
161.0	13411	-55.5	-84.5	2	0.00	295	28	366.8	366.8	366.8
161.0	13411	-55.5	-84.5	2	0.00	295	28	366.8	366.8	366.8
150.0	13860	-57.5	-86.5	1	0.00	285	30	370.8	370.8	370.8
146.0	14030	-58.3	-86.3	2	0.00	283	34	372.3	372.3	372.3
143.0	14161	-56.7	-85.7	1	0.00	282	37	377.3	377.3	377.3
139.3	14326	-58.4	-86.8	1	0.00	280	41	377.2	377.2	377.2
136.0	14476	-59.9	-87.9	1	0.00	282	40	377.1	377.1	377.1
123.0	15100	-61.7	-88.7	2	0.00	288	34	384.8	384.8	384.8
120.2	15240	-63.0	-90.0	2	0.00	290	33	384.9	384.9	384.9
120.0	15253	-63.1	-90.1	2	0.00	290	33	385.0	385.0	385.0
114.4	15545	-63.4	-89.6	2	0.00	290	32	389.6	389.6	389.6
113.0	15621	-63.5	-89.5	2	0.00	287	30	390.9	390.9	390.9
110.0	15787	-62.9	-89.9	2	0.00	281	26	395.0	395.0	395.0
105.0	16072	-64.3	-90.3	2	0.00	271	19	397.6	397.6	397.6
100.0	16370	-63.9	-89.9	2	0.00	260	11	404.0	404.0	404.0
89.2	17069	-65.2	-90.5	2	0.00	270	23	414.8	414.8	414.8
85.6	17318	-65.7	-90.7	2	0.00	270	19	418.7	418.7	418.7
80.7	17678	-65.0	-90.0	2	0.00	270	14	427.4	427.4	427.4
78.9	17814	-64.7	-89.7	2	0.00	283	12	430.6	430.7	430.6
73.0	18288	-66.2	-91.2	2	0.00	330	5	437.2	437.2	437.2
70.3	18514	-66.9	-91.9	2	0.00	312	8	440.4	440.4	440.4
70.0	18540	-66.7	-91.7	2	0.00	310	8	441.4	441.4	441.4
67.6	18752	-66.5	-91.5	2	0.00	295	4	446.2	446.2	446.2
66.0	18898	-64.9	-90.6	2	0.00	285	1	452.7	452.7	452.7
63.1	19174	-61.9	-88.9	2	0.00	271	4	465.2	465.2	465.2
59.5	19537	-63.7	-90.7	1	0.00	254	7	469.1	469.1	469.1
56.9	19812	-62.8	-89.8	2	0.00	240	10	477.2	477.2	477.2
56.2	19889	-62.5	-89.5	2	0.00	243	11	479.5	479.5	479.5
54.2	20117	-62.8	-89.8	2	0.00	250	14	483.9	483.9	483.9
50.0	20610	-63.5	-90.5	1	0.00	295	4	493.4	493.4	493.4
46.5	21055	-64.7	-90.7	2	0.00	231	3	500.9	500.9	500.9
44.4	21336	-63.6	-90.5	1	0.00	190	3	510.1	510.1	510.1
42.3	21641	-62.5	-90.3	1	0.00	285	1	520.3	520.3	520.3
42.0	21680	-62.3	-90.3	1	0.00	290	2	521.6	521.6	521.6
36.5	22555	-62.9	-90.1	1	0.00	50	14	541.5	541.5	541.5
35.2	22770	-63.1	-90.1	2	0.00	51	14	546.5	546.5	546.5
31.4	23470	-61.4	-89.1	1	0.00	55	12	569.0	569.0	569.0
30.0	23760	-60.7	-88.7	1	0.01	40	8	578.6	578.6	578.6
28.0	24189	-60.9	-88.9	1	0.01	37	11	589.5	589.6	589.5
27.2	24370	-59.3	-88.3	1	0.01	35	12	598.9	599.0	598.9
27.1	24384	-59.3	-88.3	1	0.01	35	12	599.2	599.3	599.2
25.8	24689	-60.3	-88.7	1	0.01	15	12	605.0	605.0	605.0
25.0	24896	-60.9	-88.9	1	0.01	56	13	609.0	609.0	609.0
24.6	24994	-60.6	-88.7	1	0.01	75	14	612.7	612.7	612.7
23.4	25298	-59.5	-88.0	1	0.01	55	13	624.4	624.4	624.4
22.2	25638	-58.3	-87.3	1	0.01	55	12	637.7	637.8	637.7
20.3	26213	-55.2	-85.0	1	0.01	55	11	663.9	664.1	663.9
20.0	26300	-54.7	-84.7	1	0.02	55	11	668.0	668.1	668.0
19.4	26496	-53.1	-84.1	1	0.02	64	9	678.8	679.0	678.8
18.6	26767	-54.3	-84.3	1	0.02	78	6	683.2	683.4	683.2
17.6	27127	-52.8	-83.4	1	0.02	95	3	699.0	699.2	699.0
17.0	27347	-51.9	-82.9	1	0.02	174	4	708.7	709.0	708.7
16.8	27432	-50.7	-82.5	1	0.03	205	5	715.1	715.4	715.1
16.4	27581	-48.7	-81.7	1	0.03	225	10	726.4	726.7	726.4
15.5	27952	-49.5	-81.5	1	0.03	273	23	735.6	735.9	735.6
15.3	28042	-48.8	-81.2	1	0.04	285	26	740.7	741.1	740.8
14.9	28212	-47.5	-80.5	1	0.04	293	24	750.5	751.0	750.6
13.9	28651	-48.5	-81.5	1	0.04	315	19	761.8	762.2	761.8

13.7	28766	-48.7	-81.7	1	0.04	298	17	764.7	765.1	764.7
13.3	28956	-48.0	-81.2	1	0.04	270	15	773.4	773.9	773.4
12.7	29261	-46.9	-80.4	1	0.05	280	26	787.5	788.0	787.5
12.1	29566	-45.8	-79.6	1	0.06	300	21	801.8	802.5	801.8
11.8	29755	-45.1	-79.1	1	0.07	291	20	810.8	811.6	810.9
11.6	29870	-45.7	-79.4	1	0.06	285	20	812.8	813.6	812.8
11.1	30162	-47.1	-80.1	1	0.06	283	20	817.9	818.6	817.9
10.6	30480	-44.9	-79.2	1	0.07	280	21	837.0	837.9	837.0
10.3	30662	-43.7	-78.7	1	0.08	280	27	848.1	849.1	848.1
10.0	30860	-44.5	-78.5	1	0.08	280	33	852.3	853.4	852.4
9.7	31090	-45.6	-79.6	1	0.07	270	36	856.5	857.4	856.5
9.7	31063	-45.7	-79.7	1	0.07	271	36	855.2	856.2	855.3
9.2	31416	-44.9	-78.9	1	0.09	269	37	871.3	872.5	871.4
8.9	31639	-41.9	-77.9	1	0.10	268	38	891.2	892.6	891.2
8.3	32110	-43.7	-78.7	1	0.10	267	40	902.1	903.4	902.1
7.7	32615	-42.7	-77.7	1	0.13			925.6	927.3	925.7
7.7	32614	-42.7	-77.7	1	0.13	265	42	925.6	927.3	925.6

## Station information and sounding indices

Station identifier: NKX  
 Station number: 72293  
 Observation time: 150418/0000  
 Station latitude: 32.85  
 Station longitude: -117.12  
 Station elevation: 137.0  
 Showalter index: 9.23  
 Lifted index: 8.22  
 LIFT computed using virtual temperature: 8.06  
 SWEAT index: 40.99  
 K index: 2.90  
 Cross totals index: 3.30  
 Vertical totals index: 29.30  
 Totals totals index: 32.60  
 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: 270.98  
 Pres [hPa] of the Lifted Condensation Level: 736.77  
 Mean mixed layer potential temperature: 295.70  
 Mean mixed layer mixing ratio: 4.48  
 1000 hPa to 500 hPa thickness: 5624.00  
 Precipitable water [mm] for entire sounding: 8.45

## 72293 NKX San Diego Observations at 12Z 18 Apr 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	137	12.4	2.4	50	4.57	215	3	285.6	298.7	286.3
995.0	179	15.6	6.6	55	6.18	219	3	289.2	306.9	290.2
991.0	213	15.8	6.8	55	6.29	222	3	289.7	307.8	290.8
986.0	256	16.0	1.0	36	4.19	226	2	290.3	302.7	291.1
982.0	291	16.0	0.0	34	3.91	229	2	290.6	302.2	291.3
980.3	305	16.3	-0.2	32	3.86	230	2	291.1	302.6	291.8

976.0	343	17.2	-0.8	29	3.71	240	3	292.4	303.5	293.0
958.0	501	18.2	-5.8	19	2.60	281	8	294.9	303.0	295.4
945.8	610	17.9	-6.1	19	2.57	310	12	295.7	303.7	296.2
943.0	635	17.8	-6.2	19	2.56	311	12	295.9	303.8	296.3
934.0	717	19.2	-9.8	13	1.95	313	11	298.1	304.3	298.5
925.0	800	19.4	-13.6	10	1.45	315	11	299.1	303.9	299.4
912.8	914	18.8	-15.1	9	1.31	315	12	299.6	303.9	299.9
910.0	940	18.6	-15.4	9	1.27	314	12	299.7	303.9	299.9
880.5	1219	16.4	-14.7	11	1.39	305	12	300.2	304.8	300.5
850.0	1518	14.0	-14.0	13	1.53	310	13	300.8	305.8	301.1
849.4	1524	14.0	-14.1	13	1.52	290	14	300.8	305.8	301.1
836.0	1658	13.4	-16.6	11	1.26	321	13	301.6	305.8	301.8
819.1	1829	12.4	-12.5	16	1.80	0	11	302.3	308.1	302.6
813.0	1891	12.0	-11.0	19	2.04	2	10	302.5	309.1	302.9
789.4	2134	9.9	-12.6	19	1.85	10	4	302.8	308.8	303.1
760.9	2438	7.2	-14.5	20	1.64	15	8	303.1	308.5	303.4
734.0	2734	4.6	-16.4	20	1.45	30	10	303.4	308.2	303.7
733.2	2743	4.6	-16.8	19	1.41	30	10	303.5	308.1	303.7
720.0	2891	4.0	-24.0	11	0.77	40	11	304.4	307.1	304.6
706.2	3048	2.9	-25.8	10	0.67	50	12	304.9	307.2	305.0
700.0	3119	2.4	-26.6	10	0.62	35	10	305.1	307.3	305.2
687.0	3270	2.0	-33.0	5	0.35	32	10	306.3	307.6	306.4
679.9	3353	1.6	-33.7	5	0.33	30	10	306.7	307.9	306.8
654.3	3658	-0.1	-36.3	5	0.26	5	2	308.2	309.2	308.3
629.8	3962	-1.7	-38.8	4	0.21	0	0	309.8	310.6	309.8
607.0	4256	-3.3	-41.3	3	0.17	87	4	311.2	311.9	311.2
606.2	4267	-3.4	-41.2	4	0.17	90	4	311.2	311.9	311.2
567.0	4789	-8.5	-38.5	7	0.24	35	6	311.2	312.1	311.3
560.5	4877	-9.0	-39.0	7	0.23	25	6	311.6	312.5	311.7
533.0	5265	-11.3	-41.3	6	0.19	350	17	313.4	314.2	313.5
517.7	5486	-13.3	-40.1	9	0.23	330	23	313.6	314.5	313.7
500.0	5750	-15.7	-38.7	12	0.27	335	20	313.8	314.9	313.9
477.5	6096	-18.3	-39.4	14	0.26	325	18	314.8	315.8	314.8
466.0	6279	-19.7	-39.7	15	0.26	323	19	315.2	316.2	315.3
421.0	7028	-24.5	-52.5	6	0.07	314	25	318.4	318.7	318.4
400.0	7400	-27.7	-53.7	7	0.06	310	28	318.9	319.2	318.9
387.9	7620	-29.8	-54.1	8	0.06	310	28	319.0	319.3	319.0
378.0	7804	-31.5	-54.5	8	0.06	310	28	319.1	319.3	319.1
350.0	8345	-35.1	-64.1	4	0.02	310	28	321.3	321.4	321.3
311.4	9144	-42.2	-63.6	8	0.02	310	29	322.3	322.4	322.3
300.0	9400	-44.5	-63.5	10	0.02	305	26	322.5	322.6	322.5
284.4	9754	-47.5	-65.0	11	0.02	295	25	323.3	323.4	323.3
278.0	9904	-48.7	-65.7	12	0.02	293	26	323.6	323.7	323.6
250.0	10590	-54.7	-65.7	24	0.02	285	33	324.6	324.7	324.6
243.0	10772	-54.9	-67.9	18	0.02	280	38	327.0	327.0	327.0
236.0	10959	-53.9	-68.9	14	0.02	275	44	331.2	331.3	331.2
235.5	10973	-53.9	-69.1	14	0.01	275	44	331.4	331.4	331.4
217.0	11497	-54.9	-74.9	7	0.01	280	50	337.7	337.7	337.7
212.0	11646	-53.7	-75.7	5	0.01	281	52	341.8	341.9	341.8
200.0	12020	-54.3	-76.3	5	0.01	285	56	346.6	346.6	346.6
194.7	12192	-54.9	-76.2	6	0.01	280	58	348.3	348.4	348.3
193.0	12248	-55.1	-76.1	6	0.01	280	56	348.9	348.9	348.9
176.0	12837	-54.3	-80.3	3	0.00	280	39	359.5	359.5	359.5
170.0	13059	-55.9	-81.9	3	0.00	280	32	360.4	360.4	360.4
168.8	13106	-55.6	-82.2	2	0.00	280	31	361.7	361.7	361.7
159.0	13487	-53.3	-84.3	1	0.00	277	30	371.8	371.8	371.8
150.0	13860	-55.5	-86.5	1	0.00	275	29	374.2	374.3	374.2
148.0	13945	-55.9	-86.9	1	0.00	275	29	375.0	375.0	375.0
145.0	14076	-55.7	-86.7	1	0.00	276	29	377.5	377.6	377.6

138.0	14389	-57.1	-88.1	1	0.00	277	30	380.4	380.5	380.5
131.0	14716	-59.5	-89.5	1	0.00	278	31	381.9	381.9	381.9
121.0	15210	-62.1	-91.1	1	0.00	280	32	385.9	385.9	385.9
120.4	15240	-62.0	-90.9	1	0.00	280	32	386.5	386.5	386.5
115.0	15524	-61.5	-89.5	1	0.00	280	30	392.6	392.6	392.6
107.0	15967	-64.3	-91.3	1	0.00	280	27	395.5	395.5	395.5
100.0	16380	-64.9	-91.9	1	0.00	275	29	402.1	402.1	402.1
75.1	18122	-66.9	-91.9	2	0.00	280	16	432.2	432.2	432.2
73.1	18288	-65.8	-91.3	2	0.00	280	15	438.0	438.0	438.0
71.6	18412	-64.9	-90.9	2	0.00	287	11	442.3	442.4	442.3
70.0	18550	-65.5	-91.5	2	0.00	295	6	443.9	443.9	443.9
67.0	18815	-65.7	-91.7	2	0.00	268	3	449.1	449.1	449.1
66.1	18898	-65.3	-91.5	2	0.00	260	2	451.8	451.8	451.8
60.2	19469	-62.3	-90.3	1	0.00	240	5	470.6	470.6	470.6
57.7	19729	-63.3	-91.3	1	0.00	231	6	474.1	474.1	474.1
55.4	19980	-61.9	-90.9	1	0.00	222	8	482.8	482.8	482.8
50.0	20610	-63.3	-92.3	1	0.00	200	11	493.9	493.9	493.9
44.4	21341	-63.5	-92.5	1	0.00	140	7	510.4	510.5	510.4
44.4	21336	-63.5	-92.5	1	0.00	140	7	510.4	510.4	510.4
42.5	21609	-65.1	-93.1	1	0.00	160	11	512.9	512.9	512.9
40.2	21946	-63.1	-92.2	1	0.00	185	17	526.0	526.0	526.0
38.3	22250	-61.3	-91.3	1	0.00	240	14	538.1	538.1	538.1
38.3	22249	-61.3	-91.3	1	0.00	240	14	538.1	538.1	538.1
36.5	22555	-61.6	-91.7	1	0.00	290	10	544.8	544.8	544.8
35.2	22773	-61.9	-91.9	1	0.00	309	8	549.6	549.6	549.6
34.2	22952	-60.3	-91.3	1	0.00	325	7	558.4	558.4	558.4
31.5	23470	-60.3	-91.3	1	0.00	10	2	571.8	571.8	571.8
30.2	23729	-60.3	-91.3	1	0.00	23	9	578.6	578.6	578.6
30.0	23774	-60.1	-91.1	1	0.00	25	10	580.4	580.4	580.4
30.0	23770	-60.1	-91.1	1	0.00	25	10	580.2	580.2	580.2
29.1	23960	-58.7	-89.7	1	0.00	37	11	589.1	589.2	589.1
28.6	24079	-58.9	-89.9	1	0.00	45	12	591.9	591.9	591.9
27.2	24384	-59.3	-90.3	1	0.00	35	16	598.9	599.0	598.9
25.0	24908	-60.1	-91.1	1	0.00	28	12	611.2	611.3	611.2
23.5	25295	-57.7	-89.7	1	0.01	23	9	629.1	629.2	629.1
20.3	26213	-57.3	-89.3	1	0.01	10	1	657.0	657.1	657.0
20.0	26310	-57.3	-89.3	1	0.01	300	2	660.0	660.1	660.0
16.8	27432	-51.7	-85.3	1	0.02	260	11	711.9	712.0	711.9
16.1	27705	-50.3	-84.3	1	0.02	251	14	725.0	725.2	725.0
15.3	28042	-50.6	-84.6	1	0.02	240	17	734.8	735.1	734.8
15.0	28167	-50.7	-84.7	1	0.02	250	19	738.5	738.7	738.5
13.9	28651	-49.5	-83.7	1	0.03	290	28	758.2	758.5	758.2
13.3	28956	-48.7	-83.1	1	0.03	335	14	770.9	771.3	771.0
12.7	29261	-48.0	-82.4	1	0.04	300	15	783.9	784.3	783.9
12.1	29566	-47.2	-81.8	1	0.04	300	21	797.0	797.5	797.0
11.6	29870	-46.4	-81.2	1	0.05	275	12	810.2	810.8	810.3
10.7	30398	-45.1	-80.1	1	0.06	284	23	833.8	834.6	833.8
10.6	30480	-45.2	-80.2	1	0.06	285	25	836.5	837.2	836.5
10.1	30785	-45.4	-80.4	1	0.06	265	28	846.4	847.2	846.5
10.0	30850	-45.5	-80.5	1	0.06	265	27	848.6	849.4	848.6
9.9	30917	-45.9	-80.9	1	0.06			849.5	850.3	849.6

## Station information and sounding indices

Station identifier: NKX  
 Station number: 72293  
 Observation time: 150418/1200  
 Station latitude: 32.85  
 Station longitude: -117.12



Station elevation: 137.0  
 Showalter index: 9.36  
 Lifted index: 11.10  
 LIFT computed using virtual temperature: 11.02  
 SWEAT index: 46.00  
 K index: -13.30  
 Cross totals index: 1.70  
 Vertical totals index: 29.70  
 Totals totals index: 31.40  
 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: 267.98  
 Pres [hPa] of the Lifted Condensation Level: 736.15  
 Mean mixed layer potential temperature: 292.51  
 Mean mixed layer mixing ratio: 3.73  
 1000 hPa to 500 hPa thickness: 5613.00  
 Precipitable water [mm] for entire sounding: 6.63

## 72293 NKX San Diego Observations at 00Z 19 Apr 2015

PRES	HGHT	TEMP	DWPT	RELH	MIXR	DRCT	SKNT	THTA	THTE	THTV
hPa	m	C	C	%	g/kg	deg	knot	K	K	K
1000.0	118									
998.0	137	25.0	4.0	26	5.13	295	10	298.3	313.8	299.2
984.0	260	22.8	1.8	25	4.45	291	11	297.3	310.8	298.1
978.9	305	21.9	0.9	25	4.18	290	11	296.8	309.5	297.6
973.0	357	20.8	-0.2	25	3.89	292	12	296.3	308.1	297.0
958.0	490	19.6	-2.4	22	3.36	296	13	296.4	306.6	297.0
949.0	571	19.6	-7.4	15	2.32	299	14	297.2	304.4	297.6
944.7	610	19.4	-7.4	16	2.32	300	15	297.3	304.6	297.8
925.0	790	18.4	-7.6	16	2.34	295	13	298.1	305.5	298.5
918.0	855	18.0	-8.0	16	2.29	285	11	298.4	305.6	298.8
911.7	914	18.2	-10.5	13	1.89	275	10	299.2	305.2	299.5
902.0	1005	18.6	-14.4	9	1.40	282	9	300.5	305.1	300.7
880.0	1216	17.6	-8.4	16	2.32	300	8	301.6	309.0	302.0
879.7	1219	17.6	-8.4	16	2.31	300	8	301.6	309.0	302.0
850.0	1510	15.2	-10.8	16	1.98	315	10	302.1	308.5	302.4
818.1	1829	12.7	-13.3	15	1.69	345	3	302.8	308.3	303.1
788.8	2134	10.4	-15.6	14	1.44	0	0	303.4	308.1	303.6
763.0	2412	8.2	-17.8	14	1.24	237	3	304.0	308.1	304.2
760.6	2438	8.1	-18.7	13	1.16	225	3	304.1	308.0	304.3
743.0	2630	7.0	-25.0	8	0.68	178	7	305.0	307.3	305.1
739.0	2675	7.0	-19.0	14	1.16	167	8	305.4	309.4	305.6
732.9	2743	6.4	-18.2	15	1.26	150	10	305.5	309.7	305.7
706.0	3048	3.6	-14.4	25	1.78	122	8	305.7	311.6	306.0
700.0	3117	3.2	-15.8	23	1.60	115	8	306.0	311.3	306.3
680.0	3351	1.6	-21.4	16	1.02	81	7	306.8	310.2	306.9
670.0	3470	1.6	-31.4	7	0.42	63	6	308.1	309.6	308.1
654.4	3658	0.1	-33.3	6	0.36	35	5	308.4	309.7	308.5
625.0	4024	-2.9	-36.9	5	0.26	11	6	309.1	310.1	309.1
607.0	4255	-2.3	-36.3	5	0.28	356	6	312.4	313.4	312.4
606.0	4267	-2.4	-36.3	5	0.28	355	6	312.4	313.4	312.4
560.0	4877	-8.2	-36.8	8	0.29	310	11	312.7	313.8	312.8

508.0	5631	-15.3	-37.3	13	0.31	310	11	312.9	314.1	313.0
500.0	5750	-16.1	-38.1	13	0.29	310	11	313.4	314.4	313.4
480.0	6056	-17.9	-46.9	6	0.12	314	13	314.8	315.3	314.8
477.4	6096	-18.3	-46.9	6	0.12	315	13	314.8	315.3	314.9
458.2	6401	-21.0	-46.5	8	0.13	300	12	315.1	315.6	315.1
443.0	6650	-23.3	-46.3	10	0.14	304	16	315.3	315.8	315.3
439.6	6706	-23.7	-46.8	10	0.13	305	17	315.5	316.0	315.5
421.6	7010	-25.7	-49.4	9	0.10	280	21	316.7	317.1	316.7
413.0	7160	-26.7	-50.7	8	0.09	282	23	317.3	317.6	317.3
404.2	7315	-28.1	-51.4	9	0.08	285	25	317.5	317.9	317.5
400.0	7390	-28.7	-51.7	9	0.08	285	24	317.6	317.9	317.6
386.9	7620	-30.6	-53.0	9	0.07	285	21	318.1	318.4	318.1
354.3	8230	-35.7	-56.6	10	0.05	275	15	319.4	319.6	319.4
310.4	9144	-43.3	-61.9	11	0.03	265	23	321.0	321.2	321.0
300.0	9380	-45.3	-63.3	11	0.03	270	26	321.4	321.5	321.4
296.9	9449	-45.8	-63.0	13	0.03	275	27	321.7	321.8	321.7
296.0	9469	-45.9	-62.9	13	0.03	275	28	321.8	321.9	321.8
276.0	9933	-48.1	-68.1	8	0.01	271	44	325.1	325.2	325.1
257.0	10400	-51.1	-68.1	11	0.02	267	61	327.4	327.4	327.4
253.0	10502	-50.7	-66.7	13	0.02	266	64	329.4	329.5	329.4
250.0	10580	-51.1	-66.1	15	0.02	265	67	330.0	330.1	330.0
246.6	10668	-51.6	-67.0	14	0.02	265	67	330.5	330.6	330.5
242.0	10791	-52.3	-68.3	13	0.02	266	67	331.2	331.3	331.2
222.0	11350	-53.1	-76.1	4	0.01	270	68	338.3	338.3	338.3
216.0	11526	-54.5	-77.5	4	0.00	271	68	338.8	338.8	338.8
212.0	11646	-54.1	-76.1	5	0.01	272	68	341.2	341.2	341.2
200.0	12020	-55.1	-78.1	4	0.00	275	69	345.4	345.4	345.4
194.7	12192	-55.5	-78.7	4	0.00	275	79	347.4	347.4	347.4
191.0	12312	-55.8	-79.2	4	0.00	275	79	348.8	348.8	348.8
176.0	12831	-57.1	-81.1	3	0.00	275	64	354.9	354.9	354.9
173.0	12939	-58.1	-82.1	3	0.00	275	61	355.0	355.0	355.0
166.0	13200	-56.9	-81.9	3	0.00	275	53	361.2	361.2	361.2
159.0	13471	-57.7	-84.7	2	0.00	275	46	364.4	364.4	364.4
152.0	13756	-56.1	-87.1	1	0.00	275	37	371.8	371.8	371.8
150.0	13840	-56.5	-87.5	1	0.00	275	35	372.5	372.5	372.5
145.8	14021	-56.6	-88.0	1	0.00	275	32	375.4	375.4	375.4
141.0	14232	-56.7	-88.7	1	0.00	275	32	378.8	378.8	378.8
132.0	14648	-58.9	-89.9	1	0.00	275	31	382.1	382.1	382.1
129.0	14793	-59.1	-90.1	1	0.00	275	30	384.3	384.3	384.3
126.1	14935	-57.8	-89.7	1	0.00	275	30	389.2	389.2	389.2
126.0	14941	-57.7	-89.7	1	0.00	274	30	389.4	389.4	389.4
120.1	15240	-59.6	-90.9	1	0.00	240	29	391.3	391.3	391.3
118.0	15352	-60.3	-91.3	1	0.00	240	32	392.0	392.0	392.0
114.4	15545	-60.6	-91.7	1	0.00	240	37	394.8	394.8	394.8
110.0	15789	-61.1	-92.1	1	0.00	256	41	398.4	398.4	398.4
108.9	15850	-60.9	-91.9	1	0.00	260	42	399.9	399.9	399.9
107.0	15961	-60.5	-91.5	1	0.00	264	38	402.7	402.7	402.7
100.0	16380	-62.9	-92.9	1	0.00	280	24	405.9	405.9	405.9
94.9	16701	-64.7	-94.7	1	0.00	260	22	408.5	408.5	408.5
87.3	17211	-64.3	-93.3	1	0.00	260	18	419.2	419.2	419.2
82.0	17593	-65.9	-93.9	1	0.00	260	15	423.5	423.5	423.5
77.2	17961	-63.7	-92.7	1	0.00	260	12	435.4	435.4	435.4
73.2	18288	-64.3	-93.3	1	0.00	260	10	440.9	440.9	440.9
70.5	18517	-64.7	-93.7	1	0.00	252	13	444.7	444.7	444.7
70.0	18560	-64.7	-93.7	1	0.00	250	13	445.6	445.6	445.6
68.0	18737	-62.5	-92.5	1	0.00	259	12	454.1	454.1	454.1
62.9	19217	-61.7	-91.7	1	0.00	282	8	466.1	466.1	466.1
57.1	19812	-62.0	-92.0	1	0.00	310	3	478.6	478.6	478.6
50.0	20630	-62.3	-92.3	1	0.00	120	2	496.2	496.3	496.2

48.0	20881	-63.5	-93.5	1	0.00	108	3	499.2	499.2	499.2
45.0	21279	-61.7	-91.7	1	0.00	88	4	512.9	512.9	512.9
44.6	21336	-61.7	-91.7	1	0.00	85	4	514.3	514.3	514.3
42.5	21641	-61.5	-91.9	1	0.00	55	11	521.9	521.9	521.9
40.4	21946	-61.4	-92.1	1	0.00	120	13	529.6	529.6	529.6
38.8	22198	-61.3	-92.3	1	0.00	141	17	536.1	536.1	536.1
38.5	22250	-61.1	-92.1	1	0.00	145	18	537.9	538.0	537.9
36.6	22555	-59.7	-90.7	1	0.00	245	11	549.0	549.1	549.0
34.9	22860	-58.3	-89.3	1	0.00	237	8	560.4	560.4	560.4
30.2	23774	-59.1	-90.1	1	0.00	215	1	582.1	582.1	582.1
30.0	23810	-59.1	-90.1	1	0.00	295	3	582.9	583.0	582.9
27.6	24332	-59.5	-90.5	1	0.00	90	5	595.9	595.9	595.9
27.4	24384	-59.4	-90.5	1	0.00	105	5	597.5	597.5	597.5
22.1	25728	-57.9	-89.9	1	0.01	153	3	639.7	639.8	639.7
20.5	26213	-56.8	-88.8	1	0.01	170	2	657.1	657.2	657.1
20.0	26360	-56.5	-88.5	1	0.01	150	7	662.5	662.6	662.5
19.5	26521	-55.5	-87.5	1	0.01	162	8	670.4	670.5	670.4
18.7	26788	-56.3	-88.3	1	0.01	182	10	676.0	676.0	676.0
18.6	26822	-56.0	-88.1	1	0.01	185	10	677.9	678.0	677.9
16.9	27432	-50.6	-84.5	1	0.02	240	20	713.8	714.0	713.8
16.2	27737	-47.9	-82.7	1	0.03	235	24	732.2	732.5	732.2
16.0	27800	-47.3	-82.3	1	0.03	251	24	736.1	736.4	736.1
15.4	28042	-47.8	-82.4	1	0.03	310	23	742.4	742.7	742.4
14.7	28346	-48.3	-82.5	1	0.03	295	17	750.3	750.7	750.3
14.5	28450	-48.5	-82.5	1	0.03	271	17	753.1	753.4	753.1
14.1	28651	-47.5	-81.9	1	0.03	225	16	763.1	763.5	763.1
13.6	28874	-46.3	-81.3	1	0.04	251	26	774.5	775.0	774.5
13.4	28956	-46.4	-81.3	1	0.04	260	30	777.0	777.5	777.0
13.0	29174	-46.5	-81.5	1	0.04	289	21	783.8	784.3	783.9
12.8	29261	-46.2	-81.2	1	0.04	300	18	787.9	788.4	787.9
12.5	29436	-45.5	-80.5	1	0.05	283	15	796.2	796.8	796.2
12.3	29566	-43.6	-79.4	1	0.06	270	13	807.4	808.1	807.4
12.2	29599	-43.1	-79.1	1	0.06	271	13	810.2	810.9	810.2
11.7	29870	-42.4	-78.4	1	0.07	280	17	821.9	822.8	822.0
11.2	30175	-41.7	-77.7	1	0.09	270	11	835.3	836.4	835.4
11.1	30238	-41.5	-77.5	1	0.09	268	13	838.1	839.2	838.2
10.7	30489	-39.5	-76.5	1	0.11	260	20	854.3	855.6	854.3
10.7	30480	-39.6	-76.5	1	0.11	260	20	853.7	855.1	853.8
10.2	30785	-41.0	-77.2	1	0.10	270	30	859.4	860.6	859.4
10.1	30882	-41.5	-77.5	1	0.10	276	29	861.0	862.3	861.1
10.0	30950	-41.5	-77.5	1	0.10	280	29	863.5	864.8	863.5
8.9	31699	-41.6	-77.7	1	0.11	270	40	890.6	892.0	890.7
8.6	31972	-41.7	-77.7	1	0.11			900.7	902.2	900.8

## Station information and sounding indices

Station identifier: NKX  
 Station number: 72293  
 Observation time: 150419/0000  
 Station latitude: 32.85  
 Station longitude: -117.12  
 Station elevation: 137.0  
 Showalter index: 7.24  
 Lifted index: 7.49  
 LIFT computed using virtual temperature: 7.36  
 SWEAT index: 31.00  
 K index: 1.50  
 Cross totals index: 5.30  
 Vertical totals index: 31.30

Totals totals index: 36.60  
 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: 267.41  
 Pres [hPa] of the Lifted Condensation Level: 692.81  
 Mean mixed layer potential temperature: 296.98  
 Mean mixed layer mixing ratio: 3.73  
 1000 hPa to 500 hPa thickness: 5632.00  
 Precipitable water [mm] for entire sounding: 7.40

## 72293 NKX San Diego Observations at 12Z 19 Apr 2015

PRES	HGHT	TEMP	DWPT	RELH	MIXR	DRCT	SKNT	THTA	THTE	THTV
hPa	m	C	C	%	g/kg	deg	knot	K	K	K
1000.0	119									
998.0	137	11.8	11.2	96	8.43	70	3	285.1	308.6	286.6
991.0	196	13.8	13.7	99	10.03	107	3	287.7	315.9	289.4
978.3	305	13.6	13.4	99	9.96	175	3	288.5	316.5	290.2
971.0	368	13.4	13.2	99	9.91	195	3	289.0	316.9	290.7
954.0	518	16.4	1.4	36	4.46	241	2	293.5	306.8	294.3
947.0	581	17.4	2.4	37	4.83	261	2	295.1	309.5	296.0
943.7	610	17.4	2.4	37	4.83	270	2	295.3	309.8	296.2
935.0	689	17.2	2.2	37	4.82	298	3	296.0	310.4	296.8
928.0	753	17.4	-2.6	25	3.42	320	4	296.8	307.3	297.4
925.0	781	17.4	-2.6	25	3.43	330	4	297.1	307.6	297.7
918.0	846	17.6	-3.4	24	3.25	335	6	297.9	308.0	298.5
910.6	914	17.2	-3.8	24	3.19	340	9	298.2	308.1	298.8
878.5	1219	15.5	-5.5	23	2.91	340	10	299.6	308.7	300.1
876.0	1244	15.4	-5.6	23	2.89	339	10	299.7	308.7	300.2
867.0	1331	15.4	-12.6	13	1.68	336	9	300.6	306.0	300.9
850.0	1498	14.2	-10.8	17	1.98	330	8	301.0	307.4	301.4
817.1	1829	12.8	-12.9	15	1.74	285	7	302.9	308.6	303.2
804.0	1965	12.2	-13.8	15	1.65	252	9	303.7	309.1	304.0
787.8	2134	10.9	-12.7	18	1.84	210	11	304.0	310.1	304.4
759.5	2438	8.4	-10.6	25	2.25	205	9	304.6	311.9	305.0
759.0	2444	8.4	-10.6	25	2.26	204	9	304.6	311.9	305.1
737.0	2686	7.0	-14.0	21	1.77	152	5	305.7	311.5	306.0
731.9	2743	6.5	-13.9	22	1.79	140	4	305.8	311.6	306.1
700.0	3106	3.4	-13.6	28	1.92	100	14	306.2	312.5	306.6
675.0	3399	0.6	-13.4	34	2.03	97	17	306.3	312.9	306.7
655.0	3640	-0.7	-20.7	20	1.13	95	19	307.5	311.3	307.7
653.5	3658	-0.6	-22.4	17	0.97	95	19	307.8	311.1	307.9
644.0	3776	0.0	-34.0	6	0.34	105	17	309.8	311.0	309.8
605.3	4267	-3.7	-37.0	6	0.27	145	7	311.0	312.0	311.1
591.0	4456	-5.1	-38.1	6	0.24	162	5	311.5	312.4	311.6
559.6	4877	-9.1	-37.7	8	0.27	200	1	311.7	312.8	311.8
522.0	5415	-14.1	-37.1	12	0.30	240	3	311.9	313.1	312.0
500.0	5740	-16.1	-40.1	11	0.23	265	4	313.4	314.2	313.4
496.0	5800	-16.5	-39.5	12	0.25	265	5	313.6	314.5	313.6
476.4	6096	-19.4	-40.3	14	0.24	265	7	313.6	314.5	313.6
418.0	7055	-28.9	-42.9	25	0.21	269	9	313.4	314.2	313.4
407.0	7246	-28.7	-55.7	6	0.05	270	10	316.0	316.2	316.0
400.0	7370	-29.7	-57.7	5	0.04	270	10	316.3	316.5	316.3

385.9	7620	-31.8	-57.8	6	0.04	270	11	316.8	317.0	316.8
369.4	7925	-34.3	-58.0	7	0.04	265	9	317.4	317.6	317.4
339.0	8524	-39.3	-58.3	12	0.04	270	18	318.5	318.7	318.6
309.3	9144	-43.0	-61.3	12	0.03	275	27	321.8	321.9	321.8
300.0	9350	-44.3	-62.3	12	0.03	275	32	322.8	322.9	322.8
298.0	9395	-44.7	-61.7	13	0.03	275	32	322.9	323.0	322.9
281.0	9786	-47.7	-61.7	18	0.03	271	36	324.0	324.2	324.0
275.0	9929	-48.5	-56.5	39	0.07	270	38	324.9	325.1	324.9
265.0	10172	-50.5	-59.5	34	0.05	268	40	325.4	325.6	325.4
251.0	10524	-53.5	-57.6	61	0.06	265	44	326.0	326.3	326.0
250.0	10550	-53.7	-57.7	61	0.06	265	44	326.1	326.4	326.1
244.0	10706	-54.5	-60.5	47	0.05	270	43	327.2	327.4	327.2
242.0	10759	-53.9	-60.9	42	0.04	270	44	328.9	329.0	328.9
229.0	11113	-54.1	-71.1	11	0.01	267	49	333.8	333.8	333.8
221.0	11341	-54.7	-75.7	6	0.01	265	52	336.2	336.3	336.3
213.0	11577	-54.3	-76.3	5	0.01	263	55	340.4	340.5	340.4
205.0	11822	-54.7	-75.7	6	0.01	261	59	343.6	343.6	343.6
200.0	11980	-55.7	-76.7	6	0.01	260	61	344.4	344.4	344.4
198.0	12044	-56.1	-77.1	6	0.01	260	62	344.8	344.8	344.8
190.0	12307	-54.7	-77.7	4	0.01	260	68	351.1	351.1	351.1
184.4	12497	-55.8	-79.7	4	0.00	260	72	352.3	352.3	352.3
184.0	12512	-55.9	-79.9	3	0.00	260	72	352.4	352.4	352.4
181.0	12617	-55.9	-80.4	3	0.00	260	72	354.0	354.1	354.0
168.0	13091	-55.9	-82.9	2	0.00	260	64	361.7	361.7	361.7
150.0	13810	-57.3	-85.3	2	0.00	260	51	371.1	371.2	371.1
142.0	14156	-58.5	-86.5	2	0.00	260	42	374.9	374.9	374.9
139.0	14290	-57.1	-86.1	1	0.00	260	39	379.7	379.7	379.7
133.0	14569	-57.9	-87.9	1	0.00	260	32	383.1	383.1	383.1
131.7	14630	-58.2	-88.1	1	0.00	260	30	383.6	383.6	383.6
125.0	14958	-59.9	-88.9	1	0.00	260	35	386.3	386.3	386.3
123.0	15059	-59.3	-88.3	1	0.00	260	36	389.2	389.2	389.2
120.0	15214	-59.7	-88.7	1	0.00	260	39	391.2	391.2	391.2
119.5	15240	-59.4	-88.7	1	0.00	260	39	392.2	392.2	392.2
118.0	15319	-58.5	-88.5	1	0.00	262	37	395.3	395.3	395.3
113.0	15591	-58.5	-89.5	1	0.00	269	31	400.2	400.2	400.2
108.4	15850	-60.4	-90.4	1	0.00	275	25	401.4	401.4	401.4
104.0	16108	-62.3	-91.3	1	0.00	262	17	402.6	402.6	402.6
103.2	16154	-62.5	-91.3	1	0.00	260	16	403.1	403.1	403.1
100.0	16350	-63.1	-91.1	1	0.00	230	22	405.5	405.6	405.5
84.0	17415	-64.7	-91.7	1	0.00	244	22	423.0	423.0	423.0
77.7	17891	-63.1	-91.1	1	0.00	250	22	435.9	435.9	435.9
74.7	18132	-64.7	-91.7	1	0.00	253	22	437.4	437.4	437.4
72.8	18288	-63.4	-90.9	1	0.00	255	22	443.5	443.5	443.5
71.1	18434	-62.1	-90.1	1	0.00	273	23	449.2	449.2	449.2
70.0	18530	-61.9	-89.9	1	0.00	285	24	451.6	451.6	451.6
69.3	18593	-61.8	-89.9	1	0.00	280	25	453.2	453.2	453.2
66.0	18898	-61.2	-89.8	1	0.00	275	13	460.9	460.9	460.9
63.5	19135	-60.7	-89.7	1	0.00	271	14	467.0	467.0	467.0
62.8	19202	-60.9	-89.8	1	0.00	270	14	468.1	468.1	468.1
56.9	19812	-62.3	-90.8	1	0.00	325	13	478.3	478.3	478.3
54.2	20117	-63.0	-91.2	1	0.00	315	11	483.5	483.5	483.5
51.5	20428	-63.7	-91.7	1	0.00	353	8	488.8	488.8	488.8
50.0	20610	-62.9	-91.9	1	0.00	15	7	494.8	494.9	494.8
47.8	20887	-62.5	-91.5	1	0.00	68	6	502.2	502.2	502.2
44.8	21287	-63.5	-92.5	1	0.00	146	4	509.1	509.2	509.1
44.4	21336	-63.1	-92.2	1	0.00	155	4	511.3	511.3	511.3
42.3	21641	-60.7	-90.5	1	0.00	295	2	524.5	524.6	524.5
42.0	21686	-60.3	-90.3	1	0.00	303	3	526.5	526.6	526.5
38.4	22250	-60.9	-90.9	1	0.00	45	11	538.7	538.8	538.7

36.5	22555	-61.3	-91.3	1	0.00	105	10	545.5	545.5	545.5
36.4	22577	-61.3	-91.3	1	0.00	110	10	545.9	546.0	545.9
35.0	22822	-58.7	-89.7	1	0.00	171	12	558.9	558.9	558.9
34.8	22860	-58.6	-89.7	1	0.00	180	12	560.1	560.1	560.1
33.1	23165	-58.0	-89.9	1	0.00	185	11	569.6	569.6	569.6
33.0	23192	-57.9	-89.9	1	0.00	188	11	570.5	570.5	570.5
31.6	23470	-59.0	-90.4	1	0.00	220	11	574.6	574.6	574.6
30.8	23625	-59.7	-90.7	1	0.00	191	9	577.0	577.0	577.0
30.0	23790	-59.7	-90.7	1	0.00	160	6	581.3	581.3	581.3
28.6	24079	-59.4	-90.4	1	0.00	210	12	589.8	589.9	589.8
27.3	24384	-59.1	-90.1	1	0.00	200	12	599.0	599.0	599.0
27.3	24382	-59.1	-90.1	1	0.00	200	12	598.9	598.9	598.9
24.8	24994	-55.1	-87.9	1	0.01	235	20	626.9	627.0	626.9
24.4	25095	-54.5	-87.5	1	0.01	250	19	631.7	631.8	631.7
23.6	25298	-55.0	-87.7	1	0.01	280	16	635.9	635.9	635.9
22.5	25603	-55.8	-88.0	1	0.01	250	17	642.2	642.3	642.2
22.2	25699	-56.1	-88.1	1	0.01	258	17	644.2	644.3	644.2
20.7	26148	-53.1	-86.1	1	0.01	295	14	666.3	666.4	666.3
20.5	26213	-53.3	-86.3	1	0.01	300	14	667.5	667.6	667.5
20.0	26370	-53.9	-86.9	1	0.01	290	12	670.4	670.5	670.4
19.5	26518	-53.9	-86.9	1	0.01	265	13	674.9	675.0	674.9
18.1	27010	-53.9	-86.9	1	0.01	233	7	689.8	690.0	689.8
17.8	27127	-53.0	-86.3	1	0.01	225	5	696.1	696.2	696.1
17.0	27432	-50.8	-84.6	1	0.02	220	9	712.7	712.9	712.7
16.2	27737	-48.5	-83.0	1	0.03	255	11	729.7	730.0	729.7
15.6	27980	-46.7	-81.7	1	0.03	243	22	743.4	743.8	743.4
15.4	28042	-46.9	-81.8	1	0.03	240	25	744.8	745.1	744.8
14.3	28554	-48.5	-82.5	1	0.03	307	15	756.0	756.4	756.1
14.1	28651	-48.2	-82.3	1	0.03	320	13	760.1	760.5	760.1
13.5	28956	-47.4	-81.7	1	0.04	265	13	773.1	773.5	773.1
12.9	29261	-46.5	-81.2	1	0.04	285	24	786.3	786.8	786.3
12.3	29566	-45.6	-80.6	1	0.05	305	14	799.6	800.2	799.7
11.7	29870	-44.8	-80.0	1	0.06	275	21	813.2	813.9	813.2
11.2	30175	-43.9	-79.4	1	0.07	260	21	827.0	827.8	827.0
10.7	30480	-43.0	-78.9	1	0.07	275	23	841.1	842.0	841.1
10.4	30676	-42.5	-78.5	1	0.08	269	27	850.2	851.2	850.2
10.2	30785	-42.8	-78.8	1	0.08	265	29	852.9	853.9	853.0
10.0	30940	-43.3	-79.3	1	0.07	270	27	856.8	857.7	856.8
9.4	31356	-43.7	-79.7	1	0.07	266	28	870.5	871.5	870.6
8.5	32004	-41.5	-78.2	1	0.11	260	30	903.5	904.9	903.5
8.2	32280	-40.5	-77.5	1	0.12			917.8	919.5	917.9

## Station information and sounding indices

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Station identifier: NKX
Station number: 72293
Observation time: 150419/1200
Station latitude: 32.85
Station longitude: -117.12
Station elevation: 137.0
Showalter index: 7.93
Lifted index: 5.19
LIFT computed using virtual temperature: 5.01
SWEAT index: 20.01
K index: 2.50
Cross totals index: 5.30
Vertical totals index: 30.30
Totals totals index: 35.60
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: 280.73  
 Pres [hPa] of the Lifted Condensation Level: 888.03  
     Mean mixed layer potential temperature: 290.44  
     Mean mixed layer mixing ratio: 7.84  
     1000 hPa to 500 hPa thickness: 5621.00  
 Precipitable water [mm] for entire sounding: 11.83

## 72293 NKX San Diego Observations at 00Z 20 Apr 2015

PRES	HGHT	TEMP	DWPT	RELH	MIXR	DRCT	SKNT	THTA	THTE	THTV
hPa	m	C	C	%	g/kg	deg	knot	K	K	K
1000.0	101									
996.0	137	20.6	13.6	64	9.92	275	12	294.1	322.7	295.8
984.0	241	18.6	13.6	73	10.04	284	12	293.1	322.0	294.9
976.6	305	17.6	12.9	74	9.64	290	12	292.8	320.4	294.4
957.0	478	15.0	10.9	76	8.62	299	12	291.8	316.6	293.3
946.0	576	17.2	2.2	37	4.76	303	12	295.0	309.2	295.8
942.2	610	17.4	0.9	33	4.36	305	12	295.6	308.7	296.3
936.0	666	17.8	-1.2	27	3.76	309	11	296.5	307.9	297.2
925.0	767	18.0	-3.0	24	3.33	315	10	297.7	308.0	298.3
909.2	914	17.6	-9.0	15	2.14	310	9	298.8	305.6	299.2
886.0	1134	17.0	-18.0	8	1.05	321	5	300.4	303.9	300.6
877.1	1219	16.9	-16.6	9	1.20	325	3	301.1	305.1	301.3
851.0	1476	16.6	-12.4	13	1.74	238	5	303.4	309.1	303.7
850.0	1486	16.6	-12.4	13	1.74	235	5	303.5	309.2	303.8
821.0	1780	14.4	-8.6	20	2.44	201	9	304.2	312.1	304.7
816.2	1829	14.0	-9.4	19	2.31	195	10	304.3	311.8	304.7
787.0	2134	11.4	-14.2	15	1.63	190	13	304.8	310.1	305.1
782.0	2187	11.0	-15.0	15	1.53	182	12	304.8	309.9	305.1
758.5	2438	9.0	-13.7	19	1.75	145	6	305.3	311.1	305.6
730.9	2743	6.5	-12.2	25	2.06	90	10	305.8	312.6	306.2
700.0	3098	3.6	-10.4	35	2.49	95	16	306.4	314.5	306.9
693.0	3179	2.8	-10.2	38	2.55	100	16	306.4	314.7	306.9
652.8	3658	-1.5	-15.3	34	1.79	130	15	306.9	312.8	307.2
647.0	3730	-2.1	-16.1	33	1.69	130	14	307.0	312.6	307.3
640.0	3816	-2.7	-17.7	31	1.49	130	13	307.2	312.2	307.5
636.0	3866	-1.5	-37.5	4	0.24	130	12	309.1	310.1	309.2
629.0	3954	-1.5	-38.5	4	0.22	130	11	310.1	311.0	310.2
604.6	4267	-3.6	-36.2	6	0.29	130	7	311.2	312.3	311.3
601.0	4314	-3.9	-35.9	6	0.30	132	7	311.4	312.5	311.5
558.6	4877	-9.0	-37.0	8	0.29	150	12	312.0	313.1	312.0
500.0	5730	-16.7	-38.7	13	0.27	160	6	312.6	313.6	312.7
475.8	6096	-20.1	-40.3	15	0.24	125	3	312.9	313.8	312.9
435.0	6757	-26.3	-43.3	19	0.19	197	7	313.1	313.9	313.2
427.0	6891	-26.3	-52.3	7	0.07	212	7	314.8	315.1	314.8
419.0	7027	-27.1	-53.1	7	0.07	228	8	315.5	315.7	315.5
400.0	7360	-29.9	-53.9	8	0.06	265	10	316.1	316.3	316.1
385.4	7620	-32.1	-55.4	8	0.05	255	8	316.6	316.8	316.6
339.0	8513	-39.5	-60.5	9	0.03	265	9	318.3	318.4	318.3
338.0	8534	-39.6	-60.6	9	0.03	265	9	318.4	318.6	318.4
323.1	8839	-40.7	-61.7	9	0.03	275	11	321.1	321.2	321.1
320.0	8906	-40.9	-61.9	9	0.03	270	12	321.6	321.7	321.6

308.9	9144	-43.1	-61.4	12	0.03	250	14	321.8	321.9	321.8
308.0	9164	-43.3	-61.3	12	0.03	250	14	321.8	321.9	321.8
303.0	9274	-44.3	-57.3	22	0.05	247	15	321.9	322.1	321.9
300.0	9340	-44.9	-57.9	22	0.05	245	15	322.0	322.2	322.0
295.2	9449	-45.7	-58.7	22	0.05	245	19	322.3	322.5	322.3
293.0	9498	-46.1	-59.1	22	0.05	246	19	322.4	322.6	322.4
282.0	9753	-47.7	-50.8	70	0.13	249	21	323.7	324.2	323.7
270.0	10040	-50.1	-57.1	43	0.06	253	24	324.2	324.5	324.2
257.0	10361	-53.1	-58.1	54	0.06	258	27	324.4	324.7	324.4
254.0	10437	-52.7	-61.7	33	0.04	259	27	326.1	326.3	326.1
250.0	10540	-53.3	-67.3	17	0.02	260	28	326.7	326.8	326.7
245.1	10668	-54.1	-68.6	15	0.02	265	27	327.4	327.5	327.4
241.0	10775	-54.7	-69.7	14	0.01	264	30	328.0	328.1	328.0
223.0	11268	-56.3	-73.3	10	0.01	260	46	332.9	333.0	332.9
208.0	11711	-54.9	-76.9	5	0.01	260	47	341.8	341.8	341.8
200.0	11960	-56.1	-79.1	4	0.00	260	47	343.8	343.8	343.8
198.0	12024	-56.5	-78.5	5	0.00	257	49	344.1	344.1	344.1
192.8	12192	-56.8	-79.2	4	0.00	250	55	346.3	346.3	346.3
184.0	12489	-57.3	-80.3	4	0.00	251	53	350.1	350.1	350.1
177.0	12735	-55.9	-81.9	3	0.00	252	51	356.3	356.3	356.3
171.0	12955	-56.3	-83.3	2	0.00	252	50	359.2	359.2	359.2
166.0	13144	-55.5	-84.5	2	0.00	253	48	363.6	363.6	363.6
150.0	13790	-56.3	-87.3	1	0.00	255	44	372.9	372.9	372.9
148.0	13875	-56.5	-87.5	1	0.00	255	44	374.0	374.0	374.0
131.0	14642	-60.1	-90.1	1	0.00	255	43	380.8	380.8	380.8
128.0	14787	-58.5	-88.5	1	0.00	255	43	386.2	386.2	386.2
125.0	14936	-59.3	-89.3	1	0.00	255	43	387.4	387.4	387.4
121.0	15140	-59.1	-89.1	1	0.00	255	43	391.4	391.4	391.4
119.1	15240	-59.7	-89.7	1	0.00	255	43	392.0	392.0	392.0
118.0	15297	-60.1	-90.1	1	0.00	255	43	392.3	392.3	392.3
105.0	16026	-59.5	-89.5	1	0.00	255	39	406.8	406.8	406.8
100.0	16330	-60.5	-90.5	1	0.00	255	37	410.6	410.6	410.6
93.2	16764	-62.9	-92.0	1	0.00	250	21	414.2	414.2	414.2
92.1	16838	-63.3	-92.3	1	0.00	250	21	414.8	414.8	414.8
87.1	17181	-62.5	-91.5	1	0.00	250	24	423.1	423.1	423.1
80.3	17678	-63.5	-91.9	1	0.00	250	29	430.9	430.9	430.9
76.6	17968	-64.1	-92.1	1	0.00	262	23	435.6	435.6	435.6
72.7	18288	-63.5	-92.1	1	0.00	275	16	443.3	443.3	443.3
70.0	18520	-63.1	-92.1	1	0.00	240	15	449.1	449.1	449.1
69.2	18593	-62.9	-92.0	1	0.00	235	18	451.0	451.0	451.0
62.7	19202	-61.3	-90.9	1	0.00	280	11	467.3	467.3	467.3
58.2	19665	-60.1	-90.1	1	0.00	242	13	480.1	480.1	480.1
56.8	19812	-60.8	-90.4	1	0.00	230	13	481.8	481.8	481.8
54.7	20051	-61.9	-90.9	1	0.00	250	15	484.6	484.6	484.6
54.1	20117	-61.7	-90.8	1	0.00	255	16	486.5	486.6	486.6
51.5	20422	-60.7	-90.4	1	0.00	260	17	495.7	495.7	495.7
50.0	20610	-60.1	-90.1	1	0.00	285	19	501.4	501.4	501.4
49.1	20726	-59.7	-90.0	1	0.00	300	22	504.9	504.9	504.9
47.0	20998	-58.9	-89.9	1	0.00	322	15	513.2	513.3	513.2
46.8	21031	-59.1	-90.0	1	0.00	325	14	513.6	513.7	513.6
44.5	21336	-60.5	-90.7	1	0.00	60	8	517.4	517.4	517.4
43.9	21424	-60.9	-90.9	1	0.00	47	8	518.5	518.5	518.5
38.8	22196	-59.1	-90.1	1	0.00	298	11	541.6	541.7	541.6
38.5	22250	-59.3	-90.2	1	0.00	290	11	542.6	542.6	542.6
36.6	22555	-60.2	-90.6	1	0.00	0	14	547.9	547.9	547.9
34.8	22876	-61.1	-91.1	1	0.00	76	7	553.5	553.5	553.5
33.2	23165	-59.4	-90.0	1	0.00	145	1	565.3	565.3	565.3
30.0	23810	-55.7	-87.7	1	0.01	225	8	592.2	592.3	592.2
27.4	24384	-56.3	-87.8	1	0.01	240	9	606.1	606.2	606.1



24.7	25044	-56.9	-87.9	1	0.01	222	19	622.6	622.6	622.6
23.7	25298	-54.1	-86.6	1	0.01	215	23	637.8	637.9	637.8
23.4	25389	-53.1	-86.1	1	0.01	224	23	643.4	643.5	643.4
22.6	25603	-53.3	-86.0	1	0.01	245	22	649.0	649.1	649.0
20.8	26147	-53.7	-85.7	1	0.01	232	20	663.6	663.7	663.6
20.6	26213	-53.1	-85.4	1	0.01	230	20	667.3	667.4	667.3
20.0	26400	-51.5	-84.5	1	0.02	245	19	677.8	677.9	677.8
19.8	26465	-50.7	-84.7	1	0.02	249	19	682.2	682.3	682.2
18.8	26822	-49.7	-84.0	1	0.02	270	16	696.1	696.3	696.1
17.9	27127	-48.8	-83.4	1	0.02	305	15	708.2	708.4	708.2
17.1	27432	-47.9	-82.8	1	0.02	275	11	720.5	720.8	720.5
16.9	27503	-47.7	-82.7	1	0.03	283	13	723.4	723.7	723.4
16.3	27737	-48.0	-82.5	1	0.03	310	18	729.8	730.1	729.8
15.7	27988	-48.3	-82.3	1	0.03	256	18	736.8	737.1	736.8
15.6	28042	-48.0	-82.1	1	0.03	245	18	739.4	739.7	739.4
14.9	28346	-46.6	-81.1	1	0.04	245	25	753.9	754.3	753.9
14.0	28748	-44.7	-79.7	1	0.05	268	20	773.5	774.1	773.5
13.6	28956	-45.2	-80.2	1	0.05	280	18	778.8	779.3	778.8
13.3	29090	-45.5	-80.5	1	0.05	260	17	782.2	782.7	782.2
13.0	29261	-44.0	-79.4	1	0.06	235	15	792.9	793.6	792.9
12.4	29561	-41.5	-77.5	1	0.08	245	18	812.0	813.0	812.1
11.8	29870	-41.5	-77.5	1	0.08	255	22	822.7	823.7	822.7
10.8	30480	-41.5	-77.5	1	0.09	255	34	844.1	845.2	844.1
10.6	30624	-41.5	-77.5	1	0.09	258	35	849.2	850.4	849.3
10.0	31020	-40.5	-77.5	1	0.10	265	38	867.2	868.5	867.3
9.9	31089	-39.9	-76.9	1	0.11	265	38	872.0	873.4	872.0
9.1	31662	-41.7	-77.7	1	0.11	268	39	886.3	887.7	886.4
8.7	32004	-40.5	-77.3	1	0.12	270	39	903.8	905.3	903.8
8.5	32125	-40.1	-77.1	1	0.12			910.0	911.7	910.1

## Station information and sounding indices

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Station identifier: NKX
Station number: 72293
Observation time: 150420/0000
Station latitude: 32.85
Station longitude: -117.12
Station elevation: 137.0
Showalter index: 6.14
Lifted index: 1.67
LIFT computed using virtual temperature: 1.43
SWEAT index: 15.99
K index: 6.90
Cross totals index: 4.30
Vertical totals index: 33.30
Totals totals index: 37.60
Convective Available Potential Energy: 0.00
CAPE using virtual temperature: 0.00
Convective Inhibition: 0.00
CINS using virtual temperature: -822.79
Equilibrium Level using virtual temperature: 434.79
LFCT using virtual temperature: 436.41
Bulk Richardson Number: 0.00
Bulk Richardson Number using CAPV: 0.00
Temp [K] of the Lifted Condensation Level: 281.63
Pres [hPa] of the Lifted Condensation Level: 868.33
Mean mixed layer potential temperature: 293.24
Mean mixed layer mixing ratio: 8.37
1000 hPa to 500 hPa thickness: 5629.00

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Precipitable water [mm] for entire sounding: 11.73

## 72293 NKX San Diego Observations at 12Z 20 Apr 2015

PRES	HGHT	TEMP	DWPT	RELH	MIXR	DRCT	SKNT	THTA	THTE	THTV
hPa	m	C	C	%	g/kg	deg	knot	K	K	K
1000.0	106									
996.0	137	14.8	11.8	82	8.80	105	4	288.3	313.1	289.8
976.3	305	13.3				105	3	288.5		288.5
941.5	610	10.7				240	5	288.8		288.8
925.0	759	9.4				280	5	288.9		288.9
918.0	822	8.8				305	3	288.9		288.9
916.0	840	9.4				312	3	289.7		289.7
913.0	867	12.8				322	2	293.5		293.5
911.0	886	13.4				329	2	294.3		294.3
908.0	914	13.4				340	1	294.5		294.5
875.6	1219	13.1				345	3	297.4		297.4
860.0	1371	13.0				354	4	298.8		298.8
850.0	1469	13.6				0	4	300.4		300.4
843.0	1539	13.8				7	4	301.3		301.3
814.3	1829	12.4				35	3	302.9		302.9
789.0	2093	11.2				178	6	304.3		304.3
785.1	2134	10.8				200	6	304.3		304.3
756.6	2438	8.2				140	3	304.7		304.7
729.0	2743	5.5				100	8	305.0		305.0
700.0	3077	2.6				105	11	305.3		305.3
685.0	3252	1.2				109	11	305.7		305.7
650.9	3658	-1.7				120	11	306.8		306.8
627.0	3956	-3.9				122	10	307.7		307.7
602.7	4267	-5.4				125	9	309.4		309.4
592.0	4408	-6.1				124	9	310.2		310.2
556.8	4877	-10.4				120	10	310.6		310.6
500.0	5700	-17.9				135	16	311.1		311.1
473.9	6096	-21.3				140	17	311.7		311.7
445.0	6560	-25.3				166	18	312.4		312.4
432.0	6776	-25.9				178	18	314.3		314.3
400.0	7330	-29.5				210	19	316.6		316.6
384.0	7620	-31.6				220	19	317.6		317.6
383.0	7638	-31.7				221	19	317.6		317.6
367.3	7925	-34.3				230	23	317.9		317.9
307.4	9144	-45.6				220	13	318.8		318.8
300.0	9310	-47.1				215	11	318.9		318.9
293.7	9449	-48.5				215	11	318.8		318.8
291.0	9510	-49.1				222	14	318.8		318.8
287.0	9601	-48.5				232	17	320.9		320.9
280.4	9754	-49.0				250	24	322.3		322.3
261.0	10221	-50.7				247	28	326.5		326.5
250.0	10500	-52.5				245	31	327.9		327.9
238.0	10816	-54.9				247	33	328.9		328.9
213.0	11521	-57.1				250	37	336.1		336.1
200.0	11920	-55.7				250	40	344.4		344.4
196.0	12049	-55.3				252	44	347.0		347.0
191.6	12192	-55.9				255	48	348.4		348.4
178.0	12659	-57.7				252	46	352.8		352.8
174.0	12802	-56.7				251	45	356.7		356.7
167.0	13062	-57.5				249	44	359.6		359.6
163.0	13215	-56.7				248	43	363.4		363.4

154.0	13574	-57.5	246	41	368.0	368.0
150.0	13740	-57.3	245	40	371.1	371.1
142.0	14088	-55.9	247	39	379.5	379.5
120.0	15148	-61.1	255	37	388.6	388.6
118.2	15240	-61.2	250	38	390.1	390.1
110.0	15689	-61.5	254	34	397.6	397.6
100.0	16280	-61.7	260	29	408.2	408.2
93.4	16705	-58.9	260	27	421.8	421.8
86.8	17161	-62.5	260	25	423.5	423.5
79.8	17679	-62.7	260	22	433.4	433.4
72.3	18288	-60.8	260	19	449.7	449.7
71.8	18332	-60.7	259	19	450.9	450.9
70.0	18490	-61.3	255	21	452.9	452.9
65.4	18912	-62.5	264	18	459.2	459.2
52.8	20241	-60.9	293	7	491.8	491.8
50.0	20580	-61.1	300	4	499.1	499.1
48.8	20726	-61.8	275	3	500.7	500.7
48.4	20781	-62.1	271	6	501.4	501.4
46.5	21031	-61.7	255	19	508.1	508.1
45.4	21177	-61.5	279	18	512.0	512.0
44.2	21336	-59.4	305	16	521.0	521.0
43.6	21429	-58.1	310	14	526.3	526.3
42.1	21641	-58.3	320	11	531.0	531.0
40.6	21877	-58.5	287	11	536.2	536.2
38.3	22250	-57.0	235	11	549.2	549.2
37.3	22412	-56.3	248	14	554.9	554.9
36.5	22555	-56.9	260	16	557.0	557.0
34.7	22860	-58.1	355	11	561.5	561.5
33.5	23089	-59.1	357	7	564.9	564.9
31.5	23470	-59.3	0	0	574.3	574.3
31.3	23514	-59.3	340	1	575.4	575.4
30.0	23780	-57.5	215	9	587.3	587.3
29.2	23952	-56.1	229	11	595.7	595.7
28.6	24079	-56.0	240	12	599.4	599.4
27.3	24384	-55.7	260	12	608.5	608.5
26.0	24689	-55.4	270	12	617.6	617.6
24.8	24994	-55.1	255	12	627.0	627.0
24.7	25019	-55.1	257	13	627.8	627.8
23.6	25298	-55.9	275	20	633.4	633.4
23.1	25446	-56.3	248	20	636.4	636.4
22.5	25603	-55.7	220	19	642.5	642.5
20.5	26213	-53.5	270	14	667.0	667.0
20.0	26370	-52.9	255	13	673.5	673.5
18.8	26771	-50.7	242	17	692.4	692.4
18.6	26822	-50.7	240	17	694.0	694.0
17.8	27127	-50.5	275	17	703.8	703.8
17.0	27432	-50.4	270	12	713.8	713.8
15.5	28042	-50.0	270	24	734.1	734.1
14.8	28346	-49.8	305	16	744.7	744.7
14.8	28331	-49.9	303	16	744.0	744.0
13.5	28956	-47.1	270	29	773.9	773.9
12.9	29237	-45.9			787.6	787.6

## Station information and sounding indices

Station identifier: NKX  
 Station number: 72293  
 Observation time: 150420/1200  
 Station latitude: 32.85

Station longitude: -117.12  
 Station elevation: 137.0  
 Vertical totals index: 31.50  
 Mean mixed layer potential temperature: 288.54  
 1000 hPa to 500 hPa thickness: 5594.00  
 Precipitable water [mm] for entire sounding: 0.00

## 72293 NKX San Diego Observations at 00Z 21 Apr 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	96									
995.0	137	19.0	12.0	64	8.93	285	10	292.6	318.3	294.1
983.0	241	16.8	10.8	68	8.34	285	10	291.4	315.3	292.8
975.7	305	15.5	10.2	71	8.09	285	10	290.7	313.9	292.1
967.0	381	14.0	9.6	75	7.81	280	10	289.9	312.2	291.3
941.1	610	11.9	9.0	82	7.70	265	8	290.1	312.1	291.4
925.0	755	10.6	8.6	87	7.63	250	7	290.1	312.0	291.5
913.0	864	9.8	8.3	90	7.58	236	6	290.4	312.1	291.7
907.5	914	10.2	7.4	83	7.17	230	5	291.3	312.0	292.6
905.0	937	10.4	7.0	79	6.99	237	5	291.8	312.0	293.0
899.0	993	12.8	-0.2	41	4.21	255	5	294.8	307.4	295.5
897.0	1011	13.2	-0.8	38	4.04	260	5	295.4	307.6	296.1
894.0	1040	13.2	1.2	44	4.69	269	5	295.7	309.7	296.5
880.0	1172	12.8	-1.2	38	4.00	310	4	296.6	308.7	297.3
875.1	1219	13.0	-5.9	26	2.83	325	4	297.3	306.1	297.8
871.0	1258	13.2	-9.8	19	2.10	311	4	297.9	304.5	298.2
857.0	1394	12.8	-3.2	33	3.54	264	3	298.8	309.8	299.5
850.0	1463	13.0	-6.0	26	2.89	240	3	299.8	308.8	300.3
843.9	1524	13.1	-12.0	16	1.81	305	1	300.5	306.4	300.8
840.0	1562	13.2	-15.8	12	1.34	289	2	301.0	305.4	301.2
820.0	1765	13.2	-13.8	14	1.61	206	7	303.1	308.4	303.4
813.7	1829	12.8	-15.6	12	1.40	180	9	303.3	307.9	303.5
811.0	1857	12.6	-16.4	12	1.32	179	9	303.4	307.8	303.6
805.0	1919	12.2	-7.8	24	2.65	177	10	303.6	312.1	304.1
785.0	2129	10.4	-6.6	30	2.98	170	12	303.9	313.3	304.4
784.6	2134	10.4	-6.7	29	2.96	170	12	303.9	313.3	304.4
756.3	2438	8.1	-14.3	19	1.68	145	10	304.6	310.1	304.9
753.0	2474	7.8	-15.2	18	1.57	144	10	304.7	309.9	305.0
744.0	2573	7.2	-12.8	23	1.93	143	10	305.1	311.4	305.4
740.0	2617	6.6	-9.4	31	2.55	142	10	304.9	313.1	305.4
728.7	2743	5.4	-9.5	33	2.57	140	10	304.9	313.2	305.4
701.9	3048	2.6	-9.6	40	2.64	125	13	305.1	313.6	305.6
700.0	3070	2.4	-9.6	41	2.65	135	12	305.1	313.6	305.6
681.0	3292	0.4	-9.6	47	2.72	137	15	305.3	314.0	305.8
662.0	3518	-1.7	-7.7	64	3.25	139	17	305.4	315.7	306.0
658.0	3567	-1.9	-8.9	59	2.98	139	18	305.7	315.2	306.3
653.0	3628	-2.1	-14.1	39	1.98	140	19	306.1	312.6	306.5
650.5	3658	-2.2	-16.3	33	1.65	140	19	306.4	311.8	306.7
640.0	3787	-2.7	-25.7	15	0.74	147	16	307.2	309.8	307.4
624.0	3988	-3.9	-33.9	8	0.35	159	13	308.1	309.4	308.1
602.1	4267	-6.4	-32.9	10	0.40	175	7	308.4	309.8	308.5
579.0	4572	-9.1	-31.8	14	0.46	180	6	308.7	310.4	308.8
569.0	4708	-10.3	-31.3	16	0.49	165	8	308.8	310.6	308.9
556.5	4877	-11.6	-33.5	15	0.41	145	10	309.2	310.7	309.3
513.6	5486	-16.3	-41.3	10	0.20	130	10	310.7	311.4	310.7
500.0	5690	-17.9	-43.9	8	0.16	145	11	311.1	311.8	311.2

493.3	5791	-18.7	-44.7	8	0.14	150	12	311.3	311.9	311.4
492.0	5810	-18.9	-44.9	8	0.14	149	12	311.4	311.9	311.4
473.3	6096	-20.5	-49.3	6	0.09	140	12	312.8	313.2	312.8
452.0	6436	-22.5	-54.5	4	0.05	165	14	314.5	314.7	314.5
435.5	6706	-24.6	-53.6	5	0.06	185	15	315.1	315.4	315.2
417.5	7010	-27.0	-52.5	7	0.07	165	15	315.9	316.1	315.9
400.3	7315	-29.5	-51.5	10	0.08	185	15	316.6	316.9	316.6
400.0	7320	-29.5	-51.5	10	0.08	185	15	316.6	316.9	316.6
383.4	7620	-32.0	-51.8	12	0.08	170	14	317.1	317.4	317.1
378.0	7720	-32.9	-51.9	13	0.08	186	15	317.2	317.6	317.2
367.0	7925	-34.2	-54.8	11	0.06	220	17	318.2	318.4	318.2
339.0	8478	-37.7	-62.7	6	0.02	225	16	320.7	320.8	320.7
336.2	8534	-37.7	-62.7	6	0.02	225	16	321.5	321.6	321.5
335.0	8560	-37.7	-62.7	6	0.02	225	17	321.8	321.9	321.8
317.0	8938	-40.5	-64.5	6	0.02	232	30	323.0	323.1	323.0
307.5	9144	-42.3	-61.2	11	0.03	235	37	323.4	323.5	323.4
302.0	9265	-43.3	-59.3	15	0.04	231	34	323.6	323.8	323.6
300.0	9310	-43.7	-58.7	17	0.05	230	33	323.6	323.9	323.7
276.0	9865	-48.3	-65.3	12	0.02	228	37	324.8	324.9	324.8
250.0	10510	-53.7	-66.7	19	0.02	225	41	326.1	326.2	326.1
247.0	10587	-54.5	-67.5	19	0.02	223	41	326.0	326.1	326.0
243.9	10668	-55.0	-67.7	19	0.02	220	40	326.5	326.6	326.5
234.0	10932	-56.5	-68.5	21	0.02	223	41	328.1	328.2	328.1
216.0	11436	-58.7	-71.7	17	0.01	230	43	332.3	332.3	332.3
206.0	11734	-57.9	-74.9	10	0.01	233	49	338.1	338.1	338.1
201.1	11887	-58.6	-76.4	8	0.01	235	52	339.4	339.4	339.4
200.0	11920	-58.7	-76.7	8	0.01	235	52	339.6	339.7	339.6
195.0	12079	-57.7	-76.7	7	0.01	236	50	343.7	343.7	343.7
186.0	12376	-58.5	-80.5	4	0.00	239	45	347.1	347.1	347.1
182.0	12513	-57.3	-81.3	3	0.00	240	43	351.2	351.2	351.2
178.0	12653	-57.9	-82.9	3	0.00	241	41	352.5	352.5	352.5
173.0	12833	-56.7	-82.7	2	0.00	243	39	357.3	357.3	357.3
165.7	13106	-57.1	-84.0	2	0.00	245	35	361.1	361.1	361.1
165.0	13133	-57.1	-84.1	2	0.00	245	35	361.5	361.5	361.5
163.0	13210	-55.7	-83.7	2	0.00	245	36	365.1	365.1	365.1
157.0	13449	-54.9	-84.9	1	0.00	245	37	370.4	370.4	370.4
150.0	13740	-55.5	-86.5	1	0.00	245	39	374.2	374.3	374.2
144.0	13999	-56.3	-87.3	1	0.00	252	37	377.2	377.3	377.2
143.0	14044	-55.7	-87.7	1	0.00	253	37	379.1	379.1	379.1
136.8	14326	-57.3	-88.7	1	0.00	260	35	381.1	381.1	381.1
133.0	14502	-58.3	-89.3	1	0.00	256	36	382.4	382.4	382.4
124.1	14935	-58.3	-89.3	1	0.00	245	39	390.0	390.0	390.0
118.3	15240	-58.3	-89.3	1	0.00	255	43	395.4	395.4	395.4
118.0	15254	-58.3	-89.3	1	0.00	255	43	395.6	395.7	395.6
110.0	15694	-58.9	-89.9	1	0.00	251	38	402.5	402.6	402.5
100.0	16290	-60.1	-90.1	1	0.00	245	32	411.3	411.3	411.3
92.7	16764	-61.4	-90.5	1	0.00	255	40	417.8	417.8	417.8
92.2	16796	-61.5	-90.5	1	0.00	256	38	418.2	418.2	418.2
88.2	17069	-61.1	-90.6	1	0.00	260	25	424.3	424.3	424.3
84.4	17346	-60.7	-90.7	1	0.00	262	25	430.5	430.6	430.5
80.0	17678	-62.3	-91.4	1	0.00	265	26	433.9	433.9	433.9
79.4	17725	-62.5	-91.5	1	0.00	263	25	434.4	434.4	434.4
72.5	18288	-59.7	-89.6	1	0.00	245	19	451.7	451.7	451.7
71.6	18368	-59.3	-89.3	1	0.00	252	18	454.2	454.2	454.2
70.0	18510	-59.7	-89.7	1	0.00	265	15	456.3	456.3	456.3
69.1	18593	-59.8	-89.8	1	0.00	265	15	457.8	457.8	457.8
65.8	18898	-60.2	-89.9	1	0.00	250	22	463.4	463.4	463.4
62.6	19202	-60.6	-90.1	1	0.00	270	16	469.0	469.0	469.0
59.6	19507	-61.1	-90.3	1	0.00	250	17	474.7	474.7	474.7

56.8	19812	-61.5	-90.5	1	0.00	245	11	480.5	480.5	480.5
56.6	19829	-61.5	-90.5	1	0.00	246	12	480.8	480.8	480.8
54.4	20075	-59.5	-90.5	1	0.00	254	22	490.9	490.9	490.9
54.0	20117	-59.6	-90.5	1	0.00	255	24	491.7	491.7	491.7
50.0	20600	-60.3	-90.3	1	0.00	260	16	500.9	501.0	500.9
49.0	20726	-60.5	-90.5	1	0.00	260	16	503.3	503.4	503.3
46.7	21031	-61.0	-91.0	1	0.00	290	14	509.2	509.2	509.2
46.4	21065	-61.1	-91.1	1	0.00	280	14	509.8	509.9	509.8
44.8	21285	-58.9	-89.9	1	0.00	215	12	520.3	520.3	520.3
44.4	21336	-59.0	-90.0	1	0.00	200	11	521.2	521.2	521.2
42.3	21644	-59.9	-90.9	1	0.00	225	15	526.5	526.5	526.5
40.3	21946	-58.8	-90.2	1	0.00	250	18	536.5	536.5	536.5
37.4	22419	-57.1	-89.1	1	0.00	273	13	552.5	552.5	552.5
36.6	22555	-56.9	-88.9	1	0.00	280	11	556.3	556.3	556.3
31.7	23470	-55.8	-87.8	1	0.01	310	12	582.8	582.8	582.8
31.4	23530	-55.7	-87.7	1	0.01	306	11	584.5	584.6	584.5
30.2	23774	-56.4	-88.4	1	0.01	290	7	589.1	589.2	589.1
30.0	23820	-56.5	-88.5	1	0.01	285	10	590.0	590.1	590.0
29.2	23991	-56.9	-88.9	1	0.01	273	10	593.5	593.5	593.5
27.5	24384	-55.9	-88.2	1	0.01	245	11	606.8	606.8	606.8
26.2	24689	-55.2	-87.6	1	0.01	240	17	617.3	617.4	617.3
24.9	24994	-54.4	-87.1	1	0.01	260	16	628.0	628.0	628.0
23.8	25298	-53.6	-86.5	1	0.01	245	18	638.8	638.9	638.8
23.0	25513	-53.1	-86.1	1	0.01	254	16	646.5	646.6	646.5
21.6	25908	-54.2	-86.5	1	0.01	270	13	654.6	654.7	654.6
21.1	26066	-54.7	-86.7	1	0.01	260	13	657.9	658.0	657.9
20.6	26213	-53.5	-85.9	1	0.01	250	13	665.8	665.9	665.8
20.0	26410	-51.9	-84.9	1	0.01	265	19	676.6	676.7	676.6
19.5	26575	-50.9	-84.9	1	0.02	273	19	684.5	684.7	684.5
18.8	26822	-51.8	-85.2	1	0.02	285	18	689.2	689.3	689.2
18.4	26952	-52.3	-85.3	1	0.02	278	19	691.6	691.8	691.6
17.1	27432	-49.9	-83.5	1	0.02	250	22	714.1	714.3	714.1
16.5	27664	-48.7	-82.7	1	0.03	269	24	725.1	725.4	725.1
16.3	27737	-48.9	-82.9	1	0.03	275	24	726.9	727.2	726.9
15.6	28042	-49.5	-83.5	1	0.02	260	23	734.4	734.7	734.4
15.4	28117	-49.7	-83.7	1	0.02	264	24	736.3	736.5	736.3
14.9	28346	-48.5	-82.5	1	0.03	275	28	747.5	747.9	747.6
14.6	28468	-47.9	-81.9	1	0.03	273	27	753.6	754.0	753.6
13.9	28791	-49.1	-83.1	1	0.03	268	24	760.2	760.5	760.2
13.6	28956	-48.0	-82.5	1	0.03	265	22	769.2	769.6	769.2
13.2	29132	-46.9	-81.9	1	0.04	268	26	779.0	779.5	779.1
12.9	29261	-47.0	-82.0	1	0.04	270	29	782.9	783.3	782.9
12.5	29494	-47.3	-82.3	1	0.04	262	27	789.9	790.3	789.9
12.4	29566	-47.0	-82.1	1	0.04	260	27	793.3	793.7	793.3
11.3	30175	-44.8	-80.2	1	0.06	280	29	822.3	823.0	822.4
10.8	30480	-43.6	-79.3	1	0.07	265	25	837.2	838.1	837.3
10.3	30785	-42.5	-78.3	1	0.08	250	25	852.4	853.5	852.5
10.0	30990	-41.7	-77.7	1	0.10	265	31	862.8	864.0	862.8
9.8	31090	-41.8	-77.8	1	0.10	270	31	866.2	867.4	866.2
9.4	31394	-41.9	-77.9	1	0.10	255	32	876.8	878.0	876.8
9.0	31699	-42.1	-78.1	1	0.10	265	24	887.5	888.8	887.5
8.5	32089	-42.3	-78.3	1	0.10	271	28	901.4	902.8	901.5
8.0	32501	-40.5	-77.5	1	0.12	278	32	924.3	926.0	924.4
7.3	33124	-40.9	-77.9	1	0.13	288	39	947.2	949.0	947.3
7.2	33223	-40.3	-77.3	1	0.14	290	40	953.7	955.7	953.8
7.0	33410	-39.1	-76.1	1	0.18	285	40	966.0	968.5	966.1

## Station information and sounding indices

Station identifier: NKX  
 Station number: 72293  
 Observation time: 150421/0000  
 Station latitude: 32.85  
 Station longitude: -117.12  
 Station elevation: 137.0  
 Showalter index: 5.23  
 Lifted index: 2.28  
 LIFT computed using virtual temperature: 2.06  
 SWEAT index: 16.98  
 K index: 12.90  
 Cross totals index: 11.90  
 Vertical totals index: 30.90  
 Totals totals index: 42.80  
 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: 282.08  
 Pres [hPa] of the Lifted Condensation Level: 901.20  
 Mean mixed layer potential temperature: 290.60  
 Mean mixed layer mixing ratio: 8.03  
 1000 hPa to 500 hPa thickness: 5594.00  
 Precipitable water [mm] for entire sounding: 14.91

## 72293 NKX San Diego Observations at 12Z 21 Apr 2015

PRES	HGHT	TEMP	DWPT	RELH	MIXR	DRCT	SKNT	THTA	THTE	THTV
hPa	m	C	C	%	g/kg	deg	knot	K	K	K
1000.0	106									
996.0	137	15.0	10.0	72	7.79	265	5	288.5	310.6	289.8
976.4	305	13.3	9.3	76	7.57	210	6	288.4	310.0	289.8
941.7	610	10.3	8.0	85	7.17	230	4	288.4	308.8	289.6
925.0	761	8.8	7.3	90	6.98	215	5	288.3	308.2	289.5
910.0	896	7.6	7.1	97	7.00	197	5	288.4	308.4	289.6
908.0	914	7.5	7.0	97	6.96	195	5	288.5	308.3	289.7
874.9	1219	5.5	5.3	98	6.40	110	4	289.5	307.9	290.6
857.0	1388	4.4	4.3	99	6.11	49	3	290.1	307.7	291.1
854.0	1417	4.8	2.6	86	5.43	39	3	290.8	306.6	291.7
851.0	1445	7.2	-1.8	53	3.96	28	3	293.6	305.4	294.3
850.0	1455	8.2	-2.8	46	3.68	25	3	294.7	305.8	295.4
848.0	1474	9.0	-4.0	40	3.37	32	3	295.8	306.0	296.4
836.0	1592	8.6	-9.4	27	2.25	71	4	296.6	303.6	296.9
831.0	1642	8.4	-3.6	43	3.54	87	5	296.8	307.7	297.5
821.0	1742	8.4	-2.6	46	3.86	121	5	297.9	309.7	298.6
818.0	1772	8.6	-3.4	43	3.65	131	6	298.4	309.6	299.1
814.0	1813	9.6	-12.4	20	1.82	145	6	299.9	305.7	300.2
812.4	1829	9.7	-13.8	17	1.62	150	6	300.2	305.4	300.5
805.0	1905	10.4	-20.6	9	0.93	151	6	301.7	304.8	301.9
801.0	1947	10.2	-13.8	17	1.65	152	6	301.9	307.3	302.2
783.1	2134	9.5	-15.3	16	1.50	155	7	303.1	308.0	303.3
777.0	2199	9.2	-15.8	15	1.44	151	8	303.5	308.2	303.7
770.0	2274	8.6	-11.4	23	2.09	146	10	303.6	310.4	304.0

763.0	2349	7.6	-2.4	49	4.22	141	12	303.3	316.4	304.1
758.0	2403	7.0	-1.0	57	4.71	137	13	303.2	317.8	304.1
754.8	2438	6.7	-1.5	56	4.56	135	14	303.3	317.4	304.1
730.0	2711	4.4	-5.6	48	3.47	144	13	303.7	314.6	304.3
727.1	2743	4.1	-5.7	49	3.45	145	13	303.7	314.5	304.3
700.0	3051	1.0	-7.0	55	3.25	130	14	303.6	313.8	304.2
693.0	3132	0.2	-7.8	55	3.08	132	14	303.6	313.3	304.1
679.0	3295	-1.1	-13.1	40	2.06	136	14	303.9	310.6	304.2
671.0	3389	-1.5	-22.5	18	0.94	138	14	304.4	307.6	304.6
648.6	3658	-3.3	-23.6	19	0.89	145	14	305.3	308.4	305.5
642.0	3740	-3.9	-23.9	19	0.87	148	14	305.6	308.6	305.8
599.2	4267	-8.5	-27.2	21	0.69	165	13	306.3	308.7	306.4
553.2	4877	-13.9	-30.9	22	0.53	155	10	307.0	308.9	307.1
500.0	5650	-20.7	-35.7	25	0.37	170	13	307.7	309.1	307.8
499.0	5665	-20.9	-35.9	25	0.36	170	13	307.7	309.0	307.7
483.0	5904	-22.9	-41.9	16	0.20	178	16	308.1	308.8	308.1
470.3	6096	-24.4	-41.2	19	0.22	185	18	308.6	309.5	308.7
454.0	6352	-26.3	-40.3	26	0.25	182	18	309.3	310.3	309.4
442.0	6545	-27.7	-48.7	12	0.10	179	18	309.9	310.3	309.9
431.0	6724	-29.1	-48.1	14	0.11	177	19	310.4	310.8	310.4
418.0	6941	-31.3	-42.3	33	0.22	174	19	310.3	311.1	310.3
400.0	7250	-34.3	-43.3	40	0.21	170	19	310.3	311.1	310.4
396.3	7315	-34.9	-43.9	39	0.20	170	19	310.4	311.2	310.5
396.0	7320	-34.9	-43.9	39	0.20	170	19	310.4	311.2	310.5
386.0	7499	-35.7	-55.7	11	0.05	176	21	311.7	311.9	311.7
379.3	7620	-36.5	-56.8	10	0.05	180	22	312.1	312.3	312.1
361.0	7962	-38.9	-59.9	9	0.03	193	30	313.4	313.5	313.4
332.1	8534	-41.1	-64.1	7	0.02	215	43	318.0	318.1	318.0
332.0	8535	-41.1	-64.1	7	0.02	215	43	318.0	318.1	318.0
303.4	9144	-44.1	-68.0	5	0.01	220	47	322.0	322.1	322.0
300.0	9220	-44.5	-68.5	5	0.01	220	47	322.5	322.6	322.5
276.9	9754	-47.2	-71.2	5	0.01	220	53	326.1	326.1	326.1
273.0	9849	-47.7	-71.7	5	0.01	221	51	326.7	326.7	326.7
250.0	10430	-49.5	-72.5	5	0.01	225	39	332.3	332.4	332.3
240.0	10696	-50.5	-72.5	6	0.01	228	37	334.7	334.8	334.7
225.0	11114	-52.9	-75.9	5	0.01	233	33	337.3	337.3	337.3
219.3	11278	-53.0	-76.0	5	0.01	235	31	339.6	339.7	339.6
210.0	11557	-53.1	-76.1	4	0.01	237	37	343.7	343.7	343.7
200.0	11870	-54.5	-79.5	3	0.00	240	44	346.3	346.3	346.3
191.0	12165	-53.9	-80.9	2	0.00	235	45	351.9	351.9	351.9
190.2	12192	-54.0	-81.0	2	0.00	235	45	352.1	352.1	352.1
178.0	12615	-55.9	-82.9	2	0.00	249	39	355.7	355.8	355.7
176.0	12687	-55.7	-82.7	2	0.00	251	38	357.2	357.2	357.2
174.0	12760	-53.9	-82.9	2	0.00	254	37	361.4	361.4	361.4
172.9	12802	-54.1	-83.3	2	0.00	255	36	361.6	361.7	361.6
169.0	12947	-54.9	-84.9	1	0.00	250	42	362.7	362.7	362.7
164.8	13106	-54.2	-84.8	1	0.00	245	48	366.5	366.5	366.5
162.0	13218	-53.7	-84.7	1	0.00	249	45	369.1	369.1	369.1
157.2	13411	-54.4	-85.4	1	0.00	255	39	371.1	371.1	371.1
153.0	13584	-55.1	-86.1	1	0.00	246	34	372.8	372.8	372.8
150.0	13710	-55.5	-85.5	1	0.00	240	31	374.2	374.3	374.2
149.9	13716	-55.5	-85.5	1	0.00	240	30	374.4	374.4	374.4
147.0	13839	-55.1	-85.1	1	0.00	243	32	377.1	377.1	377.1
136.2	14326	-56.5	-86.5	1	0.00	255	40	382.9	382.9	382.9
135.0	14380	-56.7	-86.7	1	0.00	254	40	383.6	383.6	383.6
132.0	14522	-57.5	-87.5	1	0.00	252	42	384.6	384.6	384.6
125.0	14865	-57.7	-87.7	1	0.00	246	44	390.3	390.3	390.3
123.6	14935	-58.0	-87.8	1	0.00	245	45	391.0	391.0	391.0
118.0	15227	-59.1	-88.1	1	0.00	240	44	394.2	394.2	394.2



117.8	15240	-59.1	-88.1	1	0.00	240	44	394.4	394.5	394.4
113.0	15498	-58.7	-87.7	1	0.00	245	42	399.8	399.8	399.8
108.0	15781	-60.3	-89.3	1	0.00	251	39	402.0	402.0	402.0
104.0	16016	-59.9	-88.9	1	0.00	255	37	407.1	407.1	407.1
100.0	16260	-60.9	-88.9	1	0.00	260	35	409.8	409.8	409.8
82.9	17424	-62.1	-89.1	2	0.00	274	25	429.9	429.9	429.9
76.5	17923	-60.5	-88.5	1	0.00	281	21	443.2	443.2	443.2
74.9	18056	-58.3	-88.3	1	0.00	282	20	450.5	450.5	450.5
72.2	18288	-59.6	-89.1	1	0.00	285	18	452.5	452.5	452.5
70.0	18480	-60.7	-89.7	1	0.00	275	16	454.2	454.2	454.2
68.4	18624	-61.3	-89.3	1	0.00	273	16	455.9	455.9	455.9
55.6	19916	-59.5	-88.5	1	0.00	258	13	487.8	487.8	487.8
50.0	20580	-60.1	-89.1	1	0.00	250	12	501.4	501.4	501.4
44.3	21336	-60.8	-89.8	1	0.00	265	18	517.4	517.5	517.4
43.5	21447	-60.9	-89.9	1	0.00	266	17	519.8	519.8	519.8
38.4	22226	-58.5	-88.5	1	0.00	276	9	544.8	544.8	544.8
36.4	22555	-59.2	-89.2	1	0.00	280	6	551.3	551.3	551.3
35.5	22718	-59.5	-89.5	1	0.00	268	8	554.5	554.6	554.5
33.1	23165	-57.8	-88.7	1	0.00	235	12	570.3	570.4	570.3
30.0	23780	-55.5	-87.5	1	0.01	270	11	592.7	592.8	592.8
30.0	23774	-55.5	-87.5	1	0.01	270	12	592.5	592.6	592.5
29.3	23931	-54.5	-87.5	1	0.01	270	18	599.5	599.6	599.5
28.6	24079	-55.3	-87.7	1	0.01	270	24	601.2	601.2	601.2
27.3	24384	-57.0	-88.2	1	0.01	270	19	604.7	604.7	604.7
27.1	24428	-57.3	-88.3	1	0.01	267	19	605.2	605.2	605.2
26.0	24689	-56.8	-88.0	1	0.01	250	18	613.8	613.9	613.8
23.2	25415	-55.3	-87.3	1	0.01	274	24	638.5	638.6	638.5
22.5	25603	-55.5	-87.3	1	0.01	280	25	643.2	643.3	643.2
21.5	25908	-55.9	-87.4	1	0.01	260	19	650.9	651.0	650.9
20.5	26213	-56.3	-87.5	1	0.01	280	25	658.7	658.8	658.7
20.0	26360	-56.5	-87.5	1	0.01	275	23	662.5	662.6	662.5
19.5	26518	-56.5	-87.5	1	0.01	265	18	667.2	667.3	667.2
19.2	26619	-56.5	-87.5	1	0.01	267	19	670.3	670.4	670.3
16.9	27432	-53.9	-86.5	1	0.01	285	27	703.4	703.5	703.4
16.4	27626	-53.3	-86.3	1	0.01	288	29	711.5	711.6	711.5
15.8	27867	-51.1	-85.1	1	0.02	292	31	726.3	726.5	726.3
15.4	28042	-51.0	-85.0	1	0.02	295	32	732.2	732.4	732.2
14.7	28346	-50.8	-84.8	1	0.02	300	23	742.7	742.9	742.7
14.7	28336	-50.9	-84.9	1	0.02	300	23	742.1	742.3	742.1
14.0	28651	-48.7	-82.7	1	0.03	280	27	760.0	760.3	760.0
13.9	28702	-48.3	-82.3	1	0.03	283	26	762.9	763.3	762.9
12.8	29261	-48.3	-82.3	1	0.04	310	16	781.6	782.0	781.6
12.2	29566	-48.3	-82.3	1	0.04	280	14	792.0	792.5	792.0
10.6	30480	-48.3	-82.3	1	0.04	265	30	824.1	824.6	824.1
10.2	30739	-48.3	-82.3	1	0.05	268	28	833.4	834.0	833.4
10.0	30870	-47.1	-82.1	1	0.05	270	27	842.6	843.2	842.6
9.5	31210	-45.7	-80.7	1	0.06	275	29	860.4	861.2	860.4
8.4	32032	-44.7	-79.7	1	0.08	287	32	895.1	896.2	895.1
7.7	32614	-41.5	-78.0	1	0.12	295	35	930.2	931.9	930.3
7.5	32796	-40.5	-77.5	1	0.13			941.5	943.4	941.6

## Station information and sounding indices

Station identifier: NKX  
 Station number: 72293  
 Observation time: 150421/1200  
 Station latitude: 32.85  
 Station longitude: -117.12  
 Station elevation: 137.0

Showalter index: 4.33  
 Lifted index: 1.89  
 LIFT computed using virtual temperature: 1.76  
 SWEAT index: 18.98  
 K index: 18.10  
 Cross totals index: 17.90  
 Vertical totals index: 28.90  
 Totals totals index: 46.80  
 Convective Available Potential Energy: 8.35  
 CAPE using virtual temperature: 10.11  
 Convective Inhibition: 0.00  
 CINS using virtual temperature: 0.00  
 Equilibrium Level: 853.77  
 Equilibrium Level using virtual temperature: 853.54  
 Level of Free Convection: 916.00  
 LFCT using virtual temperature: 916.00  
 Bulk Richardson Number: 0.97  
 Bulk Richardson Number using CAPV: 1.17  
 Temp [K] of the Lifted Condensation Level: 281.27  
 Pres [hPa] of the Lifted Condensation Level: 916.00  
 Mean mixed layer potential temperature: 288.42  
 Mean mixed layer mixing ratio: 7.46  
 1000 hPa to 500 hPa thickness: 5544.00  
 Precipitable water [mm] for entire sounding: 16.94

## 72293 NKX San Diego Observations at 00Z 22 Apr 2015

PRES	HGHT	TEMP	DWPT	RELH	MIXR	DRCT	SKNT	THTA	THTE	THTV
hPa	m	C	C	%	g/kg	deg	knot	K	K	K
1000.0	104									
996.0	137	19.0	9.0	52	7.28	320	10	292.5	313.6	293.8
992.0	172	18.2	8.2	52	6.92	314	10	292.0	312.1	293.2
976.6	305	15.3	7.1	58	6.52	290	12	290.4	309.2	291.6
975.0	319	15.0	7.0	59	6.48	289	12	290.2	308.9	291.4
941.9	610	12.2	6.2	67	6.35	270	12	290.3	308.7	291.4
925.0	763	10.8	5.8	71	6.29	280	12	290.4	308.5	291.4
908.2	914	9.4	5.4	76	6.21	270	14	290.4	308.4	291.5
875.3	1219	6.6	4.5	86	6.05	240	9	290.6	308.1	291.6
855.0	1412	4.8	3.9	94	5.95	212	5	290.7	307.9	291.7
850.0	1460	4.6	3.7	94	5.90	205	4	290.9	308.1	292.0
812.3	1829	2.4	1.6	94	5.32	115	11	292.4	308.1	293.4
812.0	1832	2.4	1.6	94	5.32	116	11	292.4	308.1	293.4
803.0	1922	5.0	-3.0	56	3.84	133	11	296.1	307.8	296.8
799.0	1963	6.8	-16.2	18	1.36	142	11	298.5	302.9	298.7
795.0	2004	8.4	-24.6	8	0.66	150	12	300.6	302.9	300.7
782.6	2134	7.8	-23.1	9	0.77	175	12	301.4	304.0	301.5
777.0	2193	7.6	-22.4	10	0.82	178	11	301.7	304.5	301.9
753.9	2438	5.7	-23.7	10	0.75	190	6	302.3	304.9	302.4
726.1	2743	3.3	-25.4	10	0.67	190	6	302.9	305.3	303.1
700.0	3041	1.0	-27.0	10	0.60	225	4	303.6	305.7	303.7
684.0	3226	-0.5	-28.5	10	0.54	209	5	303.9	305.8	304.0
653.0	3594	-3.7	-24.7	18	0.80	176	6	304.3	307.1	304.5
647.7	3658	-4.1	-25.7	17	0.73	170	6	304.6	307.1	304.7
623.1	3962	-6.1	-30.4	13	0.49	210	3	305.7	307.5	305.8
608.0	4154	-7.3	-33.3	11	0.38	216	4	306.5	307.8	306.5
599.1	4267	-8.3	-32.7	12	0.41	220	5	306.5	308.0	306.6
562.0	4760	-12.9	-29.9	23	0.57	228	6	306.8	308.9	306.9

553.4	4877	-13.7	-31.9	20	0.48	230	6	307.2	308.9	307.3
531.5	5182	-15.9	-37.1	14	0.30	245	13	308.1	309.2	308.2
526.0	5261	-16.5	-38.5	13	0.26	239	13	308.4	309.3	308.4
510.4	5486	-18.2	-39.0	14	0.26	220	13	309.0	310.0	309.1
500.0	5640	-19.3	-39.3	15	0.25	225	15	309.4	310.4	309.5
489.0	5804	-20.7	-36.7	22	0.34	225	18	309.7	310.9	309.8
472.0	6065	-22.3	-40.3	18	0.24	225	22	310.9	311.8	310.9
470.0	6096	-22.6	-40.2	18	0.25	225	23	310.9	311.8	310.9
445.0	6492	-26.5	-39.5	28	0.28	231	27	310.9	311.9	310.9
441.0	6557	-26.9	-44.9	17	0.16	233	28	311.1	311.8	311.2
435.0	6656	-27.7	-41.7	25	0.23	234	29	311.4	312.2	311.4
431.9	6706	-28.2	-42.0	25	0.22	235	29	311.4	312.2	311.4
400.0	7250	-33.5	-45.5	29	0.16	245	27	311.4	312.0	311.4
379.4	7620	-36.8	-47.3	33	0.14	250	29	311.7	312.3	311.7
373.0	7738	-37.9	-47.9	34	0.13	252	31	311.8	312.3	311.8
363.0	7925	-38.6	-53.0	21	0.08	255	34	313.2	313.6	313.3
357.0	8041	-39.1	-56.1	15	0.05	249	33	314.1	314.4	314.1
347.3	8230	-40.1	-58.7	12	0.04	240	31	315.3	315.5	315.3
345.0	8276	-40.3	-59.3	11	0.04	240	31	315.6	315.8	315.6
303.4	9144	-46.0	-65.0	10	0.02	235	36	319.4	319.5	319.4
300.0	9220	-46.5	-65.5	10	0.02	240	38	319.7	319.8	319.7
299.0	9242	-46.7	-65.7	10	0.02	240	38	319.7	319.8	319.7
286.0	9534	-46.7	-68.7	6	0.01	241	39	323.8	323.9	323.8
275.0	9791	-48.7	-70.7	6	0.01	242	40	324.6	324.6	324.6
250.0	10410	-50.9	-72.9	6	0.01	245	42	330.3	330.3	330.3
239.0	10702	-51.9	-75.9	4	0.01	245	39	333.0	333.1	333.0
218.8	11278	-50.4	-78.1	2	0.00	255	35	343.8	343.8	343.8
217.0	11331	-50.3	-78.3	2	0.00	252	36	344.8	344.8	344.8
212.0	11482	-51.7	-79.7	2	0.00	245	37	344.9	345.0	344.9
208.8	11582	-51.9	-80.4	2	0.00	240	38	346.2	346.2	346.2
200.0	11860	-52.3	-82.3	2	0.00	245	41	349.8	349.8	349.8
195.0	12024	-53.1	-83.1	1	0.00	245	38	351.1	351.1	351.1
191.0	12158	-52.1	-84.1	1	0.00	245	35	354.7	354.8	354.7
190.0	12192	-52.2	-84.2	1	0.00	245	34	355.2	355.2	355.2
180.0	12542	-52.9	-84.9	1	0.00	248	41	359.5	359.5	359.5
177.0	12650	-51.7	-84.7	1	0.00	249	44	363.2	363.2	363.2
172.9	12802	-51.5	-84.5	1	0.00	250	47	365.9	365.9	365.9
172.0	12837	-51.5	-84.5	1	0.00	251	46	366.5	366.5	366.5
165.0	13106	-52.7	-85.7	1	0.00	255	36	368.9	368.9	368.9
158.0	13386	-53.9	-86.9	1	0.00	253	40	371.4	371.4	371.4
151.0	13677	-53.5	-86.5	1	0.00	250	43	377.0	377.0	377.0
150.0	13720	-53.7	-86.7	1	0.00	250	44	377.3	377.4	377.3
146.0	13893	-55.1	-87.1	1	0.00	251	46	377.8	377.9	377.8
145.0	13937	-54.7	-86.7	1	0.00	251	46	379.3	379.3	379.3
135.0	14394	-56.1	-88.1	1	0.00	254	50	384.6	384.6	384.6
130.1	14630	-55.3	-87.3	1	0.00	255	52	390.2	390.2	390.2
129.0	14684	-55.1	-87.1	1	0.00	255	52	391.4	391.5	391.4
119.0	15197	-57.7	-88.7	1	0.00	250	50	395.8	395.8	395.8
118.2	15240	-57.8	-88.7	1	0.00	250	50	396.4	396.4	396.4
110.0	15693	-58.9	-88.9	1	0.00	250	45	402.5	402.6	402.5
100.0	16290	-60.3	-90.3	1	0.00	250	39	410.9	411.0	410.9
94.4	16649	-59.7	-89.7	1	0.00	248	35	418.9	419.0	418.9
87.9	17090	-62.5	-91.5	1	0.00	245	30	422.0	422.0	422.0
72.4	18288	-60.1	-90.0	1	0.00	235	28	451.1	451.1	451.1
70.2	18482	-59.7	-89.7	1	0.00	244	32	455.9	456.0	455.9
70.0	18500	-59.7	-89.7	1	0.00	245	32	456.3	456.3	456.3
62.1	19242	-63.3	-91.3	1	0.00	264	28	464.2	464.2	464.2
51.4	20422	-59.1	-89.7	1	0.00	295	22	500.0	500.0	500.0
50.1	20577	-58.5	-89.5	1	0.00	304	20	504.9	504.9	504.9

50.0	20590	-58.5	-89.5	1	0.00	305	20	505.2	505.2	505.2
48.9	20726	-58.6	-89.5	1	0.00	320	14	508.0	508.0	508.0
44.6	21308	-59.3	-89.3	1	0.00	229	3	520.0	520.0	520.0
44.4	21336	-59.2	-89.3	1	0.00	225	2	520.9	521.0	520.9
42.1	21671	-57.9	-88.9	1	0.00	225	9	532.1	532.1	532.1
40.3	21946	-58.3	-89.1	1	0.00	225	14	537.8	537.9	537.8
38.4	22250	-58.7	-89.3	1	0.00	215	13	544.2	544.2	544.2
36.6	22555	-59.2	-89.5	1	0.00	240	18	550.7	550.7	550.7
33.7	23070	-59.9	-89.9	1	0.00	278	15	561.8	561.8	561.8
33.2	23165	-59.8	-89.8	1	0.00	285	14	564.6	564.6	564.6
31.6	23470	-59.3	-89.3	1	0.00	295	17	573.6	573.7	573.6
31.5	23493	-59.3	-89.3	1	0.00	294	17	574.3	574.4	574.3
30.0	23800	-57.7	-88.7	1	0.01	280	16	586.8	586.8	586.8
28.7	24079	-55.6	-87.3	1	0.01	275	17	600.0	600.1	600.0
28.2	24193	-54.7	-86.7	1	0.01	284	14	605.5	605.6	605.5
27.4	24384	-54.5	-86.5	1	0.01	300	10	611.3	611.4	611.3
25.7	24787	-54.1	-86.1	1	0.01	287	15	623.5	623.6	623.5
24.9	24994	-54.6	-86.3	1	0.01	280	18	627.9	628.0	627.9
23.7	25298	-55.3	-86.5	1	0.01	240	9	634.5	634.5	634.5
23.1	25467	-55.7	-86.7	1	0.01	248	15	638.1	638.2	638.1
22.6	25603	-55.3	-86.6	1	0.01	255	20	643.2	643.4	643.2
21.6	25908	-54.3	-86.3	1	0.01	245	25	654.9	655.0	654.9
20.1	26358	-52.9	-85.9	1	0.01	273	22	672.5	672.7	672.5
20.0	26390	-52.9	-84.9	1	0.01	275	22	673.5	673.6	673.5
19.6	26518	-53.5	-85.5	1	0.01	280	21	675.5	675.7	675.5
19.2	26652	-54.1	-86.1	1	0.01	274	22	677.7	677.8	677.7
17.8	27141	-51.5	-84.5	1	0.02	256	25	700.7	700.9	700.7
17.8	27127	-51.6	-84.5	1	0.02	255	25	700.1	700.2	700.1
17.0	27432	-52.5	-84.7	1	0.02	270	19	706.5	706.7	706.5
16.9	27477	-52.7	-84.7	1	0.02	268	21	707.3	707.5	707.4
16.2	27737	-51.5	-84.3	1	0.02	255	30	719.4	719.6	719.4
15.4	28080	-49.9	-83.9	1	0.02	275	27	735.6	735.9	735.6
14.8	28346	-50.7	-83.9	1	0.02	290	25	741.7	741.9	741.7
14.6	28428	-50.9	-83.9	1	0.02	290	26	743.5	743.8	743.6
12.8	29261	-48.8	-82.6	1	0.03	290	31	778.5	778.9	778.5
12.5	29444	-48.3	-82.3	1	0.04	293	26	786.4	786.8	786.4
12.1	29658	-49.7	-82.7	1	0.04	297	20	788.8	789.2	788.8
11.7	29870	-48.0	-81.8	1	0.04	300	14	802.3	802.8	802.3
11.2	30168	-45.5	-80.5	1	0.06	285	20	821.5	822.2	821.6
10.7	30480	-45.2	-80.2	1	0.06	270	27	833.5	834.3	833.6
10.4	30662	-45.1	-80.1	1	0.06			840.6	841.4	840.6

## Station information and sounding indices

Station identifier: NKX  
 Station number: 72293  
 Observation time: 150422/0000  
 Station latitude: 32.85  
 Station longitude: -117.12  
 Station elevation: 137.0  
 Showalter index: 4.27  
 Lifted index: 3.33  
 LIFT computed using virtual temperature: 3.18  
 SWEAT index: 67.40  
 K index: -0.40  
 Cross totals index: 23.00  
 Vertical totals index: 23.90  
 Totals totals index: 46.90  
 Convective Available Potential Energy: 7.58

CAPE using virtual temperature: 10.48  
     Convective Inhibition: 0.00  
 CINS using virtual temperature: 0.00  
     Equilibrium Level: 811.25  
 Equilibrium Level using virtual temperature: 811.00  
     Level of Free Convection: 860.67  
 LFCT using virtual temperature: 860.67  
     Bulk Richardson Number: 0.59  
     Bulk Richardson Number using CAPV: 0.82  
 Temp [K] of the Lifted Condensation Level: 278.47  
 Pres [hPa] of the Lifted Condensation Level: 860.67  
     Mean mixed layer potential temperature: 290.67  
     Mean mixed layer mixing ratio: 6.55  
     1000 hPa to 500 hPa thickness: 5536.00  
 Precipitable water [mm] for entire sounding: 14.15

## 72293 NKX San Diego Observations at 12Z 22 Apr 2015

PRES	HGHT	TEMP	DWPT	RELH	MIXR	DRCT	SKNT	THTA	THTE	THTV
hPa	m	C	C	%	g/kg	deg	knot	K	K	K
1000.0	106									
996.0	137	13.4	10.0	80	7.79	150	3	286.9	308.9	288.2
984.0	240	13.6	9.8	78	7.78	92	3	288.1	310.1	289.4
976.4	305	13.1	9.8	80	7.82	55	3	288.2	310.4	289.6
963.0	422	12.2	9.7	85	7.90	110	2	288.4	310.9	289.8
946.0	572	11.0	6.7	75	6.55	182	1	288.7	307.4	289.8
941.7	610	10.7	6.5	75	6.48	200	1	288.8	307.4	289.9
925.0	760	9.6	5.7	77	6.24	270	2	289.1	307.1	290.2
908.0	914	8.6	4.3	74	5.75	305	4	289.6	306.2	290.6
905.0	941	8.4	4.0	74	5.66	300	5	289.7	306.1	290.7
874.9	1219	6.0	3.1	81	5.49	245	11	290.0	306.0	291.0
850.0	1456	4.0	2.3	89	5.34	260	10	290.3	305.9	291.3
842.9	1524	3.4	2.0	91	5.28	265	10	290.3	305.7	291.3
820.0	1747	1.2	1.1	99	5.08	254	11	290.4	305.2	291.2
811.7	1829	0.8	0.7	99	4.97	250	12	290.7	305.3	291.6
801.0	1935	0.2	0.1	99	4.84	266	11	291.2	305.4	292.1
800.0	1946	0.2	-0.6	94	4.60	267	10	291.4	304.9	292.2
798.0	1966	0.6	-3.6	73	3.69	270	10	292.0	303.0	292.6
795.0	1996	3.2	-10.8	35	2.12	275	10	295.1	301.7	295.4
792.0	2027	5.8	-16.2	19	1.37	279	9	298.2	302.6	298.4
789.0	2058	6.8	-18.2	15	1.16	284	9	299.6	303.4	299.8
781.7	2134	6.2	-18.4	15	1.16	295	8	299.7	303.5	299.9
772.0	2236	5.4	-18.6	16	1.15	313	6	299.9	303.7	300.1
753.1	2438	4.9	-24.5	10	0.70	350	3	301.5	303.9	301.7
741.0	2570	4.6	-28.4	7	0.50	333	6	302.6	304.3	302.7
731.0	2680	3.8	-21.2	14	0.97	318	9	302.9	306.2	303.1
725.3	2743	3.3	-21.2	15	0.98	310	10	303.0	306.3	303.2
700.0	3030	1.0	-21.0	18	1.03	275	8	303.6	307.0	303.8
680.0	3262	-0.9	-26.9	12	0.63	271	9	304.0	306.1	304.1
646.7	3658	-4.2	-25.3	18	0.76	265	10	304.6	307.2	304.7
627.0	3902	-6.3	-24.3	23	0.86	265	10	304.9	307.9	305.1
610.0	4116	-7.3	-29.3	15	0.56	265	11	306.2	308.1	306.3
598.2	4267	-8.6	-29.6	17	0.55	265	11	306.4	308.4	306.5
552.5	4877	-13.6	-30.7	22	0.54	290	13	307.4	309.4	307.6
552.0	4884	-13.7	-30.7	22	0.54	289	13	307.5	309.4	307.6
542.0	5023	-14.5	-27.5	32	0.74	278	13	308.1	310.7	308.2
537.0	5093	-14.7	-33.7	18	0.42	272	13	308.7	310.2	308.8

530.7	5182	-15.1	-33.2	20	0.44	265	13	309.2	310.8	309.3
517.0	5379	-16.1	-32.1	24	0.50	261	14	310.4	312.2	310.5
500.0	5630	-18.1	-40.1	13	0.23	255	16	310.9	311.8	310.9
496.0	5690	-18.5	-42.5	10	0.18	254	17	311.1	311.8	311.2
481.0	5919	-20.5	-41.5	13	0.21	249	20	311.4	312.2	311.4
469.6	6096	-21.8	-44.6	11	0.15	245	22	311.9	312.5	311.9
444.0	6508	-24.9	-51.9	6	0.07	247	24	313.1	313.4	313.1
422.0	6877	-28.1	-43.1	22	0.20	248	27	313.6	314.3	313.6
406.0	7154	-30.3	-50.3	12	0.09	250	28	314.2	314.6	314.2
400.0	7260	-31.3	-50.3	14	0.10	250	29	314.2	314.6	314.2
380.0	7620	-34.1	-51.1	16	0.09	255	36	315.2	315.5	315.2
380.0	7620	-34.1	-51.1	16	0.09	255	36	315.2	315.5	315.2
359.0	8014	-36.5	-56.5	11	0.05	252	38	317.1	317.3	317.1
307.0	9077	-44.5	-59.5	17	0.04	245	45	320.4	320.6	320.4
303.9	9144	-45.1	-60.1	17	0.04	245	45	320.5	320.6	320.5
300.0	9230	-45.9	-60.9	17	0.04	245	46	320.6	320.7	320.6
285.0	9568	-48.9	-63.9	16	0.02	245	47	321.0	321.1	321.0
265.0	10042	-51.3	-68.3	11	0.01	245	48	324.2	324.3	324.2
250.0	10420	-51.3	-71.3	7	0.01	245	49	329.7	329.7	329.7
241.0	10659	-51.1	-73.1	6	0.01	246	53	333.4	333.5	333.4
228.0	11018	-53.1	-76.1	4	0.01	249	59	335.7	335.7	335.7
223.0	11162	-52.5	-76.5	4	0.01	250	61	338.8	338.8	338.8
221.0	11220	-52.9	-76.6	4	0.01	250	62	339.0	339.1	339.0
219.0	11278	-53.3	-76.7	4	0.01	250	62	339.3	339.3	339.3
209.0	11579	-55.3	-77.3	5	0.00	250	53	340.7	340.8	340.7
200.0	11860	-55.1	-78.1	4	0.00	240	50	345.4	345.4	345.4
197.0	11957	-55.5	-78.5	4	0.00	240	50	346.2	346.2	346.2
190.0	12189	-52.7	-78.7	3	0.00	240	49	354.3	354.3	354.3
184.0	12396	-54.1	-82.1	2	0.00	240	49	355.3	355.3	355.3
181.0	12501	-53.7	-82.7	2	0.00	240	49	357.6	357.6	357.6
177.0	12645	-54.5	-83.5	2	0.00	240	48	358.6	358.6	358.6
171.0	12867	-52.9	-83.9	1	0.00	240	48	364.8	364.8	364.8
163.0	13175	-54.9	-85.9	1	0.00	240	47	366.5	366.5	366.5
155.0	13498	-52.7	-84.7	1	0.00	240	46	375.5	375.5	375.5
150.0	13710	-53.3	-85.3	1	0.00	240	46	378.0	378.0	378.0
148.0	13796	-53.3	-85.3	1	0.00	240	45	379.5	379.5	379.5
142.9	14021	-54.8	-86.2	1	0.00	240	43	380.7	380.7	380.7
140.0	14151	-55.7	-86.7	1	0.00	242	51	381.4	381.4	381.4
138.0	14243	-55.5	-86.5	1	0.00	244	56	383.3	383.3	383.3
137.0	14289	-54.5	-85.5	1	0.00	244	59	385.8	385.9	385.8
136.2	14326	-54.7	-85.7	1	0.00	245	61	386.2	386.2	386.2
135.0	14383	-54.9	-85.9	1	0.00	246	59	386.8	386.8	386.8
134.0	14431	-54.1	-86.1	1	0.00	248	58	389.0	389.0	389.0
131.0	14576	-53.9	-85.9	1	0.00	251	54	391.9	391.9	391.9
123.8	14935	-55.6	-87.1	1	0.00	260	44	395.2	395.2	395.2
118.0	15240	-57.0	-88.1	1	0.00	250	35	398.1	398.1	398.1
116.0	15348	-57.5	-88.5	1	0.00	250	38	399.1	399.1	399.1
107.1	15850	-58.1	-88.1	1	0.00	250	50	407.1	407.1	407.1
107.0	15857	-58.1	-88.1	1	0.00	250	50	407.2	407.3	407.2
100.0	16280	-60.1	-89.1	1	0.00	255	37	411.3	411.3	411.3
92.5	16764	-61.7	-90.0	1	0.00	255	43	417.5	417.5	417.5
89.7	16957	-62.3	-90.3	1	0.00	260	40	419.9	419.9	419.9
83.9	17374	-60.5	-88.5	1	0.00	270	28	431.6	431.6	431.6
83.1	17432	-60.3	-88.3	1	0.00	267	27	433.3	433.3	433.3
79.9	17678	-61.5	-89.5	1	0.00	255	24	435.7	435.7	435.7
79.4	17716	-61.7	-89.7	1	0.00	254	25	436.1	436.1	436.1
76.1	17983	-61.4	-89.4	1	0.00	245	32	442.0	442.0	442.0
72.4	18288	-61.1	-89.1	1	0.00	255	24	448.9	448.9	448.9
70.2	18482	-60.9	-88.9	1	0.00	269	17	453.4	453.4	453.4

70.0	18500	-61.1	-89.1	1	0.00	270	16	453.3	453.3	453.3
69.0	18593	-61.6	-89.4	1	0.00	270	16	454.1	454.1	454.1
65.6	18898	-63.4	-90.6	1	0.00	240	18	456.8	456.8	456.8
64.7	18986	-63.9	-90.9	1	0.00	244	18	457.5	457.5	457.5
59.4	19507	-64.2	-90.5	2	0.00	270	19	468.1	468.1	468.1
57.8	19677	-64.3	-90.3	2	0.00	267	18	471.6	471.6	471.6
56.6	19812	-63.0	-89.9	2	0.00	265	17	477.5	477.5	477.5
53.8	20117	-60.0	-88.9	1	0.00	285	21	491.1	491.1	491.1
52.3	20298	-58.3	-88.3	1	0.00	264	9	499.2	499.2	499.2
51.3	20422	-58.8	-88.8	1	0.00	250	1	500.8	500.8	500.8
50.0	20580	-59.5	-89.5	1	0.00	185	7	502.8	502.9	502.8
44.5	21306	-61.3	-90.3	1	0.00	247	10	515.5	515.5	515.5
44.3	21336	-61.2	-90.3	1	0.00	250	10	516.3	516.4	516.3
42.2	21641	-60.7	-90.1	1	0.00	250	13	524.9	525.0	524.9
40.2	21946	-60.2	-89.9	1	0.00	300	18	533.7	533.7	533.7
34.7	22860	-58.5	-89.3	1	0.00	270	10	560.7	560.8	560.7
33.4	23098	-58.1	-89.1	1	0.00	305	8	568.0	568.0	568.0
33.0	23165	-58.4	-89.2	1	0.00	315	8	569.0	569.1	569.0
30.7	23626	-60.1	-90.1	1	0.00	281	16	576.4	576.4	576.4
30.0	23774	-59.3	-90.3	1	0.00	270	14	582.5	582.6	582.5
30.0	23770	-59.3	-90.3	1	0.00	270	19	582.4	582.4	582.4
28.6	24079	-57.9	-89.3	1	0.00	270	26	594.6	594.6	594.6
27.2	24384	-56.4	-88.4	1	0.01	280	25	606.8	606.9	606.8
24.7	25003	-53.5	-86.5	1	0.01	289	16	632.4	632.4	632.4
24.7	24994	-53.5	-86.5	1	0.01	290	16	632.0	632.1	632.0
22.5	25603	-55.5	-87.8	1	0.01	245	15	643.6	643.6	643.6
21.9	25771	-56.1	-88.1	1	0.01	249	16	646.7	646.8	646.7
20.4	26213	-54.6	-87.3	1	0.01	260	19	664.3	664.4	664.3
20.0	26350	-54.1	-87.1	1	0.01	260	19	669.8	669.9	669.8
19.5	26518	-52.9	-85.9	1	0.01	290	30	678.5	678.6	678.5
19.5	26513	-52.9	-85.9	1	0.01	289	30	678.4	678.5	678.4
18.7	26782	-53.7	-85.7	1	0.01	292	27	684.1	684.2	684.1
17.7	27127	-52.9	-85.3	1	0.02	295	23	697.2	697.3	697.2
16.9	27432	-52.1	-84.9	1	0.02	315	25	709.0	709.1	709.0
16.1	27737	-51.4	-84.5	1	0.02	325	24	721.0	721.2	721.0
15.4	28042	-50.7	-84.1	1	0.02	290	19	733.1	733.4	733.1
14.7	28346	-49.9	-83.7	1	0.02	300	19	745.5	745.8	745.5
14.3	28522	-49.5	-83.5	1	0.03	288	17	752.7	753.0	752.7
13.5	28897	-51.1	-84.1	1	0.03	264	13	759.7	760.0	759.7
13.4	28956	-51.0	-84.1	1	0.03	260	12	761.9	762.2	761.9
12.2	29566	-50.2	-84.1	1	0.03	270	29	785.4	785.7	785.4
12.0	29664	-50.1	-84.1	1	0.03	267	26	789.2	789.6	789.2
11.6	29870	-50.8	-84.1	1	0.03	260	19	793.7	794.1	793.8
11.5	29942	-51.1	-84.1	1	0.03	255	21	795.3	795.7	795.3
11.1	30175	-49.1	-82.8	1	0.04	240	29	810.7	811.2	810.7
10.9	30292	-48.1	-82.1	1	0.04	248	32	818.5	819.0	818.5
10.6	30480	-48.0	-82.4	1	0.04	260	37	825.4	826.0	825.5
10.0	30860	-47.9	-82.9	1	0.04	275	35	839.6	840.2	839.7
9.7	31061	-48.5	-82.5	1	0.05	275	33	844.7	845.3	844.8
8.8	31699	-45.6	-80.4	1	0.07	275	27	879.2	880.2	879.3
8.6	31863	-44.9	-79.9	1	0.08	276	31	888.3	889.3	888.3
8.2	32182	-45.3	-80.3	1	0.08	278	38	898.9	899.9	898.9
7.7	32614	-43.8	-79.2	1	0.10	280	48	921.3	922.7	921.4
7.0	33250	-41.7	-77.7	1	0.14	290	37	955.3	957.2	955.4
7.0	33223	-41.8	-77.8	1	0.14	290	39	953.8	955.8	953.9
6.9	33347	-42.1	-78.1	1	0.13			957.6	959.4	957.7

## Station information and sounding indices

Station identifier: NKX  
Station number: 72293  
Observation time: 150422/1200  
Station latitude: 32.85  
Station longitude: -117.12  
Station elevation: 137.0  
Showalter index: 6.91  
Lifted index: 4.62  
LIFT computed using virtual temperature: 4.47  
SWEAT index: 63.61  
K index: 2.40  
Cross totals index: 20.40  
Vertical totals index: 22.10  
Totals totals index: 42.50  
Convective Available Potential Energy: 29.23  
CAPE using virtual temperature: 33.57  
Convective Inhibition: -13.58  
CINS using virtual temperature: -9.17  
Equilibrium Level: 796.71  
Equilibrium Level using virtual temperature: 796.25  
Level of Free Convection: 874.01  
LFCT using virtual temperature: 881.69  
Bulk Richardson Number: 2.27  
Bulk Richardson Number using CAPV: 2.60  
Temp [K] of the Lifted Condensation Level: 281.29  
Pres [hPa] of the Lifted Condensation Level: 918.08  
Mean mixed layer potential temperature: 288.25  
Mean mixed layer mixing ratio: 7.47  
1000 hPa to 500 hPa thickness: 5524.00  
Precipitable water [mm] for entire sounding: 14.77

## 72293 NKX San Diego Observations at 00Z 23 Apr 2015

PRES	HGHT	TEMP	DWPT	RELH	MIXR	DRCT	SKNT	THTA	THTE	THTV
hPa	m	C	C	%	g/kg	deg	knot	K	K	K
1000.0	106									
996.0	137	19.2	10.2	56	7.90	250	8	292.7	315.5	294.1
983.0	250	17.2	9.2	59	7.48	237	9	291.8	313.4	293.1
976.7	305	16.1	8.1	59	6.99	230	9	291.2	311.4	292.4
968.0	382	14.6	6.6	59	6.35	235	9	290.4	308.8	291.6
942.2	610	12.5	6.5	67	6.50	250	8	290.5	309.3	291.6
925.0	766	11.0	6.5	74	6.60	245	7	290.6	309.6	291.7
908.6	914	9.8	6.1	78	6.55	250	7	290.8	309.7	291.9
875.8	1219	7.2	5.4	88	6.44	130	2	291.2	309.9	292.3
873.0	1245	7.0	5.3	89	6.44	133	2	291.2	309.9	292.4
857.0	1398	7.0	3.5	78	5.77	152	4	292.8	309.7	293.8
850.0	1465	6.4	3.3	81	5.74	160	5	292.8	309.7	293.9
813.0	1829	3.5	3.1	97	5.92	105	8	293.5	310.9	294.5
812.0	1839	3.4	3.1	98	5.92	106	8	293.5	310.9	294.6
799.0	1970	2.6	1.4	92	5.33	121	8	294.0	309.8	295.0
795.0	2010	3.6	-0.8	73	4.56	126	8	295.5	309.2	296.3
789.0	2072	6.2	-10.8	28	2.14	133	8	298.9	305.7	299.3
783.1	2134	6.3	-16.0	18	1.41	140	8	299.7	304.3	299.9
779.0	2177	6.4	-19.6	14	1.04	137	7	300.2	303.7	300.4
766.0	2314	6.0	-19.0	15	1.12	128	4	301.2	305.0	301.4



762.0	2357	5.6	-19.4	15	1.09	125	4	301.3	304.9	301.5
754.5	2438	4.9	-14.2	24	1.69	120	2	301.4	306.9	301.7
743.0	2563	3.8	-6.2	48	3.25	169	2	301.5	311.7	302.1
726.6	2743	2.3	-6.9	50	3.15	240	1	301.8	311.7	302.4
700.0	3044	-0.1	-8.1	55	2.98	180	1	302.3	311.7	302.9
686.0	3206	-1.5	-8.5	59	2.95	184	3	302.5	311.8	303.1
681.0	3264	-1.7	-10.7	50	2.50	185	3	302.9	310.9	303.4
673.0	3358	-2.7	-9.7	59	2.73	188	4	302.9	311.5	303.4
659.0	3525	-3.7	-11.7	54	2.38	192	6	303.6	311.2	304.0
648.0	3658	-4.9	-10.9	63	2.58	195	7	303.6	311.9	304.1
648.0	3657	-4.9	-10.9	63	2.58	195	7	303.6	311.9	304.1
628.0	3903	-6.9	-13.9	57	2.09	207	9	304.1	310.9	304.5
611.0	4117	-8.7	-13.7	67	2.18	218	10	304.4	311.5	304.8
606.0	4181	-9.1	-13.7	69	2.20	221	10	304.7	311.8	305.1
600.0	4258	-8.9	-19.9	41	1.32	225	11	305.8	310.2	306.0
599.3	4267	-8.9	-19.8	41	1.34	225	11	305.8	310.3	306.1
592.0	4362	-9.5	-18.5	48	1.51	233	11	306.2	311.3	306.5
589.0	4401	-9.5	-21.5	37	1.17	236	11	306.7	310.7	306.9
579.0	4534	-9.7	-20.7	40	1.28	247	11	308.0	312.3	308.2
553.7	4877	-12.0	-25.3	32	0.89	275	11	309.2	312.3	309.4
546.0	4985	-12.7	-26.7	30	0.79	271	10	309.6	312.4	309.8
511.0	5486	-16.7	-30.7	29	0.58	250	4	310.6	312.7	310.7
508.0	5531	-17.1	-31.1	29	0.56	246	4	310.7	312.7	310.8
500.0	5650	-18.3	-33.3	26	0.46	235	5	310.7	312.4	310.8
490.0	5800	-19.7	-41.7	12	0.20	233	7	310.8	311.5	310.8
470.7	6096	-21.7	-48.6	7	0.10	230	10	311.9	312.3	311.9
463.0	6217	-22.5	-51.5	5	0.07	229	11	312.3	312.6	312.4
434.0	6687	-26.3	-52.3	7	0.07	225	13	313.3	313.6	313.4
431.0	6737	-26.9	-46.9	13	0.13	225	14	313.2	313.7	313.2
426.0	6821	-27.5	-52.5	7	0.07	224	14	313.5	313.8	313.5
423.0	6872	-27.9	-45.9	16	0.15	223	15	313.6	314.2	313.6
419.0	6940	-28.5	-47.5	14	0.13	223	15	313.7	314.2	313.7
415.0	7008	-28.9	-38.9	38	0.32	222	15	314.0	315.2	314.1
410.0	7095	-29.7	-40.7	34	0.27	222	16	314.1	315.1	314.1
407.0	7147	-30.1	-37.1	50	0.39	221	16	314.2	315.7	314.3
402.0	7235	-30.7	-36.7	56	0.41	220	17	314.6	316.1	314.6
400.0	7270	-31.1	-36.1	61	0.44	220	17	314.5	316.1	314.6
394.0	7377	-31.9	-37.9	55	0.37	223	19	314.8	316.2	314.9
389.0	7467	-32.5	-37.2	63	0.40	226	20	315.2	316.7	315.2
380.6	7620	-33.7	-39.5	56	0.33	230	22	315.6	316.8	315.6
379.0	7650	-33.9	-39.9	55	0.32	230	22	315.7	316.9	315.7
373.0	7762	-34.9	-40.9	54	0.29	228	23	315.8	316.9	315.9
348.6	8230	-39.2	-42.7	69	0.26	220	25	316.1	317.1	316.2
346.0	8282	-39.7	-42.9	71	0.25	220	24	316.1	317.1	316.2
338.0	8441	-40.9	-46.9	52	0.17	218	23	316.6	317.3	316.7
322.0	8769	-44.1	-48.3	63	0.15	216	19	316.6	317.2	316.6
318.7	8839	-44.7	-50.3	53	0.12	215	18	316.8	317.2	316.8
313.0	8959	-45.7	-53.7	40	0.08	217	17	317.0	317.3	317.0
304.4	9144	-47.4	-53.4	50	0.09	220	16	317.1	317.5	317.1
300.0	9240	-48.3	-53.3	56	0.09	225	15	317.2	317.5	317.2
290.6	9449	-50.2	-55.0	57	0.08	235	13	317.4	317.7	317.4
287.0	9530	-50.9	-55.6	57	0.07	225	17	317.5	317.8	317.5
283.0	9622	-51.1	-57.1	49	0.06	221	19	318.5	318.7	318.5
277.3	9754	-50.5	-67.0	13	0.02	215	23	321.2	321.2	321.2
277.0	9761	-50.5	-67.5	12	0.02	215	23	321.3	321.4	321.3
268.0	9977	-50.9	-72.9	6	0.01	219	33	323.8	323.8	323.8
264.7	10058	-50.6	-73.3	5	0.01	220	37	325.4	325.4	325.4
259.0	10199	-50.1	-74.1	4	0.01	224	37	328.1	328.1	328.1
250.0	10430	-51.1	-75.1	4	0.01	230	37	330.0	330.0	330.0

241.0	10667	-52.3	-76.3	4	0.00	227	39	331.6	331.7	331.6
233.0	10885	-51.9	-77.9	3	0.00	224	41	335.5	335.5	335.5
214.0	11432	-53.3	-80.3	2	0.00	217	47	341.5	341.6	341.5
209.1	11582	-51.6	-80.7	2	0.00	215	48	346.4	346.4	346.4
207.0	11647	-50.9	-80.9	2	0.00	216	47	348.6	348.6	348.6
200.0	11870	-50.3	-82.3	1	0.00	220	44	352.9	353.0	352.9
181.6	12497	-52.9	-84.3	1	0.00	250	37	358.7	358.7	358.7
173.2	12802	-54.1	-85.3	1	0.00	235	29	361.5	361.5	361.5
168.0	13001	-54.9	-85.9	1	0.00	232	36	363.3	363.3	363.3
165.3	13106	-54.0	-85.9	1	0.00	230	40	366.6	366.6	366.6
165.0	13116	-53.9	-85.9	1	0.00	230	40	366.9	366.9	366.9
157.0	13436	-54.7	-86.7	1	0.00	227	38	370.8	370.8	370.8
150.3	13716	-53.4	-86.3	1	0.00	225	37	377.7	377.7	377.7
150.0	13730	-53.3	-86.3	1	0.00	225	37	378.0	378.0	378.0
148.0	13816	-53.1	-86.1	1	0.00	228	37	379.8	379.8	379.8
140.0	14172	-55.3	-87.3	1	0.00	240	37	382.1	382.1	382.1
137.0	14311	-54.7	-86.7	1	0.00	244	37	385.5	385.5	385.5
136.7	14326	-54.8	-86.8	1	0.00	245	37	385.6	385.6	385.6
131.0	14596	-56.3	-88.3	1	0.00	232	30	387.6	387.6	387.6
130.3	14630	-56.0	-88.0	1	0.00	230	29	388.7	388.7	388.7
128.0	14743	-55.1	-87.1	1	0.00	230	31	392.3	392.3	392.3
121.0	15102	-55.5	-87.5	1	0.00	230	37	397.9	397.9	397.9
118.4	15240	-56.3	-88.0	1	0.00	230	40	398.9	398.9	398.9
113.0	15535	-58.1	-89.1	1	0.00	235	47	400.9	401.0	400.9
112.8	15545	-58.1	-89.1	1	0.00	235	47	401.1	401.1	401.1
106.0	15936	-59.5	-89.5	1	0.00	240	33	405.7	405.7	405.7
100.0	16300	-59.3	-90.3	1	0.00	230	36	412.9	412.9	412.9
85.7	17263	-60.7	-90.7	1	0.00	235	25	428.7	428.7	428.7
80.0	17692	-59.3	-89.3	1	0.00	237	20	440.1	440.1	440.1
72.7	18288	-62.2	-91.4	1	0.00	240	13	446.2	446.3	446.2
70.9	18441	-62.9	-91.9	1	0.00	237	14	447.8	447.9	447.8
70.0	18520	-62.7	-91.7	1	0.00	235	15	449.9	449.9	449.9
65.9	18898	-60.9	-90.6	1	0.00	240	22	461.7	461.7	461.7
63.6	19114	-59.9	-89.9	1	0.00	254	22	468.6	468.6	468.6
62.7	19202	-60.2	-90.0	1	0.00	260	22	469.8	469.8	469.8
59.3	19550	-61.3	-90.3	1	0.00	254	24	474.9	474.9	474.9
56.8	19812	-61.1	-90.4	1	0.00	250	26	481.1	481.1	481.1
52.5	20305	-60.7	-90.7	1	0.00	250	11	493.1	493.1	493.1
51.5	20422	-60.0	-90.0	1	0.00	250	7	497.4	497.4	497.4
50.3	20573	-59.1	-89.1	1	0.00	238	8	502.9	502.9	502.9
50.0	20610	-59.3	-89.3	1	0.00	235	8	503.3	503.3	503.3
46.7	21031	-60.4	-90.0	1	0.00	300	13	510.4	510.4	510.4
44.5	21336	-61.3	-90.5	1	0.00	275	9	515.5	515.5	515.5
43.4	21493	-61.7	-90.7	1	0.00	298	10	518.2	518.2	518.2
42.4	21641	-60.5	-90.4	1	0.00	320	11	524.7	524.7	524.7
41.2	21817	-59.1	-90.1	1	0.00	47	6	532.4	532.5	532.4
40.4	21946	-59.4	-90.2	1	0.00	110	2	534.8	534.8	534.8
37.2	22456	-60.7	-90.7	1	0.00	194	13	544.1	544.1	544.1
34.9	22860	-59.1	-89.5	1	0.00	260	21	558.4	558.4	558.4
33.2	23165	-57.9	-88.7	1	0.00	285	14	569.4	569.4	569.4
32.2	23363	-57.1	-88.1	1	0.01	272	11	576.6	576.7	576.6
30.2	23774	-58.2	-89.2	1	0.00	245	6	584.4	584.5	584.4
30.0	23810	-58.3	-89.3	1	0.00	255	7	585.1	585.2	585.1
29.4	23937	-58.7	-88.7	1	0.01	255	10	587.4	587.5	587.4
28.8	24079	-57.9	-88.5	1	0.01	255	13	593.3	593.4	593.3
27.4	24384	-56.3	-88.0	1	0.01	280	15	606.2	606.2	606.2
27.1	24453	-55.9	-87.9	1	0.01	286	15	609.1	609.1	609.1
26.1	24689	-56.8	-87.9	1	0.01	305	16	613.1	613.1	613.1
26.0	24716	-56.9	-87.9	1	0.01	301	16	613.5	613.6	613.5

24.9	24994	-55.3	-87.3	1	0.01	260	19	625.7	625.8	625.7
24.9	24991	-55.3	-87.3	1	0.01	260	19	625.7	625.8	625.7
24.5	25094	-56.3	-87.3	1	0.01	267	19	625.8	625.8	625.8
22.6	25603	-56.0	-87.7	1	0.01	300	17	641.0	641.1	641.0
21.8	25837	-55.9	-87.9	1	0.01	285	18	648.2	648.2	648.2
21.6	25908	-55.4	-87.6	1	0.01	280	18	651.6	651.7	651.6
20.4	26262	-53.1	-86.1	1	0.01	284	17	669.1	669.2	669.1
20.0	26390	-53.3	-85.3	1	0.01	285	16	672.3	672.4	672.3
19.6	26520	-53.5	-85.5	1	0.01	285	16	675.5	675.7	675.6
19.6	26518	-53.5	-85.5	1	0.01	285	16	675.5	675.6	675.5
18.7	26822	-51.6	-85.2	1	0.02	260	20	690.7	690.8	690.7
18.5	26893	-51.1	-85.1	1	0.02	264	20	694.3	694.5	694.3
17.9	27127	-51.8	-84.8	1	0.02	275	19	699.3	699.5	699.3
17.9	27107	-51.9	-84.9	1	0.02	274	19	698.3	698.5	698.4
17.0	27432	-50.2	-84.0	1	0.02	250	21	713.9	714.1	713.9
16.8	27520	-49.7	-83.7	1	0.02	251	22	718.2	718.4	718.2
16.2	27737	-50.9	-83.8	1	0.02	255	25	721.2	721.4	721.2
15.8	27920	-51.9	-83.9	1	0.02	262	26	723.7	723.9	723.7
14.1	28655	-52.9	-84.9	1	0.02	290	30	744.2	744.5	744.2
14.1	28651	-52.9	-84.9	1	0.02	290	30	744.1	744.4	744.1
12.6	29386	-49.7	-83.7	1	0.03	299	37	779.7	780.0	779.7
12.2	29598	-47.1	-82.1	1	0.04	302	39	796.1	796.5	796.1
11.7	29870	-46.7	-81.7	1	0.04	305	41	807.0	807.5	807.0
10.7	30480	-45.7	-80.7	1	0.06	300	22	832.0	832.7	832.0
10.1	30854	-45.1	-80.1	1	0.07	334	19	847.7	848.5	847.7
10.0	30920	-45.5	-80.5	1	0.06	340	18	848.6	849.4	848.6
9.8	31090	-46.3	-81.3	1	0.06	340	16	851.7	852.4	851.7
9.7	31122	-46.5	-81.5	1	0.05	339	16	852.2	852.9	852.3
8.9	31696	-43.9	-79.9	1	0.08	318	21	883.5	884.5	883.5
8.4	32083	-44.1	-80.1	1	0.08	304	24	897.4	898.5	897.5
7.8	32583	-40.5	-77.5	1	0.13	286	28	931.0	932.8	931.1
7.0	33320	-39.7	-76.7	1	0.16	260	34	963.6	965.8	963.7
6.8	33528	-39.5	-76.5	1	0.17	260	39	973.0	975.4	973.1
6.5	33827	-39.1	-76.1	1	0.19	260	42	986.7	989.5	986.8
6.2	34150	-40.1	-77.1	1	0.17	260	46	995.9	998.3	996.0
5.9	34490	-38.5	-75.5	1	0.23			1017.0	1020.4	1017.1
5.9	34442	-38.7	-75.7	1	0.22	260	49	1014.0	1017.2	1014.1

## Station information and sounding indices

Station identifier: NKX  
 Station number: 72293  
 Observation time: 150423/0000  
 Station latitude: 32.85  
 Station longitude: -117.12  
 Station elevation: 137.0  
 Showalter index: 4.27  
 Lifted index: 3.59  
 LIFT computed using virtual temperature: 3.45  
 SWEAT index: 54.58  
 K index: 20.00  
 Cross totals index: 21.60  
 Vertical totals index: 24.70  
 Totals totals index: 46.30  
 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: 279.13  
 Pres [hPa] of the Lifted Condensation Level: 863.95  
 Mean mixed layer potential temperature: 291.05  
 Mean mixed layer mixing ratio: 6.85  
 1000 hPa to 500 hPa thickness: 5544.00  
 Precipitable water [mm] for entire sounding: 19.16

## 72293 NKX San Diego Observations at 12Z 23 Apr 2015

PRES	HGHT	TEMP	DWPT	RELH	MIXR	DRCT	SKNT	THTA	THTE	THTV
hPa	m	C	C	%	g/kg	deg	knot	K	K	K
1000.0	100									
996.0	137	13.8	11.7	87	8.74	0	0	287.3	311.9	288.8
989.0	196	14.0	11.3	84	8.57	298	0	288.1	312.3	289.6
976.3	305	13.5	9.8	78	7.82	185	1	288.6	310.8	289.9
975.0	316	13.4	9.6	78	7.75	186	1	288.6	310.7	290.0
941.4	610	11.5	6.7	72	6.57	220	3	289.6	308.5	290.8
936.0	658	11.2	6.2	71	6.39	223	2	289.8	308.2	290.9
925.0	756	10.4	6.2	75	6.47	230	1	289.9	308.6	291.1
907.5	914	9.1	6.2	82	6.57	220	4	290.2	309.1	291.3
878.0	1188	6.8	6.1	95	6.77	72	1	290.6	310.1	291.7
874.7	1219	6.8	5.6	93	6.57	55	1	290.8	309.8	292.0
864.0	1320	6.6	4.1	84	5.98	355	2	291.7	309.1	292.7
850.0	1454	5.4	3.7	89	5.90	275	3	291.8	309.0	292.8
811.7	1829	2.9	2.5	97	5.66	250	9	293.0	309.6	294.0
798.0	1967	2.0	2.0	100	5.57	307	8	293.5	309.9	294.5
786.0	2090	4.0	1.4	83	5.42	357	6	296.9	313.1	297.9
781.8	2134	4.2	-0.4	72	4.78	15	6	297.6	312.0	298.5
779.0	2163	4.4	-1.6	65	4.39	13	6	298.1	311.4	298.9
774.0	2216	4.4	-1.6	65	4.42	8	5	298.6	312.1	299.4
753.0	2438	2.9	-2.5	68	4.26	350	2	299.3	312.3	300.1
731.0	2679	1.2	-3.4	71	4.09	259	2	300.0	312.6	300.8
725.2	2743	0.9	-4.8	65	3.69	235	2	300.4	311.8	301.1
719.0	2812	0.6	-6.4	59	3.31	231	3	300.8	311.1	301.4
700.0	3026	-1.3	-7.3	64	3.17	220	6	301.0	310.9	301.6
697.0	3060	-1.5	-7.5	64	3.14	220	6	301.2	311.0	301.7
686.0	3187	-2.1	-12.1	46	2.21	220	6	301.9	308.9	302.3
668.0	3398	-3.5	-12.5	50	2.20	220	5	302.6	309.7	303.0
658.0	3517	-4.1	-17.1	36	1.53	220	5	303.2	308.2	303.5
649.0	3625	-4.9	-14.9	45	1.86	220	5	303.5	309.6	303.9
646.3	3658	-5.1	-16.2	42	1.68	220	5	303.6	309.1	303.9
639.0	3747	-5.7	-19.7	32	1.26	228	5	304.0	308.2	304.2
631.0	3846	-6.5	-16.5	45	1.68	237	6	304.1	309.6	304.4
614.0	4059	-7.9	-22.9	29	0.99	256	7	304.9	308.3	305.1
597.7	4267	-9.6	-21.8	37	1.13	275	8	305.3	309.1	305.5
597.0	4276	-9.7	-21.7	37	1.14	276	8	305.3	309.1	305.5
583.0	4459	-10.5	-23.5	34	0.99	297	12	306.4	309.8	306.6
574.5	4572	-11.3	-23.9	35	0.97	310	15	306.7	310.1	306.9
565.0	4700	-12.3	-24.3	36	0.95	306	12	307.1	310.3	307.2
556.0	4822	-13.1	-28.1	27	0.68	302	10	307.5	309.9	307.7
552.0	4877	-13.6	-27.6	30	0.72	300	9	307.6	310.1	307.7
532.0	5157	-16.1	-25.1	46	0.94	293	8	307.8	311.1	308.0
520.0	5328	-17.7	-27.7	41	0.76	288	8	307.9	310.6	308.1
504.0	5561	-19.9	-27.9	49	0.77	282	7	308.0	310.7	308.2
500.0	5620	-20.3	-29.3	44	0.68	280	7	308.2	310.6	308.4
490.0	5769	-21.3	-31.3	40	0.57	280	7	308.8	310.8	308.9

484.0	5860	-21.7	-38.7	20	0.28	280	8	309.4	310.4	309.4
468.5	6096	-23.6	-39.2	23	0.27	280	8	309.9	310.9	309.9
442.0	6520	-27.1	-40.1	28	0.26	273	8	310.7	311.7	310.7
431.0	6701	-28.3	-50.3	10	0.09	269	7	311.4	311.8	311.4
406.0	7125	-31.7	-52.7	11	0.07	262	7	312.4	312.7	312.4
400.0	7230	-32.7	-48.7	19	0.11	260	7	312.4	312.9	312.4
395.0	7319	-33.3	-46.3	26	0.15	259	7	312.8	313.3	312.8
391.0	7390	-34.1	-40.1	55	0.30	258	7	312.6	313.7	312.7
385.0	7498	-34.9	-38.2	72	0.37	257	8	312.9	314.3	313.0
378.3	7620	-36.0	-38.8	75	0.36	255	8	313.1	314.4	313.2
353.0	8098	-40.1	-40.9	92	0.30	280	8	313.8	314.9	313.9
348.0	8196	-40.7	-42.5	83	0.26	285	8	314.3	315.3	314.3
341.0	8334	-41.9	-43.2	87	0.25	292	8	314.5	315.4	314.5
326.0	8638	-44.1	-47.5	69	0.16	308	7	315.5	316.1	315.5
316.0	8846	-45.9	-48.7	73	0.15	319	7	315.8	316.4	315.9
308.0	9016	-47.5	-52.3	58	0.10	328	7	315.9	316.3	315.9
302.1	9144	-48.5	-53.3	58	0.09	335	7	316.2	316.6	316.2
300.0	9190	-48.9	-53.6	58	0.09	335	7	316.3	316.7	316.3
299.0	9212	-49.1	-53.9	57	0.08	335	7	316.3	316.7	316.4
293.0	9344	-49.9	-56.9	43	0.06	333	7	317.0	317.3	317.1
282.0	9591	-52.1	-59.1	43	0.05	330	7	317.4	317.6	317.4
275.0	9754	-51.8	-65.0	19	0.02	285	5	320.1	320.2	320.1
273.0	9800	-51.7	-66.7	15	0.02	280	6	320.9	321.0	320.9
266.0	9968	-51.9	-70.9	8	0.01	260	10	323.0	323.1	323.0
262.3	10058	-51.1	-71.9	7	0.01	250	12	325.5	325.5	325.5
256.0	10216	-49.7	-73.7	4	0.01	250	15	329.8	329.8	329.8
250.0	10370	-49.7	-75.7	3	0.01	250	18	332.1	332.1	332.1
247.0	10449	-49.9	-75.9	3	0.01	250	18	332.9	332.9	332.9
238.9	10668	-48.9	-77.3	2	0.00	250	19	337.5	337.6	337.5
237.0	10720	-48.7	-77.7	2	0.00	246	21	338.7	338.7	338.7
230.0	10917	-48.7	-78.7	2	0.00	230	28	341.6	341.6	341.6
228.1	10973	-49.2	-79.2	2	0.00	225	30	341.7	341.7	341.7
226.0	11033	-49.7	-79.7	2	0.00	225	30	341.8	341.8	341.8
207.8	11582	-50.8	-81.5	1	0.00	230	29	348.4	348.4	348.4
200.0	11830	-51.3	-82.3	1	0.00	230	29	351.4	351.4	351.4
195.0	11995	-51.9	-82.9	1	0.00	228	30	353.0	353.0	353.0
187.0	12268	-50.1	-83.1	1	0.00	225	32	360.1	360.1	360.1
183.0	12410	-50.3	-83.3	1	0.00	224	33	362.0	362.0	362.0
172.3	12802	-51.9	-83.9	1	0.00	220	36	365.7	365.7	365.7
172.0	12815	-51.9	-83.9	1	0.00	221	36	365.9	365.9	365.9
168.0	12968	-51.7	-83.7	1	0.00	231	31	368.6	368.7	368.6
164.5	13106	-52.5	-84.5	1	0.00	240	26	369.6	369.6	369.6
159.0	13325	-53.7	-85.7	1	0.00	236	23	371.1	371.1	371.1
156.9	13411	-53.9	-85.9	1	0.00	235	22	372.3	372.3	372.3
151.0	13657	-54.3	-86.3	1	0.00	222	32	375.6	375.6	375.6
150.0	13700	-53.9	-85.9	1	0.00	220	34	377.0	377.0	377.0
149.6	13716	-53.7	-85.7	1	0.00	220	32	377.6	377.7	377.6
149.0	13743	-53.3	-85.3	1	0.00	220	32	378.8	378.8	378.8
144.0	13962	-53.5	-85.5	1	0.00	224	34	382.1	382.1	382.1
129.7	14630	-56.0	-87.2	1	0.00	235	39	389.2	389.3	389.2
127.0	14762	-56.5	-87.5	1	0.00	237	38	390.7	390.7	390.7
126.0	14812	-55.9	-86.9	1	0.00	238	38	392.6	392.6	392.6
117.8	15240	-57.2	-87.4	1	0.00	245	36	397.9	397.9	397.9
116.0	15335	-57.5	-87.5	1	0.00	243	35	399.1	399.1	399.1
111.0	15613	-56.5	-87.5	1	0.00	238	32	406.0	406.0	406.0
110.0	15671	-56.7	-87.7	1	0.00	237	31	406.7	406.7	406.7
100.0	16270	-58.9	-88.9	1	0.00	225	25	413.6	413.7	413.6
91.4	16833	-60.7	-89.7	1	0.00	225	34	420.9	420.9	420.9
88.0	17069	-60.6	-89.6	1	0.00	230	35	425.7	425.7	425.7

83.8	17374	-60.4	-89.4	1	0.00	245	24	432.1	432.1	432.1
79.8	17678	-60.2	-89.2	1	0.00	230	25	438.5	438.5	438.5
74.0	18153	-59.9	-88.9	1	0.00	242	22	448.7	448.7	448.7
72.4	18288	-60.4	-89.0	1	0.00	245	21	450.5	450.5	450.5
70.0	18500	-61.1	-89.1	1	0.00	235	23	453.3	453.3	453.3
69.0	18593	-61.4	-89.3	1	0.00	235	23	454.7	454.8	454.7
65.1	18949	-62.3	-90.3	1	0.00	231	20	460.2	460.2	460.2
61.2	19332	-60.9	-88.9	1	0.00	227	17	471.5	471.5	471.5
59.5	19507	-61.4	-89.4	1	0.00	225	15	474.2	474.2	474.2
57.8	19687	-61.9	-89.9	1	0.00	237	11	477.0	477.0	477.0
56.6	19812	-61.5	-89.8	1	0.00	245	8	480.7	480.7	480.7
51.4	20422	-59.5	-89.1	1	0.00	265	16	499.1	499.1	499.1
50.0	20590	-58.9	-88.9	1	0.00	250	18	504.2	504.3	504.2
49.9	20603	-58.9	-88.9	1	0.00	249	18	504.5	504.6	504.5
44.3	21336	-62.1	-90.6	1	0.00	200	17	514.1	514.1	514.1
42.4	21614	-63.3	-91.3	1	0.00	223	20	517.7	517.7	517.7
42.2	21641	-63.2	-91.3	1	0.00	225	20	518.6	518.6	518.6
38.3	22250	-60.8	-90.3	1	0.00	285	28	539.5	539.5	539.5
36.9	22474	-59.9	-89.9	1	0.00	309	18	547.4	547.4	547.4
34.7	22860	-60.0	-90.0	1	0.00	350	2	556.9	556.9	556.9
33.1	23152	-60.1	-90.1	1	0.00	326	8	564.1	564.2	564.1
31.5	23470	-58.6	-89.1	1	0.00	300	14	576.5	576.5	576.5
30.0	23774	-57.1	-88.1	1	0.01	275	15	588.5	588.6	588.5
30.0	23770	-57.1	-88.1	1	0.01	275	16	588.4	588.4	588.4
29.1	23963	-56.5	-87.5	1	0.01	284	17	595.2	595.2	595.2
28.6	24079	-56.4	-87.6	1	0.01	290	19	598.5	598.5	598.5
27.2	24384	-56.3	-87.8	1	0.01	275	15	607.2	607.3	607.2
26.0	24678	-56.1	-88.1	1	0.01	294	15	615.8	615.8	615.8
24.7	24994	-57.7	-88.9	1	0.01	315	15	620.1	620.2	620.1
24.4	25079	-58.1	-89.1	1	0.01	309	15	621.3	621.3	621.3
22.9	25480	-56.1	-88.1	1	0.01	279	16	638.5	638.6	638.5
22.5	25603	-56.3	-88.1	1	0.01	270	16	641.4	641.5	641.4
21.4	25908	-56.9	-88.1	1	0.01	285	17	648.6	648.7	648.6
21.0	26029	-57.1	-88.1	1	0.01	284	18	651.5	651.6	651.5
20.4	26214	-54.9	-86.9	1	0.01	281	21	663.6	663.7	663.6
20.0	26340	-54.9	-86.9	1	0.01	280	22	667.4	667.5	667.4
18.6	26822	-53.7	-86.0	1	0.01	275	15	685.6	685.7	685.6
16.9	27432	-52.2	-84.9	1	0.02	300	16	709.3	709.5	709.3
16.1	27737	-51.4	-84.4	1	0.02	290	15	721.5	721.7	721.5
16.0	27776	-51.3	-84.3	1	0.02	294	16	723.0	723.3	723.1
15.3	28042	-52.0	-84.5	1	0.02	320	20	729.4	729.6	729.4
14.5	28412	-52.9	-84.9	1	0.02	287	15	738.3	738.5	738.3
14.0	28651	-52.2	-85.0	1	0.02	265	12	748.5	748.8	748.5
13.2	29020	-51.1	-85.1	1	0.02	265	15	764.6	764.9	764.6
12.3	29477	-52.7	-85.7	1	0.02	265	19	774.5	774.8	774.6
11.5	29913	-49.5	-83.5	1	0.03	265	22	801.0	801.4	801.1
10.6	30480	-49.0	-83.0	1	0.04	265	27	823.0	823.5	823.0
10.4	30572	-48.9	-82.9	1	0.04	270	27	826.6	827.1	826.6
10.1	30785	-47.2	-82.1	1	0.05	280	27	840.4	841.0	840.5
10.0	30830	-46.9	-81.9	1	0.05	275	29	843.4	844.0	843.4
9.8	30964	-45.7	-80.7	1	0.06			852.8	853.5	852.8

## Station information and sounding indices

Station identifier: NKX  
 Station number: 72293  
 Observation time: 150423/1200  
 Station latitude: 32.85  
 Station longitude: -117.12

Station elevation: 137.0  
 Showalter index: 2.69  
 Lifted index: 1.96  
 LIFT computed using virtual temperature: 1.86  
 SWEAT index: 71.38  
 K index: 23.40  
 Cross totals index: 24.00  
 Vertical totals index: 25.70  
 Totals totals index: 49.70  
 Convective Available Potential Energy: 0.18  
 CAPE using virtual temperature: 0.28  
 Convective Inhibition: -26.39  
 CINS using virtual temperature: -22.23  
 Equilibrium Level: 797.45  
 Equilibrium Level using virtual temperature: 797.39  
 Level of Free Convection: 810.96  
 LFCT using virtual temperature: 814.80  
 Bulk Richardson Number: 0.11  
 Bulk Richardson Number using CAPV: 0.17  
 Temp [K] of the Lifted Condensation Level: 281.31  
 Pres [hPa] of the Lifted Condensation Level: 912.46  
 Mean mixed layer potential temperature: 288.79  
 Mean mixed layer mixing ratio: 7.55  
 1000 hPa to 500 hPa thickness: 5520.00  
 Precipitable water [mm] for entire sounding: 20.70

## 72293 NKX San Diego Observations at 00Z 24 Apr 2015

PRES	HGHT	TEMP	DWPT	RELH	MIXR	DRCT	SKNT	THTA	THTE	THTV
hPa	m	C	C	%	g/kg	deg	knot	K	K	K
1000.0	103									
996.0	137	19.2	11.2	60	8.45	240	9	292.7	317.1	294.2
984.0	241	17.4	10.4	63	8.11	237	11	291.9	315.2	293.3
976.6	305	16.4	10.2	67	8.07	235	13	291.5	314.7	292.9
967.0	389	15.0	10.0	72	8.03	238	12	290.9	314.0	292.3
942.0	610	12.4	8.9	79	7.64	245	11	290.5	312.4	291.8
938.0	646	12.0	8.7	80	7.58	245	11	290.4	312.1	291.7
925.0	763	11.0	8.5	85	7.58	245	11	290.6	312.3	291.9
908.4	914	9.8	7.9	88	7.42	220	10	290.9	312.2	292.2
875.6	1219	7.5	6.8	95	7.11	215	4	291.5	312.1	292.8
871.0	1263	7.2	6.6	96	7.06	207	4	291.6	312.1	292.9
850.0	1464	6.2	5.1	93	6.52	170	5	292.6	311.6	293.8
838.0	1581	5.8	4.4	91	6.29	141	4	293.4	311.8	294.5
817.0	1788	4.2	3.6	96	6.10	90	3	293.8	311.7	294.9
812.9	1829	4.1	2.8	92	5.81	80	3	294.1	311.2	295.2
810.0	1858	4.0	2.3	89	5.61	78	3	294.4	310.9	295.4
782.9	2134	2.1	1.2	94	5.36	55	5	295.2	311.1	296.1
768.0	2289	1.0	0.6	97	5.23	351	7	295.6	311.2	296.6
764.0	2331	0.6	-0.2	94	4.96	334	7	295.6	310.4	296.5
761.0	2363	0.6	-2.7	79	4.14	321	7	296.0	308.5	296.7
758.0	2394	1.2	-6.8	55	3.04	308	8	296.9	306.3	297.5
753.9	2438	2.6	-7.5	48	2.90	290	8	298.9	307.9	299.4
752.0	2459	3.2	-7.8	44	2.84	290	8	299.8	308.7	300.3
748.0	2502	3.4	-7.6	44	2.90	290	8	300.5	309.6	301.0
726.0	2743	1.7	-8.8	46	2.72	290	9	301.2	309.8	301.7
704.0	2990	0.0	-10.0	47	2.55	290	9	302.0	310.1	302.4
700.0	3036	-0.3	-9.3	51	2.71	290	9	302.1	310.7	302.6

676.0	3314	-3.1	-7.7	71	3.18	294	9	302.0	312.0	302.6
649.0	3636	-5.7	-10.7	68	2.62	300	10	302.6	310.9	303.1
647.2	3658	-5.8	-11.5	64	2.46	300	10	302.7	310.6	303.1
641.0	3733	-6.3	-14.3	53	1.98	302	10	303.0	309.4	303.4
627.0	3906	-7.7	-12.3	70	2.38	306	11	303.3	311.0	303.8
621.0	3981	-8.3	-13.3	67	2.22	308	11	303.5	310.6	303.9
616.0	4044	-8.5	-18.5	44	1.45	309	11	303.9	308.7	304.2
609.0	4133	-9.1	-21.1	37	1.17	312	12	304.2	308.2	304.5
598.5	4267	-10.2	-21.9	38	1.11	315	12	304.5	308.2	304.7
574.0	4588	-12.9	-23.9	39	0.97	310	14	305.0	308.3	305.2
552.6	4877	-14.4	-22.6	50	1.13	305	15	306.6	310.4	306.8
551.0	4899	-14.5	-22.5	51	1.15	305	15	306.7	310.6	306.9
545.0	4982	-14.9	-26.9	35	0.78	304	14	307.1	309.9	307.3
540.0	5052	-15.3	-25.3	42	0.91	304	13	307.5	310.6	307.7
533.0	5151	-15.9	-29.9	29	0.60	303	12	307.9	310.1	308.0
526.0	5250	-16.5	-29.5	32	0.63	303	11	308.4	310.6	308.5
500.0	5630	-19.5	-31.5	34	0.55	300	7	309.2	311.2	309.3
469.2	6096	-23.1	-35.1	33	0.42	315	5	310.4	312.0	310.5
459.0	6257	-24.3	-36.3	32	0.38	324	6	310.9	312.2	310.9
441.0	6546	-26.9	-42.9	21	0.20	340	7	311.1	311.9	311.2
433.0	6677	-27.7	-45.7	16	0.15	348	8	311.8	312.3	311.8
424.0	6827	-28.9	-42.9	25	0.21	356	9	312.1	312.9	312.1
400.0	7240	-31.7	-50.7	14	0.09	20	11	313.7	314.1	313.7
398.0	7276	-31.9	-51.9	12	0.08	20	11	313.9	314.2	313.9
386.0	7492	-33.5	-47.5	23	0.14	23	12	314.6	315.1	314.6
379.0	7620	-34.7	-49.4	21	0.11	25	12	314.7	315.1	314.7
366.0	7864	-36.9	-52.9	17	0.08	23	13	314.8	315.1	314.9
350.0	8172	-39.5	-50.5	30	0.11	20	14	315.4	315.8	315.4
328.0	8614	-43.1	-56.1	23	0.06	15	16	316.3	316.6	316.3
310.0	8993	-46.9	-56.9	31	0.06	12	17	316.2	316.4	316.2
303.0	9144	-47.9	-58.6	28	0.05	10	18	316.9	317.1	316.9
300.0	9210	-48.3	-59.3	27	0.04	5	17	317.2	317.4	317.2
289.1	9449	-50.2	-60.5	28	0.04	0	22	317.8	318.0	317.9
284.0	9566	-51.1	-61.1	29	0.04	0	21	318.2	318.3	318.2
275.9	9754	-49.9	-65.8	14	0.02	350	19	322.5	322.6	322.5
273.0	9821	-49.5	-67.5	10	0.02	353	17	324.1	324.2	324.1
263.2	10058	-50.5	-69.8	8	0.01	5	11	326.0	326.0	326.0
251.1	10363	-51.9	-72.9	6	0.01	310	11	328.4	328.4	328.4
251.0	10364	-51.9	-72.9	6	0.01	310	11	328.4	328.4	328.4
250.0	10390	-51.5	-72.5	6	0.01	320	9	329.4	329.4	329.4
248.0	10443	-50.5	-72.5	6	0.01	320	9	331.6	331.7	331.6
242.0	10603	-49.9	-74.9	4	0.01	320	10	334.9	334.9	334.9
232.0	10880	-51.5	-77.5	3	0.00	320	12	336.5	336.5	336.5
228.7	10973	-51.3	-77.3	3	0.00	320	13	338.1	338.2	338.1
225.0	11080	-51.1	-77.1	3	0.00	312	14	340.1	340.1	340.1
217.0	11316	-51.9	-78.9	3	0.00	295	15	342.4	342.4	342.4
208.3	11582	-51.3	-81.2	2	0.00	275	17	347.2	347.3	347.2
208.0	11593	-51.3	-81.3	2	0.00	273	17	347.4	347.5	347.5
203.0	11752	-50.1	-82.1	1	0.00	243	16	351.8	351.8	351.8
200.0	11850	-50.7	-82.7	1	0.00	225	16	352.3	352.3	352.3
198.9	11887	-50.9	-82.8	1	0.00	230	15	352.7	352.7	352.7
191.0	12148	-51.9	-83.9	1	0.00	234	24	355.1	355.1	355.1
189.7	12192	-51.9	-84.0	1	0.00	235	26	355.8	355.8	355.8
170.0	12899	-51.9	-84.9	1	0.00	240	27	367.1	367.1	367.1
162.0	13208	-53.9	-86.9	1	0.00	242	28	368.8	368.8	368.8
151.0	13658	-54.1	-87.1	1	0.00	245	29	375.9	375.9	375.9
150.0	13700	-54.3	-87.3	1	0.00	245	29	376.3	376.3	376.3
144.0	13962	-55.5	-87.5	1	0.00	242	30	378.6	378.6	378.6
129.0	14665	-54.9	-86.9	1	0.00	232	32	391.8	391.8	391.8



120.0	15126	-57.9	-89.9	1	0.00	226	34	394.5	394.5	394.5
117.9	15240	-57.6	-89.6	1	0.00	225	34	397.1	397.1	397.1
110.0	15677	-56.5	-88.5	1	0.00	229	33	407.1	407.1	407.1
100.0	16280	-59.1	-90.1	1	0.00	235	31	413.3	413.3	413.3
95.3	16581	-60.3	-90.3	1	0.00	237	30	416.6	416.6	416.6
87.7	17102	-58.9	-89.9	1	0.00	239	27	429.5	429.5	429.5
81.1	17592	-60.5	-90.5	1	0.00	242	25	435.9	435.9	435.9
72.5	18288	-60.5	-90.5	1	0.00	245	22	450.0	450.0	450.0
70.0	18510	-60.5	-90.5	1	0.00	240	19	454.6	454.6	454.6
65.8	18898	-60.1	-90.1	1	0.00	220	17	463.7	463.7	463.7
64.1	19058	-59.9	-89.9	1	0.00	211	19	467.5	467.5	467.5
59.6	19507	-61.3	-90.7	1	0.00	185	24	474.2	474.2	474.2
56.8	19812	-62.2	-91.3	1	0.00	225	28	478.7	478.7	478.7
56.6	19828	-62.3	-91.3	1	0.00	226	28	479.0	479.0	479.0
54.1	20107	-61.3	-90.3	1	0.00	244	22	487.5	487.5	487.5
52.0	20354	-58.3	-89.3	1	0.00	261	17	500.0	500.1	500.0
51.4	20422	-58.4	-89.4	1	0.00	265	16	501.4	501.5	501.4
50.0	20600	-58.5	-89.5	1	0.00	255	11	505.2	505.2	505.2
49.0	20726	-58.7	-89.5	1	0.00	225	4	507.5	507.5	507.5
45.3	21219	-59.7	-89.7	1	0.00	290	9	516.7	516.8	516.7
44.5	21336	-59.2	-89.5	1	0.00	305	10	520.7	520.7	520.7
42.6	21605	-58.1	-89.1	1	0.00	239	10	529.8	529.9	529.8
40.3	21946	-60.8	-90.9	1	0.00	155	11	531.4	531.4	531.4
40.1	21983	-61.1	-91.1	1	0.00	160	12	531.5	531.6	531.5
37.9	22333	-61.5	-91.5	1	0.00	209	18	539.2	539.2	539.2
36.6	22555	-59.9	-90.5	1	0.00	240	22	548.7	548.7	548.7
33.6	23089	-56.1	-88.1	1	0.01	293	19	572.3	572.3	572.3
33.2	23165	-56.1	-88.1	1	0.01	300	18	574.1	574.2	574.2
31.6	23470	-56.2	-88.2	1	0.01	280	10	581.8	581.8	581.8
30.7	23663	-56.3	-88.3	1	0.01	289	12	586.7	586.7	586.7
30.0	23810	-55.3	-87.3	1	0.01	295	14	593.3	593.4	593.3
28.8	24079	-54.7	-87.0	1	0.01	305	12	602.2	602.3	602.2
27.4	24384	-53.9	-86.6	1	0.01	280	14	612.5	612.6	612.5
26.3	24652	-53.3	-86.3	1	0.01	284	18	621.7	621.8	621.7
24.9	24994	-54.5	-86.8	1	0.01	290	22	627.7	627.8	627.8
24.3	25159	-55.1	-87.1	1	0.01	285	19	630.7	630.8	630.7
23.8	25298	-53.9	-86.7	1	0.01	280	16	638.1	638.2	638.1
23.6	25346	-53.5	-86.5	1	0.01	282	17	640.6	640.7	640.6
22.7	25603	-53.2	-86.2	1	0.01	290	20	648.8	648.9	648.8
21.5	25945	-52.9	-85.9	1	0.01	282	17	659.7	659.8	659.7
21.1	26066	-53.9	-85.9	1	0.01	279	15	660.3	660.4	660.3
20.6	26213	-53.6	-86.0	1	0.01	275	14	665.6	665.8	665.6
20.0	26410	-53.1	-86.1	1	0.01	280	18	672.9	673.0	672.9
19.7	26508	-52.1	-85.1	1	0.01	281	19	678.9	679.0	678.9
18.8	26822	-53.8	-86.2	1	0.01	285	22	683.0	683.2	683.0
18.3	26982	-54.7	-86.7	1	0.01	269	21	685.2	685.3	685.2
17.9	27127	-53.7	-86.2	1	0.01	255	21	692.8	692.9	692.8
17.1	27432	-51.5	-85.3	1	0.02	250	28	709.1	709.2	709.1
16.9	27495	-51.1	-85.1	1	0.02	249	28	712.5	712.7	712.5
16.3	27737	-51.5	-85.0	1	0.02	245	26	718.9	719.1	718.9
15.6	28014	-51.9	-84.9	1	0.02	252	29	726.3	726.5	726.3
14.8	28346	-51.3	-84.8	1	0.02	260	32	739.0	739.2	739.0
14.1	28671	-50.7	-84.7	1	0.02	280	27	751.7	751.9	751.7
14.1	28651	-50.7	-84.7	1	0.02	280	27	750.9	751.1	750.9
13.2	29104	-46.9	-81.9	1	0.04	287	29	779.0	779.5	779.1
12.3	29566	-47.8	-82.2	1	0.04	295	31	791.7	792.2	791.7
11.8	29870	-48.5	-82.4	1	0.04	340	14	799.7	800.1	799.7
11.8	29844	-48.3	-82.3	1	0.04	336	15	799.4	799.9	799.5
11.4	30071	-49.9	-82.9	1	0.04	304	13	801.6	802.0	801.6

11.2	30175	-49.8	-83.0	1	0.04	285	13	805.7	806.1	805.7
10.7	30480	-49.4	-83.2	1	0.04	245	16	817.7	818.2	817.8
10.5	30609	-49.3	-83.3	1	0.04	242	19	822.9	823.3	822.9
10.0	30930	-47.3	-82.3	1	0.05	235	27	841.9	842.5	841.9
9.8	31090	-46.1	-81.1	1	0.06	225	31	852.3	853.0	852.3
9.5	31271	-44.7	-79.7	1	0.07	229	33	864.1	865.1	864.2
8.9	31708	-44.1	-80.1	1	0.07	239	37	882.7	883.7	882.8
8.5	32004	-42.1	-78.7	1	0.10	245	40	901.7	903.0	901.7
8.3	32179	-40.9	-77.9	1	0.11	248	39	913.1	914.6	913.1
7.6	32780	-39.7	-76.7	1	0.15	258	36	941.2	943.2	941.3
7.4	32963	-38.3	-75.3	1	0.19	261	35	954.1	956.7	954.2
7.1	33247	-38.7	-75.7	1	0.18			963.8	966.4	963.9
7.1	33223	-38.7	-75.7	1	0.19	265	34	963.0	965.6	963.1

## Station information and sounding indices

Station identifier: NKX  
 Station number: 72293  
 Observation time: 150424/0000  
 Station latitude: 32.85  
 Station longitude: -117.12  
 Station elevation: 137.0  
 Showalter index: 1.86  
 Lifted index: 0.32  
 LIFT computed using virtual temperature: 0.16  
 SWEAT index: 104.18  
 K index: 21.80  
 Cross totals index: 24.60  
 Vertical totals index: 25.70  
 Totals totals index: 50.30  
 Convective Available Potential Energy: 41.77  
 CAPE using virtual temperature: 59.19  
 Convective Inhibition: 0.00  
 CINS using virtual temperature: 0.00  
 Equilibrium Level: 549.58  
 Equilibrium Level using virtual temperature: 542.70  
 Level of Free Convection: 891.79  
 LFCT using virtual temperature: 891.79  
 Bulk Richardson Number: 4.46  
 Bulk Richardson Number using CAPV: 6.32  
 Temp [K] of the Lifted Condensation Level: 281.85  
 Pres [hPa] of the Lifted Condensation Level: 891.79  
 Mean mixed layer potential temperature: 291.24  
 Mean mixed layer mixing ratio: 7.99  
 1000 hPa to 500 hPa thickness: 5527.00  
 Precipitable water [mm] for entire sounding: 21.90

## 72293 NKX San Diego Observations at 12Z 24 Apr 2015

PRES	HGHT	TEMP	DWPT	RELH	MIXR	DRCT	SKNT	THTA	THTE	THTV
hPa	m	C	C	%	g/kg	deg	knot	K	K	K
1000.0	118									
998.0	137	13.8	13.8	100	10.03	100	3	287.1	315.2	288.9
978.2	305	12.7	12.3	98	9.26	300	4	287.6	313.7	289.2
950.0	550	11.0	10.1	94	8.23	276	6	288.3	311.6	289.8
943.2	610	10.8	8.7	87	7.56	270	7	288.7	310.2	290.1
943.0	612	10.8	8.7	87	7.54	270	7	288.8	310.2	290.1

928.0	745	9.4	9.3	99	7.98	262	9	288.6	311.3	290.0
925.0	772	9.2	8.8	97	7.74	260	9	288.7	310.7	290.1
920.0	817	9.0	8.0	93	7.36	255	9	288.9	310.0	290.2
909.3	914	8.3	7.8	97	7.36	245	10	289.2	310.2	290.5
902.0	981	7.8	7.7	99	7.36	237	10	289.4	310.4	290.6
876.2	1219	6.7	6.7	100	7.06	210	10	290.6	310.9	291.9
850.0	1469	5.6	5.6	100	6.75	265	3	292.0	311.6	293.2
816.0	1802	3.6	3.6	100	6.11	2	3	293.3	311.2	294.4
813.3	1829	3.6	3.5	100	6.10	10	3	293.6	311.4	294.6
799.0	1973	3.4	3.2	99	6.06	349	8	294.9	312.7	295.9
791.0	2055	4.0	1.1	81	5.27	337	11	296.4	312.1	297.3
783.4	2134	3.8	1.1	83	5.32	325	14	297.0	312.9	297.9
768.0	2295	3.4	1.1	85	5.43	322	17	298.2	314.5	299.2
754.6	2438	2.5	0.0	84	5.10	320	20	298.7	314.1	299.6
739.0	2607	1.4	-1.3	82	4.73	309	19	299.3	313.7	300.2
726.6	2743	1.1	-4.6	66	3.77	300	18	300.4	312.0	301.1
725.0	2761	1.0	-5.0	64	3.65	301	18	300.5	311.8	301.2
710.0	2928	-0.3	-6.3	64	3.38	309	17	300.9	311.4	301.5
704.0	2996	-0.3	-8.3	55	2.92	313	16	301.6	310.8	302.2
700.0	3042	-0.5	-7.5	59	3.12	315	16	301.9	311.7	302.5
698.0	3065	-0.7	-7.7	59	3.08	316	16	301.9	311.6	302.5
688.0	3180	-1.3	-11.3	47	2.35	319	14	302.5	310.0	302.9
680.0	3274	-1.5	-9.5	54	2.75	322	12	303.3	312.0	303.8
673.3	3353	-1.5	-12.4	43	2.20	325	11	304.2	311.3	304.6
673.0	3356	-1.5	-12.5	43	2.19	325	11	304.2	311.3	304.6
650.0	3633	-2.9	-14.9	39	1.86	339	16	305.6	311.8	306.0
647.9	3658	-3.1	-14.6	41	1.92	340	16	305.7	312.0	306.0
635.0	3817	-4.5	-12.5	54	2.32	333	17	305.9	313.4	306.3
617.0	4044	-5.1	-15.1	45	1.93	324	19	307.7	314.1	308.1
599.7	4267	-6.7	-15.9	48	1.86	315	21	308.4	314.6	308.8
595.0	4328	-7.1	-16.1	49	1.84	317	20	308.6	314.7	308.9
576.6	4572	-8.8	-24.4	27	0.92	325	14	309.4	312.6	309.6
573.0	4621	-9.1	-26.1	24	0.80	325	14	309.6	312.4	309.7
558.0	4826	-10.9	-23.9	33	1.00	325	16	309.8	313.3	310.0
554.3	4877	-11.3	-24.1	34	0.99	325	17	310.0	313.4	310.1
535.0	5148	-13.3	-25.3	36	0.92	323	19	310.7	313.9	310.9
522.0	5335	-15.1	-22.1	55	1.25	322	20	310.7	315.0	311.0
508.0	5541	-16.3	-25.3	46	0.97	321	22	311.7	315.1	311.9
500.0	5660	-17.5	-25.5	50	0.97	320	23	311.6	315.0	311.8
490.0	5810	-18.9	-24.9	59	1.04	322	23	311.7	315.3	311.9
474.0	6055	-20.3	-33.3	30	0.49	325	23	313.0	314.8	313.1
471.3	6096	-20.6	-33.5	31	0.48	325	23	313.1	314.8	313.1
415.5	7010	-28.0	-38.1	38	0.35	315	26	315.0	316.3	315.1
415.0	7018	-28.1	-38.1	38	0.35	315	26	315.1	316.4	315.1
401.0	7262	-29.9	-46.9	18	0.14	324	28	315.8	316.4	315.9
400.0	7280	-30.1	-47.1	17	0.14	325	28	315.8	316.3	315.8
381.3	7620	-32.9	-51.8	13	0.08	325	25	316.4	316.8	316.5
380.0	7644	-33.1	-52.1	13	0.08	325	25	316.5	316.8	316.5
365.0	7925	-35.6	-50.9	19	0.10	320	31	316.8	317.2	316.8
352.0	8178	-37.9	-49.9	27	0.11	324	34	317.0	317.5	317.0
336.0	8499	-38.9	-55.9	15	0.06	329	38	319.9	320.1	319.9
322.0	8790	-41.3	-55.3	21	0.07	334	42	320.5	320.8	320.5
314.0	8961	-42.3	-57.3	18	0.05	337	45	321.4	321.6	321.4
311.0	9026	-42.3	-56.3	20	0.06	338	45	322.3	322.6	322.3
307.0	9114	-41.9	-59.9	12	0.04	340	47	324.1	324.2	324.1
305.6	9144	-42.2	-60.2	12	0.04	340	47	324.1	324.2	324.1
300.0	9270	-43.3	-61.3	12	0.03	340	47	324.2	324.4	324.2
285.0	9613	-46.5	-59.5	21	0.04	346	49	324.4	324.6	324.4
275.0	9849	-48.7	-57.7	34	0.06	351	51	324.6	324.8	324.6

271.0	9945	-49.3	-57.3	39	0.06	353	51	325.1	325.3	325.1
266.4	10058	-50.1	-59.1	34	0.05	355	52	325.5	325.7	325.5
257.0	10291	-51.7	-62.7	26	0.03	352	54	326.5	326.6	326.5
250.0	10470	-53.1	-62.1	33	0.04	350	56	327.0	327.1	327.0
242.4	10668	-54.7	-62.5	38	0.04	345	59	327.4	327.6	327.4
238.0	10785	-55.7	-62.7	41	0.03	345	58	327.7	327.9	327.7
220.1	11278	-58.6	-67.9	29	0.02	345	56	330.6	330.7	330.6
215.0	11426	-59.5	-69.5	26	0.02	343	51	331.5	331.5	331.5
210.0	11573	-59.9	-69.9	26	0.01	340	45	333.1	333.1	333.1
207.0	11663	-59.1	-70.1	23	0.01	334	40	335.7	335.8	335.7
205.0	11724	-57.3	-70.3	18	0.01	330	37	339.5	339.5	339.5
200.0	11880	-56.1	-74.1	9	0.01	320	28	343.8	343.8	343.8
199.8	11887	-56.1	-74.3	8	0.01	315	27	343.9	344.0	343.9
199.0	11912	-55.9	-74.9	8	0.01	314	27	344.6	344.6	344.6
190.0	12205	-57.7	-78.7	5	0.00	304	26	346.3	346.3	346.3
187.0	12305	-57.1	-79.1	5	0.00	300	26	348.8	348.8	348.8
178.0	12616	-58.7	-81.7	4	0.00	289	25	351.1	351.2	351.1
165.0	13096	-55.5	-84.5	2	0.00	271	23	364.2	364.2	364.2
157.0	13411	-56.9	-85.9	1	0.00	260	22	367.0	367.0	367.0
154.0	13533	-57.5	-86.5	1	0.00	264	25	368.0	368.0	368.0
150.0	13700	-56.5	-86.5	1	0.00	270	29	372.5	372.5	372.5
149.6	13716	-56.5	-86.5	1	0.00	280	32	372.7	372.8	372.7
140.0	14136	-57.5	-87.5	1	0.00	256	32	378.2	378.2	378.2
135.8	14326	-57.1	-87.1	1	0.00	245	32	382.2	382.2	382.2
132.0	14507	-56.7	-86.7	1	0.00	246	33	386.0	386.0	386.0
129.0	14652	-57.5	-87.5	1	0.00	247	33	387.1	387.1	387.1
119.0	15161	-57.5	-88.5	1	0.00	250	36	396.2	396.2	396.2
117.5	15240	-58.0	-89.0	1	0.00	250	36	396.7	396.7	396.7
116.0	15321	-58.5	-89.5	1	0.00	251	34	397.2	397.2	397.2
112.0	15542	-58.1	-89.1	1	0.00	252	29	402.0	402.0	402.0
106.6	15850	-59.1	-89.6	1	0.00	255	22	405.7	405.7	405.7
102.0	16126	-60.1	-90.1	1	0.00	255	31	409.0	409.0	409.0
100.0	16250	-59.1	-89.1	1	0.00	255	35	413.3	413.3	413.3
89.5	16947	-58.3	-89.3	1	0.00	221	24	428.2	428.2	428.2
87.8	17069	-58.8	-89.6	1	0.00	215	22	429.5	429.5	429.5
80.6	17601	-61.1	-91.1	1	0.00	232	32	435.4	435.4	435.4
79.6	17678	-61.0	-91.0	1	0.00	235	34	437.2	437.2	437.2
75.8	17983	-60.5	-90.5	1	0.00	235	20	444.4	444.4	444.4
72.2	18288	-60.0	-90.0	1	0.00	235	24	451.7	451.7	451.7
70.0	18480	-59.7	-89.7	1	0.00	230	24	456.3	456.3	456.3
68.8	18593	-59.6	-89.8	1	0.00	235	26	458.9	458.9	458.9
65.5	18898	-59.4	-89.9	1	0.00	215	19	465.8	465.8	465.8
61.6	19282	-59.1	-90.1	1	0.00	228	19	474.6	474.6	474.6
59.4	19507	-60.0	-90.2	1	0.00	235	19	477.6	477.7	477.6
56.6	19812	-61.1	-90.4	1	0.00	205	20	481.8	481.8	481.8
55.6	19921	-61.5	-90.5	1	0.00	208	21	483.2	483.3	483.2
51.3	20422	-61.9	-90.9	1	0.00	220	27	493.7	493.7	493.7
50.8	20481	-61.9	-90.9	1	0.00	226	27	494.9	494.9	494.9
50.0	20580	-61.3	-90.3	1	0.00	235	26	498.6	498.6	498.6
48.8	20726	-61.3	-90.6	1	0.00	250	24	502.0	502.0	502.0
46.5	21031	-61.3	-91.2	1	0.00	250	33	509.1	509.1	509.1
45.9	21111	-61.3	-91.3	1	0.00	255	31	510.9	510.9	510.9
44.3	21336	-60.0	-90.7	1	0.00	270	27	519.3	519.3	519.3
42.2	21641	-58.3	-90.0	1	0.00	300	25	530.9	530.9	530.9
41.5	21742	-57.7	-89.7	1	0.00	313	21	534.8	534.8	534.8
40.2	21946	-55.1	-87.1	1	0.01	340	14	546.3	546.3	546.3
40.1	21961	-54.9	-86.9	1	0.01	343	14	547.1	547.1	547.1
36.5	22555	-58.1	-89.3	1	0.00	110	6	553.8	553.8	553.8
35.2	22786	-59.3	-90.3	1	0.00	153	8	556.4	556.4	556.4

33.1	23165	-59.0	-90.0	1	0.00	225	10	566.9	566.9	566.9
31.6	23470	-58.8	-89.8	1	0.00	270	12	575.4	575.5	575.4
30.0	23790	-58.5	-89.5	1	0.00	265	14	584.6	584.6	584.6
28.0	24223	-58.3	-89.3	1	0.00	265	19	596.8	596.8	596.8
27.3	24384	-57.7	-88.9	1	0.01	265	21	602.9	602.9	602.9
25.0	24940	-55.5	-87.5	1	0.01	272	21	624.4	624.5	624.4
20.0	26360	-55.3	-87.3	1	0.01	290	20	666.2	666.3	666.2
17.0	27399	-54.3	-87.3	1	0.01	266	15	701.0	701.1	701.0
16.9	27432	-54.1	-87.1	1	0.01	265	15	702.8	702.9	702.8
16.3	27669	-52.5	-85.5	1	0.02			715.3	715.5	715.3

## Station information and sounding indices

Station identifier: NKX  
 Station number: 72293  
 Observation time: 150424/1200  
 Station latitude: 32.85  
 Station longitude: -117.12  
 Station elevation: 137.0  
 Showalter index: 3.88  
 Lifted index: 3.11  
 LIFT computed using virtual temperature: 3.03  
 SWEAT index: 96.18  
 K index: 21.70  
 Cross totals index: 23.10  
 Vertical totals index: 23.10  
 Totals totals index: 46.20  
 Convective Available Potential Energy: 27.27  
 CAPE using virtual temperature: 30.37  
 Convective Inhibition: -0.01  
 CINS using virtual temperature: 0.00  
 Equilibrium Level: 800.38  
 Equilibrium Level using virtual temperature: 799.98  
 Level of Free Convection: 938.91  
 LFCT using virtual temperature: 942.73  
 Bulk Richardson Number: 2.79  
 Bulk Richardson Number using CAPV: 3.11  
 Temp [K] of the Lifted Condensation Level: 284.50  
 Pres [hPa] of the Lifted Condensation Level: 959.66  
 Mean mixed layer potential temperature: 287.88  
 Mean mixed layer mixing ratio: 8.89  
 1000 hPa to 500 hPa thickness: 5542.00  
 Precipitable water [mm] for entire sounding: 23.89

## 72293 NKX San Diego Observations at 00Z 25 Apr 2015

PRES	HGHT	TEMP	DWPT	RELH	MIXR	DRCT	SKNT	THTA	THTE	THTV
hPa	m	C	C	%	g/kg	deg	knot	K	K	K
1000.0	137	17.8	11.8	68	8.76	265	9	290.9	316.0	292.5
995.0	180	17.0	12.0	72	8.93	264	9	290.6	316.0	292.1
980.4	305	14.8	10.6	76	8.25	260	8	289.5	313.0	291.0
973.0	369	13.6	9.9	78	7.93	254	9	289.0	311.6	290.4
945.3	610	11.3	9.2	87	7.76	230	13	289.1	311.2	290.4
925.0	791	9.6	8.6	93	7.63	205	9	289.1	310.9	290.4
911.4	914	8.8	8.1	95	7.47	195	11	289.5	310.8	290.8
890.0	1111	7.4	7.2	99	7.21	185	8	290.1	310.7	291.3
878.4	1219	6.9	6.7	99	7.05	180	7	290.6	310.9	291.8

850.0	1489	5.6	5.4	99	6.66	180	6	292.0	311.3	293.2
848.0	1508	5.4	5.2	99	6.58	197	5	292.0	311.1	293.1
846.4	1524	5.5	5.2	98	6.58	210	5	292.2	311.4	293.4
831.0	1674	6.4	5.0	91	6.62	250	10	294.7	314.2	295.9
825.0	1734	6.6	2.9	77	5.75	265	12	295.6	312.6	296.6
817.0	1814	7.2	3.5	77	6.06	286	15	297.0	315.1	298.1
815.5	1829	7.2	3.3	77	5.99	290	15	297.1	315.0	298.2
791.0	2080	6.4	0.4	65	5.01	294	16	298.9	314.1	299.8
786.0	2132	6.4	-3.6	49	3.75	295	16	299.5	311.0	300.1
785.8	2134	6.4	-3.6	49	3.76	295	16	299.5	311.0	300.1
775.0	2248	5.4	-1.6	61	4.41	293	18	299.6	313.1	300.4
757.1	2438	4.1	-5.0	51	3.49	290	21	300.2	311.0	300.9
750.0	2515	3.6	-6.4	48	3.17	291	22	300.5	310.4	301.0
738.0	2645	3.4	-29.6	7	0.45	293	22	301.6	303.2	301.7
731.0	2723	3.6	-11.4	32	2.20	295	23	302.7	309.7	303.1
729.2	2743	3.5	-11.9	31	2.11	295	23	302.8	309.6	303.2
727.0	2767	3.4	-12.6	30	2.01	295	23	302.9	309.4	303.3
722.0	2823	3.2	-9.8	38	2.53	296	23	303.3	311.4	303.8
718.0	2868	3.0	-11.0	35	2.31	297	23	303.6	311.0	304.0
714.0	2913	2.6	-9.4	41	2.64	298	24	303.6	312.0	304.1
700.0	3073	1.2	-9.8	44	2.61	300	24	303.8	312.1	304.3
684.0	3259	-0.3	-9.3	51	2.78	303	27	304.1	313.0	304.6
676.0	3353	-0.6	-10.3	48	2.59	305	29	304.8	313.1	305.3
650.6	3658	-1.7	-13.6	40	2.06	305	33	306.9	313.7	307.3
650.0	3666	-1.7	-13.7	39	2.05	305	33	307.0	313.7	307.4
626.0	3964	-3.7	-15.7	39	1.81	300	36	308.0	314.0	308.4
602.4	4267	-6.1	-15.1	49	1.97	295	38	308.7	315.2	309.1
602.0	4272	-6.1	-15.1	49	1.98	295	38	308.7	315.3	309.1
599.0	4311	-6.5	-16.5	45	1.77	295	38	308.7	314.6	309.0
572.0	4670	-9.1	-18.1	48	1.62	295	35	309.7	315.2	310.1
565.0	4765	-9.9	-16.9	57	1.81	295	34	309.9	315.9	310.2
556.9	4877	-10.7	-17.7	56	1.72	295	33	310.2	316.0	310.5
553.0	4931	-11.1	-18.1	56	1.67	295	33	310.4	316.0	310.7
547.0	5015	-11.3	-21.3	43	1.28	296	32	311.1	315.5	311.4
542.0	5085	-11.5	-20.5	47	1.39	297	32	311.7	316.4	311.9
517.0	5446	-13.3	-24.3	39	1.04	300	30	313.8	317.4	313.9
514.3	5486	-13.6	-25.0	38	0.98	300	30	313.8	317.3	314.0
504.0	5640	-14.9	-27.9	32	0.77	293	31	314.1	316.8	314.2
500.0	5700	-15.5	-28.5	32	0.73	290	31	314.1	316.7	314.2
485.0	5929	-17.7	-30.7	31	0.61	287	31	314.1	316.3	314.2
474.2	6096	-18.6	-32.0	30	0.55	285	31	315.0	317.0	315.1
455.1	6401	-20.3	-34.4	27	0.46	300	35	316.6	318.4	316.7
436.8	6706	-21.9	-36.8	25	0.38	315	27	318.3	319.7	318.4
433.0	6771	-22.3	-37.3	24	0.36	315	26	318.6	320.0	318.7
427.0	6874	-22.7	-40.7	18	0.26	314	25	319.4	320.4	319.4
420.0	6995	-23.3	-39.3	22	0.30	313	23	320.1	321.3	320.2
400.0	7350	-26.3	-39.3	28	0.32	310	18	320.7	321.9	320.8
385.0	7620	-28.6	-40.8	30	0.28	305	16	321.2	322.3	321.3
343.0	8436	-35.5	-45.5	35	0.19	289	23	322.6	323.4	322.7
309.3	9144	-40.9	-51.8	30	0.10	275	29	324.8	325.3	324.9
309.0	9151	-40.9	-51.9	30	0.10	275	29	324.9	325.3	324.9
300.0	9350	-42.7	-51.7	37	0.11	275	31	325.1	325.5	325.1
289.0	9602	-44.5	-52.5	40	0.10	269	38	326.0	326.4	326.0
282.5	9754	-45.6	-52.7	45	0.10	265	42	326.5	326.9	326.5
282.0	9766	-45.7	-52.7	45	0.10	265	42	326.6	327.0	326.6
276.0	9909	-46.3	-55.3	35	0.08	266	42	327.7	328.0	327.7
261.0	10279	-49.1	-60.1	27	0.04	268	42	328.9	329.1	328.9
250.0	10560	-51.9	-60.9	33	0.04	270	42	328.8	329.0	328.8
241.0	10797	-53.7	-61.7	37	0.04	272	45	329.5	329.7	329.5

224.0	11264	-57.3	-67.3	27	0.02	275	51	331.0	331.1	331.0
223.5	11278	-57.4	-67.4	27	0.02	275	51	331.0	331.1	331.0
211.0	11639	-60.9	-68.9	34	0.02	280	49	331.1	331.1	331.1
200.0	11970	-63.3	-71.3	33	0.01	285	47	332.4	332.4	332.4
192.9	12192	-64.7	-72.7	32	0.01	285	47	333.6	333.6	333.6
192.0	12219	-64.9	-72.9	32	0.01	285	47	333.7	333.8	333.7
185.0	12445	-65.9	-73.9	32	0.01	285	48	335.6	335.7	335.6
183.4	12497	-65.5	-74.0	30	0.01	285	45	337.1	337.2	337.1
176.0	12749	-63.5	-74.5	21	0.01	273	49	344.4	344.4	344.4
174.5	12802	-63.7	-75.7	18	0.01	270	50	344.9	345.0	344.9
173.0	12854	-63.9	-76.9	15	0.01	273	47	345.4	345.5	345.4
168.0	13034	-62.3	-79.3	9	0.00	281	36	351.0	351.0	351.0
166.1	13106	-60.0	-79.9	6	0.00	285	32	356.0	356.1	356.0
166.0	13109	-59.9	-79.9	6	0.00	285	32	356.2	356.2	356.2
163.0	13222	-59.5	-81.5	4	0.00	281	29	358.8	358.8	358.8
158.2	13411	-59.3	-84.2	3	0.00	275	23	362.2	362.2	362.2
158.0	13417	-59.3	-84.3	3	0.00	275	23	362.3	362.3	362.3
153.0	13617	-60.9	-86.9	2	0.00	258	27	362.9	362.9	362.9
150.6	13716	-61.2	-87.2	2	0.00	250	29	364.0	364.0	364.0
150.0	13740	-61.3	-87.3	2	0.00	255	34	364.3	364.3	364.3
149.0	13782	-61.3	-87.3	2	0.00	258	35	365.0	365.0	365.0
145.0	13951	-59.5	-85.5	2	0.00	270	41	370.9	371.0	370.9
143.4	14021	-59.1	-85.5	2	0.00	275	43	372.7	372.8	372.7
137.0	14308	-57.7	-85.7	2	0.00	284	36	380.2	380.2	380.2
136.6	14326	-57.7	-85.8	2	0.00	285	36	380.5	380.5	380.5
133.0	14495	-57.7	-86.7	1	0.00	279	32	383.4	383.4	383.4
131.0	14591	-58.5	-87.5	1	0.00	276	30	383.6	383.7	383.6
130.2	14630	-58.4	-87.5	1	0.00	275	29	384.5	384.5	384.5
121.0	15092	-57.3	-87.3	1	0.00	267	30	394.6	394.7	394.6
118.2	15240	-58.0	-87.5	1	0.00	265	30	396.1	396.1	396.1
115.0	15412	-58.7	-87.7	1	0.00	261	30	397.8	397.8	397.8
107.0	15865	-58.9	-87.9	1	0.00	250	31	405.7	405.7	405.7
104.0	16044	-58.3	-87.3	1	0.00	246	32	410.2	410.2	410.2
100.0	16290	-60.3	-89.3	1	0.00	240	32	410.9	411.0	410.9
89.5	16982	-61.1	-89.1	1	0.00	245	32	422.6	422.6	422.6
86.9	17166	-59.9	-88.9	1	0.00	247	32	428.6	428.6	428.6
81.6	17559	-60.7	-89.7	1	0.00	250	33	434.7	434.7	434.7
77.7	17865	-59.3	-88.3	1	0.00	252	33	443.7	443.8	443.7
72.6	18288	-59.6	-88.6	1	0.00	255	33	451.8	451.8	451.8
70.0	18520	-59.7	-88.7	1	0.00	240	29	456.3	456.3	456.3
66.2	18869	-58.9	-87.9	1	0.00	242	31	465.4	465.4	465.4
61.2	19360	-60.5	-89.5	1	0.00	244	33	472.4	472.4	472.4
59.8	19507	-59.1	-88.5	1	0.00	245	34	478.7	478.7	478.7
57.6	19740	-56.9	-86.9	1	0.00	257	25	488.8	488.8	488.8
55.5	19976	-56.7	-86.7	1	0.00	268	16	494.5	494.5	494.5
54.3	20117	-54.7	-86.1	1	0.00	275	11	502.2	502.2	502.2
53.8	20174	-53.9	-85.9	1	0.00	264	10	505.3	505.4	505.3
51.7	20422	-55.9	-86.9	1	0.00	215	3	506.3	506.3	506.3
50.0	20640	-57.7	-87.7	1	0.00	190	8	507.1	507.1	507.1
47.0	21031	-60.0	-89.0	1	0.00	245	10	510.8	510.8	510.8
46.8	21054	-60.1	-89.1	1	0.00	242	10	511.0	511.0	511.0
44.7	21336	-60.5	-89.3	1	0.00	210	10	516.7	516.8	516.7
42.6	21641	-60.9	-89.5	1	0.00	235	21	523.0	523.0	523.0
37.9	22362	-61.9	-89.9	1	0.00	265	23	538.1	538.2	538.1
35.0	22860	-56.4	-87.2	1	0.01	285	24	564.9	565.0	564.9
33.9	23063	-54.1	-86.1	1	0.01	292	18	576.1	576.1	576.1
31.8	23470	-55.7	-86.4	1	0.01	305	6	582.4	582.5	582.4
30.8	23673	-56.5	-86.5	1	0.01	312	10	585.6	585.7	585.6
30.3	23774	-56.5	-86.5	1	0.01	315	12	588.3	588.3	588.3

30.0	23840	-56.5	-86.5	1	0.01	290	7	590.0	590.1	590.0
27.8	24324	-55.5	-86.5	1	0.01	330	2	605.8	605.9	605.8
27.5	24384	-55.7	-86.6	1	0.01	335	1	607.0	607.0	607.0
25.2	24946	-57.3	-87.3	1	0.01	292	13	617.9	617.9	617.9
23.9	25298	-54.0	-85.5	1	0.01	265	20	637.2	637.3	637.2
23.4	25418	-52.9	-84.9	1	0.01	270	19	644.0	644.1	644.0
21.7	25908	-52.8	-84.8	1	0.01	290	17	658.4	658.5	658.4
20.0	26430	-52.7	-84.7	1	0.02	265	18	674.1	674.3	674.1
19.7	26518	-52.9	-84.6	1	0.02	265	17	676.2	676.4	676.2
19.1	26727	-53.3	-84.3	1	0.02	275	16	681.2	681.4	681.2
18.8	26822	-53.1	-84.2	1	0.02	280	16	684.7	684.9	684.7
18.0	27127	-52.4	-83.9	1	0.02	260	23	696.2	696.4	696.2
17.1	27432	-51.7	-83.6	1	0.02	280	21	707.8	708.0	707.8
16.4	27737	-51.0	-83.3	1	0.02	255	20	719.6	719.9	719.6
15.0	28296	-49.7	-82.7	1	0.03	258	21	741.8	742.1	741.8
14.2	28651	-49.7	-82.7	1	0.03	260	22	753.4	753.7	753.4
13.4	29035	-49.7	-82.7	1	0.03	266	28	766.1	766.5	766.1
12.4	29544	-48.5	-81.5	1	0.04	275	36	787.5	788.0	787.5
11.8	29874	-44.3	-79.3	1	0.06	280	41	813.7	814.4	813.7
11.3	30175	-45.9	-79.9	1	0.06	285	45	818.5	819.3	818.6
11.3	30163	-45.9	-79.9	1	0.06	285	45	818.0	818.8	818.1
10.8	30480	-45.3	-80.0	1	0.06	285	34	831.4	832.1	831.4
10.6	30589	-45.1	-80.1	1	0.06	286	32	836.0	836.8	836.1
10.0	30980	-43.7	-79.7	1	0.07	290	25	855.3	856.2	855.3
9.4	31394	-42.1	-78.4	1	0.09	290	21	876.2	877.4	876.3
8.1	32412	-38.3	-75.3	1	0.17	279	33	929.8	932.1	929.9
7.5	32940	-39.1	-76.1	1	0.16	273	39	947.2	949.5	947.3
7.2	33223	-38.0	-75.8	1	0.18	270	42	962.7	965.2	962.8
7.1	33317	-37.7	-75.7	1	0.18			967.9	970.5	968.0

## Station information and sounding indices

Station identifier: NKX  
 Station number: 72293  
 Observation time: 150425/0000  
 Station latitude: 32.85  
 Station longitude: -117.12  
 Station elevation: 137.0  
 Showalter index: 6.04  
 Lifted index: 5.23  
 LIFT computed using virtual temperature: 5.12  
 SWEAT index: 107.81  
 K index: 15.50  
 Cross totals index: 20.90  
 Vertical totals index: 21.10  
 Totals totals index: 42.00  
 Convective Available Potential Energy: 13.56  
 CAPE using virtual temperature: 15.82  
 Convective Inhibition: 0.00  
 CINS using virtual temperature: 0.00  
 Equilibrium Level: 843.34  
 Equilibrium Level using virtual temperature: 842.97  
 Level of Free Convection: 919.19  
 LFCT using virtual temperature: 919.19  
 Bulk Richardson Number: 0.55  
 Bulk Richardson Number using CAPV: 0.64  
 Temp [K] of the Lifted Condensation Level: 282.58  
 Pres [hPa] of the Lifted Condensation Level: 919.19  
 Mean mixed layer potential temperature: 289.47



Mean mixed layer mixing ratio: 8.14  
 1000 hPa to 500 hPa thickness: 5563.00  
 Precipitable water [mm] for entire sounding: 22.38

## 72293 NKX San Diego Observations at 12Z 25 Apr 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	130									
999.0	137	15.0	12.0	82	8.89	185	4	288.2	313.3	289.8
979.3	305	13.6	10.9	84	8.40	180	7	288.4	312.2	289.9
944.4	610	10.9	8.8	87	7.57	215	8	288.7	310.3	290.1
925.0	785	9.4	7.6	89	7.13	225	10	288.9	309.3	290.2
910.7	914	8.3	7.3	93	7.08	225	9	289.1	309.3	290.3
899.0	1021	7.4	7.0	97	7.03	239	7	289.2	309.3	290.4
877.6	1219	6.4	6.1	98	6.79	265	4	290.1	309.7	291.3
850.0	1481	5.0	5.0	100	6.47	310	9	291.4	310.1	292.5
845.5	1524	4.7	4.7	100	6.39	315	11	291.5	310.1	292.6
827.0	1705	3.6	3.6	100	6.03	303	18	292.2	309.8	293.2
817.0	1804	5.4	3.9	90	6.23	297	21	295.1	313.5	296.2
814.5	1829	5.5	3.4	86	6.02	295	22	295.4	313.2	296.5
808.0	1895	5.6	2.0	78	5.50	296	23	296.3	312.6	297.2
796.0	2017	5.4	1.7	77	5.47	298	24	297.3	313.7	298.3
789.0	2089	5.6	-4.4	49	3.51	299	25	298.3	309.1	298.9
784.7	2134	5.5	-4.5	49	3.51	300	26	298.7	309.5	299.3
777.0	2215	5.4	-4.6	49	3.51	300	26	299.4	310.2	300.0
756.0	2438	4.4	-8.8	38	2.61	300	27	300.7	308.9	301.2
751.0	2492	4.2	-9.8	35	2.43	300	28	301.0	308.7	301.4
742.0	2590	3.8	-17.2	20	1.34	300	28	301.6	306.0	301.8
734.0	2678	3.8	-20.2	15	1.05	300	29	302.5	306.1	302.7
728.1	2743	3.5	-15.1	24	1.64	300	30	302.9	308.3	303.2
721.0	2823	3.2	-8.8	41	2.74	298	29	303.4	312.1	303.9
710.0	2947	3.0	-11.0	35	2.34	294	29	304.5	312.1	305.0
700.0	3062	2.0	-9.0	44	2.78	290	28	304.7	313.6	305.2
698.0	3085	1.8	-9.2	44	2.74	290	28	304.7	313.5	305.2
651.0	3643	-1.5	-13.5	40	2.08	280	25	307.1	313.9	307.5
649.8	3658	-1.6	-14.1	38	1.98	280	25	307.2	313.7	307.5
629.0	3915	-2.9	-24.9	17	0.81	280	26	308.5	311.4	308.7
619.0	4042	-3.9	-24.9	18	0.82	280	27	308.8	311.7	308.9
605.0	4221	-5.5	-19.5	32	1.36	280	28	309.0	313.6	309.2
601.5	4267	-5.8	-19.4	33	1.37	280	28	309.1	313.8	309.4
596.0	4339	-6.3	-19.3	35	1.40	281	28	309.4	314.1	309.6
590.0	4417	-6.9	-23.9	24	0.95	282	28	309.6	312.9	309.8
585.0	4484	-7.1	-24.1	24	0.94	284	29	310.1	313.4	310.3
579.0	4564	-7.1	-33.1	11	0.41	285	29	311.0	312.5	311.1
576.0	4604	-7.3	-25.3	22	0.85	286	29	311.2	314.2	311.4
566.0	4740	-7.9	-38.9	6	0.23	288	30	312.1	313.0	312.1
556.1	4877	-8.6	-42.2	5	0.17	290	30	312.9	313.5	312.9
551.0	4948	-8.9	-43.9	4	0.14	292	30	313.3	313.9	313.3
534.5	5182	-11.0	-33.3	14	0.43	300	30	313.5	315.1	313.6
529.0	5261	-11.7	-29.7	21	0.62	298	29	313.6	315.9	313.7
522.0	5363	-12.3	-43.3	6	0.16	295	29	314.1	314.7	314.1
510.0	5540	-13.5	-48.5	3	0.09	289	27	314.7	315.1	314.8
500.0	5690	-14.7	-46.7	5	0.12	285	26	315.1	315.5	315.1
491.0	5828	-15.9	-45.9	6	0.13	283	27	315.2	315.7	315.2
478.0	6030	-17.9	-37.9	16	0.31	281	28	315.2	316.3	315.2
473.8	6096	-18.4	-38.4	16	0.29	280	28	315.4	316.5	315.4

454.7	6401	-20.7	-40.7	15	0.24	275	27	316.2	317.1	316.2
436.4	6706	-23.0	-43.0	14	0.20	290	29	317.0	317.8	317.1
431.0	6798	-23.7	-43.7	14	0.19	289	30	317.3	318.0	317.3
403.0	7286	-28.5	-44.5	20	0.18	285	33	317.2	317.9	317.2
400.0	7340	-28.9	-43.9	22	0.20	285	33	317.4	318.1	317.4
384.5	7620	-31.4	-43.1	31	0.22	285	31	317.6	318.5	317.7
377.0	7760	-32.7	-42.7	36	0.24	284	30	317.7	318.6	317.8
363.0	8025	-35.1	-46.1	32	0.17	282	29	318.0	318.6	318.0
357.0	8141	-35.9	-50.9	20	0.10	282	29	318.4	318.8	318.4
352.0	8239	-36.9	-47.9	31	0.14	281	29	318.4	318.9	318.4
346.0	8357	-38.1	-53.1	19	0.08	280	28	318.3	318.6	318.3
325.0	8784	-42.1	-51.1	37	0.11	277	26	318.5	319.0	318.6
316.0	8974	-43.9	-52.9	36	0.09	276	26	318.6	319.0	318.6
308.0	9144	-45.3	-55.8	30	0.07	275	25	319.0	319.3	319.0
300.0	9320	-46.7	-58.7	24	0.05	265	27	319.4	319.6	319.4
296.0	9408	-47.3	-59.3	24	0.04	266	29	319.8	320.0	319.8
277.0	9841	-51.1	-60.1	33	0.04	269	40	320.4	320.6	320.4
269.0	10030	-52.1	-62.1	29	0.03	270	44	321.7	321.8	321.7
267.8	10058	-52.2	-62.4	28	0.03	270	45	321.9	322.1	321.9
251.0	10475	-53.7	-66.7	19	0.02	265	44	325.7	325.8	325.7
250.0	10500	-53.9	-66.9	19	0.02	265	44	325.8	325.9	325.8
224.0	11202	-57.5	-72.5	13	0.01	265	40	330.7	330.7	330.7
222.0	11259	-56.3	-72.3	12	0.01	264	40	333.4	333.4	333.4
211.0	11582	-57.7	-76.1	8	0.01	260	39	336.1	336.1	336.1
208.0	11672	-58.1	-77.1	7	0.01	260	41	336.8	336.8	336.8
205.0	11764	-57.3	-77.3	6	0.01	260	44	339.5	339.5	339.5
200.0	11920	-58.1	-79.1	5	0.00	260	48	340.6	340.6	340.6
198.0	11983	-58.1	-79.1	5	0.00	260	49	341.6	341.6	341.6
192.0	12177	-57.7	-79.7	4	0.00	260	51	345.2	345.3	345.2
187.0	12344	-56.1	-81.1	3	0.00	260	52	350.4	350.4	350.4
179.0	12621	-57.5	-83.5	2	0.00	260	55	352.6	352.6	352.6
173.9	12802	-57.5	-84.4	2	0.00	260	57	355.4	355.5	355.4
168.0	13021	-57.5	-85.5	2	0.00	267	46	359.0	359.0	359.0
165.8	13106	-56.6	-85.3	2	0.00	270	42	361.9	361.9	361.9
165.0	13135	-56.3	-85.3	1	0.00	270	42	362.9	362.9	362.9
156.0	13491	-56.1	-86.1	1	0.00	264	45	369.1	369.1	369.1
152.0	13656	-56.9	-86.9	1	0.00	261	47	370.4	370.4	370.4
150.6	13716	-56.5	-86.5	1	0.00	260	47	372.2	372.2	372.2
150.0	13740	-56.3	-86.3	1	0.00	265	52	372.9	372.9	372.9
143.5	14021	-56.0	-86.8	1	0.00	270	57	378.2	378.2	378.2
142.0	14088	-55.9	-86.9	1	0.00	271	53	379.5	379.5	379.5
136.8	14326	-56.1	-87.1	1	0.00	275	37	383.2	383.2	383.2
132.0	14551	-56.3	-87.3	1	0.00	275	37	386.7	386.8	386.7
129.0	14697	-55.3	-87.3	1	0.00	275	37	391.1	391.1	391.1
122.0	15052	-56.9	-88.9	1	0.00	275	36	394.4	394.5	394.4
118.4	15240	-58.1	-89.4	1	0.00	275	36	395.6	395.6	395.6
113.0	15532	-60.1	-90.1	1	0.00	276	36	397.2	397.2	397.2
110.0	15700	-60.7	-90.7	1	0.00	277	36	399.2	399.2	399.2
100.0	16290	-62.1	-91.1	1	0.00	280	37	407.5	407.5	407.5
88.0	17080	-63.1	-91.1	1	0.00	269	37	420.6	420.6	420.6
84.0	17374	-60.5	-90.0	1	0.00	265	37	431.5	431.5	431.5
80.0	17678	-57.9	-89.0	1	0.00	275	23	443.0	443.0	443.0
77.7	17861	-56.3	-88.3	1	0.00	269	19	450.0	450.0	450.0
72.6	18288	-58.5	-89.9	1	0.00	255	9	454.1	454.1	454.1
70.0	18520	-59.7	-90.7	1	0.00	240	16	456.3	456.3	456.3
69.9	18529	-59.9	-90.9	1	0.00	240	16	456.1	456.1	456.1
65.9	18898	-60.6	-91.0	1	0.00	235	17	462.4	462.4	462.4
62.7	19202	-61.1	-91.1	1	0.00	255	15	467.7	467.7	467.7
59.7	19507	-61.7	-91.2	1	0.00	220	19	473.0	473.0	473.0

56.7	19829	-62.3	-91.3	1	0.00	234	25	478.7	478.8	478.7
51.5	20422	-60.7	-90.7	1	0.00	260	35	495.6	495.7	495.6
51.4	20437	-60.7	-90.7	1	0.00	260	35	496.1	496.1	496.1
50.0	20610	-58.5	-89.5	1	0.00	265	31	505.2	505.2	505.2
48.4	20815	-55.5	-87.5	1	0.00	289	23	517.0	517.1	517.0
45.5	21208	-55.3	-87.3	1	0.00	335	8	526.7	526.8	526.7
44.6	21336	-56.4	-88.1	1	0.00	350	3	527.0	527.1	527.0
42.8	21595	-58.7	-89.7	1	0.00	342	2	527.6	527.7	527.6
42.5	21641	-58.6	-89.8	1	0.00	340	2	528.9	529.0	528.9
40.5	21946	-58.2	-90.0	1	0.00	225	14	537.4	537.5	537.5
40.1	22003	-58.1	-90.1	1	0.00	226	14	539.1	539.1	539.1
34.5	22941	-61.5	-92.5	1	0.00	241	18	553.8	553.9	553.8
33.3	23165	-59.5	-90.9	1	0.00	245	19	564.8	564.8	564.8
31.7	23470	-56.8	-88.6	1	0.00	265	27	580.0	580.0	580.0
31.2	23571	-55.9	-87.9	1	0.01	266	26	585.1	585.1	585.1
30.0	23820	-55.5	-87.5	1	0.01	270	25	592.7	592.8	592.8
27.5	24384	-55.4	-87.4	1	0.01	290	23	608.3	608.4	608.3
26.3	24659	-55.3	-87.3	1	0.01	310	19	616.0	616.1	616.0
24.9	24994	-56.1	-88.1	1	0.01	335	14	623.0	623.1	623.0
23.8	25298	-56.9	-88.8	1	0.01	305	7	629.5	629.5	629.5
23.1	25483	-57.3	-89.3	1	0.01	303	9	633.4	633.5	633.4
21.6	25908	-55.8	-88.3	1	0.01	300	14	650.1	650.1	650.1
20.6	26213	-54.8	-87.5	1	0.01	290	15	662.2	662.4	662.3
20.0	26400	-54.1	-87.1	1	0.01	265	21	669.8	669.9	669.8
19.8	26465	-53.3	-86.3	1	0.01	265	20	674.2	674.3	674.2
19.6	26518	-53.4	-86.4	1	0.01	265	20	675.5	675.6	675.5
18.7	26832	-54.1	-87.1	1	0.01	305	26	682.8	682.9	682.8
18.7	26822	-54.1	-87.1	1	0.01	305	26	682.6	682.7	682.6
17.9	27127	-52.8	-85.8	1	0.01	295	25	695.8	696.0	695.8
17.4	27296	-52.1	-85.1	1	0.02	312	23	703.4	703.6	703.4
17.0	27432	-52.0	-85.1	1	0.02	325	21	707.9	708.1	707.9
16.3	27737	-51.8	-85.0	1	0.02	340	20	718.2	718.4	718.2
14.8	28346	-51.4	-84.9	1	0.02	310	14	739.1	739.3	739.1
14.1	28651	-51.1	-84.8	1	0.02	315	4	749.8	750.0	749.8
12.8	29290	-50.7	-84.7	1	0.02	280	13	772.7	773.0	772.7
12.3	29566	-49.7	-83.7	1	0.03	265	17	785.8	786.1	785.8
11.9	29767	-48.9	-82.9	1	0.03	248	16	795.4	795.8	795.4
11.7	29878	-46.7	-81.7	1	0.04	241	15	807.1	807.6	807.1
11.7	29870	-46.9	-81.8	1	0.04	240	15	806.2	806.7	806.2
10.9	30351	-43.5	-79.5	1	0.07	280	20	835.2	836.0	835.3
10.7	30480	-43.9	-79.9	1	0.06	290	21	838.3	839.1	838.3
10.5	30602	-44.3	-80.3	1	0.06	286	22	841.2	842.0	841.3
10.2	30785	-43.7	-79.7	1	0.07	280	23	849.9	850.7	849.9
10.0	30930	-43.3	-79.3	1	0.07	290	28	856.8	857.7	856.8
9.3	31394	-41.8	-78.2	1	0.10	300	35	879.5	880.7	879.5
8.5	32032	-39.7	-76.7	1	0.13	263	24	911.6	913.3	911.6
8.0	32446	-40.3	-77.3	1	0.13	240	17	925.1	926.9	925.2
7.8	32614	-39.2	-76.6	1	0.15	230	14	935.9	937.9	936.0
7.5	32888	-37.5	-75.5	1	0.18			953.7	956.2	953.8

## Station information and sounding indices

Station identifier: NKX  
 Station number: 72293  
 Observation time: 150425/1200  
 Station latitude: 32.85  
 Station longitude: -117.12  
 Station elevation: 137.0  
 Showalter index: 7.59

Lifted index: 6.63  
 LIFT computed using virtual temperature: 6.43  
 SWEAT index: 103.98  
 K index: 13.70  
 Cross totals index: 19.70  
 Vertical totals index: 19.70  
 Totals totals index: 39.40  
 Convective Available Potential Energy: 18.67  
 CAPE using virtual temperature: 21.28  
 Convective Inhibition: -1.16  
 CINS using virtual temperature: -0.47  
 Equilibrium Level: 823.58  
 Equilibrium Level using virtual temperature: 823.46  
 Level of Free Convection: 922.83  
 LFCT using virtual temperature: 927.65  
 Bulk Richardson Number: 0.33  
 Bulk Richardson Number using CAPV: 0.38  
 Temp [K] of the Lifted Condensation Level: 282.89  
 Pres [hPa] of the Lifted Condensation Level: 933.71  
 Mean mixed layer potential temperature: 288.50  
 Mean mixed layer mixing ratio: 8.19  
 1000 hPa to 500 hPa thickness: 5560.00  
 Precipitable water [mm] for entire sounding: 19.86

## 72293 NKX San Diego Observations at 00Z 26 Apr 2015

PRES	HGHT	TEMP	DWPT	RELH	MIXR	DRCT	SKNT	THTA	THTE	THTV
hPa	m	C	C	%	g/kg	deg	knot	K	K	K
1000.0	118									
998.0	137	17.4	12.4	72	9.14	280	12	290.7	316.8	292.3
994.0	171	16.8	12.1	74	8.99	276	13	290.4	316.1	292.0
978.4	305	14.3	10.6	79	8.28	260	18	289.2	312.8	290.7
978.0	308	14.2	10.6	79	8.27	260	18	289.2	312.7	290.6
965.0	421	13.0	10.1	83	8.10	256	17	289.1	312.1	290.5
943.4	610	11.5	8.9	84	7.62	250	15	289.4	311.2	290.8
925.0	774	10.2	7.8	85	7.22	270	22	289.7	310.4	291.0
909.6	914	8.8	7.1	89	7.01	265	24	289.7	309.8	290.9
907.0	937	8.6	7.0	90	6.97	266	24	289.7	309.7	290.9
901.0	992	8.6	6.0	84	6.55	268	24	290.3	309.1	291.4
878.0	1206	7.0	6.6	97	7.01	275	24	290.8	310.9	292.0
876.6	1219	7.0	6.6	97	7.00	275	24	290.9	311.0	292.1
850.0	1473	6.2	6.0	99	6.94	290	29	292.6	312.8	293.9
815.0	1817	4.6	4.1	97	6.34	295	23	294.5	313.1	295.6
813.8	1829	4.5	4.0	96	6.30	295	23	294.5	313.0	295.6
783.8	2134	3.0	1.1	87	5.33	285	29	296.1	312.0	297.1
760.0	2384	1.8	-1.2	80	4.63	293	31	297.4	311.4	298.2
754.9	2438	1.5	-1.4	81	4.60	295	31	297.6	311.5	298.4
726.7	2743	-0.3	-2.5	85	4.40	295	36	298.9	312.3	299.7
712.0	2907	-1.3	-3.1	88	4.29	295	39	299.6	312.7	300.3
700.0	3042	-2.1	-4.3	85	3.99	295	42	300.1	312.4	300.9
698.0	3065	-2.3	-4.5	85	3.94	294	42	300.1	312.3	300.9
692.0	3133	-2.7	-6.6	75	3.39	293	42	300.4	311.0	301.1
673.0	3353	-4.3	-7.0	81	3.38	287	43	301.1	311.6	301.7
665.0	3447	-4.1	-9.1	68	2.90	285	43	302.3	311.5	302.8
648.0	3652	-3.5	-12.5	50	2.27	280	44	305.2	312.6	305.7
647.5	3658	-3.5	-12.5	50	2.27	280	44	305.3	312.6	305.7
619.0	4012	-5.1	-14.1	49	2.09	283	47	307.4	314.3	307.8

599.1	4267	-7.2	-13.9	58	2.18	285	49	307.9	315.1	308.3
592.0	4360	-7.9	-13.9	62	2.22	287	50	308.1	315.4	308.5
580.0	4519	-8.3	-17.3	48	1.71	291	53	309.4	315.2	309.8
553.8	4877	-9.4	-20.2	41	1.40	300	58	312.3	317.1	312.6
551.0	4916	-9.5	-20.5	40	1.37	300	58	312.6	317.3	312.9
542.0	5043	-9.3	-25.3	26	0.91	299	58	314.3	317.5	314.5
536.0	5129	-9.9	-25.9	26	0.87	298	57	314.6	317.7	314.8
516.0	5420	-12.1	-32.1	17	0.51	297	57	315.4	317.2	315.5
500.0	5660	-14.3	-32.3	20	0.51	295	56	315.5	317.4	315.6
471.6	6096	-18.3	-34.1	24	0.46	300	58	315.9	317.6	316.0
427.0	6837	-25.1	-37.1	32	0.37	312	67	316.3	317.7	316.4
403.0	7256	-28.5	-47.5	14	0.13	319	72	317.2	317.7	317.2
400.0	7310	-28.7	-53.7	7	0.06	320	73	317.6	317.9	317.6
397.0	7364	-29.1	-60.1	3	0.03	321	75	317.8	317.9	317.8
382.9	7620	-30.6	-61.3	3	0.03	325	82	319.1	319.2	319.1
376.0	7748	-31.4	-61.9	3	0.02	325	82	319.7	319.8	319.7
356.0	8135	-33.7	-63.7	3	0.02	324	80	321.6	321.7	321.6
337.0	8517	-36.7	-54.7	14	0.07	322	79	322.6	322.9	322.6
332.0	8620	-37.3	-47.3	35	0.16	322	78	323.2	323.8	323.2
323.0	8809	-39.1	-47.1	42	0.17	321	77	323.2	323.9	323.3
307.4	9144	-42.2	-48.2	52	0.16	320	76	323.5	324.2	323.6
300.0	9310	-43.7	-48.7	58	0.15	320	74	323.6	324.3	323.7
299.0	9332	-43.7	-48.7	58	0.15	320	74	324.0	324.6	324.0
279.0	9793	-48.1	-54.1	50	0.09	316	72	324.1	324.5	324.1
274.0	9912	-48.5	-59.5	27	0.05	315	71	325.2	325.4	325.2
269.0	10033	-49.1	-63.1	18	0.03	314	70	326.0	326.2	326.1
250.0	10510	-52.1	-69.1	11	0.01	310	68	328.5	328.5	328.5
249.0	10536	-52.5	-69.5	11	0.01	310	68	328.3	328.3	328.3
235.0	10908	-53.7	-71.7	9	0.01	310	65	331.9	332.0	331.9
232.6	10973	-53.4	-72.3	8	0.01	310	64	333.3	333.4	333.3
225.0	11188	-52.5	-74.5	5	0.01	309	66	337.9	337.9	337.9
209.0	11660	-55.3	-77.3	5	0.00	306	69	340.7	340.8	340.7
200.0	11940	-56.1	-79.1	4	0.00	305	71	343.8	343.8	343.8
196.0	12068	-56.5	-79.5	4	0.00	305	74	345.1	345.1	345.1
193.0	12167	-55.5	-78.5	4	0.00	305	74	348.2	348.3	348.2
192.2	12192	-55.5	-78.8	4	0.00	305	74	348.6	348.6	348.6
186.0	12402	-55.9	-80.9	3	0.00	305	69	351.3	351.3	351.3
183.0	12506	-55.3	-81.3	3	0.00	305	66	353.9	353.9	353.9
169.0	13012	-57.1	-85.1	2	0.00	305	52	359.1	359.1	359.1
166.5	13106	-56.5	-85.0	2	0.00	305	50	361.6	361.6	361.6
164.0	13203	-55.9	-84.9	2	0.00	302	51	364.2	364.2	364.2
150.0	13770	-56.5	-86.5	1	0.00	285	55	372.5	372.5	372.5
144.2	14021	-57.8	-87.1	1	0.00	280	59	374.5	374.5	374.5
142.0	14116	-58.3	-87.3	1	0.00	283	57	375.3	375.3	375.3
137.3	14326	-56.8	-86.7	1	0.00	290	52	381.5	381.5	381.5
137.0	14342	-56.7	-86.7	1	0.00	289	51	381.9	382.0	381.9
134.0	14482	-54.9	-85.9	1	0.00	282	43	387.6	387.6	387.6
130.9	14630	-55.9	-86.5	1	0.00	275	34	388.4	388.4	388.4
126.0	14873	-57.5	-87.5	1	0.00	279	38	389.8	389.8	389.8
121.0	15127	-58.3	-88.3	1	0.00	283	42	392.8	392.8	392.8
118.9	15240	-58.0	-88.0	1	0.00	285	44	395.4	395.4	395.4
111.0	15671	-56.7	-86.7	1	0.00	295	36	405.6	405.6	405.6
109.0	15786	-56.9	-87.9	1	0.00	298	34	407.4	407.4	407.4
107.0	15903	-55.9	-86.9	1	0.00	300	32	411.4	411.4	411.4
100.0	16330	-58.9	-88.9	1	0.00	310	24	413.6	413.7	413.6
93.2	16764	-62.3	-90.6	1	0.00	305	15	415.3	415.3	415.3
88.8	17063	-64.7	-91.7	1	0.00	285	20	416.4	416.4	416.4
88.7	17069	-64.7	-91.7	1	0.00	280	23	416.4	416.4	416.4
80.3	17678	-65.4	-91.5	2	0.00	300	28	427.1	427.1	427.1

79.0	17774	-65.5	-91.5	2	0.00	296	28	428.8	428.9	428.8
75.8	18027	-62.3	-89.3	2	0.00	286	30	440.6	440.6	440.6
72.7	18288	-61.1	-88.7	2	0.00	275	31	448.4	448.4	448.4
70.0	18520	-60.1	-88.1	1	0.00	260	34	455.5	455.5	455.5
69.2	18593	-60.1	-88.1	1	0.00	260	34	457.0	457.0	457.0
69.1	18601	-60.1	-88.1	1	0.00	260	34	457.1	457.2	457.1
64.7	19018	-55.3	-86.3	1	0.00	267	17	476.3	476.4	476.3
62.8	19202	-56.3	-87.0	1	0.00	270	10	478.2	478.2	478.2
53.6	20206	-61.5	-90.5	1	0.00	282	15	488.3	488.4	488.3
51.8	20422	-60.9	-89.9	1	0.00	285	16	494.6	494.6	494.6
50.0	20640	-60.3	-89.3	1	0.00	245	12	500.9	501.0	500.9
49.3	20726	-59.9	-89.1	1	0.00	245	12	503.8	503.8	503.8
47.0	21031	-58.6	-88.3	1	0.00	285	18	514.0	514.0	514.0
45.7	21203	-57.9	-87.9	1	0.00	260	15	519.8	519.8	519.8
44.8	21336	-58.2	-88.2	1	0.00	240	12	522.2	522.2	522.2
43.3	21543	-58.7	-88.7	1	0.00	237	13	525.9	525.9	525.9
42.6	21641	-59.6	-89.1	1	0.00	235	14	526.1	526.1	526.1
40.6	21946	-62.3	-90.3	1	0.00	255	17	526.8	526.9	526.8
40.6	21943	-62.3	-90.3	1	0.00	255	17	526.7	526.7	526.7
39.6	22098	-59.9	-89.9	1	0.00	271	15	536.5	536.5	536.5
36.8	22555	-59.9	-89.1	1	0.00	320	10	547.8	547.8	547.8
36.2	22658	-59.9	-88.9	1	0.00	327	13	550.4	550.5	550.4
35.1	22860	-57.3	-87.8	1	0.01	340	20	562.2	562.2	562.2
34.7	22925	-56.5	-87.5	1	0.01	340	19	566.0	566.0	566.0
32.2	23396	-58.9	-88.9	1	0.00	340	9	571.8	571.9	571.8
30.3	23774	-58.9	-88.9	1	0.00	340	2	581.7	581.8	581.7
30.1	23819	-58.9	-88.9	1	0.00	289	5	582.9	583.0	582.9
30.0	23840	-58.7	-88.7	1	0.01	265	7	584.0	584.1	584.0
28.2	24230	-57.3	-87.3	1	0.01	251	12	598.3	598.4	598.3
27.5	24384	-54.9	-86.4	1	0.01	245	14	609.1	609.2	609.1
27.3	24437	-54.1	-86.1	1	0.01	249	15	612.9	612.9	612.9
26.3	24676	-54.7	-85.7	1	0.01	269	17	617.7	617.8	617.7
25.0	24994	-53.2	-84.8	1	0.01	295	21	630.8	630.9	630.8
24.3	25185	-52.3	-84.3	1	0.01	298	20	638.8	638.9	638.8
23.3	25458	-51.9	-83.9	1	0.02	301	18	647.7	647.8	647.7
20.9	26158	-54.9	-85.9	1	0.01	311	14	659.0	659.2	659.0
20.0	26440	-53.9	-84.9	1	0.01	315	12	670.4	670.6	670.5
18.4	26976	-52.9	-84.9	1	0.02	299	19	689.7	689.9	689.7
17.7	27228	-50.7	-83.7	1	0.02	291	22	704.4	704.6	704.4
17.1	27432	-50.6	-83.6	1	0.02	285	24	711.1	711.3	711.1
16.4	27737	-50.4	-83.4	1	0.02	300	16	721.2	721.5	721.2
15.9	27927	-50.3	-83.3	1	0.02			727.6	727.9	727.6

## Station information and sounding indices

Station identifier: NKX  
 Station number: 72293  
 Observation time: 150426/0000  
 Station latitude: 32.85  
 Station longitude: -117.12  
 Station elevation: 137.0  
 Showalter index: 6.34  
 Lifted index: 6.31  
 LIFT computed using virtual temperature: 6.16  
 SWEAT index: 186.01  
 K index: 24.30  
 Cross totals index: 20.30  
 Vertical totals index: 20.50  
 Totals totals index: 40.80

Convective Available Potential Energy: 5.17  
 CAPE using virtual temperature: 7.70  
 Convective Inhibition: -0.94  
 CINS using virtual temperature: -0.04  
 Equilibrium Level: 854.25  
 Equilibrium Level using virtual temperature: 853.40  
 Level of Free Convection: 914.93  
 LFCT using virtual temperature: 919.20  
 Bulk Richardson Number: 0.07  
 Bulk Richardson Number using CAPV: 0.11  
 Temp [K] of the Lifted Condensation Level: 282.73  
 Pres [hPa] of the Lifted Condensation Level: 920.82  
 Mean mixed layer potential temperature: 289.48  
 Mean mixed layer mixing ratio: 8.22  
 1000 hPa to 500 hPa thickness: 5542.00  
 Precipitable water [mm] for entire sounding: 23.91

## 72293 NKX San Diego Observations at 12Z 26 Apr 2015

PRES	HGHT	TEMP	DWPT	RELH	MIXR	DRCT	SKNT	THTA	THTE	THTV
hPa	m	C	C	%	g/kg	deg	knot	K	K	K
1000.0	121									
998.0	137	13.2	11.8	91	8.78	35	3	286.5	311.1	288.0
988.0	222	13.6	10.4	81	8.07	309	4	287.7	310.6	289.1
978.3	305	12.9	10.1	83	7.97	225	5	287.8	310.4	289.2
943.3	610	10.2	8.8	91	7.61	190	7	288.1	309.8	289.5
925.0	774	8.8	8.2	96	7.43	210	5	288.3	309.4	289.6
923.0	792	8.6	8.1	97	7.39	219	5	288.3	309.3	289.6
909.4	914	7.8	7.4	97	7.16	280	2	288.7	309.1	289.9
876.4	1219	5.8	5.7	99	6.61	330	2	289.7	308.7	290.9
866.0	1317	5.2	5.2	100	6.44	332	9	290.0	308.6	291.2
858.0	1393	5.4	4.8	96	6.32	333	14	291.0	309.3	292.1
850.0	1470	6.2	3.4	82	5.78	335	20	292.6	309.6	293.6
842.0	1548	6.8	0.8	66	4.84	334	23	294.1	308.4	294.9
827.0	1695	6.8	-5.2	42	3.15	332	29	295.6	305.2	296.1
817.0	1795	6.0	-4.0	49	3.50	330	33	295.7	306.4	296.4
813.6	1829	6.0	-5.5	43	3.12	330	34	296.1	305.7	296.7
806.0	1906	6.0	-9.0	33	2.41	330	34	296.9	304.4	297.3
783.8	2134	4.8	-12.1	28	1.94	330	34	298.0	304.2	298.4
772.0	2257	4.2	-13.8	26	1.71	326	36	298.6	304.1	298.9
755.0	2438	4.2	-21.5	13	0.91	320	38	300.5	303.6	300.7
750.0	2492	4.2	-23.8	11	0.75	320	38	301.1	303.7	301.2
727.1	2743	2.8	-29.1	7	0.48	320	37	302.2	303.9	302.3
715.0	2878	2.0	-32.0	6	0.37	318	39	302.8	304.1	302.9
702.0	3026	1.8	-27.2	10	0.59	315	41	304.2	306.3	304.3
700.1	3048	2.0	-25.1	11	0.72	315	41	304.6	307.1	304.8
700.0	3049	2.0	-25.0	11	0.72	315	39	304.7	307.2	304.8
695.0	3107	2.8	-14.2	27	1.84	318	41	306.2	312.2	306.5
688.0	3189	3.0	-14.0	27	1.89	322	43	307.3	313.5	307.6
674.1	3353	2.1	-14.2	29	1.90	330	47	308.1	314.4	308.4
648.9	3658	0.4	-14.5	32	1.93	325	49	309.5	315.9	309.9
633.0	3858	-0.7	-14.7	34	1.94	323	53	310.5	317.0	310.8
615.0	4088	-0.9	-12.9	40	2.32	321	57	312.8	320.5	313.3
605.0	4218	-0.9	-14.9	34	2.00	320	59	314.3	321.0	314.7
601.3	4267	-1.2	-15.2	33	1.95	320	60	314.5	321.1	314.9
558.0	4858	-4.5	-19.5	30	1.47	330	62	317.4	322.5	317.7
556.7	4877	-4.7	-19.6	30	1.46	330	62	317.4	322.5	317.7

500.0	5710	-11.5	-24.5	33	1.06	320	68	318.9	322.7	319.2
494.7	5791	-12.2	-25.0	34	1.02	320	70	319.0	322.7	319.2
480.0	6021	-14.3	-26.3	35	0.94	320	71	319.2	322.6	319.4
475.3	6096	-14.7	-27.8	32	0.82	320	71	319.7	322.7	319.9
456.0	6409	-16.1	-34.1	20	0.47	322	71	321.7	323.5	321.8
434.0	6779	-19.1	-36.1	21	0.41	325	71	322.5	324.0	322.6
400.0	7380	-24.5	-37.5	29	0.38	330	71	323.1	324.5	323.1
386.8	7620	-26.6	-38.8	31	0.35	330	69	323.4	324.8	323.5
341.0	8522	-34.5	-43.5	40	0.24	336	72	324.5	325.5	324.6
334.0	8668	-34.7	-47.7	25	0.15	337	72	326.2	326.8	326.2
311.8	9144	-38.6	-50.1	29	0.13	340	74	327.2	327.7	327.2
305.0	9297	-39.9	-50.9	30	0.12	340	76	327.5	327.9	327.5
300.0	9410	-40.9	-50.9	33	0.12	340	77	327.6	328.1	327.6
286.0	9732	-43.7	-50.7	46	0.13	337	75	328.1	328.6	328.1
276.0	9970	-45.5	-52.5	45	0.11	335	74	328.9	329.3	328.9
271.0	10091	-46.1	-55.1	35	0.08	334	73	329.7	330.1	329.7
260.0	10364	-48.5	-55.5	44	0.08	332	72	330.1	330.4	330.1
250.0	10620	-50.7	-57.7	43	0.06	330	70	330.6	330.8	330.6
244.0	10778	-52.1	-59.1	43	0.05	329	71	330.8	331.0	330.8
215.0	11586	-57.5	-63.5	46	0.03	327	75	334.6	334.7	334.6
210.0	11735	-58.5	-63.0	56	0.04	326	76	335.3	335.4	335.3
202.0	11978	-59.7	-65.7	45	0.03	325	78	337.1	337.2	337.1
200.0	12040	-59.7	-65.7	45	0.03	325	78	338.1	338.2	338.1
193.0	12263	-59.7	-67.7	34	0.02	323	78	341.5	341.6	341.5
186.0	12492	-61.3	-70.3	29	0.02	320	77	342.6	342.6	342.6
182.0	12628	-59.7	-70.7	23	0.02	330	80	347.3	347.4	347.3
180.0	12697	-57.1	-71.1	15	0.01	335	81	352.6	352.7	352.6
178.0	12768	-56.3	-72.3	12	0.01	335	81	355.1	355.1	355.1
177.0	12802	-56.3	-73.2	10	0.01	335	81	355.6	355.6	355.6
167.0	13172	-56.7	-82.7	2	0.00	337	74	360.9	361.0	360.9
164.0	13287	-56.3	-82.3	2	0.00	337	72	363.5	363.5	363.5
150.0	13850	-58.9	-84.9	2	0.00	340	61	368.4	368.4	368.4
145.0	14063	-59.9	-85.9	2	0.00	339	58	370.2	370.3	370.2
136.0	14464	-59.5	-86.5	2	0.00	337	53	377.8	377.8	377.8
126.0	14935	-61.4	-87.6	2	0.00	335	46	382.7	382.7	382.7
120.0	15240	-62.6	-88.3	2	0.00	320	33	385.9	385.9	385.9
111.0	15723	-64.5	-89.5	2	0.00	300	38	391.0	391.0	391.0
110.0	15778	-64.5	-89.5	2	0.00	298	40	392.0	392.0	392.0
108.7	15850	-64.7	-89.5	2	0.00	295	42	393.1	393.1	393.1
100.0	16360	-65.7	-89.7	2	0.00	305	48	400.5	400.5	400.5
90.8	16947	-64.5	-88.5	2	0.00	299	33	414.1	414.1	414.1
85.2	17334	-65.7	-89.7	2	0.00	295	23	419.3	419.3	419.3
84.6	17374	-65.1	-89.4	2	0.00	295	22	421.2	421.2	421.2
83.1	17486	-63.5	-88.5	2	0.00	294	23	426.8	426.8	426.8
76.6	17983	-65.0	-89.5	2	0.00	290	29	433.7	433.7	433.7
72.8	18288	-66.0	-90.1	2	0.00	310	26	437.9	437.9	437.9
71.5	18401	-66.3	-90.3	2	0.00	308	25	439.5	439.6	439.5
70.0	18530	-65.3	-89.3	2	0.00	305	23	444.4	444.4	444.4
69.3	18593	-64.1	-88.7	2	0.00	310	25	448.2	448.2	448.2
68.8	18635	-63.3	-88.3	2	0.00	308	26	450.8	450.9	450.8
66.4	18853	-62.5	-88.5	2	0.00	297	29	457.2	457.2	457.2
65.9	18898	-61.7	-88.2	2	0.00	295	30	459.8	459.8	459.8
64.3	19052	-59.1	-87.1	2	0.00	310	23	468.8	468.9	468.8
62.8	19202	-59.5	-87.7	1	0.00	325	17	471.1	471.1	471.1
59.8	19507	-60.5	-88.9	1	0.00	300	8	475.8	475.8	475.8
56.9	19812	-61.4	-90.1	1	0.00	295	12	480.4	480.5	480.4
54.6	20066	-62.1	-91.1	1	0.00	328	11	484.4	484.4	484.4
54.1	20117	-62.0	-91.0	1	0.00	335	11	485.9	485.9	485.9
50.6	20536	-60.7	-89.7	1	0.00	322	10	498.3	498.3	498.3



50.0	20610	-61.1	-90.1	1	0.00	320	10	499.1	499.1	499.1
49.1	20726	-61.3	-90.3	1	0.00	315	10	501.2	501.2	501.2
46.2	21100	-62.1	-91.1	1	0.00	324	8	508.1	508.1	508.1
44.5	21336	-60.4	-90.3	1	0.00	330	7	517.8	517.8	517.8
44.4	21347	-60.3	-90.3	1	0.00	329	7	518.2	518.3	518.2
40.5	21918	-62.3	-91.3	1	0.00	282	2	527.0	527.1	527.0
40.3	21946	-62.0	-91.2	1	0.00	280	2	528.4	528.5	528.4
39.2	22120	-60.3	-90.3	1	0.00	283	3	537.0	537.0	537.0
35.7	22700	-62.9	-91.9	1	0.00	292	8	544.8	544.9	544.8
33.1	23165	-59.6	-90.2	1	0.00	300	11	565.3	565.3	565.3
31.6	23470	-57.4	-89.2	1	0.00	350	11	579.1	579.1	579.1
31.2	23542	-56.9	-88.9	1	0.00	351	12	582.4	582.4	582.4
30.1	23774	-57.5	-89.5	1	0.00	355	16	587.0	587.0	587.0
30.0	23790	-57.5	-89.5	1	0.00	0	13	587.3	587.3	587.3
29.1	23982	-58.7	-89.7	1	0.00	15	10	589.1	589.2	589.1
27.3	24384	-58.2	-89.5	1	0.00	45	5	601.4	601.4	601.4
23.3	25385	-56.9	-88.9	1	0.01	19	11	633.0	633.1	633.0
21.5	25908	-54.9	-87.7	1	0.01	5	14	654.0	654.1	654.0
21.1	26017	-54.5	-87.5	1	0.01	359	14	658.5	658.5	658.5
20.0	26360	-55.3	-87.3	1	0.01	340	15	666.2	666.3	666.2
19.5	26518	-55.6	-87.6	1	0.01	330	10	670.1	670.2	670.1
18.9	26720	-55.9	-87.9	1	0.01	293	9	675.1	675.2	675.1
18.6	26822	-55.1	-87.3	1	0.01	275	8	680.6	680.7	680.6
17.7	27127	-52.8	-85.6	1	0.01	290	15	697.2	697.3	697.2
17.4	27251	-51.9	-84.9	1	0.02	296	15	704.0	704.2	704.0
16.9	27432	-51.4	-84.6	1	0.02	305	14	711.1	711.3	711.1
14.7	28346	-49.1	-83.0	1	0.03	310	24	748.1	748.4	748.1
14.4	28486	-48.7	-82.7	1	0.03	315	18	753.9	754.2	753.9
14.0	28651	-48.6	-82.7	1	0.03	320	11	759.6	760.0	759.6
12.8	29261	-48.3	-82.7	1	0.03	330	15	781.1	781.5	781.1
12.2	29566	-48.1	-82.7	1	0.04	295	14	792.0	792.5	792.1
11.7	29870	-48.0	-82.7	1	0.04	285	18	803.1	803.6	803.1
11.1	30175	-47.8	-82.7	1	0.04	305	17	814.4	814.9	814.4
10.8	30381	-47.7	-82.7	1	0.04	298	16	822.1	822.6	822.1
10.6	30480	-47.5	-82.5	1	0.04	295	16	826.5	827.0	826.5
10.2	30785	-46.8	-81.8	1	0.05	290	18	840.1	840.8	840.1
10.0	30890	-46.5	-81.5	1	0.05	310	16	844.9	845.5	844.9
9.7	31090	-45.2	-80.9	1	0.06	315	17	857.1	857.9	857.1
9.6	31162	-44.7	-80.7	1	0.06	313	19	861.6	862.4	861.6
9.3	31394	-45.4	-81.0	1	0.06	305	25	867.4	868.2	867.4
8.9	31666	-46.3	-81.3	1	0.06	321	18	874.2	875.0	874.3
8.1	32309	-43.6	-79.4	1	0.09	0	0	909.4	910.6	909.5
7.9	32464	-42.9	-78.9	1	0.10			918.1	919.5	918.1

## Station information and sounding indices

Station identifier: NKX  
 Station number: 72293  
 Observation time: 150426/1200  
 Station latitude: 32.85  
 Station longitude: -117.12  
 Station elevation: 137.0  
 Showalter index: 11.14  
 Lifted index: 10.72  
 LIFT computed using virtual temperature: 10.69  
 SWEAT index: 148.82  
 K index: -5.90  
 Cross totals index: 14.90  
 Vertical totals index: 17.70

Totals totals index: 32.60  
 Convective Available Potential Energy: 7.65  
 CAPE using virtual temperature: 8.77  
 Convective Inhibition: -1.02  
 CINS using virtual temperature: -0.75  
 Equilibrium Level: 857.60  
 Equilibrium Level using virtual temperature: 857.33  
 Level of Free Convection: 924.65  
 LFCT using virtual temperature: 926.20  
 Bulk Richardson Number: 0.04  
 Bulk Richardson Number using CAPV: 0.05  
 Temp [K] of the Lifted Condensation Level: 282.48  
 Pres [hPa] of the Lifted Condensation Level: 936.85  
 Mean mixed layer potential temperature: 287.81  
 Mean mixed layer mixing ratio: 7.93  
 1000 hPa to 500 hPa thickness: 5589.00  
 Precipitable water [mm] for entire sounding: 18.39

## 72293 NKX San Diego Observations at 00Z 27 Apr 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	119									
998.0	137	20.0	11.0	56	8.32	285	12	293.3	317.4	294.8
990.0	206	18.6	10.6	60	8.17	285	12	292.6	316.2	294.0
978.6	305	17.0	9.5	61	7.65	285	11	291.9	314.0	293.3
966.0	415	15.2	8.2	63	7.11	292	11	291.2	311.7	292.5
945.0	601	13.4	8.4	72	7.37	304	10	291.2	312.4	292.5
944.0	610	13.4	8.3	71	7.32	305	10	291.3	312.4	292.6
928.0	754	13.6	6.6	63	6.63	305	8	292.9	312.3	294.1
925.0	781	13.4	6.4	63	6.56	305	8	293.0	312.1	294.2
910.5	914	12.5	6.6	68	6.77	315	7	293.4	313.1	294.6
900.0	1011	11.8	6.8	71	6.93	329	9	293.7	313.9	294.9
877.9	1219	11.7	4.5	62	6.06	0	12	295.6	313.6	296.7
869.0	1305	11.6	3.6	58	5.73	0	15	296.4	313.5	297.4
850.0	1489	10.2	2.2	58	5.30	0	20	296.8	312.7	297.8
815.8	1829	7.9	-0.1	57	4.68	5	26	297.9	312.0	298.7
797.0	2021	6.6	-1.4	57	4.35	356	20	298.5	311.7	299.3
786.1	2134	7.3	-6.1	38	3.09	350	16	300.4	310.0	300.9
781.0	2188	7.6	-8.4	31	2.61	354	18	301.3	309.6	301.8
768.0	2326	7.0	-10.0	29	2.34	6	23	302.1	309.6	302.5
759.0	2423	8.4	-8.6	29	2.64	14	26	304.6	313.1	305.1
757.6	2438	8.3	-8.7	29	2.64	15	27	304.7	313.2	305.2
730.1	2743	7.3	-9.7	29	2.52	5	43	306.8	315.0	307.3
722.0	2835	7.0	-10.0	29	2.49	2	40	307.5	315.6	307.9
703.0	3054	7.0	-11.0	26	2.36	356	34	309.8	317.6	310.3
700.0	3089	6.8	-11.2	26	2.33	355	33	310.0	317.7	310.4
671.0	3434	4.0	-12.0	30	2.28	349	28	310.6	318.2	311.1
658.0	3593	4.6	-13.4	26	2.08	346	25	313.0	320.0	313.4
652.8	3658	4.2	-13.7	26	2.04	345	24	313.2	320.1	313.6
610.0	4205	0.4	-16.6	27	1.72	349	40	315.0	320.9	315.4
605.3	4267	0.9	-17.7	24	1.58	350	42	316.3	321.7	316.6
604.0	4284	1.0	-18.0	23	1.54	350	42	316.6	322.0	316.9
595.0	4405	0.4	-19.6	21	1.37	348	42	317.3	322.1	317.6
560.3	4877	-3.4	-21.2	24	1.26	340	40	318.3	322.8	318.6
504.0	5709	-10.1	-24.1	31	1.09	331	42	319.9	323.8	320.1
500.0	5770	-10.3	-25.3	28	0.98	330	42	320.4	324.0	320.6

498.6	5791	-10.4	-25.6	28	0.96	325	42	320.6	324.1	320.8
486.0	5988	-11.1	-28.1	23	0.78	328	45	322.1	324.9	322.2
479.2	6096	-10.3	-29.3	20	0.71	330	47	324.3	326.9	324.4
479.0	6100	-10.3	-29.3	19	0.71	330	47	324.4	327.0	324.5
467.0	6295	-11.5	-33.5	14	0.49	333	49	325.2	327.1	325.3
442.2	6706	-14.9	-34.4	17	0.47	340	52	326.1	327.9	326.2
400.0	7460	-21.1	-36.1	25	0.44	335	51	327.5	329.2	327.6
391.4	7620	-22.4	-36.5	27	0.43	335	53	327.8	329.4	327.9
391.0	7628	-22.5	-36.5	27	0.43	335	53	327.8	329.5	327.9
329.0	8869	-33.3	-51.3	15	0.10	339	48	329.5	330.0	329.5
316.2	9144	-36.0	-52.7	16	0.09	340	47	329.6	330.0	329.6
300.0	9510	-39.5	-54.5	19	0.08	345	48	329.6	329.9	329.6
276.7	10058	-44.7	-56.9	24	0.06	345	45	329.8	330.0	329.8
275.0	10099	-45.1	-57.1	25	0.06	345	46	329.8	330.0	329.8
269.0	10247	-46.5	-55.5	35	0.08	346	48	329.8	330.1	329.8
260.0	10472	-47.9	-57.9	31	0.06	348	51	331.0	331.2	331.0
250.0	10730	-50.3	-57.3	43	0.07	350	55	331.1	331.4	331.2
242.0	10940	-52.1	-58.1	48	0.06	350	55	331.6	331.8	331.6
222.0	11490	-57.1	-63.1	46	0.04	350	57	332.1	332.3	332.1
200.0	12140	-61.7	-67.7	45	0.02	350	58	334.9	335.0	334.9
196.0	12265	-62.7	-68.7	44	0.02	348	58	335.2	335.3	335.2
190.0	12457	-63.5	-69.5	44	0.02	345	59	336.9	337.0	336.9
188.0	12523	-61.1	-68.1	39	0.02	342	60	341.8	341.9	341.8
182.0	12725	-60.1	-71.1	22	0.01	333	63	346.6	346.7	346.6
179.8	12802	-57.9	-72.6	14	0.01	330	64	351.4	351.5	351.4
179.0	12830	-57.1	-73.1	11	0.01	330	64	353.2	353.3	353.2
177.0	12901	-56.9	-75.9	7	0.01	330	64	354.7	354.7	354.7
175.0	12974	-56.7	-78.7	5	0.00	331	62	356.1	356.2	356.1
172.0	13084	-54.1	-80.1	3	0.00	333	60	362.2	362.2	362.2
166.0	13314	-51.9	-82.9	1	0.00	338	55	369.6	369.6	369.6
163.0	13432	-51.5	-83.5	1	0.00	340	52	372.2	372.2	372.2
150.0	13970	-54.5	-86.5	1	0.00	350	40	376.0	376.0	376.0
148.0	14056	-54.9	-86.9	1	0.00	348	38	376.7	376.7	376.7
141.8	14326	-57.3	-87.9	1	0.00	340	32	377.2	377.2	377.2
131.0	14821	-61.7	-89.7	1	0.00	324	36	377.9	377.9	377.9
122.3	15240	-64.6	-90.4	2	0.00	310	39	380.1	380.1	380.1
116.3	15545	-66.8	-90.9	2	0.00	305	42	381.6	381.6	381.6
116.0	15562	-66.9	-90.9	2	0.00	305	42	381.7	381.7	381.7
112.0	15773	-67.1	-91.1	2	0.00	310	47	385.1	385.1	385.1
108.0	15991	-68.7	-91.7	2	0.00	315	51	386.1	386.1	386.1
105.1	16154	-68.5	-91.5	2	0.00	320	55	389.6	389.6	389.6
103.0	16274	-68.3	-91.3	2	0.00	326	51	392.2	392.2	392.2
100.0	16450	-69.1	-92.1	2	0.00	335	44	394.0	394.0	394.0
81.4	17678	-71.1	-92.3	3	0.00	345	44	413.8	413.8	413.8
79.8	17794	-71.3	-92.3	3	0.00	348	42	415.7	415.7	415.7
76.2	18069	-68.7	-90.7	3	0.00	355	36	426.6	426.6	426.6
73.5	18288	-69.6	-91.6	3	0.00	0	31	429.1	429.2	429.1
73.5	18285	-69.7	-91.7	3	0.00	360	31	428.9	428.9	428.9
71.5	18451	-65.7	-88.7	3	0.00	6	29	440.8	440.8	440.8
70.0	18580	-65.9	-89.9	2	0.00	10	28	443.1	443.1	443.1
69.8	18593	-65.9	-89.9	2	0.00	10	28	443.3	443.4	443.3
69.7	18606	-65.9	-89.9	2	0.00	11	27	443.6	443.6	443.6
67.8	18775	-63.1	-89.1	2	0.00	28	17	453.2	453.2	453.2
66.5	18898	-63.2	-89.4	2	0.00	40	9	455.6	455.6	455.6
63.2	19202	-63.4	-90.0	2	0.00	65	12	461.5	461.5	461.5
60.2	19507	-63.7	-90.6	1	0.00	45	11	467.6	467.6	467.6
59.9	19536	-63.7	-90.7	1	0.00	49	11	468.1	468.2	468.1
57.0	19842	-61.7	-89.7	1	0.00	89	6	479.4	479.4	479.4
54.5	20117	-62.4	-90.4	1	0.00	125	1	484.0	484.0	484.0

51.3	20492	-63.3	-91.3	1	0.00	237	1	490.3	490.3	490.3
50.1	20638	-61.9	-89.9	1	0.00	281	1	496.9	496.9	496.9
50.0	20650	-62.1	-90.1	1	0.00	285	1	496.7	496.7	496.7
45.8	21194	-60.9	-89.9	1	0.00	154	9	512.2	512.2	512.2
44.8	21336	-61.9	-90.9	1	0.00	120	11	513.3	513.3	513.3
44.5	21372	-62.1	-91.1	1	0.00	114	11	513.5	513.5	513.5
40.6	21946	-60.2	-90.1	1	0.00	15	14	532.1	532.1	532.1
40.4	21972	-60.1	-90.1	1	0.00	22	14	532.9	532.9	532.9
38.6	22250	-61.3	-90.6	1	0.00	95	12	536.7	536.7	536.7
38.1	22336	-61.7	-90.7	1	0.00	88	12	537.9	537.9	537.9
33.0	23233	-58.3	-88.3	1	0.00	10	11	569.4	569.4	569.4
31.8	23470	-59.0	-89.0	1	0.00	350	11	573.9	573.9	573.9
30.4	23747	-59.7	-89.7	1	0.00	354	14	579.1	579.1	579.1
30.0	23830	-59.3	-89.3	1	0.00	355	15	582.4	582.4	582.4
28.8	24079	-59.3	-89.3	1	0.00	355	15	589.1	589.2	589.1
27.5	24384	-59.2	-89.2	1	0.01	25	14	597.5	597.6	597.5
26.2	24689	-59.2	-89.2	1	0.01	25	17	606.0	606.1	606.0
24.9	24994	-59.1	-89.1	1	0.01	210	3	614.7	614.7	614.7
24.4	25125	-59.1	-89.1	1	0.01	237	5	618.4	618.4	618.4
23.5	25362	-55.9	-87.9	1	0.01	286	7	634.4	634.5	634.4
22.6	25603	-55.6	-87.3	1	0.01	335	10	642.0	642.1	642.0
21.6	25908	-55.3	-86.6	1	0.01	280	15	651.8	651.9	651.8
20.8	26140	-55.1	-86.1	1	0.01	318	17	659.3	659.5	659.3
20.6	26213	-55.2	-86.2	1	0.01	330	18	661.1	661.3	661.2
20.0	26390	-55.5	-86.5	1	0.01	5	14	665.5	665.7	665.5
19.4	26584	-56.3	-87.3	1	0.01	14	14	668.9	669.0	668.9
18.7	26822	-54.7	-86.3	1	0.01	25	15	681.0	681.1	681.0
17.8	27127	-52.7	-85.0	1	0.02	15	14	696.7	696.9	696.7
17.1	27395	-50.9	-83.9	1	0.02	33	13	710.7	711.0	710.7
17.0	27432	-50.9	-83.9	1	0.02	35	13	711.8	712.1	711.9
14.8	28346	-51.2	-83.4	1	0.03	0	0	739.9	740.2	739.9
14.5	28467	-51.3	-83.3	1	0.03	355	1	743.7	744.0	743.7
13.9	28742	-49.3	-82.3	1	0.03	342	2	759.5	759.9	759.5
12.7	29336	-47.7	-81.7	1	0.04	316	6	784.9	785.4	784.9
12.3	29547	-49.1	-82.1	1	0.04	306	7	787.2	787.7	787.2
12.0	29709	-46.9	-80.9	1	0.05	299	8	800.6	801.1	800.6
10.7	30480	-45.1	-79.8	1	0.06	265	13	833.9	834.6	833.9
10.2	30785	-44.5	-79.4	1	0.07	285	16	847.4	848.3	847.4
10.1	30858	-44.3	-79.3	1	0.07			850.6	851.6	850.7

## Station information and sounding indices

Station identifier: NKX  
 Station number: 72293  
 Observation time: 150427/0000  
 Station latitude: 32.85  
 Station longitude: -117.12  
 Station elevation: 137.0  
 Showalter index: 10.40  
 Lifted index: 9.91  
 LIFT computed using virtual temperature: 9.83  
 SWEAT index: 108.41  
 K index: 4.70  
 Cross totals index: 12.50  
 Vertical totals index: 20.50  
 Totals totals index: 33.00  
 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: 280.72  
 Pres [hPa] of the Lifted Condensation Level: 873.69  
 Mean mixed layer potential temperature: 291.76  
 Mean mixed layer mixing ratio: 7.55  
 1000 hPa to 500 hPa thickness: 5651.00  
 Precipitable water [mm] for entire sounding: 19.71

## 72293 NKX San Diego Observations at 12Z 27 Apr 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	106									
996.0	137	10.2	9.7	97	7.64	75	5	283.7	304.9	285.0
993.0	162	13.6	11.5	87	8.65	71	5	287.3	311.7	288.8
989.0	197	15.6	11.2	75	8.51	66	6	289.7	313.9	291.1
976.6	305	16.3	10.5	68	8.22	50	7	291.4	315.0	292.9
975.0	319	16.4	10.4	68	8.18	51	7	291.6	315.2	293.1
951.0	533	20.0	4.0	35	5.39	69	11	297.4	313.6	298.4
942.6	610	20.4	1.6	29	4.59	75	13	298.6	312.5	299.4
939.0	643	20.6	0.6	26	4.27	75	13	299.1	312.2	299.9
925.0	773	19.8	-0.2	26	4.09	75	14	299.6	312.1	300.3
909.9	914	18.6	-2.1	25	3.62	75	15	299.7	310.9	300.3
901.0	998	17.8	-3.2	24	3.37	72	15	299.8	310.2	300.4
877.8	1219	15.8	-3.4	27	3.41	65	15	299.9	310.5	300.6
850.0	1492	13.4	-3.6	31	3.46	60	14	300.2	310.9	300.8
816.2	1829	10.4	-4.9	34	3.27	50	16	300.5	310.7	301.1
786.7	2134	7.8	-6.1	37	3.09	50	14	300.8	310.5	301.4
770.0	2312	6.2	-6.8	39	3.00	38	14	301.0	310.4	301.6
758.2	2438	5.5	-7.5	39	2.88	30	14	301.6	310.7	302.1
730.3	2743	3.8	-9.2	38	2.62	340	13	303.0	311.4	303.5
714.0	2927	2.8	-10.2	38	2.48	345	19	303.8	311.8	304.3
700.0	3088	5.4	-17.6	17	1.38	350	24	308.4	313.1	308.7
698.0	3111	5.6	-20.4	13	1.09	351	24	308.9	312.6	309.1
693.0	3170	6.8	-18.2	15	1.32	354	24	310.9	315.4	311.1
677.0	3361	6.4	-22.6	10	0.93	4	25	312.5	315.8	312.7
652.7	3658	4.2	-22.5	12	0.97	20	27	313.3	316.7	313.5
636.0	3869	2.6	-22.4	14	1.00	10	27	313.8	317.3	314.0
605.2	4267	0.6	-22.6	16	1.04	350	26	316.0	319.6	316.2
586.0	4526	-0.7	-22.7	17	1.06	346	26	317.4	321.2	317.6
560.5	4877	-3.7	-22.4	22	1.14	340	26	317.9	321.9	318.1
541.0	5157	-6.1	-22.1	27	1.21	345	30	318.3	322.6	318.5
521.0	5451	-6.9	-23.9	24	1.07	350	34	320.8	324.6	321.0
500.0	5770	-9.5	-24.5	28	1.06	355	38	321.4	325.2	321.6
493.0	5879	-10.3	-24.3	31	1.09	353	39	321.7	325.6	321.9
479.2	6096	-11.0	-26.5	27	0.92	350	42	323.4	326.8	323.6
474.0	6181	-11.3	-27.3	25	0.86	346	40	324.1	327.3	324.3
460.5	6401	-12.7	-29.4	23	0.73	335	36	325.1	327.8	325.2
439.0	6765	-14.9	-32.9	20	0.55	340	36	326.7	328.8	326.8
412.0	7241	-18.9	-35.9	21	0.44	347	36	327.6	329.2	327.6
400.0	7460	-20.9	-35.9	25	0.45	350	36	327.7	329.5	327.8
391.3	7620	-22.4	-36.6	26	0.43	355	35	327.8	329.4	327.9
359.0	8248	-28.5	-39.5	34	0.35	353	37	327.8	329.2	327.9
331.0	8826	-33.1	-45.1	29	0.21	351	38	329.2	330.1	329.3
316.2	9144	-35.9	-46.5	33	0.19	350	39	329.7	330.4	329.7

300.0	9510	-39.1	-48.1	38	0.16	350	38	330.1	330.8	330.2
276.0	10075	-44.1	-50.1	51	0.14	343	38	330.9	331.5	330.9
264.3	10363	-46.4	-54.1	41	0.09	340	38	331.6	332.0	331.6
262.0	10421	-46.9	-54.9	40	0.08	340	39	331.7	332.1	331.8
250.0	10730	-49.5	-57.5	39	0.06	340	42	332.3	332.6	332.4
235.0	11133	-52.7	-60.7	37	0.05	338	43	333.4	333.6	333.4
224.0	11442	-55.1	-61.1	47	0.05	337	44	334.4	334.6	334.4
210.0	11852	-57.9	-64.9	40	0.03	335	46	336.2	336.3	336.2
208.8	11887	-58.1	-65.1	40	0.03	335	46	336.5	336.6	336.5
203.0	12066	-58.9	-65.9	40	0.03	345	50	337.9	338.0	337.9
200.0	12160	-57.7	-65.7	35	0.03	350	50	341.2	341.4	341.2
199.0	12192	-57.7	-66.4	32	0.03	0	52	341.7	341.9	341.7
194.0	12351	-57.7	-69.7	20	0.02	3	45	344.2	344.3	344.2
192.0	12417	-55.9	-69.9	16	0.02	4	42	348.1	348.2	348.1
189.6	12497	-55.6	-72.0	11	0.01	5	39	349.9	350.0	349.9
189.0	12517	-55.5	-72.5	10	0.01	3	39	350.3	350.4	350.3
180.6	12802	-57.2	-75.9	8	0.01	340	35	352.0	352.1	352.0
174.0	13038	-58.7	-78.7	6	0.00	332	39	353.4	353.5	353.4
172.1	13106	-58.5	-79.2	5	0.00	330	40	354.8	354.8	354.8
161.0	13525	-57.5	-82.5	3	0.00	333	53	363.4	363.4	363.4
156.2	13716	-57.7	-83.9	2	0.00	335	59	366.1	366.2	366.1
153.0	13846	-57.9	-84.9	2	0.00	340	55	368.0	368.1	368.0
150.0	13970	-58.5	-86.5	2	0.00	345	52	369.1	369.1	369.1
147.0	14097	-59.3	-86.3	2	0.00	347	45	369.8	369.9	369.8
144.0	14226	-59.1	-87.1	2	0.00	349	38	372.4	372.4	372.4
141.7	14326	-59.7	-87.3	2	0.00	350	32	373.0	373.0	373.0
134.9	14630	-61.5	-87.9	2	0.00	325	21	375.0	375.0	375.0
133.0	14721	-62.1	-88.1	2	0.00	319	22	375.6	375.6	375.6
129.0	14910	-61.7	-87.7	2	0.00	307	24	379.6	379.6	379.6
128.5	14935	-61.9	-87.9	2	0.00	305	24	379.7	379.7	379.7
125.0	15104	-63.3	-89.3	2	0.00	308	28	380.1	380.1	380.1
122.2	15240	-64.0	-89.8	2	0.00	310	32	381.2	381.2	381.2
114.0	15666	-66.3	-91.3	2	0.00	317	43	384.7	384.7	384.7
110.6	15850	-66.8	-91.0	2	0.00	320	48	387.1	387.1	387.1
110.0	15883	-66.9	-90.9	2	0.00	315	47	387.5	387.5	387.5
107.0	16050	-65.9	-89.9	2	0.00	324	45	392.5	392.5	392.5
100.0	16460	-66.7	-90.7	2	0.00	345	40	398.6	398.6	398.6
90.4	17069	-68.0	-91.1	2	0.00	350	23	407.6	407.6	407.6
85.9	17374	-68.7	-91.3	3	0.00	10	18	412.2	412.2	412.2
81.0	17725	-69.5	-91.5	3	0.00	344	15	417.6	417.6	417.6
77.6	17983	-68.9	-90.9	3	0.00	325	13	424.0	424.1	424.0
73.7	18288	-68.1	-90.1	3	0.00	340	15	431.8	431.8	431.8
71.5	18473	-67.7	-89.7	3	0.00	358	10	436.6	436.6	436.6
70.1	18593	-68.3	-90.3	3	0.00	10	6	437.9	437.9	437.9
70.0	18600	-68.3	-90.3	3	0.00	25	7	437.9	437.9	437.9
68.0	18774	-68.5	-90.5	3	0.00	31	8	441.1	441.2	441.1
64.1	19129	-65.9	-88.9	3	0.00	43	11	454.4	454.4	454.4
63.3	19202	-66.0	-89.1	3	0.00	45	11	455.8	455.8	455.8
59.5	19580	-66.3	-90.3	2	0.00	39	16	463.2	463.2	463.2
57.3	19812	-65.5	-90.1	2	0.00	35	19	470.1	470.1	470.1
54.5	20117	-64.5	-89.9	2	0.00	100	12	479.2	479.2	479.2
52.4	20354	-63.7	-89.7	2	0.00	81	13	486.4	486.4	486.4
51.8	20422	-64.0	-90.0	2	0.00	75	13	487.2	487.2	487.2
50.0	20640	-65.1	-91.1	2	0.00	75	11	489.7	489.7	489.7
49.3	20726	-65.3	-91.3	2	0.00	70	12	491.0	491.1	491.0
48.9	20775	-65.5	-91.5	2	0.00	74	12	491.8	491.8	491.8
46.9	21031	-63.6	-90.5	1	0.00	95	11	502.3	502.3	502.3
46.8	21044	-63.5	-90.5	1	0.00	95	11	502.8	502.9	502.8
44.6	21336	-64.1	-91.1	1	0.00	90	10	508.3	508.4	508.3

43.1	21548	-64.5	-91.5	1	0.00	104	12	512.4	512.4	512.4
42.5	21641	-64.1	-91.4	1	0.00	110	13	515.6	515.6	515.6
40.4	21946	-62.7	-91.1	1	0.00	255	2	526.4	526.4	526.4
39.2	22131	-61.9	-90.9	1	0.00	295	8	533.0	533.0	533.0
36.6	22555	-63.2	-92.2	1	0.00	25	23	540.3	540.3	540.3
35.6	22724	-63.7	-92.7	1	0.00	42	20	543.2	543.2	543.2
34.8	22860	-63.1	-92.4	1	0.00	55	17	548.1	548.2	548.1
33.0	23191	-61.7	-91.7	1	0.00	55	21	560.4	560.4	560.4
31.5	23470	-62.5	-91.7	1	0.00	55	25	565.6	565.6	565.6
31.1	23558	-62.7	-91.7	1	0.00	64	22	567.3	567.3	567.3
30.0	23780	-61.7	-91.7	1	0.00	80	15	575.9	575.9	575.9
30.0	23774	-61.7	-91.7	1	0.00	85	15	575.6	575.6	575.6
29.4	23906	-60.7	-91.7	1	0.00	76	15	581.9	582.0	581.9
27.4	24344	-61.3	-91.3	1	0.00	61	16	592.1	592.1	592.1
27.2	24384	-61.0	-91.2	1	0.00	60	16	593.9	594.0	593.9
25.9	24689	-59.0	-90.0	1	0.00	100	14	608.1	608.1	608.1
24.7	24994	-56.9	-88.8	1	0.01	120	12	622.5	622.6	622.5
24.6	25022	-56.7	-88.7	1	0.01	121	12	623.9	623.9	623.9
22.4	25603	-56.5	-88.5	1	0.01	135	4	641.1	641.2	641.1
21.2	25967	-56.3	-88.3	1	0.01	185	5	652.1	652.2	652.2
20.0	26340	-54.1	-87.1	1	0.01	235	6	669.8	669.9	669.8
19.4	26536	-52.9	-85.9	1	0.01	263	7	679.4	679.5	679.4
16.9	27432	-53.9	-86.9	1	0.01	30	9	703.9	704.0	703.9
16.9	27423	-53.9	-86.9	1	0.01	29	9	703.5	703.6	703.5
14.0	28640	-50.7	-84.7	1	0.02	0	6	753.2	753.5	753.2
13.2	29022	-51.7	-84.7	1	0.02	351	5	762.5	762.8	762.5
12.4	29429	-49.7	-83.7	1	0.03	341	4	783.3	783.6	783.3
10.8	30332	-49.7	-83.7	1	0.03	319	2	814.8	815.2	814.8
10.6	30480	-48.4	-82.8	1	0.04	315	2	824.7	825.2	824.8
10.1	30774	-45.9	-80.9	1	0.06	270	7	844.7	845.4	844.7
10.0	30840	-45.9	-80.9	1	0.06	260	8	847.1	847.8	847.1
9.3	31325	-43.9	-79.9	1	0.07	258	8	872.5	873.4	872.5
9.1	31470	-44.5	-80.5	1	0.07	257	9	875.6	876.5	875.6
7.0	33250	-38.1	-76.1	1	0.18	250	10	970.2	972.7	970.3
6.7	33528	-37.9	-75.9	1	0.19	250	16	982.3	985.0	982.4
6.5	33760	-37.7	-75.7	1	0.20			992.6	995.5	992.7

## Station information and sounding indices

Station identifier: NKX  
 Station number: 72293  
 Observation time: 150427/1200  
 Station latitude: 32.85  
 Station longitude: -117.12  
 Station elevation: 137.0  
 Showalter index: 12.29  
 Lifted index: 10.87  
 LIFT computed using virtual temperature: 10.81  
 SWEAT index: 66.01  
 K index: -3.70  
 Cross totals index: 5.90  
 Vertical totals index: 22.90  
 Totals totals index: 28.80  
 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: 278.59  
 Pres [hPa] of the Lifted Condensation Level: 834.60  
 Mean mixed layer potential temperature: 293.39  
 Mean mixed layer mixing ratio: 6.98  
 1000 hPa to 500 hPa thickness: 5664.00  
 Precipitable water [mm] for entire sounding: 15.08

## 72293 NKX San Diego Observations at 00Z 28 Apr 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	101									
996.0	137	27.4	2.4	20	4.59	320	9	300.9	315.0	301.7
989.0	199	26.4	1.4	20	4.30	313	9	300.5	313.7	301.3
977.0	305	24.8	0.2	20	3.98	300	10	299.9	312.2	300.6
960.0	459	22.4	-1.6	20	3.56	303	10	299.0	310.0	299.7
943.3	610	21.6	-3.4	19	3.17	305	10	299.7	309.5	300.2
925.0	779	20.6	-5.4	17	2.78	300	8	300.4	309.1	300.9
910.6	914	19.9	-4.1	20	3.12	325	10	301.0	310.8	301.6
897.0	1043	19.2	-2.8	22	3.48	340	9	301.6	312.4	302.2
878.6	1219	17.7	-3.5	23	3.38	0	8	301.8	312.4	302.5
850.0	1501	15.4	-4.6	25	3.21	35	5	302.3	312.4	302.9
817.5	1829	12.4	-5.9	27	3.02	40	6	302.5	312.0	303.0
811.0	1896	11.8	-6.2	28	2.98	44	7	302.5	311.9	303.1
788.0	2134	10.0	-8.0	27	2.66	60	12	303.1	311.5	303.5
759.6	2438	7.6	-10.4	27	2.29	40	15	303.7	311.1	304.1
743.0	2621	6.2	-11.8	26	2.09	43	16	304.1	310.9	304.5
733.0	2732	6.0	-14.0	22	1.78	45	17	305.1	310.9	305.4
732.0	2743	6.1	-14.8	21	1.66	45	17	305.2	310.7	305.6
714.0	2947	7.4	-30.6	5	0.42	48	18	308.9	310.4	309.0
705.3	3048	7.2	-33.9	3	0.31	50	19	309.7	310.9	309.8
700.0	3110	7.0	-36.0	3	0.25	45	22	310.2	311.2	310.2
681.0	3336	7.0	-38.0	2	0.21	31	27	312.6	313.5	312.7
679.6	3353	6.9	-38.0	2	0.21	30	27	312.7	313.5	312.7
654.6	3658	4.3	-38.9	3	0.20	5	23	313.1	313.9	313.2
639.0	3855	2.6	-39.4	3	0.20	2	24	313.4	314.1	313.4
630.6	3962	2.8	-37.2	3	0.25	0	24	314.8	315.7	314.8
618.0	4125	3.0	-34.0	5	0.35	19	23	316.9	318.2	316.9
607.1	4267	2.1	-33.1	5	0.39	35	23	317.4	318.9	317.5
565.0	4845	-1.5	-29.5	10	0.59	26	24	319.8	322.0	319.9
562.7	4877	-1.3	-30.4	9	0.54	25	24	320.4	322.4	320.5
559.0	4930	-0.9	-31.9	7	0.48	24	23	321.5	323.3	321.6
545.0	5132	-1.7	-32.7	7	0.45	21	21	322.9	324.6	322.9
501.2	5791	-7.5	-33.7	10	0.45	10	14	323.6	325.3	323.7
500.0	5810	-7.7	-33.7	10	0.45	10	15	323.6	325.3	323.7
494.0	5904	-8.5	-33.5	11	0.46	8	16	323.7	325.5	323.8
481.8	6096	-10.0	-33.8	12	0.46	5	19	324.2	326.0	324.3
463.0	6401	-12.3	-34.4	14	0.45	345	17	325.1	326.8	325.1
452.0	6585	-13.7	-34.7	15	0.45	352	17	325.5	327.2	325.6
427.2	7010	-16.6	-41.5	10	0.24	10	17	327.1	328.0	327.1
420.0	7138	-17.5	-43.5	8	0.19	7	18	327.6	328.4	327.6
400.0	7500	-21.1	-43.1	12	0.21	0	19	327.5	328.3	327.5
393.5	7620	-22.2	-43.5	13	0.21	0	19	327.6	328.4	327.6
372.0	8031	-25.9	-44.9	15	0.19	0	20	328.0	328.7	328.0
317.9	9144	-35.4	-51.1	18	0.11	0	22	329.9	330.3	329.9
307.0	9391	-37.5	-52.5	19	0.10	357	23	330.2	330.6	330.2
300.0	9550	-39.1	-52.1	24	0.10	355	24	330.1	330.6	330.2



286.0	9875	-42.1	-52.1	33	0.11	356	27	330.4	330.9	330.4
253.9	10668	-48.7	-59.5	27	0.05	0	33	332.1	332.4	332.1
250.0	10770	-49.5	-60.5	26	0.04	0	32	332.3	332.5	332.4
237.0	11117	-52.1	-65.1	19	0.03	358	31	333.5	333.6	333.5
221.0	11565	-55.5	-65.5	28	0.03	355	29	335.0	335.1	335.0
214.0	11770	-55.5	-68.5	18	0.02	349	25	338.1	338.2	338.1
212.0	11829	-54.7	-69.7	14	0.02	347	24	340.3	340.4	340.3
210.1	11887	-54.9	-70.4	13	0.01	345	23	340.8	340.9	340.8
200.0	12200	-56.1	-74.1	9	0.01	340	27	343.8	343.8	343.8
192.0	12459	-56.7	-76.7	6	0.01	349	31	346.8	346.9	346.8
190.9	12497	-56.6	-77.0	6	0.01	350	32	347.5	347.6	347.6
183.0	12765	-56.1	-79.1	4	0.00	337	34	352.6	352.6	352.6
176.0	13012	-57.9	-81.9	3	0.00	325	35	353.6	353.6	353.6
173.4	13106	-57.9	-82.5	3	0.00	320	36	355.1	355.1	355.1
165.2	13411	-57.9	-84.3	2	0.00	325	46	360.1	360.1	360.1
154.0	13854	-57.9	-86.9	1	0.00	343	39	367.4	367.4	367.4
150.0	14021	-59.3	-88.3	1	0.00	350	39	367.7	367.7	367.7
150.0	14020	-59.3	-88.3	1	0.00	350	37	367.7	367.7	367.7
130.0	14903	-65.1	-90.1	2	0.00	330	31	372.7	372.7	372.7
129.3	14935	-65.0	-90.0	2	0.00	335	31	373.4	373.4	373.4
124.0	15191	-64.3	-89.3	2	0.00	318	37	379.2	379.2	379.2
123.0	15240	-63.7	-89.2	2	0.00	315	38	381.1	381.1	381.1
122.0	15291	-63.1	-89.1	2	0.00	317	38	383.1	383.1	383.1
118.0	15496	-62.7	-89.7	2	0.00	326	38	387.6	387.6	387.6
115.0	15655	-61.3	-89.3	1	0.00	332	37	393.0	393.0	393.0
111.4	15850	-63.1	-92.0	1	0.00	340	37	393.2	393.2	393.2
111.0	15873	-63.3	-92.3	1	0.00	341	36	393.2	393.3	393.2
108.0	16042	-63.1	-92.1	1	0.00	344	31	396.7	396.7	396.7
100.0	16510	-67.1	-94.1	1	0.00	355	15	397.8	397.8	397.8
77.8	18004	-72.9	-94.9	2	0.00	320	20	415.4	415.4	415.4
74.2	18288	-71.1	-93.5	2	0.00	0	16	424.9	424.9	424.9
70.0	18630	-68.9	-91.9	2	0.00	55	12	436.6	436.7	436.6
66.6	18926	-70.5	-93.5	2	0.00	64	14	439.4	439.4	439.4
65.6	19017	-66.3	-90.3	2	0.00	67	14	450.5	450.5	450.5
65.2	19054	-65.7	-89.7	2	0.00	68	14	452.6	452.6	452.6
57.5	19812	-67.4	-93.0	2	0.00	90	18	465.4	465.4	465.4
56.1	19960	-67.7	-93.7	1	0.00	107	16	467.9	467.9	467.9
54.7	20117	-66.2	-92.9	1	0.00	125	14	474.8	474.8	474.8
52.2	20397	-63.5	-91.5	1	0.00	111	11	487.4	487.4	487.4
52.0	20422	-63.7	-91.7	1	0.00	110	11	487.5	487.5	487.5
50.0	20660	-65.5	-93.5	1	0.00	160	6	488.7	488.7	488.7
49.7	20697	-65.7	-93.7	1	0.00	127	3	489.1	489.1	489.1
49.5	20726	-65.6	-93.7	1	0.00	100	1	489.9	490.0	489.9
44.8	21336	-64.0	-92.8	1	0.00	100	19	508.2	508.2	508.2
44.1	21425	-63.7	-92.7	1	0.00	107	17	511.0	511.0	511.0
42.6	21641	-64.0	-93.0	1	0.00	125	13	515.4	515.4	515.4
40.5	21946	-64.4	-93.4	1	0.00	110	13	521.7	521.8	521.7
38.3	22287	-64.9	-93.9	1	0.00	116	7	528.9	528.9	528.9
36.7	22555	-62.7	-92.3	1	0.00	120	3	541.3	541.3	541.3
33.7	23078	-58.3	-89.3	1	0.00	85	8	566.0	566.0	566.0
30.6	23685	-57.9	-89.9	1	0.00	46	14	582.9	582.9	582.9
30.2	23774	-58.2	-89.5	1	0.00	40	15	584.5	584.5	584.5
30.0	23810	-58.3	-89.3	1	0.00	60	16	585.1	585.2	585.1
28.7	24079	-59.2	-90.2	1	0.00	90	17	589.7	589.8	589.7
28.4	24154	-59.5	-90.5	1	0.00	107	16	591.0	591.1	591.0
27.4	24384	-58.5	-89.8	1	0.00	160	11	600.1	600.1	600.1
25.5	24833	-56.5	-88.5	1	0.01	75	10	618.1	618.1	618.1
24.9	24994	-56.6	-88.5	1	0.01	45	10	622.2	622.3	622.2
22.6	25603	-57.1	-88.6	1	0.01	75	20	638.2	638.2	638.2

20.5	26213	-57.6	-88.7	1	0.01	95	1	654.5	654.6	654.5
20.0	26370	-57.7	-88.7	1	0.01	100	4	658.8	658.9	658.8
19.8	26434	-57.9	-88.9	1	0.01	95	4	660.1	660.2	660.1
17.0	27432	-52.3	-85.3	1	0.02	10	4	708.0	708.2	708.0
15.7	27928	-49.5	-83.5	1	0.02	302	4	732.9	733.1	732.9
14.1	28651	-50.0	-84.0	1	0.02	205	3	754.6	754.9	754.6
14.1	28632	-50.1	-84.1	1	0.02	208	3	753.7	754.0	753.7
12.8	29261	-47.6	-82.2	1	0.04	180	11	783.0	783.5	783.1
12.2	29566	-46.4	-81.3	1	0.04	220	17	797.6	798.2	797.7
11.9	29753	-45.7	-80.7	1	0.05	220	15	806.7	807.3	806.8
11.7	29870	-46.2	-81.2	1	0.05	220	14	809.0	809.6	809.1
11.4	30039	-46.9	-81.9	1	0.04	220	11	812.4	812.9	812.4
11.3	30098	-45.3	-80.3	1	0.06	220	10	820.2	820.9	820.2
10.7	30480	-43.5	-79.4	1	0.07	220	4	840.1	841.0	840.2
10.6	30527	-43.3	-79.3	1	0.07	220	6	842.6	843.5	842.7
10.0	30920	-43.5	-79.5	1	0.07	220	21	856.0	857.0	856.1
9.8	31090	-43.8	-79.8	1	0.07	230	28	861.2	862.1	861.2
9.3	31407	-44.3	-80.3	1	0.07	240	20	870.9	871.8	871.0
8.9	31699	-42.1	-78.1	1	0.10	250	13	890.2	891.6	890.3
8.8	31779	-41.5	-77.5	1	0.11	256	12	895.6	897.1	895.7
8.4	32094	-42.7	-78.7	1	0.10	279	8	902.9	904.2	903.0
8.1	32309	-41.0	-77.4	1	0.12	295	5	917.8	919.5	917.9
7.8	32614	-38.7	-75.7	1	0.17	295	18	938.8	941.1	938.9
7.8	32598	-38.7	-75.7	1	0.17	295	17	938.2	940.5	938.3
7.6	32777	-38.9	-75.9	1	0.17			944.4	946.7	944.5

## Station information and sounding indices

Station identifier: NKX  
 Station number: 72293  
 Observation time: 150428/0000  
 Station latitude: 32.85  
 Station longitude: -117.12  
 Station elevation: 137.0  
 Showalter index: 13.20  
 Lifted index: 13.82  
 LIFT computed using virtual temperature: 13.69  
 SWEAT index: 24.98  
 K index: -24.50  
 Cross totals index: 3.10  
 Vertical totals index: 23.10  
 Totals totals index: 26.20  
 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: 267.46  
 Pres [hPa] of the Lifted Condensation Level: 671.09  
 Mean mixed layer potential temperature: 299.75  
 Mean mixed layer mixing ratio: 3.78  
 1000 hPa to 500 hPa thickness: 5709.00  
 Precipitable water [mm] for entire sounding: 9.87

## 72293 NKX San Diego Observations at 12Z 28 Apr 2015

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PRES	HGHT	TEMP	DWPT	RELH	MIXR	DRCT	SKNT	THTA	THTE	THTV
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hPa	m	C	C	%	g/kg	deg	knot	K	K	K
1000.0	115									
997.0	137	14.4	4.4	51	5.28	75	5	287.8	303.0	288.7
993.0	171	18.6	3.6	37	5.01	66	5	292.3	307.1	293.2
983.0	259	21.6	0.6	25	4.08	42	5	296.2	308.6	296.9
977.8	305	21.4	0.1	24	3.95	30	5	296.4	308.5	297.2
967.0	402	21.0	-1.0	23	3.69	22	6	297.0	308.3	297.6
944.1	610	21.4	-2.7	20	3.33	5	8	299.5	309.8	300.1
935.0	694	21.6	-3.4	18	3.20	358	8	300.5	310.4	301.1
925.0	788	21.2	-3.8	18	3.13	350	7	301.0	310.8	301.6
911.6	914	20.5	-3.5	20	3.25	330	6	301.5	311.7	302.1
899.0	1034	19.8	-3.2	21	3.37	350	6	302.0	312.6	302.6
892.0	1101	19.6	-9.4	13	2.11	0	6	302.5	309.3	302.9
879.7	1219	18.6	-9.2	14	2.17	20	6	302.6	309.6	303.1
850.0	1512	16.2	-8.8	17	2.32	100	10	303.1	310.6	303.5
818.5	1829	13.3	-8.2	22	2.53	85	13	303.3	311.4	303.8
789.2	2134	10.5	-7.6	27	2.75	130	17	303.5	312.3	304.0
780.0	2233	9.6	-7.4	29	2.82	133	15	303.6	312.5	304.1
760.9	2438	8.2	-12.4	22	1.95	140	12	304.3	310.6	304.6
749.0	2568	7.4	-15.6	18	1.52	98	12	304.7	309.7	305.0
733.2	2743	7.0	-22.8	10	0.84	40	11	306.1	309.0	306.3
719.0	2903	6.6	-29.4	6	0.47	48	9	307.4	309.1	307.5
706.4	3048	5.5	-30.5	5	0.43	55	8	307.8	309.4	307.9
700.0	3122	5.0	-31.0	5	0.41	55	8	308.0	309.5	308.1
696.0	3169	4.6	-31.4	5	0.40	55	9	308.1	309.5	308.1
655.4	3658	4.8	-34.8	4	0.31	50	24	313.6	314.7	313.6
651.0	3713	4.8	-35.2	4	0.30	47	23	314.2	315.3	314.3
631.2	3962	3.5	-34.6	4	0.32	35	19	315.5	316.7	315.6
607.8	4267	1.9	-33.9	5	0.36	0	10	317.1	318.4	317.1
590.0	4507	0.6	-33.4	6	0.39	0	8	318.3	319.8	318.4
585.2	4572	0.1	-33.0	6	0.41	0	8	318.4	320.0	318.5
563.0	4877	-2.3	-30.9	9	0.52	30	11	319.2	321.1	319.3
541.7	5182	-4.6	-28.9	13	0.65	40	12	319.9	322.3	320.0
521.2	5486	-7.0	-26.9	19	0.81	5	11	320.6	323.6	320.8
517.0	5551	-7.5	-26.5	20	0.85	8	10	320.8	323.9	320.9
507.0	5702	-8.5	-25.5	24	0.95	16	9	321.3	324.8	321.5
501.2	5791	-9.0	-27.6	21	0.79	20	8	321.8	324.7	321.9
500.0	5810	-9.1	-28.1	20	0.76	10	8	321.9	324.7	322.0
497.0	5856	-9.3	-29.3	18	0.68	12	9	322.2	324.7	322.3
481.6	6096	-11.0	-30.6	18	0.62	25	14	323.0	325.3	323.1
455.0	6531	-14.1	-33.1	18	0.52	0	15	324.4	326.4	324.5
444.4	6706	-15.6	-34.4	18	0.47	350	16	324.8	326.6	324.9
400.0	7490	-22.1	-40.1	18	0.29	350	14	326.2	327.3	326.2
392.9	7620	-23.1	-41.8	16	0.25	350	15	326.5	327.5	326.6
376.7	7925	-25.6	-45.7	13	0.17	345	14	327.2	327.9	327.3
361.2	8230	-28.0	-49.6	11	0.12	315	13	327.9	328.4	328.0
347.0	8521	-30.3	-53.3	9	0.08	323	15	328.6	328.9	328.6
317.5	9144	-35.9	-54.6	13	0.07	340	18	329.3	329.6	329.3
300.0	9540	-39.5	-55.5	17	0.07	335	18	329.6	329.9	329.6
285.0	9889	-42.7	-56.7	20	0.06	332	20	329.9	330.1	329.9
277.8	10058	-44.0	-57.8	20	0.06	330	21	330.4	330.7	330.4
250.0	10760	-49.3	-62.3	20	0.04	355	24	332.6	332.8	332.6
242.0	10972	-50.9	-62.9	23	0.03	5	26	333.4	333.5	333.4
241.9	10973	-50.9	-62.9	23	0.03	5	26	333.4	333.5	333.4
230.8	11278	-52.3	-64.8	21	0.03	350	31	335.8	336.0	335.8
221.0	11557	-53.5	-66.5	19	0.02	340	29	338.1	338.2	338.1
217.0	11674	-51.9	-67.9	13	0.02	331	28	342.4	342.4	342.4
214.0	11764	-51.7	-71.7	7	0.01	324	28	344.0	344.1	344.0

210.0	11887	-52.1	-73.2	6	0.01	315	27	345.3	345.3	345.3
200.0	12200	-53.1	-77.1	4	0.01	330	19	348.5	348.6	348.5
196.0	12330	-53.1	-77.1	4	0.01	339	18	350.5	350.6	350.5
191.0	12497	-54.1	-78.1	4	0.00	350	17	351.6	351.6	351.6
185.0	12700	-55.3	-79.3	4	0.00	343	17	352.8	352.8	352.8
182.0	12805	-54.5	-79.5	3	0.00	340	16	355.8	355.8	355.8
177.0	12983	-55.5	-81.5	3	0.00	334	16	357.0	357.0	357.0
167.0	13353	-55.5	-84.5	2	0.00	322	16	362.9	362.9	362.9
157.7	13716	-58.0	-85.9	2	0.00	310	15	364.8	364.8	364.8
150.0	14030	-60.1	-87.1	2	0.00	295	17	366.3	366.4	366.3
147.0	14156	-61.3	-87.3	2	0.00	291	17	366.4	366.4	366.4
143.0	14327	-61.5	-87.5	2	0.00	285	18	368.9	368.9	368.9
136.1	14630	-63.5	-88.4	2	0.00	275	19	370.7	370.7	370.7
129.5	14935	-65.5	-89.3	2	0.00	280	24	372.4	372.4	372.4
125.0	15151	-66.9	-89.9	3	0.00	290	25	373.6	373.6	373.6
123.2	15240	-67.0	-89.7	3	0.00	310	19	375.0	375.0	375.0
119.0	15449	-67.3	-89.3	3	0.00	310	22	378.2	378.2	378.2
111.4	15850	-66.7	-89.3	3	0.00	310	29	386.6	386.6	386.6
107.0	16092	-66.3	-89.3	3	0.00	317	22	391.7	391.7	391.7
100.0	16500	-68.5	-91.5	2	0.00	330	9	395.1	395.1	395.1
90.8	17069	-70.1	-92.0	3	0.00	290	25	402.8	402.9	402.8
86.3	17374	-71.0	-92.3	3	0.00	330	13	407.0	407.0	407.0
83.9	17541	-71.5	-92.5	3	0.00	325	12	409.4	409.4	409.4
74.3	18262	-68.9	-89.9	3	0.00	359	2	429.3	429.3	429.3
74.0	18288	-68.6	-89.7	3	0.00	0	2	430.5	430.5	430.5
72.0	18450	-66.5	-88.5	3	0.00	49	3	438.2	438.2	438.2
70.0	18620	-67.3	-90.3	3	0.00	100	4	440.1	440.1	440.1
64.0	19159	-69.1	-92.1	2	0.00	91	7	447.5	447.6	447.5
59.7	19577	-66.9	-89.9	3	0.00	84	9	461.4	461.5	461.4
57.4	19812	-67.1	-90.3	2	0.00	80	10	466.2	466.2	466.2
54.6	20117	-67.3	-90.9	2	0.00	70	14	472.5	472.5	472.5
51.9	20422	-67.5	-91.4	2	0.00	90	21	478.9	478.9	478.9
51.6	20458	-67.5	-91.5	2	0.00	91	20	479.7	479.7	479.7
50.0	20650	-64.3	-89.3	2	0.00	95	15	491.5	491.6	491.5
49.8	20675	-64.1	-89.1	2	0.00	96	15	492.6	492.6	492.6
48.6	20824	-63.7	-89.7	2	0.00	104	13	497.0	497.0	497.0
47.0	21031	-65.1	-91.1	2	0.00	115	10	498.6	498.6	498.6
46.0	21159	-65.9	-91.9	2	0.00	96	10	499.5	499.6	499.5
44.7	21336	-64.7	-91.3	1	0.00	70	10	506.6	506.6	506.6
43.8	21458	-63.9	-90.9	1	0.00	76	10	511.5	511.5	511.5
40.4	21946	-65.2	-92.2	1	0.00	100	12	520.0	520.0	520.0
38.8	22197	-65.9	-92.9	1	0.00	96	12	524.4	524.4	524.4
36.6	22555	-65.0	-92.4	1	0.00	90	13	535.6	535.6	535.6
33.6	23075	-63.7	-91.7	1	0.00	81	6	552.2	552.3	552.2
33.1	23165	-62.9	-91.3	1	0.00	80	5	556.8	556.8	556.8
31.5	23470	-60.0	-90.2	1	0.00	50	14	572.2	572.3	572.2
30.7	23635	-58.5	-89.5	1	0.00	61	18	580.7	580.8	580.7
30.0	23780	-58.5	-89.5	1	0.00	70	22	584.6	584.6	584.6
28.6	24079	-57.4	-89.3	1	0.00	85	25	595.6	595.6	595.6
28.5	24104	-57.3	-89.3	1	0.00	87	24	596.5	596.6	596.5
27.3	24384	-57.6	-89.3	1	0.01	105	16	603.3	603.4	603.3
26.0	24689	-57.9	-89.3	1	0.01	105	12	610.8	610.8	610.8
24.6	25032	-58.3	-89.3	1	0.01	66	8	619.2	619.3	619.3
22.9	25485	-56.7	-88.7	1	0.01	14	2	636.8	636.8	636.8
22.5	25603	-57.2	-88.9	1	0.01	0	0	638.8	638.9	638.8
21.1	26001	-58.7	-89.7	1	0.01	85	8	645.8	645.9	645.8
20.4	26213	-57.0	-88.6	1	0.01	130	12	657.3	657.4	657.3
20.0	26340	-55.9	-87.9	1	0.01	160	10	664.3	664.4	664.3
16.9	27432	-55.2	-87.2	1	0.01	210	11	699.9	700.0	699.9

15.7	27883	-54.9	-86.9	1	0.01	203	10	715.2	715.3	715.2
15.0	28176	-52.9	-85.9	1	0.02	199	9	731.2	731.4	731.2
13.7	28760	-52.7	-85.7	1	0.02	191	8	751.1	751.3	751.1
13.0	29101	-50.3	-84.3	1	0.03	186	8	770.7	771.0	770.7
11.6	29870	-49.6	-82.8	1	0.04	175	6	799.5	799.9	799.5
11.3	30017	-49.5	-82.5	1	0.04			805.1	805.5	805.1

## Station information and sounding indices

Station identifier: NKX  
 Station number: 72293  
 Observation time: 150428/1200  
 Station latitude: 32.85  
 Station longitude: -117.12  
 Station elevation: 137.0  
 Showalter index: 12.91  
 Lifted index: 14.33  
 LIFT computed using virtual temperature: 14.28  
 SWEAT index: 28.01  
 K index: -19.50  
 Cross totals index: 0.30  
 Vertical totals index: 25.30  
 Totals totals index: 25.60  
 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: 268.57  
 Pres [hPa] of the Lifted Condensation Level: 707.26  
 Mean mixed layer potential temperature: 296.53  
 Mean mixed layer mixing ratio: 3.91  
 1000 hPa to 500 hPa thickness: 5695.00  
 Precipitable water [mm] for entire sounding: 9.29

## 72293 NKX San Diego Observations at 00Z 29 Apr 2015

PRES	HGHT	TEMP	DWPT	RELH	MIXR	DRCT	SKNT	THTA	THTE	THTV
hPa	m	C	C	%	g/kg	deg	knot	K	K	K
1000.0	103									
996.0	137	26.0	9.0	34	7.28	325	13	299.5	321.3	300.8
992.0	172	25.2	8.2	34	6.92	323	13	299.0	319.7	300.3
977.0	305	23.1	6.1	33	6.09	315	12	298.2	316.5	299.4
969.0	377	22.0	5.0	33	5.67	311	12	297.8	314.8	298.8
967.0	395	22.4	2.4	27	4.73	311	13	298.4	312.7	299.2
963.0	431	24.8	-5.2	13	2.71	309	13	301.2	309.7	301.7
956.0	495	25.4	-5.6	12	2.65	306	13	302.4	310.8	302.9
943.5	610	24.5	-5.7	13	2.66	300	14	302.7	311.1	303.1
925.0	783	23.2	-5.8	14	2.69	285	13	303.0	311.6	303.5
911.1	914	22.4	-5.3	15	2.83	255	13	303.5	312.6	304.1
879.4	1219	20.6	-4.3	18	3.18	245	8	304.7	314.8	305.3
859.0	1422	19.4	-3.6	21	3.43	359	5	305.5	316.4	306.2
850.0	1512	18.6	-3.4	22	3.52	50	3	305.6	316.8	306.3
848.8	1524	18.5	-3.4	22	3.51	0	0	305.6	316.8	306.3
818.4	1829	15.8	-4.2	25	3.43	60	6	306.0	316.9	306.6
789.0	2134	13.2	-5.0	28	3.35	65	11	306.4	317.1	307.0

760.8	2438	10.5	-5.8	31	3.28	90	15	306.7	317.1	307.3
733.5	2743	7.8	-6.6	35	3.20	95	16	307.0	317.2	307.6
700.0	3134	4.4	-7.6	41	3.10	100	16	307.3	317.3	307.9
681.3	3353	2.5	-8.1	46	3.08	105	16	307.6	317.4	308.1
675.0	3429	1.8	-8.2	47	3.07	96	16	307.6	317.5	308.2
672.0	3465	2.4	-10.6	38	2.55	92	16	308.7	317.0	309.2
667.0	3525	4.8	-32.2	5	0.39	85	15	312.0	313.5	312.1
658.0	3636	6.2	-30.8	5	0.45	73	15	314.8	316.5	314.9
656.2	3658	6.2	-31.1	5	0.44	70	15	315.0	316.7	315.1
641.0	3850	5.8	-33.2	4	0.37	76	15	316.7	318.1	316.8
632.1	3962	4.8	-33.1	4	0.38	80	15	316.9	318.3	316.9
608.5	4267	2.1	-32.8	6	0.40	55	15	317.2	318.7	317.3
563.9	4877	-3.4	-32.1	9	0.46	30	10	317.8	319.5	317.8
552.0	5048	-4.9	-31.9	10	0.48	41	11	317.9	319.7	318.0
542.6	5182	-5.5	-33.7	9	0.41	50	12	318.7	320.2	318.8
500.0	5820	-8.5	-42.5	5	0.18	15	10	322.6	323.3	322.6
492.0	5945	-9.1	-44.1	4	0.16	19	10	323.4	324.0	323.4
482.3	6096	-10.5	-44.4	4	0.15	25	10	323.4	324.1	323.5
450.0	6625	-15.5	-45.5	6	0.15	34	13	323.7	324.3	323.7
445.1	6706	-16.1	-45.2	6	0.15	35	13	323.9	324.5	323.9
410.1	7315	-20.9	-43.0	12	0.21	55	11	325.5	326.3	325.5
400.0	7500	-22.3	-42.3	14	0.23	50	11	325.9	326.9	326.0
393.4	7620	-23.4	-42.7	15	0.23	45	10	326.0	326.9	326.1
364.0	8185	-28.5	-44.5	20	0.20	39	6	326.6	327.4	326.6
349.0	8486	-30.9	-50.9	12	0.10	36	4	327.2	327.7	327.3
346.6	8534	-31.4	-50.7	13	0.11	35	4	327.3	327.7	327.3
324.0	9008	-35.9	-48.9	25	0.14	23	11	327.4	327.9	327.4
317.7	9144	-36.7	-52.5	18	0.09	20	13	328.1	328.4	328.1
315.0	9204	-37.1	-54.1	15	0.08	19	13	328.4	328.7	328.4
300.0	9540	-39.5	-55.5	17	0.07	15	16	329.6	329.9	329.6
277.8	10058	-44.1	-57.7	21	0.06	355	17	330.3	330.6	330.3
264.0	10401	-47.1	-59.1	24	0.05	355	15	330.7	330.9	330.7
253.5	10668	-49.2	-61.2	23	0.04	355	14	331.5	331.7	331.5
250.0	10760	-49.9	-61.9	23	0.04	0	14	331.8	331.9	331.8
237.0	11106	-52.3	-65.3	19	0.02	331	16	333.2	333.3	333.2
222.0	11525	-54.3	-66.3	21	0.02	295	19	336.4	336.5	336.4
220.0	11582	-53.6	-67.0	18	0.02	290	19	338.3	338.4	338.3
219.0	11612	-53.3	-67.3	17	0.02	290	19	339.3	339.4	339.3
210.0	11879	-55.1	-70.1	14	0.01	285	22	340.6	340.6	340.6
209.8	11887	-55.1	-70.2	14	0.01	280	20	340.7	340.8	340.7
200.0	12190	-54.3	-74.3	7	0.01	255	18	346.6	346.7	346.6
199.9	12192	-54.3	-74.3	7	0.01	250	19	346.6	346.7	346.6
189.0	12553	-54.5	-78.5	4	0.00	259	20	351.9	352.0	351.9
181.8	12802	-56.0	-80.6	3	0.00	265	21	353.4	353.4	353.4
176.0	13008	-57.3	-82.3	3	0.00	260	21	354.6	354.6	354.6
165.2	13411	-56.6	-83.4	2	0.00	250	21	362.3	362.3	362.3
164.0	13457	-56.5	-83.5	2	0.00	250	21	363.1	363.2	363.1
160.0	13613	-57.7	-84.7	2	0.00	250	22	363.7	363.7	363.7
150.0	14020	-59.5	-87.5	2	0.00	250	24	367.4	367.4	367.4
142.8	14326	-61.1	-88.1	2	0.00	260	32	369.8	369.8	369.8
136.0	14629	-62.7	-88.7	2	0.00	262	29	372.1	372.1	372.1
133.0	14767	-62.5	-88.5	2	0.00	264	27	374.9	374.9	374.9
129.4	14935	-63.2	-89.2	2	0.00	265	25	376.6	376.6	376.6
123.1	15240	-64.5	-90.5	2	0.00	260	21	379.6	379.7	379.6
122.0	15297	-64.7	-90.7	2	0.00	258	20	380.2	380.2	380.2
117.2	15545	-64.6	-91.2	1	0.00	250	14	384.9	384.9	384.9
115.0	15658	-64.5	-91.5	1	0.00	252	15	387.1	387.1	387.1
110.0	15929	-66.9	-92.9	1	0.00	258	16	387.5	387.5	387.5
100.0	16500	-70.3	-94.3	2	0.00	270	19	391.6	391.6	391.6

90.8	17069	-70.5	-93.9	2	0.00	0	0	402.2	402.2	402.2
81.9	17678	-70.6	-93.5	2	0.00	220	14	413.9	413.9	413.9
77.8	17983	-70.7	-93.3	2	0.00	205	12	419.9	419.9	419.9
73.9	18288	-70.8	-93.1	2	0.00	220	9	425.9	425.9	425.9
70.0	18610	-70.9	-92.9	3	0.00	190	6	432.4	432.4	432.4
69.6	18644	-71.1	-93.1	3	0.00	186	6	432.7	432.7	432.7
68.6	18730	-70.5	-92.5	3	0.00	177	7	435.7	435.8	435.7
66.7	18899	-66.3	-90.3	2	0.00	158	9	448.4	448.4	448.4
64.0	19149	-66.3	-91.3	2	0.00	131	11	453.7	453.7	453.7
63.5	19202	-65.9	-91.2	2	0.00	125	12	455.8	455.8	455.8
60.6	19483	-63.5	-90.5	1	0.00	109	9	467.1	467.1	467.1
52.3	20379	-68.1	-94.1	1	0.00	57	1	476.4	476.4	476.4
51.9	20422	-68.0	-94.0	1	0.00	55	1	477.6	477.6	477.6
50.0	20650	-67.5	-93.5	1	0.00	120	6	484.0	484.0	484.0
49.4	20723	-67.3	-93.3	1	0.00	110	9	486.1	486.2	486.1
47.8	20922	-63.7	-91.7	1	0.00	84	15	499.3	499.3	499.3
47.0	21031	-63.9	-91.9	1	0.00	70	19	501.5	501.5	501.5
44.7	21336	-64.3	-92.3	1	0.00	85	12	507.5	507.5	507.5
42.5	21641	-64.8	-92.8	1	0.00	55	17	513.6	513.6	513.6
42.2	21682	-64.9	-92.9	1	0.00	57	17	514.5	514.5	514.5
40.4	21946	-61.5	-91.0	1	0.00	70	17	529.2	529.3	529.2
39.8	22042	-60.3	-90.3	1	0.00	81	13	534.7	534.7	534.7
38.5	22250	-60.1	-90.3	1	0.00	105	4	540.3	540.3	540.3
36.6	22555	-59.8	-90.4	1	0.00	70	13	548.6	548.7	548.6
34.9	22860	-59.5	-90.5	1	0.00	140	18	557.1	557.1	557.1
34.6	22914	-59.5	-90.5	1	0.00	137	17	558.6	558.6	558.6
32.5	23303	-61.5	-91.5	1	0.00	116	12	563.4	563.4	563.4
31.2	23556	-60.1	-91.1	1	0.00	102	8	573.8	573.8	573.8
30.1	23774	-60.1	-90.2	1	0.00	90	5	579.5	579.6	579.5
30.0	23800	-60.1	-90.1	1	0.00	110	5	580.2	580.2	580.2
27.3	24384	-59.6	-90.4	1	0.00	45	10	597.2	597.2	597.2
26.6	24554	-59.5	-90.5	1	0.00	51	11	602.2	602.2	602.2
24.2	25150	-57.9	-88.9	1	0.01	70	16	623.3	623.4	623.3
23.0	25473	-55.5	-87.5	1	0.01	81	18	639.5	639.6	639.5
22.5	25603	-55.5	-87.3	1	0.01	85	19	643.1	643.2	643.1
21.2	25994	-55.7	-86.7	1	0.01	101	16	654.0	654.1	654.0
20.5	26213	-52.9	-85.7	1	0.01	110	15	668.8	669.0	668.8
20.0	26370	-50.9	-84.9	1	0.01	150	10	679.6	679.8	679.6
19.6	26518	-51.4	-84.8	1	0.02	155	18	682.6	682.8	682.6
18.5	26875	-52.5	-84.5	1	0.02	184	14	689.9	690.1	689.9
17.8	27127	-49.3	-83.3	1	0.02	205	12	707.7	708.0	707.7
17.8	27125	-49.3	-83.3	1	0.02	205	12	707.7	707.9	707.7
17.2	27349	-50.1	-83.1	1	0.02	216	21	712.1	712.4	712.1
17.0	27432	-49.2	-82.8	1	0.03	220	25	717.5	717.7	717.5
16.8	27503	-48.5	-82.5	1	0.03	223	23	722.0	722.3	722.0
15.5	28042	-50.5	-83.8	1	0.02	245	11	732.6	732.8	732.6
15.0	28242	-51.3	-84.3	1	0.02	248	9	736.5	736.8	736.5
14.1	28651	-50.2	-83.5	1	0.03	255	5	753.5	753.8	753.5
12.5	29433	-48.1	-82.1	1	0.04	227	8	787.1	787.5	787.1
11.4	30037	-49.1	-83.1	1	0.04	206	10	804.5	804.9	804.5
10.7	30480	-45.0	-80.3	1	0.06	190	12	834.9	835.6	834.9
10.3	30711	-42.9	-78.9	1	0.08	206	15	851.1	852.0	851.1
10.0	30910	-42.3	-78.3	1	0.09	220	17	860.5	861.6	860.6
9.5	31258	-40.9	-77.9	1	0.10	242	16	878.5	879.8	878.6
9.3	31402	-41.7	-77.7	1	0.10	251	16	880.8	882.2	880.9
8.9	31702	-38.3	-75.3	1	0.16			905.1	907.1	905.1
8.9	31699	-38.3	-75.3	1	0.16	270	15	904.8	906.9	904.9

## Station information and sounding indices

Station identifier: NKX  
 Station number: 72293  
 Observation time: 150429/0000  
 Station latitude: 32.85  
 Station longitude: -117.12  
 Station elevation: 137.0  
 Showalter index: 9.79  
 Lifted index: 11.79  
 LIFT computed using virtual temperature: 11.58  
 SWEAT index: 15.99  
 K index: 11.70  
 Cross totals index: 5.10  
 Vertical totals index: 27.10  
 Totals totals index: 32.20  
 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: 269.58  
 Pres [hPa] of the Lifted Condensation Level: 686.76  
 Mean mixed layer potential temperature: 300.15  
 Mean mixed layer mixing ratio: 4.66  
 1000 hPa to 500 hPa thickness: 5717.00  
 Precipitable water [mm] for entire sounding: 12.47

## 72293 NKX San Diego Observations at 12Z 29 Apr 2015

PRES	HGHT	TEMP	DWPT	RELH	MIXR	DRCT	SKNT	THTA	THTE	THTV
hPa	m	C	C	%	g/kg	deg	knot	K	K	K
1000.0	106									
996.0	137	13.4	9.1	75	7.33	60	3	286.9	307.6	288.1
993.0	163	16.8	11.8	72	8.82	64	3	290.5	315.7	292.1
989.0	197	18.6	7.6	49	6.66	69	3	292.7	312.1	293.9
982.0	259	20.4	4.4	35	5.37	78	3	295.1	311.0	296.0
976.8	305	21.8	2.7	28	4.77	85	3	297.0	311.3	297.8
969.0	375	24.0	0.0	20	3.97	67	5	299.8	312.1	300.6
943.4	610	24.5	-4.3	14	2.96	5	11	302.6	312.0	303.2
937.0	670	24.6	-5.4	13	2.74	7	11	303.3	312.1	303.8
925.0	783	23.8	-4.2	15	3.04	10	10	303.6	313.3	304.2
911.2	914	22.9	-3.5	17	3.26	5	8	304.1	314.4	304.7
899.0	1031	22.2	-2.8	19	3.48	18	6	304.5	315.5	305.1
883.0	1187	22.0	-3.0	19	3.49	36	4	305.8	316.9	306.5
879.7	1219	21.7	-3.2	19	3.45	40	4	305.9	316.9	306.5
850.0	1515	19.2	-4.8	19	3.16	155	3	306.2	316.4	306.8
818.6	1829	16.2	-5.3	22	3.17	155	8	306.4	316.5	307.0
789.3	2134	13.3	-5.7	26	3.18	150	12	306.5	316.7	307.1
761.0	2438	10.4	-6.2	31	3.18	145	15	306.6	316.8	307.2
733.7	2743	7.5	-6.6	36	3.19	150	14	306.6	316.9	307.2
707.4	3048	4.6	-7.1	42	3.19	140	17	306.7	316.9	307.3
700.0	3136	3.8	-7.2	44	3.20	135	15	306.7	316.9	307.3
688.0	3276	2.4	-8.6	44	2.92	116	14	306.6	316.0	307.2
681.5	3353	3.7	-20.3	15	1.13	105	13	308.9	312.8	309.1
679.0	3383	4.2	-24.8	10	0.76	105	12	309.8	312.5	309.9



668.0	3516	6.0	-34.0	4	0.32	108	8	313.3	314.5	313.3
656.5	3658	5.5	-36.9	3	0.25	110	4	314.3	315.2	314.3
644.0	3815	5.0	-40.0	2	0.18	110	5	315.4	316.1	315.4
608.6	4267	1.3	-40.0	3	0.20	110	7	316.3	317.1	316.4
585.9	4572	-1.1	-39.9	3	0.20	60	1	316.9	317.7	316.9
563.9	4877	-3.6	-39.9	4	0.21	325	3	317.4	318.3	317.5
553.0	5034	-4.9	-39.9	5	0.22	327	3	317.7	318.6	317.8
528.0	5397	-6.1	-43.1	4	0.16	333	3	320.5	321.1	320.5
500.0	5820	-9.5	-45.5	4	0.13	340	3	321.4	321.9	321.4
482.3	6096	-11.4	-46.2	4	0.13	295	6	322.4	322.9	322.4
470.0	6295	-12.7	-46.7	4	0.12	289	6	323.1	323.7	323.2
402.0	7463	-22.9	-46.9	9	0.14	251	7	324.7	325.2	324.7
400.0	7500	-23.3	-46.3	10	0.15	250	7	324.6	325.2	324.6
393.4	7620	-24.4	-45.9	12	0.16	250	7	324.7	325.4	324.8
349.0	8479	-32.3	-43.3	33	0.24	254	9	325.4	326.3	325.4
342.0	8622	-32.7	-48.7	19	0.13	254	9	326.7	327.3	326.7
333.0	8809	-34.3	-47.3	26	0.16	255	10	327.0	327.7	327.1
331.6	8839	-34.5	-47.9	24	0.15	255	10	327.1	327.8	327.2
322.0	9043	-35.9	-51.9	18	0.10	262	10	328.0	328.4	328.0
317.3	9144	-36.8	-52.0	19	0.10	265	10	328.1	328.5	328.1
300.0	9530	-40.3	-52.3	26	0.10	285	8	328.4	328.9	328.5
257.0	10569	-49.1	-59.1	30	0.05	281	12	330.3	330.6	330.3
250.0	10750	-50.5	-59.5	34	0.05	280	13	330.9	331.1	330.9
231.0	11261	-54.9	-59.9	54	0.05	280	12	331.7	331.9	331.7
230.4	11278	-55.0	-60.0	54	0.05	280	12	331.8	332.0	331.8
211.0	11834	-58.9	-63.9	52	0.03	295	16	334.2	334.3	334.2
209.2	11887	-59.0	-64.5	49	0.03	295	14	334.8	335.0	334.8
200.0	12170	-59.5	-67.5	35	0.02	275	14	338.4	338.5	338.4
199.3	12192	-59.5	-67.9	33	0.02	260	18	338.7	338.8	338.7
189.8	12497	-59.8	-72.9	17	0.01	260	27	343.0	343.1	343.0
186.0	12621	-59.9	-74.9	12	0.01	257	27	344.8	344.9	344.8
181.0	12791	-58.9	-75.9	9	0.01	253	28	349.1	349.2	349.1
176.0	12966	-59.7	-78.7	7	0.00	248	28	350.6	350.7	350.6
160.0	13559	-59.3	-82.3	4	0.00	234	30	361.0	361.0	361.0
156.0	13716	-59.8	-83.2	3	0.00	230	30	362.8	362.8	362.8
150.0	13960	-60.5	-84.5	3	0.00	235	35	365.6	365.7	365.6
142.0	14302	-59.9	-84.9	2	0.00	244	46	372.5	372.5	372.5
141.5	14326	-59.7	-85.0	2	0.00	245	47	373.2	373.3	373.2
140.0	14391	-59.1	-85.1	2	0.00	247	45	375.4	375.4	375.4
134.7	14630	-60.4	-86.4	2	0.00	255	37	377.3	377.3	377.3
127.0	14998	-62.3	-88.3	2	0.00	240	28	380.2	380.2	380.2
122.1	15240	-62.0	-88.0	2	0.00	230	22	385.1	385.1	385.1
121.0	15298	-61.9	-87.9	2	0.00	230	23	386.2	386.2	386.2
113.0	15718	-65.7	-90.7	2	0.00	228	27	386.8	386.8	386.8
111.0	15827	-64.3	-89.3	2	0.00	228	28	391.4	391.4	391.4
107.0	16051	-66.1	-90.1	2	0.00	227	30	392.1	392.1	392.1
100.0	16460	-67.5	-90.5	3	0.00	225	34	397.1	397.1	397.1
85.8	17374	-69.7	-91.1	3	0.00	225	17	410.5	410.5	410.5
81.9	17650	-70.3	-91.3	3	0.00	200	16	414.6	414.6	414.6
81.5	17678	-69.8	-91.0	3	0.00	195	15	416.1	416.1	416.1
80.1	17783	-68.1	-90.1	3	0.00	200	15	421.8	421.8	421.8
77.5	17983	-68.3	-90.3	3	0.00	210	14	425.4	425.4	425.4
75.1	18168	-68.5	-90.5	3	0.00	207	13	428.8	428.8	428.8
73.6	18288	-67.7	-90.2	3	0.00	205	12	433.0	433.0	433.0
72.2	18404	-66.9	-89.9	3	0.00	213	13	437.1	437.1	437.1
70.0	18593	-68.1	-91.1	2	0.00	225	16	438.4	438.4	438.4
70.0	18590	-68.1	-91.1	2	0.00	225	14	438.4	438.4	438.4
68.0	18764	-69.1	-91.1	3	0.00	236	16	439.9	439.9	439.9
66.5	18898	-68.6	-90.9	3	0.00	245	16	443.8	443.8	443.8

63.2	19202	-67.4	-90.5	3	0.00	40	12	452.8	452.8	452.8
59.3	19591	-65.9	-89.9	2	0.00	43	5	464.6	464.6	464.6
57.2	19812	-63.2	-88.7	2	0.00	45	1	475.4	475.4	475.4
56.5	19888	-62.3	-88.3	2	0.00	51	1	479.2	479.2	479.2
50.0	20640	-65.3	-92.3	1	0.00	115	6	489.2	489.2	489.2
48.7	20800	-65.7	-91.7	2	0.00	101	7	491.9	491.9	491.9
44.6	21336	-64.7	-91.6	1	0.00	55	11	506.9	506.9	506.9
42.4	21641	-64.1	-91.5	1	0.00	95	13	515.7	515.7	515.7
40.4	21946	-63.4	-91.5	1	0.00	85	15	524.7	524.7	524.7
40.4	21941	-63.5	-91.5	1	0.00	85	15	524.4	524.4	524.4
39.7	22048	-62.1	-91.1	1	0.00	95	15	530.6	530.6	530.6
38.5	22238	-63.1	-91.1	1	0.00	114	14	532.7	532.7	532.7
38.4	22250	-63.0	-91.1	1	0.00	115	14	533.2	533.2	533.2
36.6	22555	-60.8	-90.6	1	0.00	75	14	546.5	546.5	546.5
35.4	22758	-59.3	-90.3	1	0.00	128	10	555.5	555.5	555.5
34.8	22860	-59.8	-90.5	1	0.00	155	8	556.8	556.9	556.8
33.3	23140	-61.1	-91.1	1	0.00	105	21	560.5	560.5	560.5
33.2	23165	-60.9	-91.0	1	0.00	100	22	561.6	561.7	561.6
31.9	23407	-59.3	-90.3	1	0.00	134	18	572.3	572.3	572.3
30.3	23728	-61.1	-91.1	1	0.00	179	14	575.9	575.9	575.9
30.1	23774	-61.0	-91.0	1	0.00	185	13	577.5	577.5	577.5
30.0	23790	-60.9	-90.9	1	0.00	190	12	578.0	578.1	578.0
27.9	24241	-60.9	-90.9	1	0.00	186	8	590.1	590.2	590.1
27.3	24384	-60.1	-90.5	1	0.00	185	7	596.1	596.1	596.1
26.0	24689	-58.6	-89.7	1	0.00	0	0	609.0	609.0	609.0
24.7	25005	-56.9	-88.9	1	0.01	2	1	622.6	622.6	622.6
20.0	26350	-54.3	-87.3	1	0.01	10	6	669.2	669.3	669.2
19.1	26645	-53.9	-86.9	1	0.01	1	3	679.3	679.4	679.3
18.7	26782	-51.1	-85.1	1	0.02	356	1	692.2	692.3	692.2
18.6	26822	-51.0	-85.0	1	0.02	355	1	693.6	693.8	693.6
17.4	27250	-50.3	-84.3	1	0.02	278	13	709.1	709.3	709.1
16.9	27432	-51.0	-84.7	1	0.02	245	18	712.6	712.8	712.6
16.1	27737	-52.2	-85.4	1	0.02	265	17	718.4	718.6	718.4
15.8	27875	-52.7	-85.7	1	0.02	256	15	721.1	721.3	721.1
15.4	28042	-52.3	-85.5	1	0.02	245	13	727.6	727.8	727.6
14.7	28346	-51.7	-85.2	1	0.02	270	21	739.6	739.8	739.6
14.0	28651	-51.0	-84.9	1	0.02	285	19	751.9	752.1	751.9
13.7	28799	-50.7	-84.7	1	0.02	278	19	757.9	758.1	757.9
13.4	28956	-51.1	-84.6	1	0.02	270	18	761.9	762.1	761.9
13.0	29140	-51.5	-84.5	1	0.02	292	15	766.5	766.8	766.6
12.1	29608	-48.3	-82.3	1	0.04	349	8	793.7	794.2	793.7
11.6	29870	-47.8	-82.4	1	0.04	20	4	804.5	804.9	804.5
11.3	30059	-47.5	-82.5	1	0.04	70	8	812.3	812.8	812.3
10.6	30480	-42.5	-78.4	1	0.08	180	17	845.3	846.3	845.3
10.5	30549	-41.7	-77.7	1	0.09	179	20	850.8	852.0	850.9
10.1	30785	-41.3	-78.0	1	0.09	175	29	860.9	862.0	860.9
10.0	30880	-41.1	-78.1	1	0.09	175	28	865.0	866.1	865.0
9.9	30948	-40.9	-77.9	1	0.09			868.2	869.4	868.3

## Station information and sounding indices

Station identifier: NKX  
 Station number: 72293  
 Observation time: 150429/1200  
 Station latitude: 32.85  
 Station longitude: -117.12  
 Station elevation: 137.0  
 Showalter index: 9.02  
 Lifted index: 12.01

LIFT computed using virtual temperature: 11.82  
     SWEAT index: 8.97  
         K index: 12.90  
     Cross totals index: 4.70  
     Vertical totals index: 28.70  
     Totals totals index: 33.40  
 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: 270.17  
 Pres [hPa] of the Lifted Condensation Level: 708.70  
     Mean mixed layer potential temperature: 298.13  
     Mean mixed layer mixing ratio: 4.59  
     1000 hPa to 500 hPa thickness: 5714.00  
 Precipitable water [mm] for entire sounding: 11.76

## 72293 NKX San Diego Observations at 00Z 30 Apr 2015

PRES	HGHT	TEMP	DWPT	RELH	MIXR	DRCT	SKNT	THTA	THTE	THTV
hPa	m	C	C	%	g/kg	deg	knot	K	K	K
1000.0	83									
994.0	137	27.8	10.8	35	8.24	350	12	301.5	326.2	303.0
985.0	217	26.0	9.0	34	7.36	333	13	300.4	322.5	301.8
975.1	305	24.6	6.1	30	6.10	315	15	299.9	318.3	301.0
972.0	333	24.2	5.2	29	5.74	314	15	299.8	317.1	300.8
962.0	423	25.6	-4.4	13	2.88	309	16	302.1	311.2	302.6
954.0	496	26.4	-4.6	13	2.86	306	17	303.6	312.7	304.1
941.7	610	26.6	-5.6	12	2.69	300	18	305.0	313.6	305.5
934.0	682	26.8	-6.2	11	2.59	300	17	305.9	314.2	306.3
925.0	767	26.2	-5.8	12	2.69	300	16	306.1	314.8	306.6
909.5	914	25.0	-5.4	13	2.82	285	14	306.3	315.4	306.8
878.1	1219	22.4	-4.7	16	3.09	275	14	306.7	316.6	307.3
850.0	1502	20.0	-4.0	19	3.36	255	12	307.1	317.8	307.7
817.6	1829	17.3	-4.1	23	3.46	240	6	307.6	318.7	308.3
788.4	2134	14.7	-4.2	27	3.56	0	0	308.1	319.5	308.8
760.4	2438	12.2	-4.3	31	3.66	60	6	308.6	320.3	309.3
733.3	2743	9.7	-4.5	37	3.76	80	12	309.0	321.1	309.7
700.0	3134	6.4	-4.6	45	3.90	95	16	309.5	322.0	310.3
664.0	3564	2.6	-6.4	52	3.59	103	18	310.0	321.5	310.6
656.3	3658	3.2	-14.3	26	1.93	105	19	311.7	318.2	312.1
647.0	3773	4.0	-24.0	11	0.85	85	15	313.9	316.9	314.0
638.0	3887	4.0	-32.0	5	0.41	66	12	315.1	316.7	315.2
608.1	4267	1.1	-35.3	5	0.31	0	0	316.1	317.3	316.2
563.0	4877	-3.5	-40.7	4	0.20	155	6	317.7	318.5	317.8
515.0	5582	-8.9	-46.9	3	0.11	197	10	319.4	319.9	319.4
501.2	5791	-10.0	-48.0	3	0.10	210	11	320.6	321.0	320.6
500.0	5810	-10.1	-48.1	3	0.10	210	11	320.7	321.1	320.7
481.8	6096	-12.0	-48.1	3	0.10	230	11	321.7	322.1	321.7
481.0	6108	-12.1	-48.1	3	0.10	230	11	321.8	322.2	321.8
408.0	7345	-22.7	-44.7	12	0.18	226	12	323.6	324.3	323.6
400.0	7490	-23.9	-39.9	21	0.30	225	12	323.8	325.0	323.9
393.0	7618	-25.1	-39.1	26	0.33	215	11	323.9	325.2	324.0
392.9	7620	-25.1	-39.1	26	0.33	215	11	323.9	325.2	324.0
353.0	8385	-31.9	-43.9	29	0.22	231	9	324.8	325.7	324.9

330.8	8839	-36.1	-44.6	41	0.22	240	8	325.1	326.0	325.1
328.0	8898	-36.7	-44.7	43	0.22	238	9	325.1	326.0	325.2
316.5	9144	-37.8	-54.1	17	0.08	230	15	326.9	327.2	326.9
310.0	9286	-38.5	-59.5	9	0.04	232	16	327.9	328.1	327.9
300.0	9510	-40.5	-59.5	11	0.04	235	17	328.2	328.4	328.2
284.0	9882	-43.5	-61.5	12	0.03	237	18	329.1	329.2	329.1
279.0	10002	-44.5	-54.5	32	0.08	237	18	329.3	329.6	329.3
271.0	10197	-46.1	-56.1	31	0.07	238	19	329.7	330.0	329.7
266.0	10321	-46.9	-51.9	56	0.12	238	19	330.3	330.8	330.3
253.0	10652	-49.7	-54.6	56	0.09	240	20	330.9	331.3	330.9
250.0	10730	-50.5	-55.5	55	0.08	240	20	330.9	331.2	330.9
232.0	11214	-54.5	-61.5	42	0.04	238	21	331.9	332.1	331.9
215.0	11697	-58.7	-64.7	46	0.03	237	22	332.7	332.8	332.7
203.0	12057	-60.7	-68.7	34	0.02	235	23	335.1	335.1	335.1
200.0	12150	-60.7	-69.7	30	0.02	235	23	336.5	336.6	336.5
198.0	12212	-60.5	-70.5	26	0.01	237	23	337.8	337.8	337.8
192.0	12403	-61.5	-72.5	22	0.01	245	25	339.1	339.2	339.1
180.0	12802	-61.0	-77.1	10	0.01	240	29	346.3	346.3	346.3
178.0	12873	-60.9	-77.9	9	0.01	242	30	347.6	347.6	347.6
166.0	13305	-62.1	-81.1	6	0.00	257	33	352.5	352.6	352.5
163.2	13411	-62.1	-81.8	6	0.00	260	34	354.2	354.2	354.2
150.0	13930	-62.3	-85.3	3	0.00	260	35	362.6	362.6	362.6
146.0	14096	-63.1	-87.1	3	0.00	256	39	364.0	364.0	364.0
141.0	14311	-62.1	-86.1	3	0.00	250	45	369.4	369.4	369.4
140.7	14326	-62.1	-86.2	3	0.00	250	45	369.5	369.6	369.6
137.0	14488	-62.7	-86.7	3	0.00	246	43	371.4	371.4	371.4
121.3	15240	-60.9	-87.9	2	0.00	225	32	387.7	387.7	387.7
121.0	15255	-60.9	-87.9	2	0.00	226	32	388.1	388.1	388.1
111.0	15789	-61.7	-88.7	2	0.00	243	33	396.2	396.3	396.2
107.0	16015	-63.3	-90.3	1	0.00	250	33	397.4	397.4	397.4
104.6	16154	-63.3	-90.3	1	0.00	255	33	400.0	400.0	400.0
102.0	16309	-63.3	-90.3	1	0.00	263	23	402.9	402.9	402.9
100.0	16430	-64.3	-91.3	1	0.00	270	15	403.2	403.2	403.2
94.2	16794	-67.3	-92.3	2	0.00	215	13	404.3	404.3	404.3
78.0	17934	-67.9	-91.9	2	0.00	207	16	425.4	425.4	425.4
73.6	18288	-66.9	-91.5	2	0.00	205	17	434.6	434.6	434.6
70.0	18590	-66.1	-91.1	2	0.00	200	9	442.6	442.6	442.6
69.1	18668	-64.9	-89.9	2	0.00	201	9	446.9	446.9	446.9
66.1	18937	-65.3	-91.3	2	0.00	205	10	451.7	451.7	451.7
62.4	19288	-62.7	-89.7	2	0.00	209	12	464.9	464.9	464.9
57.7	19767	-63.9	-90.9	1	0.00	215	14	472.7	472.8	472.7
56.5	19896	-62.1	-90.1	1	0.00	217	14	479.7	479.7	479.7
54.5	20117	-61.3	-89.8	1	0.00	220	15	486.4	486.4	486.4
52.5	20349	-60.5	-89.5	1	0.00	235	11	493.6	493.6	493.6
50.0	20650	-62.7	-90.7	1	0.00	255	5	495.3	495.3	495.3
47.1	21016	-65.3	-92.3	1	0.00	116	1	497.6	497.6	497.6
47.0	21031	-65.3	-92.3	1	0.00	110	1	498.0	498.1	498.0
44.7	21336	-64.4	-92.0	1	0.00	15	6	507.3	507.3	507.3
42.9	21588	-63.7	-91.7	1	0.00	21	8	515.0	515.0	515.0
42.1	21704	-61.9	-89.9	1	0.00	23	9	522.2	522.2	522.2
40.7	21913	-62.9	-90.9	1	0.00	28	10	524.8	524.8	524.8
38.5	22250	-61.3	-90.0	1	0.00	35	13	537.0	537.0	537.0
37.7	22388	-60.7	-89.7	1	0.00	19	7	542.0	542.0	542.0
36.7	22555	-61.0	-90.0	1	0.00	0	0	545.4	545.5	545.5
35.7	22727	-61.3	-90.3	1	0.00	19	4	549.0	549.0	549.0
34.7	22904	-58.5	-88.5	1	0.00	38	8	560.8	560.8	560.8
33.4	23145	-57.9	-87.9	1	0.01	65	14	568.5	568.5	568.5
31.7	23470	-58.9	-88.2	1	0.01	100	21	574.4	574.4	574.4
31.0	23614	-59.3	-88.3	1	0.01	110	20	577.0	577.0	577.0

30.0	23820	-58.7	-88.7	1	0.01	125	18	584.0	584.1	584.0
29.5	23926	-57.5	-88.5	1	0.01	133	17	590.1	590.2	590.1
27.8	24300	-58.3	-88.3	1	0.01	163	11	598.0	598.0	598.0
27.4	24384	-57.6	-87.8	1	0.01	170	10	602.1	602.2	602.1
26.0	24724	-54.9	-85.9	1	0.01	176	6	619.2	619.3	619.2
24.9	24994	-55.2	-86.2	1	0.01	180	2	625.9	626.0	625.9
24.5	25103	-55.3	-86.3	1	0.01	191	7	628.6	628.7	628.6
23.8	25298	-53.7	-85.4	1	0.01	210	15	638.7	638.8	638.7
23.4	25398	-52.9	-84.9	1	0.01	223	17	644.0	644.1	644.0
22.7	25603	-53.1	-84.8	1	0.01	250	22	649.2	649.4	649.2
21.6	25908	-53.4	-84.5	1	0.01	275	20	657.1	657.3	657.1
21.4	25973	-53.5	-84.5	1	0.01	286	18	658.8	659.0	658.8
20.6	26213	-52.4	-84.0	1	0.02	325	11	669.2	669.3	669.2
20.0	26410	-51.5	-83.5	1	0.02	300	8	677.8	678.0	677.8
19.7	26518	-50.9	-83.2	1	0.02	255	11	682.8	683.0	682.8
19.0	26744	-49.7	-82.7	1	0.02	262	11	693.4	693.6	693.4
17.9	27127	-49.2	-82.2	1	0.03	275	12	706.5	706.8	706.5
17.1	27432	-48.9	-81.8	1	0.03	310	10	717.2	717.5	717.2
16.8	27550	-48.7	-81.7	1	0.03	289	12	721.4	721.7	721.4
16.3	27737	-47.8	-81.2	1	0.03	255	16	730.2	730.6	730.2
15.6	28040	-46.3	-80.3	1	0.04	247	16	744.7	745.2	744.7
14.2	28651	-48.3	-81.6	1	0.04	230	17	758.0	758.4	758.0
13.7	28897	-49.1	-82.1	1	0.03	244	21	763.3	763.7	763.3
13.3	29092	-47.3	-81.3	1	0.04	255	24	776.0	776.5	776.0
13.0	29261	-47.8	-81.4	1	0.04	265	27	780.0	780.5	780.0
12.5	29501	-48.5	-81.5	1	0.04	259	25	785.7	786.2	785.7
10.8	30480	-43.0	-78.8	1	0.07	235	15	839.4	840.3	839.5
10.7	30536	-42.7	-78.7	1	0.08	237	16	842.6	843.5	842.6
10.0	30990	-44.9	-78.9	1	0.08	250	21	850.8	851.8	850.9
9.8	31090	-44.8	-79.1	1	0.08	235	14	855.0	856.0	855.1
9.6	31263	-44.5	-79.5	1	0.08			862.3	863.3	862.4

## Station information and sounding indices

Station identifier: NKX  
 Station number: 72293  
 Observation time: 150430/0000  
 Station latitude: 32.85  
 Station longitude: -117.12  
 Station elevation: 137.0  
 Showalter index: 7.58  
 Lifted index: 8.95  
 LIFT computed using virtual temperature: 8.70  
 SWEAT index: 35.00  
 K index: 15.10  
 Cross totals index: 6.10  
 Vertical totals index: 30.10  
 Totals totals index: 36.20  
 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: 269.42  
 Pres [hPa] of the Lifted Condensation Level: 670.87  
 Mean mixed layer potential temperature: 301.99  
 Mean mixed layer mixing ratio: 4.77  
 1000 hPa to 500 hPa thickness: 5727.00

Precipitable water [mm] for entire sounding: 13.41

## 72293 NKX San Diego Observations at 12Z 30 Apr 2015

PRES	HGHT	TEMP	DWPT	RELH	MIXR	DRCT	SKNT	THTA	THTE	THTV
hPa	m	C	C	%	g/kg	deg	knot	K	K	K
1000.0	77									
993.0	137	15.4	10.4	72	8.03	0	0	289.1	312.0	290.5
989.0	172	19.0	12.0	64	8.98	22	1	293.1	319.0	294.7
984.0	215	20.4	7.4	43	6.60	49	1	294.9	314.3	296.1
973.9	305	22.9	3.7	28	5.14	105	3	298.3	313.8	299.2
971.0	331	23.6	2.6	25	4.78	94	4	299.3	313.8	300.1
944.0	577	24.8	-10.2	9	1.87	349	10	302.9	309.0	303.2
940.5	610	24.7	-7.5	11	2.33	335	11	303.1	310.6	303.5
933.0	680	24.4	-1.6	18	3.66	337	9	303.5	315.0	304.2
925.0	755	24.4	-2.6	17	3.43	340	6	304.2	315.1	304.9
908.3	914	23.7	-4.2	15	3.10	350	9	305.1	315.0	305.7
906.0	936	23.6	-4.4	15	3.06	348	9	305.2	315.0	305.8
876.8	1219	21.5	-4.4	17	3.16	320	11	306.0	316.1	306.6
850.0	1487	19.6	-4.4	19	3.26	280	5	306.7	317.1	307.3
816.7	1829	17.0	-2.6	26	3.87	105	7	307.4	319.7	308.1
812.0	1878	16.6	-2.4	27	3.97	117	7	307.5	320.1	308.2
787.5	2134	14.3	-3.0	30	3.90	180	10	307.8	320.2	308.5
759.3	2438	11.6	-3.8	34	3.83	185	6	308.1	320.3	308.8
732.0	2743	8.9	-4.5	38	3.76	185	8	308.4	320.4	309.1
700.0	3116	5.6	-5.4	45	3.67	150	9	308.6	320.4	309.3
679.0	3364	3.2	-6.8	48	3.40	173	6	308.7	319.6	309.3
667.0	3508	2.8	-11.2	35	2.45	186	5	309.8	317.9	310.3
654.8	3658	3.7	-27.1	8	0.64	200	3	312.5	314.8	312.6
651.0	3705	4.0	-32.0	5	0.40	200	4	313.3	314.8	313.4
617.0	4138	2.2	-39.8	3	0.20	200	10	316.1	316.9	316.1
607.0	4267	1.1	-39.6	3	0.20	200	12	316.4	317.1	316.4
561.7	4877	-3.8	-38.5	5	0.25	200	16	317.6	318.6	317.6
519.9	5486	-8.7	-37.4	8	0.30	210	22	318.7	319.9	318.8
509.0	5653	-10.1	-37.1	9	0.31	207	21	319.0	320.2	319.1
500.0	5790	-11.1	-44.1	5	0.15	205	20	319.4	320.1	319.5
480.4	6096	-13.3	-48.0	4	0.10	215	18	320.4	320.8	320.4
477.0	6150	-13.7	-48.7	3	0.10	215	18	320.6	320.9	320.6
472.0	6230	-14.3	-42.3	7	0.20	216	18	320.8	321.6	320.8
468.0	6295	-14.7	-32.7	20	0.53	217	18	321.1	323.0	321.2
445.0	6674	-18.3	-32.3	28	0.57	220	17	321.2	323.3	321.3
443.1	6706	-18.6	-32.5	28	0.56	220	17	321.2	323.4	321.4
400.0	7460	-24.9	-37.9	29	0.37	200	23	322.5	323.9	322.6
391.2	7620	-26.2	-39.2	28	0.33	200	23	322.9	324.1	322.9
379.0	7850	-28.1	-41.1	28	0.28	211	21	323.3	324.4	323.4
359.1	8230	-31.5	-42.1	34	0.26	230	18	323.8	324.8	323.8
331.0	8806	-36.7	-43.7	48	0.24	221	22	324.3	325.2	324.3
329.4	8839	-37.0	-44.0	48	0.23	220	22	324.3	325.2	324.4
318.0	9082	-39.3	-46.3	47	0.19	224	20	324.4	325.2	324.4
315.2	9144	-39.6	-49.9	33	0.13	225	20	324.9	325.4	324.9
312.0	9213	-39.9	-53.9	21	0.08	224	20	325.4	325.7	325.4
310.0	9257	-40.3	-56.3	16	0.06	223	20	325.4	325.6	325.4
300.0	9480	-41.9	-54.9	23	0.07	220	21	326.2	326.5	326.2
275.2	10058	-46.6	-58.7	24	0.05	225	24	327.4	327.7	327.5
275.0	10064	-46.7	-58.7	24	0.05	225	24	327.5	327.7	327.5
267.0	10259	-48.1	-53.1	56	0.10	220	24	328.2	328.6	328.2
250.8	10668	-51.7	-54.8	69	0.09	210	25	328.8	329.1	328.8

250.0	10690	-51.9	-54.9	70	0.09	210	24	328.8	329.1	328.8
249.0	10716	-52.3	-55.1	72	0.09	211	24	328.6	328.9	328.6
234.0	11115	-55.3	-62.3	41	0.04	224	25	329.9	330.1	329.9
228.1	11278	-56.8	-63.1	44	0.03	230	26	330.1	330.3	330.1
225.0	11363	-57.5	-63.5	46	0.03	229	27	330.2	330.4	330.2
218.0	11562	-58.3	-68.3	27	0.02	228	28	332.0	332.1	332.0
209.0	11826	-60.1	-70.1	26	0.01	226	31	333.2	333.3	333.2
207.0	11887	-60.3	-70.3	26	0.01	225	31	333.9	333.9	333.9
200.0	12100	-60.9	-70.9	26	0.01	230	31	336.2	336.2	336.2
199.0	12131	-60.9	-70.9	26	0.01	230	31	336.6	336.7	336.6
188.0	12484	-60.5	-73.5	17	0.01	249	34	342.8	342.9	342.8
187.6	12497	-60.6	-73.6	16	0.01	250	34	342.9	343.0	342.9
180.0	12754	-61.7	-75.7	14	0.01	250	33	345.1	345.2	345.1
174.0	12964	-61.1	-76.1	12	0.01	250	33	349.5	349.5	349.5
161.8	13411	-62.3	-79.9	8	0.00	250	32	354.8	354.8	354.8
156.0	13638	-62.9	-81.9	6	0.00	246	42	357.5	357.5	357.5
154.1	13716	-62.7	-82.3	6	0.00	245	45	359.1	359.1	359.1
150.0	13880	-62.3	-83.3	4	0.00	250	45	362.6	362.6	362.6
147.0	14005	-61.9	-83.9	4	0.00	248	44	365.4	365.4	365.4
138.0	14395	-62.5	-85.5	3	0.00	241	40	370.9	371.0	370.9
136.0	14485	-61.7	-85.7	3	0.00	239	39	373.9	373.9	373.9
125.0	15008	-60.9	-86.9	2	0.00	229	34	384.5	384.5	384.5
123.0	15108	-61.5	-87.5	2	0.00	227	33	385.2	385.2	385.2
120.4	15240	-61.3	-87.3	2	0.00	225	32	387.9	387.9	387.9
116.0	15471	-60.9	-86.9	2	0.00	229	30	392.8	392.8	392.8
108.0	15915	-61.1	-88.1	2	0.00	237	25	400.5	400.5	400.5
100.0	16390	-62.9	-89.9	2	0.00	245	20	405.9	405.9	405.9
94.6	16729	-65.5	-90.5	2	0.00	230	28	407.3	407.3	407.3
89.4	17069	-66.0	-90.6	2	0.00	235	32	412.9	412.9	412.9
80.8	17683	-66.9	-90.9	2	0.00	248	24	423.2	423.2	423.2
76.9	17983	-66.5	-90.5	2	0.00	255	20	430.1	430.1	430.1
73.1	18288	-66.1	-90.1	2	0.00	225	13	437.3	437.3	437.3
70.0	18550	-65.7	-89.7	2	0.00	255	8	443.5	443.5	443.5
69.5	18593	-65.7	-89.7	2	0.00	275	12	444.4	444.4	444.4
68.1	18717	-65.7	-89.7	2	0.00	269	13	447.0	447.0	447.0
66.9	18826	-63.3	-88.3	2	0.00	263	14	454.5	454.5	454.5
63.0	19202	-62.1	-88.6	2	0.00	245	16	465.1	465.1	465.1
61.7	19326	-61.7	-88.7	2	0.00	278	13	468.6	468.7	468.6
58.0	19707	-64.1	-90.1	2	0.00	21	4	471.6	471.6	471.6
57.4	19771	-62.7	-89.7	2	0.00	39	2	476.1	476.2	476.1
57.0	19812	-62.8	-89.7	2	0.00	50	1	476.9	476.9	476.9
54.3	20117	-63.3	-89.7	2	0.00	115	10	482.5	482.6	482.5
52.1	20367	-63.7	-89.7	2	0.00	148	10	487.2	487.2	487.2
51.6	20422	-63.4	-89.6	2	0.00	155	10	489.2	489.2	489.2
50.0	20620	-62.3	-89.3	2	0.00	155	7	496.2	496.3	496.2
46.6	21055	-61.7	-89.7	1	0.00	158	12	507.8	507.8	507.8
44.5	21336	-63.7	-90.9	1	0.00	160	16	509.6	509.6	509.6
44.1	21394	-64.1	-91.1	1	0.00	150	14	510.0	510.0	510.0
42.4	21641	-63.2	-90.2	2	0.00	105	3	518.2	518.2	518.2
41.9	21708	-62.9	-89.9	2	0.00	117	6	520.5	520.5	520.5
41.3	21797	-61.1	-89.1	1	0.00	133	10	527.1	527.1	527.1
40.3	21946	-61.0	-89.0	1	0.00	160	16	531.0	531.0	531.0
38.4	22250	-60.7	-88.7	1	0.00	110	1	539.2	539.2	539.2
38.3	22266	-60.7	-88.7	1	0.00	108	1	539.6	539.6	539.6
37.4	22414	-58.9	-88.9	1	0.00	92	1	547.9	547.9	547.9
34.7	22883	-59.1	-89.1	1	0.00	40	3	559.2	559.2	559.2
30.0	23800	-56.7	-87.7	1	0.01	300	5	589.5	589.5	589.5
28.6	24103	-56.3	-87.3	1	0.01	321	6	598.7	598.8	598.7
27.4	24384	-56.3	-87.3	1	0.01	340	7	606.3	606.4	606.3

24.9	24994	-56.3	-87.3	1	0.01	340	17	623.2	623.3	623.2
23.9	25243	-56.3	-87.3	1	0.01	272	15	630.2	630.3	630.2
23.3	25405	-53.5	-85.5	1	0.01	228	13	643.0	643.1	643.0
22.6	25603	-53.3	-85.3	1	0.01	175	11	649.3	649.5	649.3
21.6	25908	-52.9	-84.9	1	0.01	215	12	659.2	659.4	659.2
20.6	26213	-52.6	-84.6	1	0.02	220	17	669.3	669.5	669.3
20.4	26262	-52.5	-84.5	1	0.02	221	16	670.9	671.1	670.9
20.0	26390	-50.9	-83.9	1	0.02	225	13	679.6	679.8	679.6
18.7	26822	-48.8	-82.5	1	0.02	235	8	699.1	699.4	699.2
18.1	27043	-47.7	-81.7	1	0.03	268	13	709.3	709.6	709.4
17.9	27127	-47.5	-81.5	1	0.03	280	15	712.4	712.7	712.4
17.1	27432	-47.0	-81.0	1	0.03	265	26	723.6	723.9	723.6
16.9	27496	-46.9	-80.9	1	0.03	265	24	726.0	726.3	726.0
16.3	27737	-48.0	-81.3	1	0.03	265	17	730.1	730.5	730.1
16.0	27857	-48.5	-81.5	1	0.03	266	19	732.2	732.5	732.2
15.8	27940	-46.9	-80.9	1	0.04	267	20	740.0	740.5	740.1
14.9	28346	-46.9	-80.9	1	0.04	270	27	753.1	753.6	753.2
14.1	28693	-46.9	-80.9	1	0.04	284	21	764.5	765.0	764.5
13.6	28956	-47.5	-81.2	1	0.04	295	16	771.3	771.8	771.4
12.9	29261	-48.1	-81.6	1	0.04	260	18	779.3	779.8	779.3
12.1	29700	-49.1	-82.1	1	0.04	267	22	790.9	791.4	790.9
11.8	29865	-47.7	-81.7	1	0.04	270	24	801.6	802.1	801.6
11.3	30175	-47.2	-81.2	1	0.05	275	27	814.2	814.8	814.2
10.8	30480	-46.7	-80.7	1	0.06	265	17	826.8	827.5	826.9
10.0	30960	-45.9	-79.9	1	0.07	265	12	847.1	848.0	847.1
9.5	31302	-44.9	-79.9	1	0.07	255	11	863.4	864.3	863.4
8.7	31896	-40.3	-77.3	1	0.12	238	10	903.2	904.8	903.3
7.6	32815	-41.3	-77.3	1	0.13	212	8	934.7	936.6	934.8
7.2	33223	-40.4	-76.4	1	0.16	200	7	954.5	956.8	954.6
7.1	33278	-40.3	-76.3	1	0.17			957.2	959.6	957.3

## Station information and sounding indices

Station identifier: NKX  
 Station number: 72293  
 Observation time: 150430/1200  
 Station latitude: 32.85  
 Station longitude: -117.12  
 Station elevation: 137.0  
 Showalter index: 7.00  
 Lifted index: 10.46  
 LIFT computed using virtual temperature: 10.27  
 SWEAT index: 29.99  
 K index: 15.30  
 Cross totals index: 6.70  
 Vertical totals index: 30.70  
 Totals totals index: 37.40  
 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: 268.65  
 Pres [hPa] of the Lifted Condensation Level: 687.70  
 Mean mixed layer potential temperature: 299.01  
 Mean mixed layer mixing ratio: 4.53  
 1000 hPa to 500 hPa thickness: 5713.00  
 Precipitable water [mm] for entire sounding: 13.63



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))