

72293 NKX San Diego Observations at 12Z 24 Jul 2015

PRES hPa	HGHT m	TEMP C	DWPT C	RELH %	MIXR g/kg	DRCT deg	SKNT knot	THTA K	THTE K	THTV K
1000.0	137	19.6	19.3	98	14.30	120	3	292.8	333.5	295.3
980.7	305	18.3	18.2	99	13.56	55	2	293.1	331.8	295.5
958.0	507	16.8	16.8	100	12.72	52	4	293.5	329.9	295.8
947.0	607	18.8	18.5	98	14.36	50	5	296.5	338.1	299.1
946.7	610	18.8	18.5	98	14.36	50	5	296.6	338.2	299.1
935.0	718	20.0	18.4	91	14.46	53	4	298.8	341.1	301.4
931.0	755	20.4	14.4	68	11.20	54	4	299.6	332.6	301.6
926.0	802	21.2	12.2	56	9.73	55	3	300.9	329.8	302.6
925.0	811	21.2	12.2	56	9.74	55	3	301.0	330.0	302.7
914.1	914	21.2	8.8	45	7.83	15	1	302.0	325.6	303.4
909.0	962	21.2	7.2	40	7.05	3	1	302.5	323.9	303.8
882.3	1219	19.7	5.0	38	6.22	300	2	303.5	322.5	304.6
871.0	1330	19.0	4.0	37	5.88	281	4	303.9	322.0	305.0
850.0	1539	19.0	-5.0	19	3.12	245	8	306.0	316.0	306.6
844.0	1600	19.4	-8.6	14	2.38	239	9	307.1	314.8	307.5
821.7	1829	18.4	-11.2	12	1.98	215	14	308.4	314.9	308.8
817.0	1878	18.2	-11.8	12	1.90	217	14	308.7	315.0	309.0
797.0	2089	16.6	-6.4	20	2.99	228	17	309.2	318.9	309.7
792.8	2134	16.6	-9.5	16	2.36	230	17	309.6	317.4	310.1
778.0	2294	16.6	-20.4	6	0.98	222	15	311.3	314.7	311.5
764.9	2438	15.7	-19.3	8	1.09	215	14	311.9	315.6	312.1
746.0	2649	14.4	-17.6	9	1.29	229	17	312.7	317.1	312.9
737.8	2743	14.6	-23.2	6	0.81	235	18	313.8	316.7	314.0
736.0	2763	14.6	-24.4	5	0.73	235	18	314.1	316.7	314.2
703.0	3147	11.0	-14.0	16	1.85	230	21	314.2	320.6	314.6
700.0	3183	10.8	-14.2	16	1.83	230	21	314.4	320.6	314.8
679.0	3436	9.0	-11.0	23	2.44	230	25	315.1	323.4	315.6
661.0	3658	7.3	-14.6	19	1.87	230	29	315.7	322.1	316.0
660.0	3670	7.2	-14.8	19	1.85	230	29	315.7	322.0	316.0
640.0	3923	7.0	-26.0	7	0.72	226	24	318.2	320.9	318.4
613.6	4267	5.0	-30.6	6	0.49	220	18	319.8	321.6	319.9
609.0	4329	4.6	-31.4	5	0.46	222	17	320.0	321.8	320.1
592.0	4560	4.4	-37.6	3	0.26	230	11	322.4	323.4	322.4
591.1	4572	4.3	-37.7	3	0.25	230	11	322.4	323.4	322.5
569.2	4877	2.3	-39.2	3	0.23	235	11	323.6	324.5	323.6
545.0	5227	0.0	-41.0	3	0.20	226	13	324.9	325.7	324.9
527.5	5486	-2.2	-39.5	4	0.24	220	14	325.3	326.3	325.4
507.6	5791	-4.7	-37.7	6	0.29	230	13	325.8	327.0	325.9
503.0	5863	-5.3	-37.3	6	0.31	230	13	326.0	327.2	326.0
500.0	5910	-5.5	-37.5	6	0.31	230	13	326.3	327.5	326.3
488.2	6096	-6.3	-40.4	5	0.23	220	13	327.5	328.4	327.5
483.0	6180	-6.7	-41.7	4	0.20	219	13	328.0	328.9	328.1
433.5	7010	-13.4	-46.1	5	0.14	210	9	329.8	330.4	329.9
419.0	7271	-15.5	-47.5	5	0.13	219	12	330.4	330.9	330.4
416.6	7315	-15.6	-48.2	4	0.12	220	13	330.7	331.2	330.7
402.0	7583	-16.5	-52.5	3	0.07	207	13	333.0	333.3	333.0
400.0	7620	-16.9	-53.9	2	0.06	205	13	332.9	333.2	332.9
383.6	7925	-19.2	-53.7	3	0.07	195	15	333.9	334.2	333.9
324.6	9144	-28.5	-52.9	8	0.09	215	24	337.4	337.8	337.4
312.0	9432	-30.7	-52.7	10	0.09	218	32	338.2	338.6	338.2
309.0	9500	-30.9	-51.9	11	0.10	218	34	338.8	339.3	338.9
305.0	9593	-29.9	-61.9	3	0.03	219	37	341.5	341.6	341.5
300.0	9710	-30.3	-64.3	2	0.02	220	40	342.6	342.7	342.6

299.0	9734	-30.5	-64.5	2	0.02	220	40	342.6	342.7	342.6
298.1	9754	-30.7	-64.5	2	0.02	220	40	342.6	342.8	342.6
250.0	10980	-40.9	-62.9	8	0.03	225	39	345.1	345.3	345.1
239.1	11278	-43.4	-62.7	10	0.03	215	41	345.8	346.0	345.8
219.0	11867	-48.3	-62.3	18	0.04	230	43	347.0	347.2	347.0
218.3	11887	-48.4	-62.5	18	0.04	230	43	347.1	347.3	347.1
200.0	12460	-52.5	-68.5	13	0.02	225	41	349.5	349.6	349.5
180.5	13106	-57.5	-72.9	12	0.01	205	43	351.8	351.8	351.8
164.0	13713	-62.1	-77.1	12	0.01	220	46	353.8	353.8	353.8
163.9	13716	-62.1	-77.1	12	0.01	220	46	353.8	353.9	353.8
158.0	13942	-62.5	-78.5	10	0.01	216	44	356.9	356.9	356.9
150.0	14260	-65.7	-81.7	9	0.00	210	42	356.7	356.7	356.7
142.0	14590	-68.3	-83.3	10	0.00	219	44	357.8	357.8	357.8
141.1	14630	-68.5	-83.4	10	0.00	220	44	358.2	358.2	358.2
127.3	15240	-70.7	-84.8	11	0.00	220	26	364.8	364.8	364.8
125.0	15349	-71.1	-85.1	11	0.00	210	27	366.0	366.0	366.0
121.0	15542	-69.9	-83.9	11	0.00	211	24	371.6	371.6	371.6
119.0	15641	-70.3	-84.3	11	0.00	212	22	372.6	372.7	372.6
118.0	15691	-68.9	-82.9	12	0.00	213	21	376.1	376.1	376.1
114.0	15897	-68.7	-81.7	14	0.00	214	18	380.2	380.2	380.2
110.0	16110	-69.7	-82.7	14	0.00	216	14	382.2	382.3	382.2
100.0	16680	-67.9	-82.9	10	0.00	220	5	396.3	396.3	396.3
98.7	16759	-66.1	-81.1	11	0.01	217	5	401.2	401.3	401.2
95.7	16946	-66.7	-82.7	9	0.00	211	6	403.6	403.7	403.6
93.9	17061	-65.1	-83.1	7	0.00	207	6	409.0	409.0	409.0
77.5	18227	-66.3	-90.3	2	0.00	167	9	429.5	429.5	429.5
76.7	18288	-65.8	-90.2	2	0.00	165	9	431.7	431.7	431.7
73.0	18593	-63.6	-89.5	2	0.00	165	2	442.7	442.7	442.7
70.7	18789	-62.1	-89.1	2	0.00	150	11	449.9	449.9	449.9
70.0	18850	-62.3	-89.3	2	0.00	145	14	450.8	450.8	450.8
69.5	18898	-62.1	-89.4	2	0.00	155	17	452.1	452.1	452.1
66.1	19202	-61.1	-89.9	1	0.00	160	10	460.8	460.8	460.8
63.8	19424	-60.3	-90.3	1	0.00	124	12	467.2	467.3	467.2
63.0	19507	-60.5	-90.5	1	0.00	110	13	468.6	468.6	468.6
59.9	19812	-61.2	-91.2	1	0.00	0	0	473.6	473.6	473.6
59.7	19837	-61.3	-91.3	1	0.00	3	1	474.0	474.0	474.0
55.8	20259	-57.7	-89.7	1	0.00	62	11	491.4	491.4	491.4
54.4	20422	-57.7	-89.7	1	0.00	85	15	495.1	495.1	495.1
51.8	20726	-57.7	-89.7	1	0.00	105	15	501.9	502.0	501.9
50.0	20950	-57.7	-89.7	1	0.00	80	14	507.1	507.1	507.1
49.4	21031	-57.6	-89.6	1	0.00	75	18	509.1	509.1	509.1
47.0	21336	-57.4	-89.4	1	0.00	85	22	516.7	516.7	516.7
44.8	21641	-57.2	-89.2	1	0.00	90	25	524.4	524.4	524.4
44.1	21744	-57.1	-89.1	1	0.00	95	23	527.1	527.1	527.1
42.7	21946	-56.6	-88.8	1	0.00	105	20	533.0	533.0	533.0
40.7	22250	-55.9	-88.2	1	0.00	95	20	542.1	542.1	542.1
35.3	23165	-53.8	-86.7	1	0.01	95	20	570.3	570.3	570.3
34.2	23369	-53.3	-86.3	1	0.01	85	23	576.7	576.8	576.7
33.7	23470	-53.6	-86.6	1	0.01	80	25	578.6	578.7	578.6
31.9	23816	-54.5	-87.5	1	0.01	82	26	585.1	585.2	585.1
30.0	24210	-54.1	-87.1	1	0.01	85	27	596.6	596.6	596.6
29.2	24384	-54.0	-87.0	1	0.01	90	29	601.4	601.5	601.4
28.3	24585	-53.9	-86.9	1	0.01	93	29	607.1	607.2	607.1
26.6	24994	-52.3	-85.7	1	0.01	100	30	622.7	622.8	622.7
24.2	25603	-49.9	-83.9	1	0.01	75	34	646.5	646.7	646.5
24.2	25601	-49.9	-83.9	1	0.01	75	34	646.5	646.6	646.5
20.1	26822	-49.9	-83.9	1	0.02	70	38	681.8	682.0	681.9
20.0	26850	-49.9	-83.9	1	0.02	70	40	682.7	682.9	682.7
18.4	27394	-50.5	-84.5	1	0.02	84	40	697.2	697.4	697.3
18.3	27432	-50.4	-84.4	1	0.02	85	40	698.8	699.0	698.8
17.5	27737	-49.4	-83.6	1	0.02	90	47	711.3	711.6	711.4

14.8	28828	-45.7	-80.7	1	0.04	98	46	758.0	758.5	758.0
13.9	29246	-45.9	-80.9	1	0.04	101	45	771.0	771.5	771.0
11.8	30352	-39.1	-76.1	1	0.10	109	44	832.1	833.4	832.2
11.6	30480	-39.6	-76.4	1	0.10	110	44	834.9	836.2	835.0
10.6	31090	-41.9	-78.0	1	0.09	105	41	848.3	849.4	848.3
10.4	31211	-42.3	-78.3	1	0.08			850.9	852.0	851.0

Station information and sounding indices

Station identifier: NKX
Station number: 72293
Observation time: 150724/1200
Station latitude: 32.85
Station longitude: -117.12
Station elevation: 137.0
Showalter index: 13.23
Lifted index: 4.67
LIFT computed using virtual temperature: 4.15
SWEAT index: 29.00
K index: -5.50
Cross totals index: 0.50
Vertical totals index: 24.50
Totals totals index: 25.00
Convective Available Potential Energy: 0.00
CAPE using virtual temperature: 0.00
Convective Inhibition: 0.00
CINS using virtual temperature: 0.00
Equilibrium Level: 954.76
Equilibrium Level using virtual temperature: 954.69
Level of Free Convection: 969.41
LFCT using virtual temperature: 969.41
Bulk Richardson Number: 0.00
Bulk Richardson Number using CAPV: 0.00
Temp [K] of the Lifted Condensation Level: 291.11
Pres [hPa] of the Lifted Condensation Level: 969.41
Mean mixed layer potential temperature: 293.72
Mean mixed layer mixing ratio: 13.56
1000 hPa to 500 hPa thickness: 5773.00
Precipitable water [mm] for entire sounding: 19.53

Description of the [data columns](#) or [sounding indices](#).

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Questions about the weather data provided by this site can be addressed to [Larry Oolman \(ldoolman@uwyo.edu\)](mailto:Larry.Oolman@uwyo.edu)
