

72388 VEF Las Vegas Observations at 00Z 01 Jul 2013

PRES	HGHT	TEMP	DWPT	RELH	MIXR	DRCT	SKNT	THTA	THTE	THTV
hPa	m	C	C	%	g/kg	deg	knot	K	K	K
1000.0	-16									
926.0	697	45.0	1.0	7	4.46	225	3	325.2	340.4	326.1
925.0	708	44.6	5.6	10	6.20	220	3	324.9	345.6	326.1
919.0	769	42.8	3.8	9	5.50	251	2	323.7	342.0	324.7
904.6	914	41.4	3.0	10	5.29	325	1	323.7	341.4	324.8
875.0	1219	38.5	1.4	10	4.87	320	3	323.8	340.1	324.8
850.0	1485	36.0	0.0	10	4.52	305	2	323.8	339.1	324.7
817.9	1829	32.7	-1.2	11	4.29	350	8	323.9	338.4	324.7
790.4	2134	29.7	-2.4	12	4.09	355	4	323.9	337.7	324.7
764.0	2438	26.7	-3.5	13	3.89	30	4	323.9	337.1	324.6
761.0	2473	26.4	-3.6	14	3.87	48	4	323.9	337.0	324.6
737.7	2743	23.9	-3.9	15	3.90	190	1	324.0	337.2	324.8
700.0	3199	19.6	-4.4	19	3.96	275	5	324.2	337.6	324.9
662.9	3658	15.1	-5.6	23	3.81	220	10	324.2	337.1	324.9
616.7	4267	9.1	-7.3	31	3.61	230	15	324.1	336.3	324.8
613.0	4318	8.6	-7.4	31	3.60	228	14	324.0	336.3	324.7
601.0	4481	7.8	-10.2	27	2.94	223	12	324.9	335.1	325.5
572.3	4877	4.1	-11.5	31	2.79	210	6	325.2	334.8	325.7
551.1	5182	1.2	-12.5	35	2.68	210	2	325.3	334.6	325.8
522.0	5621	-2.9	-13.9	42	2.52	168	3	325.4	334.2	325.9
500.0	5960	-5.7	-16.7	42	2.08	135	3	326.0	333.4	326.4
491.4	6096	-6.5	-18.4	38	1.83	95	4	326.6	333.1	327.0
480.0	6279	-7.7	-20.7	34	1.54	77	6	327.4	332.9	327.7
475.0	6361	-8.1	-19.1	41	1.79	69	7	327.9	334.3	328.2
463.0	6559	-9.5	-24.5	28	1.14	50	10	328.5	332.7	328.8
454.2	6706	-10.9	-25.3	29	1.08	35	12	328.6	332.6	328.8
433.0	7072	-14.3	-27.3	32	0.95	37	10	328.8	332.3	329.0
402.7	7620	-17.4	-33.2	24	0.58	40	6	331.6	333.9	331.8
400.0	7670	-17.7	-33.7	23	0.56	30	5	331.9	334.1	332.0
380.0	8051	-20.5	-36.5	23	0.44	76	4	333.1	334.9	333.2
335.0	8968	-28.3	-43.3	22	0.25	188	2	334.7	335.7	334.7
326.8	9144	-29.3	-44.7	21	0.22	210	2	335.6	336.5	335.7
313.0	9452	-31.1	-47.1	19	0.18	253	4	337.3	338.1	337.4
300.0	9750	-34.1	-49.1	20	0.15	295	6	337.2	337.8	337.2
250.0	11000	-43.7	-55.7	25	0.08	290	7	341.0	341.3	341.0
232.0	11498	-48.5	-59.5	27	0.05	344	6	341.0	341.3	341.0
200.0	12460	-55.5	-65.5	28	0.03	90	5	344.7	344.9	344.7
171.7	13411	-62.5	-71.7	28	0.01	0	0	348.4	348.5	348.4
166.0	13622	-64.1	-73.1	28	0.01	350	1	349.2	349.3	349.2
163.0	13733	-63.7	-72.7	28	0.01	345	1	351.7	351.8	351.7
159.0	13885	-64.7	-73.7	28	0.01	337	1	352.5	352.6	352.5
150.0	14240	-64.9	-73.9	28	0.01	320	2	358.1	358.1	358.1
133.7	14935	-68.6	-77.6	26	0.01	160	14	363.4	363.4	363.4
131.0	15060	-69.3	-78.3	26	0.01	165	13	364.4	364.4	364.4
127.1	15240	-69.7	-78.7	26	0.01	200	7	366.8	366.9	366.8
119.0	15633	-70.5	-79.5	26	0.01	157	6	372.3	372.3	372.3
111.0	16048	-70.3	-79.3	26	0.01	112	5	380.1	380.2	380.1
109.0	16156	-69.3	-78.3	26	0.01	101	4	384.0	384.1	384.0
105.0	16379	-70.5	-79.5	26	0.01	77	4	385.8	385.9	385.8
100.0	16670	-70.3	-79.3	26	0.01	45	3	391.6	391.7	391.6
96.1	16906	-68.7	-77.7	26	0.01	57	5	399.2	399.3	399.2
88.2	17417	-68.9	-77.9	26	0.01	82	10	408.8	408.8	408.8
82.1	17848	-65.5	-74.5	28	0.02	103	13	424.1	424.3	424.2

76.3	18288	-66.5	-75.5	27	0.02	125	17	430.9	431.1	430.9
73.3	18531	-67.1	-76.1	27	0.02	101	16	434.7	434.9	434.7
72.6	18593	-66.4	-75.7	26	0.02	95	16	437.4	437.5	437.4
70.0	18810	-64.1	-74.1	24	0.02	110	22	446.9	447.1	446.9
69.4	18863	-63.5	-73.5	25	0.03	116	24	449.3	449.5	449.3
69.0	18898	-63.4	-73.4	25	0.03	120	26	450.3	450.5	450.3
65.7	19202	-62.4	-72.3	25	0.03	130	17	458.9	459.1	458.9
64.3	19333	-61.9	-71.9	25	0.04	119	18	462.7	462.9	462.7
63.2	19440	-59.3	-69.3	26	0.05	110	19	470.7	471.1	470.7
62.5	19507	-58.9	-69.4	24	0.05	105	20	473.1	473.4	473.1
61.9	19571	-58.5	-69.5	23	0.05	111	19	475.3	475.6	475.3
59.6	19812	-59.3	-70.3	23	0.05	135	15	478.8	479.1	478.8
57.3	20054	-60.1	-71.1	22	0.05	107	13	482.3	482.6	482.3
56.7	20117	-59.5	-70.5	23	0.05	100	13	485.1	485.5	485.2
55.9	20209	-58.5	-69.5	23	0.06	95	14	489.3	489.7	489.4
54.0	20422	-58.5	-69.5	23	0.06	85	17	494.1	494.5	494.1
51.5	20726	-58.5	-69.5	23	0.06	105	17	501.0	501.4	501.0
51.4	20736	-58.5	-69.5	23	0.06	105	17	501.2	501.7	501.2
50.0	20910	-57.1	-68.1	24	0.08	100	17	508.5	509.0	508.5
47.2	21277	-55.7	-67.7	21	0.09	83	18	520.3	520.9	520.3
46.8	21336	-55.9	-67.9	21	0.09	80	18	521.2	521.8	521.2
43.3	21825	-57.5	-69.5	20	0.08	96	24	528.8	529.4	528.9
42.5	21946	-57.4	-69.4	20	0.08	100	26	531.9	532.5	531.9
38.6	22555	-57.0	-69.0	20	0.09	85	19	547.7	548.4	547.7
37.4	22754	-56.9	-68.9	21	0.10	82	20	553.0	553.7	553.0
33.5	23470	-54.4	-67.5	18	0.13	70	25	577.5	578.5	577.5
30.7	24021	-52.5	-66.5	17	0.16	79	36	597.0	598.3	597.0
30.4	24079	-52.5	-66.5	17	0.16	80	37	598.5	599.9	598.6
30.0	24170	-52.5	-66.5	17	0.17	80	37	600.9	602.3	601.0
29.3	24322	-53.1	-67.1	17	0.16	87	34	603.3	604.6	603.4
29.0	24384	-52.9	-67.1	16	0.16	90	33	605.5	606.8	605.6
26.4	24994	-51.0	-66.7	14	0.18	85	38	627.6	629.1	627.6
26.1	25071	-50.7	-66.7	13	0.19	90	37	630.4	632.0	630.5
25.2	25298	-50.9	-66.9	13	0.19	105	34	636.2	637.8	636.3
23.3	25809	-51.3	-67.3	13	0.19	100	32	649.4	651.1	649.5
20.0	26810	-47.3	-68.3	7	0.19	90	29	690.6	692.5	690.7
19.5	26977	-47.5	-68.5	7	0.19	93	26	695.0	696.9	695.1
19.1	27127	-45.8	-68.0	6	0.21	95	24	704.9	706.9	704.9
18.8	27220	-44.7	-67.7	6	0.22	93	28	711.0	713.2	711.1
18.2	27432	-44.5	-68.5	5	0.21	90	36	718.3	720.4	718.4
16.6	28054	-43.7	-70.7	3	0.17	89	36	740.0	741.7	740.1
14.4	29005	-45.7	-77.7	2	0.07	87	35	764.0	764.7	764.0
13.9	29241	-44.1	-76.1	2	0.09	87	35	777.1	778.1	777.2
12.1	30170	-44.9	-79.9	1	0.06	86	35	805.7	806.4	805.8
11.6	30480	-43.2	-78.2	1	0.08	85	35	822.4	823.3	822.4
11.2	30689	-42.1	-77.1	1	0.09	88	38	833.8	835.0	833.9
10.6	31090	-41.7	-76.7	1	0.11	95	43	849.6	850.9	849.6
10.3	31257	-41.5	-76.5	1	0.11			856.2	857.6	856.3

Station information and sounding indices

Station identifier: VEF
 Station number: 72388
 Observation time: 130701/0000
 Station latitude: 36.05
 Station longitude: -115.18
 Station elevation: 697.0
 Showalter index: 1.57
 Lifted index: 0.60

LIFT computed using virtual temperature: 0.16

SWEAT index: 6.99
 K index: 17.70
 Cross totals index: 5.70
 Vertical totals index: 41.70
 Totals totals index: 47.40
 Convective Available Potential Energy: 101.73
 CAPE using virtual temperature: 139.90
 Convective Inhibition: -96.30
 CINS using virtual temperature: -45.58
 Equilibrium Level: 269.25
 Equilibrium Level using virtual temperature: 268.78
 Level of Free Convection: 453.69
 LFCT using virtual temperature: 462.30
 Bulk Richardson Number: 287.45
 Bulk Richardson Number using CAPV: 395.30
 Temp [K] of the Lifted Condensation Level: 268.49
 Pres [hPa] of the Lifted Condensation Level: 519.04
 Mean mixed layer potential temperature: 323.83
 Mean mixed layer mixing ratio: 5.28
 1000 hPa to 500 hPa thickness: 5976.00
 Precipitable water [mm] for entire sounding: 18.34

72388 VEF Las Vegas Observations at 12Z 01 Jul 2013

PRES	HGHT	TEMP	DWPT	RELH	MIXR	DRCT	SKNT	THTA	THTE	THTV
hPa	m	C	C	%	g/kg	deg	knot	K	K	K
1000.0	15									
929.0	697	34.0	4.0	15	5.52	225	8	313.7	331.4	314.7
925.0	739	36.2	3.2	13	5.23	230	10	316.3	333.3	317.3
922.0	769	36.8	3.8	13	5.48	231	11	317.2	335.1	318.3
907.3	914	35.5	3.0	13	5.25	235	13	317.4	334.5	318.4
890.0	1089	34.0	2.0	13	4.99	246	11	317.6	333.9	318.5
877.2	1219	33.5	1.1	13	4.75	255	10	318.3	333.9	319.2
853.0	1470	32.4	-0.6	12	4.31	246	8	319.8	334.1	320.6
850.0	1502	32.0	0.0	13	4.52	245	8	319.6	334.6	320.5
819.4	1829	28.9	-1.3	14	4.27	200	9	319.7	333.9	320.5
817.0	1855	28.6	-1.4	14	4.25	191	9	319.7	333.8	320.5
797.0	2074	28.2	-2.8	13	3.92	112	7	321.5	334.7	322.3
791.5	2134	27.6	-2.9	13	3.91	90	7	321.6	334.7	322.3
764.3	2438	24.8	-3.6	15	3.86	50	9	321.8	334.8	322.5
737.9	2743	22.0	-4.2	17	3.81	45	8	322.0	334.8	322.7
700.0	3201	17.8	-5.2	20	3.73	35	11	322.2	334.8	322.9
662.8	3658	13.5	-6.2	25	3.65	5	10	322.4	334.7	323.1
639.1	3962	10.6	-6.9	29	3.59	340	11	322.5	334.6	323.2
616.2	4267	7.7	-7.5	33	3.54	350	12	322.5	334.5	323.2
594.1	4572	4.8	-8.2	38	3.49	35	13	322.6	334.4	323.2
594.0	4574	4.8	-8.2	38	3.49	35	13	322.6	334.4	323.2
572.0	4877	2.1	-8.1	47	3.64	45	12	322.9	335.2	323.6
550.7	5182	-0.7	-8.1	57	3.80	55	13	323.1	336.0	323.9
522.0	5611	-4.5	-8.0	77	4.03	44	14	323.5	337.1	324.3
510.2	5791	-5.6	-8.8	78	3.88	40	15	324.3	337.4	325.1
500.0	5950	-6.5	-9.5	79	3.74	50	14	325.1	337.8	325.8
490.6	6096	-7.5	-10.5	79	3.53	50	14	325.6	337.7	326.3
471.6	6401	-9.6	-12.5	80	3.13	60	14	326.7	337.5	327.3
445.0	6847	-12.7	-15.4	80	2.61	55	14	328.2	337.4	328.8
432.0	7073	-13.3	-15.7	82	2.62	52	13	330.3	339.5	330.8
423.0	7232	-15.5	-18.8	76	2.06	50	13	329.4	336.8	329.9

401.6	7620	-18.3	-22.1	72	1.64	45	13	330.8	336.7	331.1
400.0	7650	-18.5	-22.3	72	1.61	45	14	330.9	336.7	331.2
362.0	8387	-23.7	-27.5	71	1.11	59	13	333.5	337.6	333.7
326.0	9143	-29.9	-34.8	62	0.61	73	12	335.1	337.5	335.2
312.0	9455	-32.3	-41.3	40	0.33	80	11	335.9	337.3	336.0
300.0	9730	-34.7	-42.7	44	0.30	85	11	336.4	337.6	336.4
296.0	9824	-35.3	-43.3	44	0.28	72	11	336.8	337.9	336.9
273.0	10383	-40.1	-49.1	38	0.16	354	10	337.7	338.4	337.7
254.0	10873	-43.1	-54.1	29	0.10	285	9	340.3	340.7	340.3
250.0	10980	-43.9	-54.9	28	0.09	270	9	340.7	341.1	340.7
222.0	11767	-50.9	-60.9	29	0.05	291	7	341.7	341.9	341.7
200.0	12440	-56.1	-66.1	27	0.03	310	5	343.8	343.9	343.8
174.0	13308	-63.3	-72.3	29	0.01	288	5	345.9	345.9	345.9
164.0	13670	-65.1	-74.1	28	0.01	279	5	348.7	348.8	348.7
157.0	13935	-65.5	-74.5	28	0.01	272	5	352.4	352.5	352.4
150.0	14210	-67.3	-76.3	27	0.01	265	5	354.0	354.0	354.0
142.0	14539	-69.7	-77.7	30	0.01	304	8	355.4	355.4	355.4
132.0	14974	-71.1	-79.1	30	0.01	355	12	360.4	360.4	360.4
128.0	15157	-70.3	-78.3	30	0.01	14	13	365.0	365.0	365.0
127.0	15203	-68.1	-77.1	27	0.01	19	14	369.8	369.8	369.8
126.0	15251	-67.5	-76.5	27	0.01	23	14	371.7	371.7	371.7
122.0	15446	-66.9	-75.9	27	0.01	43	15	376.2	376.3	376.2
113.0	15907	-69.1	-78.1	26	0.01	90	18	380.4	380.5	380.4
110.0	16068	-69.5	-78.5	26	0.01	107	19	382.6	382.7	382.6
109.0	16123	-68.9	-77.9	26	0.01	112	20	384.8	384.8	384.8
106.0	16290	-69.7	-77.7	30	0.01	129	21	386.3	386.4	386.3
104.0	16404	-69.3	-78.3	26	0.01	141	21	389.2	389.2	389.2
102.0	16520	-67.7	-76.7	27	0.01	153	22	394.4	394.5	394.4
100.0	16640	-67.3	-76.3	27	0.01	165	23	397.4	397.5	397.4
95.7	16904	-68.9	-77.9	26	0.01	150	11	399.3	399.4	399.3
93.1	17069	-68.1	-77.1	27	0.01	140	4	404.1	404.1	404.1
88.5	17374	-66.6	-75.6	27	0.02	75	19	412.9	413.0	412.9
88.1	17401	-66.5	-75.5	27	0.02	77	19	413.7	413.8	413.7
84.1	17678	-67.4	-76.4	27	0.01	95	16	417.3	417.4	417.3
83.0	17760	-67.7	-76.7	27	0.01	94	16	418.4	418.4	418.4
76.1	18288	-66.3	-75.3	27	0.02	85	16	431.9	432.0	431.9
72.3	18593	-65.4	-74.4	28	0.02	70	8	439.9	440.1	439.9
70.0	18790	-64.9	-73.9	28	0.02	55	11	445.2	445.4	445.2
69.2	18860	-64.7	-73.7	28	0.03	55	11	447.1	447.3	447.1
68.8	18898	-64.4	-73.5	28	0.03	55	11	448.6	448.8	448.6
65.6	19189	-61.7	-71.7	25	0.04	98	21	460.5	460.7	460.5
65.5	19202	-61.7	-71.7	25	0.04	100	21	460.7	461.0	460.7
63.3	19411	-62.1	-72.1	25	0.04	97	21	464.4	464.6	464.4
59.8	19765	-59.9	-69.9	26	0.05	91	21	476.9	477.2	476.9
59.4	19812	-60.0	-70.0	26	0.05	90	21	477.7	478.0	477.7
56.5	20117	-60.7	-70.7	26	0.05	100	21	482.9	483.2	482.9
53.8	20422	-61.3	-71.3	25	0.05	60	21	488.2	488.5	488.2
53.1	20506	-61.5	-71.5	25	0.05	67	23	489.6	490.0	489.6
51.2	20726	-61.0	-71.6	23	0.05	85	28	495.7	496.1	495.7
50.0	20880	-60.7	-71.7	22	0.05	85	28	500.0	500.4	500.0
49.9	20892	-60.7	-71.7	22	0.05	86	28	500.3	500.6	500.3
48.8	21031	-59.3	-70.3	23	0.06	100	22	506.7	507.2	506.8
47.4	21214	-57.5	-68.5	23	0.08	94	18	515.4	515.9	515.4
46.5	21336	-57.7	-68.7	23	0.08	90	15	517.8	518.4	517.8
44.3	21641	-58.1	-69.1	23	0.08	85	11	524.0	524.6	524.1
43.1	21812	-58.3	-69.3	23	0.08	85	14	527.6	528.1	527.6
42.2	21946	-57.1	-68.6	22	0.09	85	17	533.8	534.5	533.8
41.5	22051	-56.1	-68.1	21	0.10	99	19	538.8	539.5	538.8
40.2	22250	-55.9	-68.0	21	0.10	125	23	544.2	544.9	544.2
38.4	22555	-55.5	-67.8	20	0.11	105	21	552.6	553.4	552.6
36.5	22860	-55.1	-67.7	20	0.12	90	38	561.1	562.0	561.1

34.8	23165	-54.8	-67.5	19	0.12	100	31	569.8	570.7	569.8
32.6	23589	-54.3	-67.3	19	0.14	86	32	582.0	583.1	582.1
30.2	24079	-55.0	-69.0	16	0.12	70	33	592.9	593.9	593.0
30.0	24120	-55.1	-69.1	16	0.12	75	34	593.8	594.8	593.9
29.6	24206	-55.5	-69.5	16	0.11	75	33	595.0	595.9	595.1
28.8	24384	-54.4	-68.7	15	0.13	75	31	602.9	604.0	603.0
27.5	24677	-52.5	-67.5	15	0.16	77	28	616.0	617.4	616.1
26.2	24994	-52.0	-67.4	14	0.17	80	25	626.1	627.6	626.2
24.0	25558	-51.1	-67.1	13	0.19	86	37	644.5	646.2	644.6
22.7	25908	-51.5	-68.4	12	0.17	90	45	653.3	654.8	653.3
21.2	26362	-52.1	-70.1	10	0.14	90	41	664.8	666.1	664.8
20.0	26740	-50.1	-69.1	9	0.17	90	37	682.1	683.7	682.1
19.8	26806	-49.7	-69.7	8	0.16	90	37	685.2	686.8	685.3
18.0	27432	-48.5	-70.5	6	0.16	95	32	707.8	709.4	707.9
17.2	27737	-48.0	-70.9	5	0.16	90	28	719.0	720.6	719.1
16.4	28042	-47.4	-71.2	5	0.16	70	36	730.4	732.0	730.5
15.5	28418	-46.7	-71.7	4	0.15	82	40	744.8	746.4	744.8
15.0	28651	-45.0	-70.0	4	0.20	90	43	757.8	759.9	757.9
14.5	28864	-43.5	-68.5	5	0.26	91	45	769.8	772.6	769.9
13.1	29566	-41.2	-66.7	5	0.37	95	50	800.9	804.9	801.0
11.9	30205	-39.1	-65.1	5	0.51	99	42	830.1	835.9	830.4
11.4	30480	-39.8	-65.6	5	0.50	100	39	837.3	842.9	837.5
10.0	31390	-42.1	-67.1	5	0.46	100	30	861.3	866.7	861.5
9.6	31699	-42.8	-67.8	5	0.43	95	25	869.8	875.0	870.0
9.4	31808	-43.1	-68.1	5	0.42	93	28	872.8	878.0	873.0
9.1	32027	-41.1	-66.1	5	0.58	88	33	888.6	895.7	888.9
8.3	32651	-42.3	-67.3	5	0.54			907.6	914.3	907.9
8.3	32614	-42.2	-67.2	5	0.54	75	46	906.4	913.2	906.7
8.1	32817	-39.1	-64.1	5	0.85			926.6	937.3	927.1

Station information and sounding indices

Station identifier: VEF
 Station number: 72388
 Observation time: 130701/1200
 Station latitude: 36.05
 Station longitude: -115.18
 Station elevation: 697.0
 Showalter index: 2.69
 Lifted index: 2.91

LIFT computed using virtual temperature: 2.91
 SWEAT index: 30.01
 K index: 15.50
 Cross totals index: 6.50
 Vertical totals index: 38.50
 Totals totals index: 45.00

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: 269.37

Pres [hPa] of the Lifted Condensation Level: 564.03

Mean mixed layer potential temperature: 317.26

Mean mixed layer mixing ratio: 5.18

1000 hPa to 500 hPa thickness: 5935.00

Precipitable water [mm] for entire sounding: 21.54

72388 VEF Las Vegas Observations at 00Z 02 Jul 2013

PRES	HGHT	TEMP	DWPT	RELH	MIXR	DRCT	SKNT	THTA	THTE	THTV
hPa	m	C	C	%	g/kg	deg	knot	K	K	K
1000.0	4									
928.0	697	44.4	7.4	11	7.00	75	2	324.4	347.6	325.8
925.0	728	43.8	2.8	8	5.09	85	2	324.1	341.2	325.1
906.6	914	40.3	3.3	10	5.37	65	3	322.3	340.2	323.4
902.0	961	39.4	3.4	11	5.44	63	3	321.9	340.0	323.0
876.8	1219	36.9	2.8	12	5.38	50	4	321.9	339.8	323.0
850.0	1501	34.2	2.2	13	5.30	100	8	322.0	339.6	323.0
841.0	1597	33.2	2.2	14	5.36	116	8	321.9	339.7	322.9
819.1	1829	31.0	1.8	15	5.34	155	8	322.0	339.8	323.1
791.1	2134	28.1	1.2	18	5.32	145	6	322.2	339.8	323.2
764.2	2438	25.3	0.7	20	5.30	130	9	322.3	339.9	323.3
738.1	2743	22.4	0.2	23	5.27	170	11	322.4	339.9	323.4
703.0	3171	18.4	-0.6	28	5.24	179	10	322.4	339.8	323.4
700.0	3208	18.2	-0.8	28	5.18	180	10	322.6	339.9	323.6
663.8	3658	14.5	-5.3	25	3.91	130	4	323.3	336.6	324.1
652.0	3810	13.2	-6.8	24	3.54	114	5	323.6	335.6	324.3
616.9	4267	8.9	-9.0	27	3.16	65	7	323.8	334.7	324.5
572.9	4877	3.3	-11.9	32	2.70	70	11	324.1	333.4	324.6
571.0	4904	3.0	-12.0	32	2.68	71	11	324.1	333.4	324.6
543.0	5309	-0.9	-9.9	50	3.34	86	10	324.1	335.5	324.8
513.0	5759	-5.3	-13.3	53	2.69	102	9	324.1	333.4	324.7
500.0	5960	-6.3	-20.3	32	1.53	110	8	325.3	330.8	325.6
496.0	6023	-6.9	-20.9	32	1.47	110	8	325.3	330.6	325.6
491.3	6096	-7.4	-20.4	35	1.54	110	9	325.5	331.1	325.8
482.0	6245	-8.5	-19.5	41	1.70	107	9	326.0	332.1	326.4
455.0	6688	-12.1	-24.1	36	1.20	98	11	326.9	331.3	327.1
452.0	6739	-12.3	-24.3	36	1.19	98	11	327.3	331.6	327.5
449.0	6790	-12.1	-32.1	17	0.58	97	11	328.2	330.4	328.3
442.0	6909	-12.7	-34.7	14	0.46	94	12	328.9	330.6	329.0
407.0	7531	-18.3	-38.3	16	0.35	82	14	329.5	330.9	329.6
402.2	7620	-18.7	-38.7	15	0.34	80	14	330.1	331.4	330.1
400.0	7660	-18.9	-38.9	15	0.33	80	14	330.3	331.6	330.4
388.0	7887	-19.1	-44.1	9	0.20	79	14	333.0	333.8	333.0
369.0	8259	-22.1	-39.1	20	0.35	79	15	333.8	335.2	333.9
300.0	9750	-33.3	-50.3	17	0.13	75	17	338.3	338.9	338.4
299.8	9754	-33.3	-50.4	16	0.13	70	19	338.3	338.9	338.4
291.0	9963	-34.9	-52.9	14	0.10	72	17	339.0	339.4	339.0
274.4	10363	-38.1	-55.0	15	0.08	75	12	340.0	340.4	340.1
262.4	10668	-40.6	-56.6	16	0.07	105	12	340.8	341.1	340.8
251.0	10973	-43.1	-58.2	17	0.06	100	15	341.5	341.8	341.5
250.0	11000	-43.3	-58.3	18	0.06	105	15	341.6	341.8	341.6
228.9	11582	-48.3	-61.6	20	0.04	115	6	342.7	342.9	342.7
213.0	12056	-52.3	-64.3	22	0.03	104	10	343.6	343.7	343.6
200.0	12460	-55.1	-67.1	21	0.02	95	14	345.4	345.5	345.4
168.0	13555	-63.3	-73.3	25	0.01	104	18	349.3	349.4	349.3
163.7	13716	-63.5	-73.5	25	0.01	105	19	351.7	351.7	351.7
163.0	13741	-63.5	-73.5	25	0.01	106	19	352.0	352.1	352.0
158.0	13932	-64.7	-74.7	24	0.01	116	17	353.1	353.2	353.1
156.0	14010	-64.1	-74.1	24	0.01	119	16	355.5	355.5	355.5
155.7	14021	-64.2	-74.2	24	0.01	120	16	355.5	355.6	355.5
153.0	14129	-64.9	-74.9	24	0.01	118	12	356.1	356.1	356.1
152.0	14169	-64.1	-74.1	24	0.01	117	11	358.1	358.2	358.1
150.0	14250	-64.7	-74.7	24	0.01	115	8	358.4	358.5	358.4

148.1	14326	-65.1	-75.1	24	0.01	105	11	359.1	359.1	359.1
145.0	14457	-65.7	-75.7	24	0.01	73	9	360.2	360.2	360.2
138.0	14755	-68.3	-78.3	23	0.01	360	5	360.7	360.8	360.7
133.9	14935	-69.1	-79.1	22	0.01	315	2	362.4	362.5	362.4
127.2	15240	-70.4	-80.4	22	0.00	75	10	365.3	365.4	365.3
126.0	15298	-70.7	-80.7	22	0.00	80	10	365.9	365.9	365.9
120.9	15545	-70.1	-80.1	22	0.01	80	19	371.3	371.3	371.3
117.0	15739	-69.7	-79.7	22	0.01	83	19	375.6	375.6	375.6
114.0	15894	-67.9	-77.9	23	0.01	85	18	381.7	381.8	381.7
112.0	16001	-68.3	-78.3	23	0.01	86	18	382.9	382.9	382.9
110.0	16109	-67.5	-77.5	23	0.01	87	18	386.4	386.4	386.4
104.0	16445	-69.5	-79.5	22	0.01	92	17	388.8	388.9	388.8
100.0	16680	-68.1	-78.1	23	0.01	95	17	395.9	395.9	395.9
92.4	17155	-67.9	-77.9	23	0.01	85	7	405.3	405.4	405.3
89.1	17374	-66.0	-76.5	22	0.01	80	3	413.2	413.3	413.2
85.5	17626	-63.9	-74.9	21	0.02	77	6	422.5	422.6	422.5
80.9	17965	-63.3	-74.3	21	0.02	74	9	430.4	430.6	430.5
76.7	18288	-64.1	-75.1	21	0.02	70	13	435.3	435.4	435.3
73.0	18593	-64.9	-75.9	21	0.02	85	10	440.0	440.1	440.0
70.0	18850	-65.5	-76.5	20	0.02	65	17	443.9	444.0	443.9
69.5	18898	-65.7	-76.7	20	0.02	65	17	444.6	444.7	444.6
68.6	18972	-65.9	-76.9	20	0.02	69	19	445.6	445.7	445.6
66.1	19202	-65.0	-76.0	21	0.02	80	27	452.4	452.5	452.4
65.7	19235	-64.9	-75.9	21	0.02	81	26	453.3	453.5	453.3
62.9	19507	-61.3	-72.9	20	0.03	85	20	467.0	467.2	467.1
61.2	19673	-59.1	-71.1	20	0.04	88	21	475.5	475.8	475.5
57.0	20119	-57.5	-69.5	20	0.06	95	22	488.9	489.3	488.9
57.0	20117	-57.5	-69.5	20	0.06	95	22	488.8	489.2	488.9
54.3	20422	-58.4	-70.4	20	0.05	150	11	493.6	493.9	493.6
51.7	20726	-59.4	-71.4	20	0.05	115	6	498.3	498.6	498.3
50.3	20903	-59.9	-71.9	19	0.05	82	12	501.0	501.4	501.1
50.0	20940	-59.9	-71.9	19	0.05	75	13	501.9	502.2	501.9
49.3	21031	-59.6	-71.7	20	0.05	75	13	504.6	504.9	504.6
47.2	21301	-58.9	-70.9	20	0.06	75	17	512.6	513.0	512.6
46.9	21336	-59.0	-71.0	20	0.06	75	17	513.2	513.6	513.2
44.4	21684	-59.9	-71.9	19	0.05	89	19	519.2	519.6	519.2
42.6	21946	-58.3	-70.7	19	0.06	100	20	529.3	529.8	529.3
40.2	22311	-56.1	-69.1	18	0.09	94	30	543.7	544.3	543.7
38.7	22555	-57.0	-70.0	18	0.08	90	36	547.5	548.1	547.5
37.8	22702	-57.5	-70.5	18	0.08	88	35	549.8	550.4	549.8
35.1	23165	-55.7	-69.2	17	0.10	80	32	566.0	566.8	566.1
33.5	23470	-54.5	-68.3	17	0.12	95	38	577.0	577.9	577.1
32.5	23665	-53.7	-67.7	16	0.13	92	34	584.1	585.2	584.2
31.9	23774	-53.7	-68.0	16	0.13	90	32	586.9	587.9	586.9
30.5	24079	-53.9	-68.7	15	0.12	110	34	594.5	595.5	594.6
30.0	24180	-53.9	-68.9	14	0.12	110	34	597.1	598.1	597.1
29.1	24384	-54.0	-69.0	14	0.12	110	31	602.2	603.2	602.2
27.7	24689	-54.2	-69.2	14	0.12	105	23	609.9	610.9	609.9
26.4	24994	-54.4	-69.4	14	0.13	85	28	617.7	618.7	617.7
26.0	25097	-54.5	-69.5	14	0.13	90	28	620.3	621.4	620.4
25.2	25298	-52.7	-68.8	13	0.14	100	27	631.1	632.4	631.2
23.9	25643	-49.5	-67.5	10	0.18	86	32	650.0	651.6	650.0
22.9	25908	-49.4	-67.9	10	0.18	75	35	657.8	659.4	657.9
21.9	26213	-49.3	-68.3	9	0.18	85	43	666.9	668.5	667.0
20.0	26822	-49.1	-69.1	8	0.17	80	32	685.5	687.2	685.6
20.0	26810	-49.1	-69.1	8	0.17	85	33	685.1	686.8	685.2
18.2	27432	-48.2	-70.0	6	0.17	85	34	706.6	708.2	706.6
17.9	27539	-48.1	-70.1	6	0.17	87	34	710.3	712.0	710.4
17.4	27737	-47.0	-70.1	5	0.17	90	34	719.9	721.7	720.0
16.5	28079	-45.1	-70.1	4	0.18	87	35	736.8	738.6	736.8
14.5	28956	-45.1	-71.9	3	0.16	80	38	764.9	766.7	765.0

14.3	29034	-45.1	-72.1	3	0.16	82	38	767.5	769.2	767.6
12.9	29727	-41.9	-69.9	3	0.24	101	42	801.5	804.2	801.6
12.6	29870	-42.0	-70.2	3	0.23	105	43	806.2	808.8	806.3
11.9	30273	-42.1	-71.1	3	0.22	102	36	819.5	822.0	819.6
11.5	30480	-40.5	-71.0	2	0.23	100	33	832.3	835.0	832.4
11.4	30565	-39.9	-70.9	2	0.24	100	34	837.5	840.3	837.6
10.0	31460	-39.5	-71.5	2	0.25	95	46	871.0	874.0	871.1
9.2	32004	-40.5	-73.4	2	0.20	80	50	887.1	889.7	887.3
9.1	32103	-40.7	-73.7	2	0.20			890.1	892.6	890.2

Station information and sounding indices

Station identifier: VEF
 Station number: 72388
 Observation time: 130702/0000
 Station latitude: 36.05
 Station longitude: -115.18
 Station elevation: 697.0
 Showalter index: 0.77
 Lifted index: 0.41

LIFT computed using virtual temperature: -0.09

SWEAT index: 50.41

K index: 23.70

Cross totals index: 8.50

Vertical totals index: 40.50

Totals totals index: 49.00

Convective Available Potential Energy: 60.58

CAPE using virtual temperature: 93.37

Convective Inhibition: -93.95

CINS using virtual temperature: -59.41

Equilibrium Level: 365.03

Equilibrium Level using virtual temperature: 346.59

Level of Free Convection: 482.51

LFCT using virtual temperature: 514.25

Bulk Richardson Number: 20.21

Bulk Richardson Number using CAPV: 31.15

Temp [K] of the Lifted Condensation Level: 269.03

Pres [hPa] of the Lifted Condensation Level: 529.86

Mean mixed layer potential temperature: 322.56

Mean mixed layer mixing ratio: 5.38

1000 hPa to 500 hPa thickness: 5956.00

Precipitable water [mm] for entire sounding: 20.48

72388 VEF Las Vegas Observations at 12Z 02 Jul 2013

PRES	HGHT	TEMP	DWPT	RELH	MIXR	DRCT	SKNT	THTA	THTE	THTV
hPa	m	C	C	%	g/kg	deg	knot	K	K	K
1000.0	31									
931.0	697	32.2	6.2	20	6.42	0	3	311.6	332.0	312.9
925.0	751	33.8	4.8	16	5.86	25	1	313.9	332.6	315.0
924.0	761	33.8	4.8	16	5.87	29	1	314.0	332.8	315.1
910.0	899	35.8	4.8	15	5.96	84	2	317.4	336.7	318.5
908.5	914	35.7	4.7	15	5.93	90	2	317.4	336.7	318.6
878.2	1219	33.8	2.8	14	5.34	345	6	318.5	336.0	319.5
858.0	1429	32.4	1.4	14	4.96	345	10	319.2	335.6	320.2
850.0	1513	31.6	0.6	14	4.72	345	12	319.2	334.8	320.1

819.8	1829	29.0	0.0	15	4.70	350	9	319.8	335.4	320.7
791.7	2134	26.5	-0.5	17	4.68	15	5	320.3	335.8	321.2
764.6	2438	24.0	-1.0	19	4.66	25	8	320.8	336.3	321.7
738.4	2743	21.4	-1.6	21	4.64	20	9	321.3	336.7	322.2
700.0	3210	17.6	-2.4	25	4.60	355	12	321.9	337.3	322.8
665.0	3645	14.0	-4.0	28	4.30	48	6	322.6	337.1	323.5
664.0	3658	13.9	-4.0	29	4.29	50	6	322.7	337.1	323.5
616.2	4267	8.3	-5.9	36	4.02	100	7	323.2	336.8	324.0
571.9	4877	2.8	-7.7	46	3.76	140	10	323.7	336.4	324.4
523.0	5607	-3.9	-9.9	63	3.47	110	14	324.0	335.8	324.7
500.0	5960	-7.3	-10.3	79	3.51	95	16	324.1	336.0	324.8
493.0	6069	-8.5	-10.5	85	3.51	99	15	323.9	335.8	324.6
491.3	6096	-8.7	-11.0	83	3.39	100	15	324.0	335.5	324.7
486.0	6180	-9.3	-12.5	78	3.03	100	16	324.3	334.6	324.9
472.1	6401	-11.3	-14.4	78	2.66	100	18	324.4	333.6	325.0
453.6	6706	-14.1	-17.1	78	2.22	110	15	324.7	332.4	325.1
451.0	6751	-14.5	-17.5	78	2.16	111	15	324.7	332.3	325.1
447.0	6818	-14.5	-23.5	46	1.29	114	15	325.6	330.2	325.8
436.0	7006	-15.5	-29.5	29	0.77	120	15	326.6	329.5	326.8
420.0	7286	-17.3	-28.3	38	0.89	129	15	327.8	331.1	328.0
410.0	7466	-17.1	-31.1	29	0.70	135	15	330.3	333.0	330.5
401.6	7620	-18.3	-32.3	28	0.64	140	15	330.8	333.2	330.9
400.0	7650	-18.5	-32.5	28	0.63	145	16	330.9	333.3	331.0
385.5	7925	-19.8	-34.7	25	0.53	125	15	332.7	334.8	332.8
384.0	7954	-19.9	-34.9	25	0.52	126	15	332.9	334.9	333.0
354.8	8534	-24.1	-37.0	29	0.45	140	13	334.9	336.6	334.9
343.0	8783	-25.9	-37.9	32	0.43	134	14	335.7	337.4	335.8
326.1	9144	-28.7	-40.7	31	0.34	125	16	336.7	338.1	336.8
300.0	9740	-33.3	-45.3	29	0.22	115	12	338.3	339.3	338.4
284.0	10122	-36.1	-48.1	28	0.17	103	12	339.6	340.4	339.7
274.2	10363	-38.4	-49.9	29	0.15	95	12	339.8	340.4	339.9
261.0	10700	-41.5	-52.5	29	0.11	98	12	340.0	340.5	340.0
250.6	10973	-43.8	-54.8	29	0.09	100	12	340.6	341.0	340.6
250.0	10990	-43.9	-54.9	28	0.09	95	12	340.7	341.1	340.7
228.4	11582	-48.9	-59.1	29	0.06	55	13	341.9	342.2	341.9
208.0	12192	-54.1	-63.5	31	0.04	125	10	343.0	343.2	343.0
200.0	12450	-56.3	-65.3	31	0.03	145	11	343.4	343.6	343.5
199.0	12482	-56.7	-65.7	31	0.03	155	11	343.3	343.4	343.3
198.5	12497	-56.8	-65.8	31	0.03	160	11	343.4	343.6	343.4
191.0	12741	-57.9	-66.9	31	0.02	112	13	345.4	345.6	345.4
189.2	12802	-57.6	-66.6	31	0.03	100	13	346.8	347.0	346.8
187.0	12874	-57.3	-66.3	31	0.03	92	14	348.5	348.6	348.5
180.2	13106	-59.5	-67.8	33	0.02	65	17	348.5	348.6	348.5
178.0	13183	-60.3	-68.3	34	0.02	66	17	348.5	348.6	348.5
177.0	13218	-60.1	-68.1	34	0.02	67	17	349.4	349.5	349.4
171.6	13411	-61.5	-69.5	34	0.02	70	18	350.2	350.3	350.2
170.0	13468	-61.9	-69.9	34	0.02	77	17	350.5	350.6	350.5
166.0	13615	-61.7	-69.7	34	0.02	95	13	353.2	353.3	353.2
164.0	13691	-60.7	-68.7	34	0.02	104	11	356.1	356.2	356.1
161.0	13805	-61.1	-69.1	34	0.02	118	8	357.3	357.4	357.3
155.4	14021	-62.9	-70.9	33	0.02	145	3	357.9	358.0	357.9
150.0	14240	-64.7	-72.7	32	0.01	175	4	358.4	358.5	358.4
137.0	14789	-68.7	-76.7	31	0.01	142	6	360.8	360.8	360.8
133.0	14967	-69.7	-77.7	30	0.01	132	6	362.1	362.1	362.1
128.0	15195	-69.5	-77.5	30	0.01	118	7	366.4	366.4	366.4
127.0	15240	-69.7	-77.7	30	0.01	115	7	366.8	366.9	366.8
120.7	15545	-71.1	-79.1	30	0.01	135	3	369.7	369.7	369.7
119.0	15629	-71.5	-79.5	30	0.01	195	5	370.4	370.5	370.4
114.6	15850	-71.9	-79.9	29	0.01	55	11	373.7	373.8	373.7
112.0	15987	-72.1	-80.1	29	0.01	60	16	375.8	375.8	375.8
108.9	16154	-71.7	-79.7	29	0.01	65	23	379.7	379.7	379.7

105.0	16369	-71.1	-79.1	30	0.01	54	19	384.7	384.7	384.7
100.0	16660	-68.5	-76.5	31	0.01	40	14	395.1	395.2	395.1
98.1	16775	-65.9	-73.9	32	0.02	46	17	402.3	402.4	402.3
93.6	17061	-64.5	-72.5	32	0.02	60	24	410.5	410.7	410.5
88.9	17374	-65.5	-73.5	32	0.02	75	31	414.6	414.8	414.7
87.9	17442	-65.7	-73.7	32	0.02	82	29	415.6	415.7	415.6
84.6	17678	-65.1	-73.1	32	0.02	105	20	421.3	421.4	421.3
80.4	17983	-64.4	-72.4	33	0.03	145	4	428.9	429.0	428.9
76.5	18288	-63.7	-71.7	33	0.03	95	13	436.5	436.7	436.5
75.4	18376	-63.5	-71.5	33	0.03	96	13	438.8	439.0	438.8
72.8	18593	-64.1	-72.1	33	0.03	100	13	442.0	442.2	442.0
70.3	18804	-64.7	-72.7	32	0.03	64	13	445.1	445.3	445.1
70.0	18830	-64.7	-72.7	32	0.03	60	13	445.6	445.8	445.6
69.2	18898	-64.6	-72.6	32	0.03	60	14	447.2	447.4	447.2
65.9	19202	-64.2	-72.2	33	0.03	85	20	454.5	454.7	454.5
62.7	19507	-63.8	-71.8	33	0.04	55	20	461.9	462.2	461.9
60.7	19706	-63.5	-71.5	33	0.04	81	19	466.8	467.1	466.8
59.7	19812	-63.9	-71.9	33	0.04	95	19	468.2	468.5	468.2
57.2	20071	-64.9	-72.9	32	0.03	65	22	471.6	471.9	471.6
56.8	20117	-64.6	-72.7	32	0.04	60	23	473.3	473.6	473.3
54.0	20422	-62.7	-71.6	29	0.04	75	29	484.5	484.9	484.6
53.8	20448	-62.5	-71.5	29	0.05	76	29	485.5	485.8	485.5
52.8	20565	-59.7	-68.7	30	0.07	78	27	494.6	495.1	494.6
50.0	20910	-55.7	-64.7	32	0.13	85	21	511.8	512.7	511.8
49.8	20935	-55.5	-64.5	32	0.13	86	21	512.8	513.8	512.9
46.8	21336	-56.8	-65.8	31	0.12	95	22	519.0	519.8	519.0
45.3	21535	-57.5	-66.5	31	0.11	105	19	522.1	522.8	522.1
44.5	21641	-57.1	-66.3	30	0.12	110	17	525.5	526.3	525.5
42.5	21946	-56.0	-65.7	29	0.13	95	15	535.4	536.4	535.4
40.7	22214	-55.1	-65.1	28	0.15	104	19	544.3	545.4	544.3
40.5	22250	-55.2	-65.2	28	0.15	105	20	545.0	546.1	545.0
38.6	22555	-55.7	-65.7	28	0.14	85	15	551.3	552.4	551.3
36.8	22860	-56.2	-66.2	27	0.14	75	26	557.6	558.7	557.6
34.9	23190	-56.7	-66.7	27	0.14	73	26	564.5	565.6	564.6
31.8	23774	-56.1	-66.1	27	0.17	70	27	581.2	582.5	581.3
30.3	24079	-55.8	-65.8	28	0.18	90	29	590.1	591.6	590.2
30.0	24150	-55.7	-65.7	28	0.19	85	29	592.2	593.7	592.3
28.9	24384	-55.6	-65.6	28	0.19	70	34	598.7	600.3	598.8
26.0	25062	-55.3	-65.3	28	0.23	81	38	618.0	619.9	618.1
25.1	25298	-53.8	-63.8	28	0.29	85	39	628.9	631.3	629.0
25.0	25313	-53.7	-63.7	28	0.29	85	40	629.6	632.1	629.7
24.2	25524	-49.9	-60.9	26	0.43	78	46	646.5	650.2	646.7
23.9	25603	-49.9	-60.9	26	0.44	75	49	648.7	652.5	648.9
22.8	25908	-49.9	-60.9	26	0.46	90	50	657.4	661.4	657.6
20.6	26577	-49.9	-60.9	26	0.51	102	42	676.9	681.5	677.1
20.0	26770	-49.3	-60.3	26	0.57	105	40	684.5	689.6	684.7
18.9	27127	-47.0	-58.6	26	0.75	110	32	702.2	709.0	702.5
18.1	27432	-45.1	-57.1	25	0.94	105	28	717.5	726.3	717.9
18.1	27432	-45.1	-57.1	25	0.94	105	28	717.5	726.3	717.9
15.8	28346	-46.5	-58.5	24	0.91	100	24	741.8	750.5	742.1
15.1	28651	-46.9	-58.9	24	0.90	90	36	750.2	759.1	750.6
15.1	28640	-46.9	-58.9	24	0.90	90	36	749.7	758.5	750.1
13.3	29489	-43.1	-56.1	23	1.45	90	38	790.4	805.2	791.1
11.9	30239	-43.9	-56.9	22	1.46	90	40	813.1	828.6	813.8
11.5	30480	-42.5	-55.9	22	1.72	90	41	826.6	845.0	827.5
11.0	30772	-40.7	-54.7	21	2.07	90	42	843.2	865.8	844.3
10.0	31420	-42.5	-56.5	20	1.83	90	43	859.8	880.2	860.7
9.7	31626	-42.7	-56.7	20	1.84	86	47	866.5	887.3	867.5
9.6	31699	-42.3	-56.3	20	1.96	85	49	870.8	892.9	871.8
9.2	31985	-40.7	-54.7	21	2.48			887.4	915.8	888.7

Station information and sounding indices

Station identifier: VEF
Station number: 72388
Observation time: 130702/1200
Station latitude: 36.05
Station longitude: -115.18
Station elevation: 697.0
Showalter index: 1.80
Lifted index: 1.58

LIFT computed using virtual temperature: 1.52
SWEAT index: 47.22
K index: 19.50
Cross totals index: 7.90
Vertical totals index: 38.90
Totals totals index: 46.80
Convective Available Potential Energy: 1.66
CAPE using virtual temperature: 3.82
Convective Inhibition: -711.12
CINS using virtual temperature: -674.00
Equilibrium Level: 447.14
Equilibrium Level using virtual temperature: 436.97
Level of Free Convection: 461.62
LFCT using virtual temperature: 464.07
Bulk Richardson Number: 0.72
Bulk Richardson Number using CAPV: 1.66
Temp [K] of the Lifted Condensation Level: 271.30
Pres [hPa] of the Lifted Condensation Level: 582.65
Mean mixed layer potential temperature: 316.60
Mean mixed layer mixing ratio: 5.80
1000 hPa to 500 hPa thickness: 5929.00
Precipitable water [mm] for entire sounding: 22.39

72388 VEF Las Vegas Observations at 00Z 03 Jul 2013

PRES	HGHT	TEMP	DWPT	RELH	MIXR	DRCT	SKNT	THTA	THTE	THTV
hPa	m	C	C	%	g/kg	deg	knot	K	K	K
1000.0	5									
928.0	697	45.0	5.0	9	5.93	200	10	325.0	344.9	326.2
925.0	728	44.2	8.2	12	7.43	215	10	324.5	349.1	325.9
912.0	859	40.8	5.8	12	6.38	243	11	322.3	343.4	323.6
906.6	914	40.2	5.2	12	6.15	255	12	322.2	342.6	323.4
898.0	1002	39.2	4.2	12	5.79	254	12	322.1	341.3	323.2
876.8	1219	37.1	3.0	12	5.44	250	12	322.1	340.2	323.2
850.0	1502	34.4	1.4	12	5.01	245	10	322.2	338.9	323.1
818.9	1829	31.2	0.4	14	4.82	255	11	322.3	338.4	323.2
791.0	2134	28.3	-0.6	15	4.65	285	11	322.4	337.9	323.3
764.1	2438	25.4	-1.6	17	4.49	285	10	322.4	337.4	323.3
738.0	2743	22.5	-2.5	19	4.32	300	9	322.4	336.9	323.3
700.0	3207	18.0	-4.0	22	4.08	290	6	322.4	336.1	323.2
663.7	3658	13.7	-5.4	26	3.88	35	2	322.5	335.6	323.2
663.0	3667	13.6	-5.4	26	3.88	35	2	322.5	335.6	323.2
638.0	3989	10.8	-6.2	30	3.79	35	8	322.9	335.7	323.6
618.0	4254	9.2	-11.8	21	2.52	35	13	324.0	332.7	324.5
617.0	4267	9.1	-11.9	21	2.49	35	13	324.0	332.6	324.5
594.4	4572	6.4	-15.4	19	1.96	40	21	324.4	331.2	324.7

572.6	4877	3.7	-18.8	17	1.52	35	20	324.7	330.1	325.0
559.0	5074	2.0	-21.0	16	1.29	25	21	324.9	329.6	325.1
551.4	5182	1.1	-21.2	17	1.28	20	22	325.0	329.6	325.3
510.8	5791	-4.3	-22.6	23	1.23	25	28	325.7	330.2	326.0
508.0	5835	-4.7	-22.7	23	1.22	25	28	325.8	330.2	326.0
500.0	5960	-5.9	-22.9	25	1.22	25	27	325.8	330.2	326.0
498.0	5991	-6.1	-23.1	25	1.20	26	27	325.9	330.3	326.1
491.4	6096	-6.5	-29.4	14	0.68	30	27	326.7	329.2	326.8
488.0	6150	-6.7	-32.7	11	0.50	30	26	327.1	329.0	327.2
472.4	6401	-8.5	-33.9	11	0.46	30	24	327.9	329.7	328.0
460.0	6608	-9.9	-34.9	11	0.43	25	20	328.6	330.3	328.7
454.0	6709	-9.9	-36.9	9	0.36	22	17	329.9	331.3	329.9
436.3	7010	-12.3	-38.6	9	0.31	15	11	330.6	331.9	330.7
402.6	7620	-17.1	-42.2	9	0.23	15	5	332.0	333.0	332.1
400.0	7670	-17.5	-42.5	9	0.23	15	6	332.2	333.1	332.2
395.0	7764	-18.5	-43.5	9	0.21	17	7	332.1	332.9	332.1
376.0	8130	-20.3	-46.3	8	0.16	27	8	334.4	335.1	334.4
326.7	9144	-28.3	-51.1	9	0.11	55	14	337.1	337.6	337.1
313.2	9449	-30.7	-52.6	10	0.09	40	12	337.9	338.3	337.9
300.0	9760	-33.1	-54.1	10	0.08	55	14	338.6	339.0	338.6
287.2	10058	-35.6	-55.2	12	0.07	70	16	339.2	339.6	339.2
262.8	10668	-40.8	-57.4	15	0.06	80	11	340.4	340.7	340.4
250.0	11010	-43.7	-58.7	17	0.06	65	12	341.0	341.2	341.0
231.0	11536	-48.5	-62.5	18	0.04	50	11	341.4	341.6	341.5
218.8	11887	-51.1	-64.3	19	0.03	40	10	342.8	343.0	342.8
200.0	12470	-55.3	-67.3	21	0.02	85	10	345.0	345.1	345.0
199.2	12497	-55.5	-67.5	21	0.02	65	13	345.1	345.2	345.1
198.0	12534	-55.9	-67.9	21	0.02	66	13	345.1	345.2	345.1
187.0	12897	-57.1	-69.1	20	0.02	71	13	348.8	348.9	348.8
172.2	13411	-61.2	-72.7	20	0.01	80	14	350.3	350.4	350.4
158.0	13944	-65.5	-76.5	20	0.01	41	8	351.8	351.8	351.8
156.0	14021	-65.7	-76.4	21	0.01	35	7	352.7	352.8	352.7
152.0	14180	-66.1	-76.1	23	0.01	45	10	354.7	354.7	354.7
150.0	14260	-66.9	-76.9	23	0.01	50	12	354.6	354.7	354.6
148.4	14326	-67.3	-77.3	23	0.01	55	13	355.1	355.1	355.1
144.0	14505	-68.3	-78.3	23	0.01	45	15	356.4	356.4	356.4
141.0	14630	-68.4	-78.4	23	0.01	45	18	358.3	358.3	358.3
134.0	14935	-68.8	-78.8	22	0.01	85	26	362.9	363.0	363.0
131.0	15071	-68.9	-78.9	22	0.01	83	23	365.1	365.1	365.1
129.0	15163	-68.1	-78.1	23	0.01	81	22	368.1	368.1	368.1
127.3	15240	-68.7	-78.7	22	0.01	80	20	368.4	368.4	368.4
124.0	15399	-69.9	-79.9	22	0.01	67	22	369.0	369.1	369.0
121.0	15545	-70.3	-80.3	22	0.01	55	24	371.0	371.0	371.0
119.0	15643	-70.5	-80.5	22	0.01	61	21	372.3	372.3	372.3
117.0	15744	-70.1	-80.1	22	0.01	66	17	374.8	374.9	374.8
113.0	15950	-71.1	-81.1	22	0.00	78	11	376.7	376.7	376.7
110.0	16109	-70.9	-80.9	22	0.01	87	5	380.0	380.0	380.0
109.2	16154	-68.6	-78.6	23	0.01	90	4	385.2	385.2	385.2
109.0	16163	-68.1	-78.1	23	0.01	90	4	386.3	386.3	386.3
108.0	16219	-67.9	-77.9	23	0.01	90	7	387.7	387.7	387.7
100.0	16680	-68.3	-78.3	23	0.01	90	29	395.5	395.6	395.5
90.3	17292	-69.1	-79.1	22	0.01	112	6	405.6	405.7	405.6
89.1	17374	-68.6	-78.8	22	0.01	115	3	408.2	408.2	408.2
84.7	17678	-66.8	-77.7	20	0.01	65	20	417.7	417.8	417.7
83.9	17734	-66.5	-77.5	20	0.01	69	19	419.5	419.6	419.5
80.5	17983	-68.5	-78.6	22	0.01	85	15	420.4	420.5	420.4
80.1	18014	-68.7	-78.7	22	0.01	83	15	420.6	420.6	420.6
77.5	18212	-68.3	-78.3	23	0.01	66	14	425.4	425.4	425.4
76.5	18288	-67.5	-77.7	22	0.01	60	14	428.7	428.8	428.7
73.9	18499	-65.1	-76.1	21	0.02	74	12	437.9	438.0	437.9
72.8	18593	-65.2	-76.2	20	0.02	80	11	439.7	439.9	439.8

70.0	18830	-65.3	-76.3	20	0.02	70	22	444.4	444.5	444.4
69.2	18898	-65.1	-76.1	21	0.02	70	26	446.2	446.3	446.2
68.5	18962	-64.9	-75.9	21	0.02	74	24	448.0	448.1	448.0
67.2	19079	-62.7	-73.7	21	0.03	82	20	455.2	455.4	455.2
65.9	19202	-61.9	-73.1	21	0.03	90	16	459.6	459.8	459.6
62.7	19507	-59.8	-71.7	20	0.04	55	16	470.6	470.8	470.6
61.9	19588	-59.3	-71.3	20	0.04	62	19	473.5	473.8	473.5
59.7	19812	-59.1	-71.1	20	0.04	80	27	478.9	479.2	478.9
56.4	20171	-58.7	-70.7	20	0.05	101	21	487.6	488.0	487.7
55.7	20249	-57.3	-70.3	18	0.05	105	20	492.6	492.9	492.6
54.2	20422	-57.4	-70.4	18	0.05	115	17	496.2	496.6	496.2
50.0	20930	-57.7	-70.7	18	0.06	100	15	507.1	507.5	507.1
49.2	21031	-57.8	-70.8	17	0.06	80	13	509.1	509.5	509.1
46.9	21336	-58.2	-71.2	17	0.05	75	20	515.4	515.8	515.4
44.6	21641	-58.5	-71.5	17	0.05	60	21	521.7	522.1	521.7
40.5	22250	-59.2	-72.2	17	0.05	90	21	534.6	535.0	534.6
40.2	22300	-59.3	-72.3	17	0.05	88	22	535.7	536.1	535.7
38.6	22555	-57.4	-70.4	18	0.07	75	25	546.8	547.4	546.8
37.9	22671	-56.5	-69.5	18	0.09	76	27	551.9	552.6	551.9
33.4	23470	-55.6	-69.3	16	0.10	85	37	574.5	575.3	574.5
32.1	23727	-55.3	-69.3	16	0.10	87	33	581.9	582.8	582.0
30.4	24079	-53.5	-68.3	15	0.13	90	28	596.0	597.0	596.0
30.0	24160	-53.1	-68.1	14	0.13	85	25	599.3	600.4	599.3
29.0	24384	-52.4	-67.9	14	0.14	75	24	607.1	608.3	607.1
27.9	24629	-51.7	-67.7	13	0.15	77	26	615.7	617.0	615.8
26.3	25012	-52.3	-68.3	13	0.15	79	30	624.5	625.8	624.6
23.5	25745	-49.3	-67.3	10	0.19	84	37	653.7	655.4	653.8
22.9	25908	-49.5	-67.5	10	0.19	85	38	657.8	659.5	657.9
20.0	26800	-50.5	-68.5	10	0.19	85	40	680.8	682.6	680.9
19.1	27100	-50.5	-69.5	9	0.17	90	39	689.9	691.5	689.9
18.2	27432	-48.1	-68.9	7	0.20	95	37	707.4	709.4	707.5
17.4	27737	-45.8	-68.3	6	0.22	105	32	723.9	726.1	724.0
16.2	28193	-42.5	-67.5	5	0.27	97	29	749.1	751.8	749.2
15.1	28651	-42.7	-68.0	5	0.27	90	26	763.1	765.9	763.2
13.3	29523	-43.1	-69.1	4	0.26	94	33	790.4	793.3	790.6
12.6	29870	-41.7	-67.7	4	0.33	95	36	806.9	810.6	807.0
12.1	30175	-40.5	-66.5	4	0.41	100	19	821.6	826.3	821.8
11.9	30277	-40.1	-66.1	5	0.44			826.6	831.6	826.8

Station information and sounding indices

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Station identifier: VEF
  Station number: 72388
  Observation time: 130703/0000
  Station latitude: 36.05
  Station longitude: -115.18
  Station elevation: 697.0
  Showalter index: 1.47
  Lifted index: -0.19
LIFT computed using virtual temperature: -0.81
  SWEAT index: 63.81
  K index: 19.70
  Cross totals index: 7.30
  Vertical totals index: 40.30
  Totals totals index: 47.60
Convective Available Potential Energy: 132.23
  CAPE using virtual temperature: 216.69
  Convective Inhibition: -91.63
  CINS using virtual temperature: -45.63
  Equilibrium Level: 226.25

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Equilibrium Level using virtual temperature: 225.85
 Level of Free Convection: 502.11
 LFCT using virtual temperature: 514.45
 Bulk Richardson Number: 4.31
 Bulk Richardson Number using CAPV: 7.06
 Temp [K] of the Lifted Condensation Level: 271.14
 Pres [hPa] of the Lifted Condensation Level: 544.08
 Mean mixed layer potential temperature: 322.65
 Mean mixed layer mixing ratio: 6.16
 1000 hPa to 500 hPa thickness: 5955.00
 Precipitable water [mm] for entire sounding: 17.28

72388 VEF Las Vegas Observations at 12Z 03 Jul 2013

PRES	HGHT	TEMP	DWPT	RELH	MIXR	DRCT	SKNT	THTA	THTE	THTV
hPa	m	C	C	%	g/kg	deg	knot	K	K	K
1000.0	4									
928.0	697	33.8	5.8	18	6.27	185	6	313.6	333.6	314.8
925.0	728	34.0	6.0	18	6.38	195	7	314.1	334.4	315.3
914.0	836	35.4	6.4	17	6.64	215	8	316.6	338.0	317.9
906.1	914	34.9	6.0	17	6.53	230	8	316.9	337.9	318.1
876.0	1219	33.1	4.6	17	6.12	15	4	318.0	337.9	319.2
850.0	1490	31.4	3.4	17	5.78	30	4	319.0	337.9	320.1
846.8	1524	31.2	3.2	17	5.74	10	4	319.2	338.0	320.3
837.0	1628	30.8	2.8	17	5.62	358	7	319.8	338.3	320.9
818.2	1829	29.0	1.8	17	5.37	335	12	320.0	337.7	321.1
791.0	2129	26.4	0.4	18	5.01	335	20	320.3	336.9	321.3
790.5	2134	26.4	0.4	18	5.00	335	20	320.3	336.9	321.3
763.4	2438	24.1	-0.7	19	4.78	335	16	321.1	337.0	322.0
737.2	2743	21.9	-1.8	20	4.57	335	16	321.9	337.1	322.8
723.0	2912	20.6	-2.4	21	4.46	332	16	322.3	337.2	323.1
711.7	3048	19.4	-3.1	22	4.30	330	16	322.4	336.9	323.3
700.0	3190	18.2	-3.8	22	4.14	330	16	322.6	336.6	323.4
661.8	3658	14.0	-5.4	26	3.89	0	14	323.1	336.2	323.8
638.1	3962	11.2	-6.4	28	3.73	15	14	323.3	336.0	324.1
615.2	4267	8.5	-7.4	32	3.57	10	14	323.6	335.7	324.3
578.0	4787	3.8	-9.2	38	3.31	35	15	323.9	335.2	324.6
571.5	4877	2.9	-9.3	40	3.32	40	15	323.9	335.2	324.6
550.1	5182	-0.1	-9.8	48	3.33	45	13	323.9	335.2	324.5
513.0	5739	-5.7	-10.6	68	3.34	36	17	323.6	335.0	324.3
509.6	5791	-6.1	-11.2	67	3.20	35	17	323.8	334.7	324.4
500.0	5940	-7.1	-13.1	62	2.80	35	17	324.3	334.0	324.9
494.0	6034	-7.9	-13.9	62	2.66	38	16	324.5	333.6	325.0
490.1	6096	-8.3	-16.4	52	2.18	40	15	324.8	332.4	325.2
481.0	6240	-9.1	-22.1	34	1.36	41	12	325.5	330.4	325.7
472.0	6386	-9.5	-23.5	31	1.23	42	9	326.7	331.2	327.0
455.0	6667	-11.9	-22.9	40	1.34	45	4	327.2	332.0	327.4
452.7	6706	-12.1	-24.1	36	1.21	45	3	327.4	331.8	327.7
442.0	6888	-12.9	-29.9	23	0.73	63	11	328.6	331.4	328.8
434.9	7010	-13.7	-30.7	22	0.68	75	17	329.1	331.7	329.2
417.8	7315	-15.8	-32.8	22	0.59	90	17	330.3	332.5	330.4
415.0	7365	-16.1	-33.1	22	0.57	88	17	330.5	332.7	330.6
401.1	7620	-18.5	-34.6	23	0.51	75	15	330.6	332.6	330.7
400.0	7640	-18.7	-34.7	23	0.51	75	15	330.6	332.6	330.7
393.0	7772	-19.7	-33.7	28	0.57	77	14	331.0	333.2	331.1
390.0	7828	-20.3	-32.3	33	0.66	78	14	330.9	333.4	331.0
387.0	7886	-20.9	-26.9	59	1.10	79	13	330.9	334.9	331.1

384.9	7925	-20.8	-25.5	66	1.26	80	13	331.5	336.2	331.8
384.0	7943	-20.7	-24.8	70	1.34	80	13	331.9	336.8	332.1
378.0	8060	-21.1	-33.1	33	0.63	79	14	332.8	335.2	332.9
372.0	8178	-21.1	-36.1	25	0.47	77	14	334.3	336.2	334.4
339.8	8839	-26.6	-40.8	25	0.32	70	17	335.6	336.9	335.6
335.0	8943	-27.5	-41.5	25	0.30	65	17	335.8	337.0	335.8
325.7	9144	-28.7	-42.7	25	0.27	55	18	336.9	338.0	336.9
310.0	9498	-30.7	-44.7	24	0.23	64	20	338.8	339.8	338.9
300.0	9730	-32.9	-45.9	26	0.21	70	22	338.9	339.8	338.9
299.0	9754	-33.1	-46.1	26	0.21	70	22	338.9	339.8	339.0
297.0	9801	-33.5	-46.5	26	0.20	69	22	339.0	339.9	339.1
292.0	9920	-33.7	-46.7	26	0.20	66	23	340.4	341.2	340.4
273.8	10363	-37.5	-50.1	26	0.14	55	26	341.2	341.8	341.2
250.6	10973	-42.8	-54.8	26	0.09	70	10	342.1	342.5	342.1
250.0	10990	-42.9	-54.9	26	0.09	70	11	342.1	342.5	342.2
235.0	11403	-46.7	-57.7	27	0.07	108	8	342.5	342.8	342.5
228.6	11582	-48.1	-59.0	27	0.06	125	7	343.0	343.3	343.0
218.1	11887	-50.6	-61.1	28	0.05	90	16	343.9	344.1	343.9
200.0	12450	-55.1	-65.1	28	0.03	100	18	345.4	345.5	345.4
198.5	12497	-55.4	-65.4	28	0.03	95	18	345.6	345.7	345.6
191.0	12743	-57.1	-67.1	27	0.02	107	13	346.7	346.8	346.7
180.1	13106	-60.4	-70.1	27	0.02	125	5	347.1	347.2	347.1
163.0	13725	-66.1	-75.1	27	0.01	101	12	347.7	347.7	347.7
158.0	13914	-66.5	-75.5	27	0.01	94	15	350.1	350.1	350.1
155.2	14021	-65.8	-74.8	27	0.01	90	16	353.0	353.1	353.0
154.0	14070	-65.5	-74.5	28	0.01	89	14	354.4	354.4	354.4
150.0	14230	-65.7	-74.7	28	0.01	85	8	356.7	356.8	356.7
148.0	14311	-65.9	-74.9	27	0.01	77	8	357.7	357.8	357.7
146.0	14394	-65.3	-74.3	28	0.01	68	7	360.2	360.2	360.2
130.0	15093	-69.3	-77.3	30	0.01	355	4	365.1	365.2	365.1
126.8	15240	-69.5	-77.5	30	0.01	50	5	367.3	367.4	367.3
122.0	15472	-69.9	-77.9	30	0.01	65	10	370.7	370.8	370.7
120.5	15545	-69.0	-77.5	28	0.01	70	11	373.7	373.7	373.7
119.0	15620	-68.1	-77.1	27	0.01	54	11	376.7	376.7	376.7
115.0	15826	-67.7	-76.7	27	0.01	10	12	381.1	381.2	381.1
114.5	15850	-67.9	-76.8	27	0.01	5	12	381.3	381.3	381.3
108.0	16201	-70.3	-78.3	30	0.01	17	6	383.1	383.2	383.1
106.0	16312	-69.1	-77.1	31	0.01	20	4	387.4	387.5	387.5
103.4	16459	-69.5	-77.5	30	0.01	25	1	389.4	389.5	389.5
102.0	16542	-69.7	-77.7	30	0.01	21	9	390.6	390.6	390.6
100.0	16660	-68.5	-77.5	26	0.01	15	21	395.1	395.2	395.1
93.4	17069	-69.0	-77.5	28	0.01	50	33	401.9	402.0	401.9
87.6	17451	-69.5	-77.5	30	0.01	63	32	408.3	408.4	408.4
85.7	17582	-67.7	-76.7	27	0.01	67	31	414.5	414.6	414.6
84.3	17678	-67.5	-76.5	27	0.01	70	31	416.9	417.0	416.9
80.2	17983	-66.8	-75.8	27	0.02	80	14	424.4	424.5	424.4
77.4	18197	-66.3	-75.3	27	0.02	73	17	429.7	429.8	429.7
76.2	18288	-65.0	-74.0	28	0.02	70	18	434.4	434.5	434.4
75.7	18332	-64.3	-73.3	28	0.02	71	18	436.6	436.8	436.6
70.8	18740	-64.5	-73.5	28	0.03	83	22	444.6	444.8	444.6
70.0	18810	-63.3	-72.3	29	0.03	85	23	448.6	448.8	448.6
69.0	18898	-62.6	-71.6	29	0.03	90	25	451.9	452.1	451.9
67.9	18997	-61.9	-70.9	29	0.04	80	26	455.6	455.8	455.6
66.3	19144	-62.5	-71.5	29	0.04	66	27	457.4	457.6	457.4
65.7	19202	-62.2	-71.2	29	0.04	60	27	459.3	459.6	459.3
62.9	19469	-60.7	-69.7	30	0.05	91	15	468.3	468.6	468.3
62.5	19507	-60.9	-69.9	29	0.05	95	13	468.8	469.1	468.8
59.5	19812	-62.1	-71.1	29	0.04	135	12	472.6	472.9	472.6
58.2	19949	-62.7	-71.7	29	0.04	117	12	474.3	474.6	474.3
56.6	20117	-61.4	-70.4	29	0.05	95	11	481.0	481.3	481.0
55.6	20231	-60.5	-69.5	30	0.06	93	9	485.5	485.9	485.6

53.9	20422	-60.8	-69.8	30	0.06	90	5	489.2	489.6	489.2
52.0	20646	-61.1	-70.1	29	0.06	57	14	493.5	493.9	493.5
51.3	20726	-60.3	-69.6	28	0.06	45	17	497.2	497.6	497.2
50.0	20890	-58.7	-68.7	26	0.07	55	26	504.7	505.2	504.7
49.3	20979	-57.7	-67.7	27	0.09	62	28	509.1	509.7	509.1
46.6	21336	-58.9	-68.9	26	0.08	90	38	514.6	515.1	514.6
44.8	21582	-59.7	-69.7	26	0.07	86	35	518.4	518.9	518.4
44.4	21641	-59.6	-69.6	26	0.07	85	34	520.0	520.5	520.0
42.3	21946	-59.3	-69.3	26	0.08	100	41	528.1	528.7	528.1
40.3	22250	-58.9	-68.9	26	0.09	115	31	536.4	537.0	536.4
40.2	22262	-58.9	-68.9	26	0.09	115	31	536.7	537.3	536.7
38.1	22602	-55.5	-65.5	28	0.15	101	23	553.6	554.7	553.7
36.6	22860	-54.4	-64.4	28	0.18	90	18	562.9	564.3	563.0
35.7	23019	-53.7	-63.7	28	0.20	90	19	568.7	570.2	568.7
33.3	23470	-53.8	-64.3	26	0.20	90	21	579.9	581.5	580.0
31.8	23774	-53.9	-64.7	25	0.20	70	22	587.6	589.2	587.6
31.1	23907	-53.9	-64.9	25	0.20	68	24	591.0	592.6	591.1
30.0	24140	-52.5	-63.5	25	0.25	65	27	600.9	602.9	601.0
28.9	24384	-51.5	-62.5	26	0.30	65	24	610.3	612.7	610.4
28.3	24517	-50.9	-61.9	26	0.33	58	29	615.4	618.1	615.6
27.6	24689	-51.3	-62.3	26	0.32	50	35	619.1	621.8	619.2
24.8	25370	-52.7	-63.7	25	0.29	66	31	633.9	636.4	634.0
23.3	25773	-51.5	-62.5	26	0.37	75	29	648.8	652.0	649.0
21.8	26213	-51.8	-62.8	26	0.38	85	27	660.8	664.1	660.9
20.0	26760	-52.1	-63.1	25	0.39	80	40	675.9	679.5	676.1
19.7	26858	-52.1	-63.1	25	0.40	81	42	678.9	682.5	679.0
18.9	27127	-51.0	-62.7	24	0.44	85	47	690.5	694.6	690.7
18.6	27231	-50.5	-62.5	23	0.46	90	45	695.1	699.4	695.3
18.0	27432	-46.8	-59.6	22	0.68	100	42	712.7	719.1	713.0
17.9	27484	-45.9	-58.9	22	0.76	101	41	717.3	724.4	717.6
17.5	27634	-45.1	-58.1	22	0.86	103	40	724.5	732.6	724.8
16.5	28042	-45.5	-58.5	22	0.87	110	36	736.1	744.5	736.5
15.2	28574	-45.9	-58.9	22	0.89	101	30	751.6	760.4	752.0
14.4	28956	-44.6	-58.1	21	1.04	95	25	768.4	778.8	768.9
13.7	29269	-43.5	-57.5	20	1.18	91	26	782.4	794.4	783.0
11.4	30480	-45.7	-59.7	19	1.07	75	32	816.0	827.5	816.5
10.4	31109	-46.9	-60.9	19	1.01			834.0	845.1	834.5
10.4	31090	-46.9	-60.9	19	1.01	95	39	833.4	844.6	833.9

Station information and sounding indices

Station identifier: VEF
 Station number: 72388
 Observation time: 130703/1200
 Station latitude: 36.05
 Station longitude: -115.18
 Station elevation: 697.0
 Showalter index: 0.66
 Lifted index: 0.93

LIFT computed using virtual temperature: 0.71
 SWEAT index: 65.80
 K index: 19.90
 Cross totals index: 10.50
 Vertical totals index: 38.50
 Totals totals index: 49.00
 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: 272.97

Pres [hPa] of the Lifted Condensation Level: 595.13

Mean mixed layer potential temperature: 316.62

Mean mixed layer mixing ratio: 6.41

1000 hPa to 500 hPa thickness: 5936.00

Precipitable water [mm] for entire sounding: 21.66

72388 VEF Las Vegas Observations at 00Z 04 Jul 2013

PRES	HGHT	TEMP	DWPT	RELH	MIXR	DRCT	SKNT	THTA	THTE	THTV
hPa	m	C	C	%	g/kg	deg	knot	K	K	K
1000.0	-18									
926.0	697	44.2	4.2	9	5.61	170	4	324.4	343.2	325.5
925.0	706	44.0	3.0	8	5.16	170	4	324.3	341.6	325.3
906.0	898	39.6	-7.4	5	2.43	50	1	321.7	330.1	322.2
904.4	914	39.5	-7.4	5	2.44	40	1	321.7	330.1	322.2
874.6	1219	36.6	-7.1	6	2.58	75	2	321.9	330.8	322.4
850.0	1478	34.2	-6.8	7	2.71	340	2	322.0	331.3	322.5
830.0	1692	32.0	-7.0	8	2.74	331	5	321.8	331.2	322.4
817.1	1829	30.7	-7.0	8	2.79	325	7	321.9	331.5	322.5
789.1	2134	27.9	-6.9	10	2.91	325	7	322.1	332.1	322.7
762.2	2438	25.1	-6.8	12	3.03	320	9	322.3	332.6	322.9
736.1	2743	22.2	-6.7	14	3.16	325	9	322.4	333.2	323.0
702.0	3158	18.4	-6.6	18	3.34	334	10	322.6	333.9	323.2
700.0	3182	18.2	-5.8	19	3.56	335	10	322.6	334.7	323.3
661.5	3658	13.9	-8.1	21	3.17	340	10	323.1	333.9	323.7
615.2	4267	8.5	-10.9	24	2.71	350	12	323.6	332.9	324.1
608.0	4366	7.6	-11.4	25	2.64	352	12	323.6	332.8	324.2
588.0	4641	5.6	-18.4	16	1.53	356	11	324.4	329.9	324.7
571.1	4877	3.5	-20.6	15	1.31	0	11	324.6	329.3	324.9
554.0	5124	1.2	-22.8	15	1.11	11	12	324.8	328.8	325.0
511.0	5768	-3.7	-30.7	10	0.58	42	14	326.4	328.6	326.5
500.0	5940	-4.9	-29.9	12	0.64	50	14	327.0	329.4	327.1
497.0	5987	-5.3	-30.3	12	0.62	52	15	327.1	329.4	327.2
491.0	6082	-5.9	-23.9	23	1.14	55	18	327.5	331.6	327.7
490.1	6096	-6.0	-24.0	23	1.13	55	18	327.5	331.6	327.7
458.0	6622	-10.3	-28.3	21	0.82	61	19	328.6	331.6	328.7
425.0	7193	-14.1	-34.1	17	0.50	68	20	330.8	332.8	330.9
420.0	7283	-14.9	-29.9	27	0.77	70	20	330.9	333.8	331.0
418.2	7315	-15.0	-31.5	23	0.66	70	20	331.1	333.6	331.2
410.0	7464	-15.7	-38.7	12	0.33	72	17	332.1	333.5	332.2
404.0	7575	-16.5	-35.5	18	0.46	74	15	332.5	334.3	332.6
401.6	7620	-16.6	-39.2	12	0.32	75	14	332.9	334.2	333.0
400.0	7650	-16.7	-41.7	10	0.25	75	13	333.2	334.2	333.2
397.0	7707	-16.9	-42.9	9	0.22	78	12	333.6	334.6	333.7
371.0	8213	-19.3	-40.3	14	0.31	100	6	337.0	338.2	337.1
354.9	8534	-22.1	-42.3	14	0.26	115	2	337.5	338.6	337.5
326.2	9144	-27.5	-46.1	15	0.19	175	3	338.3	339.1	338.3
300.0	9750	-32.9	-49.9	17	0.13	30	5	338.9	339.5	338.9
296.0	9844	-33.7	-49.7	18	0.14	33	5	339.1	339.6	339.1
251.0	10973	-43.1	-57.1	20	0.07	75	11	341.5	341.8	341.5
250.0	11000	-43.3	-57.3	20	0.07	75	12	341.6	341.9	341.6
200.0	12470	-55.1	-66.1	24	0.03	10	9	345.4	345.5	345.4
190.0	12795	-58.1	-69.1	23	0.02	32	10	345.6	345.7	345.6
177.0	13237	-60.9	-71.9	22	0.01	63	12	348.1	348.2	348.1
172.1	13411	-61.5	-72.0	24	0.01	75	13	349.9	349.9	349.9

168.0	13560	-62.1	-72.1	25	0.01	34	10	351.3	351.4	351.3
155.8	14021	-65.6	-75.6	24	0.01	265	1	353.1	353.2	353.1
150.0	14250	-67.3	-77.3	23	0.01	5	6	354.0	354.0	354.0
149.0	14290	-67.7	-77.7	23	0.01	10	7	353.9	354.0	353.9
141.0	14621	-69.1	-79.1	22	0.01	54	16	357.1	357.1	357.1
140.8	14630	-69.0	-79.0	22	0.01	55	16	357.4	357.4	357.4
137.0	14793	-68.1	-78.1	23	0.01	58	17	361.8	361.9	361.8
128.0	15198	-70.9	-79.9	25	0.01	65	18	363.9	363.9	363.9
127.1	15240	-70.7	-79.7	25	0.01	65	19	365.0	365.0	365.0
123.0	15435	-69.7	-78.7	26	0.01	103	9	370.2	370.3	370.2
120.7	15545	-70.6	-79.6	26	0.01	125	4	370.6	370.6	370.6
120.0	15582	-70.9	-79.9	25	0.01	121	4	370.7	370.7	370.7
117.0	15732	-69.9	-78.9	26	0.01	102	4	375.2	375.2	375.2
114.0	15886	-70.1	-79.1	26	0.01	84	5	377.6	377.7	377.6
107.0	16264	-68.7	-78.7	22	0.01	38	5	387.2	387.2	387.2
105.0	16377	-69.3	-79.3	22	0.01	25	5	388.1	388.2	388.1
100.0	16670	-66.7	-76.7	23	0.01	350	6	398.6	398.7	398.6
92.2	17164	-63.9	-73.9	24	0.02	1	12	413.5	413.6	413.5
80.6	17983	-66.6	-76.6	23	0.01	20	23	424.1	424.2	424.1
78.7	18126	-67.1	-77.1	23	0.01	25	19	426.0	426.1	426.0
76.6	18288	-66.2	-76.2	23	0.02	30	15	431.1	431.2	431.1
75.8	18353	-65.9	-75.9	24	0.02	39	14	433.1	433.2	433.1
74.1	18491	-63.7	-74.7	21	0.02	57	13	440.5	440.7	440.6
72.9	18593	-63.6	-74.6	21	0.02	70	12	442.8	442.9	442.8
70.0	18840	-63.5	-74.5	21	0.02	130	10	448.2	448.3	448.2
69.3	18898	-63.5	-74.5	21	0.02	130	12	449.4	449.6	449.4
62.8	19507	-63.5	-74.5	21	0.03	100	31	462.4	462.5	462.4
62.4	19544	-63.5	-74.5	21	0.03	101	30	463.2	463.3	463.2
60.7	19715	-60.9	-71.9	22	0.04	105	26	472.6	472.9	472.6
58.3	19965	-60.9	-71.9	22	0.04	111	20	478.1	478.4	478.1
56.9	20117	-58.3	-70.1	21	0.05	115	16	487.4	487.7	487.4
56.6	20150	-57.7	-69.7	20	0.06	113	16	489.4	489.8	489.4
51.6	20726	-58.1	-70.1	20	0.06	85	9	501.4	501.8	501.4
50.0	20930	-58.3	-70.3	20	0.06	115	17	505.7	506.1	505.7
49.2	21031	-58.6	-70.6	20	0.06	120	18	507.3	507.8	507.4
47.7	21226	-59.1	-71.1	20	0.05	101	17	510.6	511.0	510.6
47.0	21319	-57.3	-70.3	18	0.06	92	16	517.1	517.5	517.1
46.9	21336	-57.2	-70.2	18	0.06	90	16	517.6	518.0	517.6
44.7	21641	-56.3	-69.3	18	0.08	60	21	527.0	527.5	527.0
44.6	21651	-56.3	-69.3	18	0.08	60	22	527.3	527.9	527.3
42.6	21946	-57.3	-70.3	18	0.07	70	37	532.0	532.5	532.0
40.6	22250	-58.3	-71.3	17	0.06	95	30	536.8	537.2	536.8
39.1	22482	-59.1	-72.1	17	0.06	87	26	540.4	540.9	540.5
38.6	22555	-58.5	-71.5	17	0.06	85	25	543.7	544.2	543.7
37.4	22762	-56.9	-69.9	18	0.08	82	27	553.0	553.6	553.0
35.1	23165	-55.9	-69.4	17	0.09	75	31	565.7	566.5	565.8
30.4	24079	-53.5	-68.4	15	0.13	90	36	595.7	596.7	595.7
30.0	24170	-53.3	-68.3	14	0.13	95	34	598.7	599.8	598.8
29.7	24235	-53.7	-68.7	14	0.12	97	33	599.4	600.4	599.4
29.0	24384	-52.9	-68.6	13	0.13	100	30	605.5	606.6	605.6
27.7	24685	-51.3	-68.3	11	0.14	102	29	618.1	619.3	618.2
26.4	24994	-51.3	-68.8	11	0.14	105	28	626.6	627.8	626.6
23.2	25837	-51.3	-70.3	9	0.13	100	28	650.2	651.4	650.3
22.9	25908	-50.9	-70.5	8	0.12	100	28	653.3	654.5	653.4
21.9	26213	-49.3	-71.4	6	0.11	90	24	666.9	667.9	666.9
21.5	26334	-48.7	-71.7	5	0.11	86	25	672.3	673.4	672.4
20.0	26822	-48.3	-73.3	4	0.09	70	30	687.9	688.8	687.9
20.0	26810	-48.3	-73.3	4	0.09	70	31	687.6	688.5	687.6
19.1	27127	-48.4	-74.5	3	0.08	85	31	696.6	697.5	696.7
19.1	27113	-48.5	-74.5	3	0.08	84	31	696.0	696.9	696.1
18.2	27432	-47.1	-74.7	3	0.08	70	36	709.8	710.7	709.9

16.6	28042	-44.5	-75.1	2	0.09	70	43	736.9	737.8	736.9
13.3	29548	-38.1	-76.1	1	0.09	101	28	807.6	808.7	807.7
11.6	30480	-41.1	-77.9	1	0.08	120	19	829.0	830.0	829.1
11.1	30785	-42.1	-78.4	1	0.08	85	13	836.1	837.1	836.2
10.7	31029	-42.9	-78.9	1	0.07			841.9	842.8	841.9

Station information and sounding indices

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Station identifier: VEF
Station number: 72388
Observation time: 130704/0000
Station latitude: 36.05
Station longitude: -115.18
Station elevation: 697.0
Showalter index: 5.82
Lifted index: 5.35
LIFT computed using virtual temperature: 4.90
SWEAT index: 18.01
K index: 8.30
Cross totals index: -1.90
Vertical totals index: 39.10
Totals totals index: 37.20
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: 259.72
Pres [hPa] of the Lifted Condensation Level: 469.83
Mean mixed layer potential temperature: 322.29
Mean mixed layer mixing ratio: 3.06
1000 hPa to 500 hPa thickness: 5958.00
Precipitable water [mm] for entire sounding: 12.17

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72388 VEF Las Vegas Observations at 12Z 04 Jul 2013

PRES	HGHT	TEMP	DWPT	RELH	MIXR	DRCT	SKNT	THTA	THTE	THTV
hPa	m	C	C	%	g/kg	deg	knot	K	K	K
1000.0	-17									
926.0	697	33.2	5.2	17	6.02	230	3	313.1	332.4	314.3
925.0	705	33.2	3.2	15	5.23	250	3	313.2	330.1	314.2
920.0	754	36.4	4.4	14	5.73	271	6	317.0	335.6	318.1
903.9	914	35.8	3.2	13	5.37	340	16	318.0	335.5	319.0
890.0	1055	35.2	2.2	13	5.06	342	18	318.8	335.4	319.8
873.9	1219	33.9	1.7	13	4.98	345	21	319.1	335.6	320.1
850.0	1469	32.0	1.0	14	4.86	355	13	319.6	335.7	320.6
816.1	1829	28.7	0.5	16	4.87	25	8	319.9	336.0	320.8
788.5	2134	25.9	-0.0	18	4.87	25	10	320.1	336.1	321.0
778.0	2253	24.8	-0.2	19	4.87	23	11	320.1	336.2	321.1
761.6	2438	23.5	-0.6	20	4.82	20	12	320.6	336.6	321.6
735.3	2743	21.3	-1.3	22	4.75	0	9	321.5	337.3	322.4
725.0	2865	20.4	-1.6	23	4.72	348	10	321.8	337.5	322.7
709.7	3048	18.7	-2.1	24	4.65	330	12	321.9	337.4	322.8
700.0	3166	17.6	-2.4	25	4.60	335	12	321.9	337.3	322.8
684.6	3353	16.0	-3.0	27	4.50	345	13	322.2	337.2	323.0

660.1	3658	13.3	-4.0	30	4.34	340	12	322.5	337.1	323.4
613.9	4267	7.9	-5.9	37	4.02	45	2	323.1	336.7	323.9
603.0	4417	6.6	-6.4	39	3.95	71	3	323.2	336.6	324.0
569.8	4877	2.4	-6.7	51	4.10	155	8	323.6	337.4	324.4
553.0	5120	0.2	-6.8	59	4.18	147	10	323.8	337.8	324.6
548.8	5182	-0.2	-7.7	57	3.93	145	10	324.0	337.3	324.7
544.0	5252	-0.7	-8.7	55	3.66	153	10	324.2	336.7	324.9
528.2	5486	-2.7	-10.4	56	3.30	180	11	324.5	335.8	325.2
500.0	5920	-6.5	-13.5	58	2.71	165	9	325.1	334.4	325.6
496.0	5982	-6.7	-17.7	41	1.93	160	8	325.6	332.4	325.9
489.0	6093	-7.5	-15.5	53	2.35	150	7	325.9	334.1	326.4
488.8	6096	-7.5	-15.5	53	2.35	150	7	325.9	334.1	326.4
475.0	6317	-8.9	-17.9	48	1.98	166	7	326.9	333.9	327.3
462.0	6531	-10.3	-16.3	61	2.33	181	7	327.7	335.9	328.2
459.0	6581	-10.3	-15.3	67	2.55	185	7	328.4	337.3	328.9
453.0	6682	-10.5	-23.5	34	1.28	192	7	329.3	334.0	329.6
422.0	7220	-15.5	-28.5	32	0.87	231	7	329.7	332.9	329.9
400.0	7620	-17.9	-33.9	23	0.55	260	7	331.6	333.8	331.8
397.0	7676	-18.3	-34.3	23	0.53	260	7	331.8	333.9	331.9
363.0	8340	-22.3	-39.3	20	0.35	255	7	335.1	336.5	335.2
324.6	9144	-28.8	-42.8	25	0.27	250	6	337.1	338.2	337.1
300.0	9710	-33.3	-45.3	29	0.22	260	8	338.3	339.3	338.4
282.0	10143	-36.9	-47.9	31	0.18	233	9	339.2	339.9	339.2
255.0	10836	-41.9	-48.9	46	0.18	189	10	341.7	342.4	341.7
250.0	10970	-42.9	-49.9	46	0.16	180	10	342.1	342.8	342.2
249.9	10973	-42.9	-49.9	46	0.16	180	10	342.2	342.8	342.2
200.0	12430	-55.9	-62.9	41	0.04	85	3	344.1	344.3	344.1
190.0	12754	-58.7	-65.7	40	0.03	185	1	344.7	344.8	344.7
188.5	12802	-59.1	-66.1	40	0.03	200	1	344.8	345.0	344.9
173.0	13335	-63.1	-70.1	38	0.02	231	12	346.8	346.8	346.8
171.0	13407	-63.1	-70.1	38	0.02	235	14	347.9	348.0	347.9
170.9	13411	-63.1	-70.1	38	0.02	235	14	347.9	348.0	347.9
162.5	13716	-65.8	-72.8	37	0.01	230	15	348.4	348.4	348.4
160.0	13811	-66.7	-73.7	37	0.01	242	16	348.5	348.6	348.5
154.5	14021	-67.3	-74.3	36	0.01	270	17	351.0	351.0	351.0
151.0	14160	-67.7	-74.7	36	0.01	275	17	352.6	352.6	352.6
150.0	14200	-66.7	-73.7	37	0.01	280	19	355.0	355.1	355.0
149.0	14240	-66.5	-73.5	37	0.01	290	20	356.0	356.1	356.0
146.9	14326	-66.9	-73.9	37	0.01	310	22	356.7	356.8	356.7
146.0	14363	-67.1	-74.1	37	0.01	313	22	357.1	357.1	357.1
144.0	14447	-66.3	-73.3	37	0.01	321	21	359.9	359.9	359.9
137.0	14747	-67.9	-74.9	36	0.01	349	20	362.2	362.2	362.2
132.0	14971	-67.7	-74.7	36	0.01	10	19	366.4	366.5	366.4
126.2	15240	-68.8	-75.8	36	0.01	35	18	369.1	369.1	369.1
124.0	15345	-69.3	-76.3	36	0.01	37	17	370.1	370.2	370.1
119.0	15591	-68.7	-75.7	36	0.01	40	16	375.6	375.6	375.6
113.0	15900	-69.7	-76.7	35	0.01	45	14	379.3	379.4	379.3
111.0	16007	-69.1	-76.1	36	0.01	46	13	382.4	382.4	382.4
107.0	16226	-69.7	-76.7	35	0.01	49	12	385.3	385.3	385.3
100.0	16630	-68.3	-75.3	36	0.01	55	9	395.5	395.6	395.5
94.7	16958	-66.5	-73.5	37	0.02	68	14	405.2	405.4	405.2
89.7	17285	-67.3	-74.3	36	0.02	80	18	410.0	410.1	410.0
84.1	17678	-66.0	-73.0	37	0.02	95	24	420.2	420.4	420.2
80.9	17910	-65.3	-72.3	37	0.03	110	16	426.4	426.5	426.4
79.9	17983	-64.9	-71.9	37	0.03	115	13	428.7	428.9	428.7
76.1	18288	-63.1	-70.1	38	0.04	45	15	438.4	438.7	438.4
72.4	18593	-61.4	-68.4	39	0.05	70	12	448.4	448.7	448.4
71.0	18712	-60.7	-67.7	39	0.06	70	9	452.3	452.7	452.4
70.0	18800	-61.1	-68.1	39	0.06	70	6	453.3	453.7	453.3
68.3	18952	-62.1	-69.1	39	0.05	43	4	454.4	454.7	454.4
65.6	19202	-61.7	-68.7	39	0.06	0	0	460.6	460.9	460.6

62.5	19507	-61.1	-68.1	39	0.06	55	12	468.3	468.7	468.3
61.2	19633	-60.9	-67.9	39	0.07	67	12	471.5	471.9	471.5
59.5	19812	-62.0	-69.0	39	0.06	85	11	472.9	473.3	473.0
59.3	19829	-62.1	-69.1	39	0.06	83	11	473.1	473.5	473.1
56.6	20117	-61.3	-68.7	37	0.06	50	12	481.1	481.6	481.1
53.9	20422	-60.5	-68.3	35	0.07	60	21	489.8	490.3	489.8
52.5	20586	-60.1	-68.1	34	0.08	79	22	494.5	495.0	494.5
51.3	20726	-60.3	-68.3	34	0.08	95	23	497.2	497.8	497.3
50.0	20890	-60.5	-68.5	34	0.08	80	27	500.5	501.0	500.5
48.9	21031	-60.9	-68.8	34	0.07	75	32	502.9	503.4	502.9
46.9	21288	-61.5	-69.5	34	0.07	83	38	507.3	507.8	507.3
46.5	21336	-61.1	-69.1	34	0.07	85	39	509.5	510.0	509.5
43.0	21832	-56.7	-64.7	36	0.15	88	36	531.9	532.9	531.9
41.9	21996	-57.7	-65.7	35	0.13	89	35	533.3	534.3	533.4
40.3	22250	-56.4	-64.9	33	0.15	90	34	542.9	544.0	542.9
38.8	22484	-55.1	-64.1	32	0.18	102	30	551.8	553.1	551.8
38.4	22555	-55.2	-64.2	32	0.18	105	29	553.3	554.6	553.3
35.4	23069	-55.9	-64.9	31	0.17	88	23	564.3	565.7	564.4
34.9	23165	-54.5	-63.5	32	0.21	85	22	570.4	572.0	570.4
34.9	23160	-54.5	-63.5	32	0.21	85	22	570.3	571.9	570.4
33.8	23365	-55.1	-64.1	32	0.20	95	26	573.9	575.5	574.0
33.2	23470	-54.4	-63.4	32	0.23	100	28	578.6	580.3	578.6
32.6	23596	-53.5	-62.5	32	0.26	83	26	584.1	586.2	584.2
31.7	23774	-53.9	-63.3	31	0.24	60	23	587.8	589.7	587.9
30.3	24066	-54.5	-64.5	28	0.22	89	25	593.8	595.5	593.9
30.2	24079	-54.4	-64.4	28	0.22	90	25	594.4	596.2	594.5
30.0	24130	-53.9	-63.9	28	0.24	90	25	597.1	599.0	597.2
28.8	24384	-53.5	-63.8	28	0.25	80	23	604.9	607.0	605.0
25.4	25199	-52.3	-63.3	25	0.30	84	26	630.8	633.3	630.9
25.0	25298	-52.7	-63.7	25	0.29	85	26	632.3	634.8	632.4
23.9	25603	-54.0	-65.0	25	0.26	105	21	637.2	639.4	637.3
23.1	25808	-54.9	-65.9	24	0.23	88	24	640.5	642.5	640.5
22.7	25908	-54.0	-65.2	24	0.26	80	26	645.9	648.1	646.0
21.7	26213	-51.4	-63.3	23	0.36	75	20	662.6	665.7	662.7
21.5	26270	-50.9	-62.9	23	0.38	76	22	665.7	669.1	665.9
20.0	26740	-49.9	-62.9	20	0.40	80	38	682.7	686.4	682.8
19.5	26905	-49.9	-62.9	20	0.41	82	40	687.6	691.4	687.8
18.0	27432	-46.7	-60.7	19	0.60	90	47	713.6	719.3	713.9

Station information and sounding indices

Station identifier: VEF
 Station number: 72388
 Observation time: 130704/1200
 Station latitude: 36.05
 Station longitude: -115.18
 Station elevation: 697.0
 Showalter index: 2.21
 Lifted index: 2.48

LIFT computed using virtual temperature: 2.29
 SWEAT index: 46.98
 K index: 19.50
 Cross totals index: 7.50
 Vertical totals index: 38.50
 Totals totals index: 46.00
 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: 269.65

Pres [hPa] of the Lifted Condensation Level: 562.66

Mean mixed layer potential temperature: 317.82

Mean mixed layer mixing ratio: 5.31

1000 hPa to 500 hPa thickness: 5937.00

Precipitable water [mm] for entire sounding: 21.59

72388 VEF Las Vegas Observations at 00Z 05 Jul 2013

PRES	HGHT	TEMP	DWPT	RELH	MIXR	DRCT	SKNT	THTA	THTE	THTV
hPa	m	C	C	%	g/kg	deg	knot	K	K	K
1000.0	-37									
925.0	686									
924.0	697	44.2	6.2	10	6.47	150	7	324.6	346.1	325.9
912.0	818	40.6	5.6	12	6.29	150	9	322.1	342.9	323.3
902.5	914	39.7	5.1	12	6.15	150	10	322.1	342.4	323.3
872.8	1219	36.7	3.6	13	5.71	190	15	322.2	341.1	323.3
850.0	1460	34.4	2.4	13	5.38	195	14	322.2	340.0	323.2
815.3	1829	30.9	1.1	15	5.10	205	14	322.3	339.2	323.3
787.8	2134	27.9	-0.0	16	4.87	215	13	322.3	338.6	323.3
761.2	2438	25.0	-1.1	18	4.65	215	14	322.4	337.9	323.3
745.0	2629	23.2	-1.8	19	4.52	218	14	322.4	337.5	323.2
735.2	2743	22.1	-2.0	20	4.51	220	14	322.4	337.5	323.3
700.0	3166	18.2	-2.8	24	4.47	240	13	322.6	337.6	323.5
660.5	3658	13.3	-2.8	33	4.74	250	16	322.5	338.3	323.4
652.0	3767	12.2	-2.8	35	4.80	248	16	322.4	338.4	323.4
636.9	3962	11.0	-5.6	31	3.98	245	17	323.2	336.6	324.0
623.0	4146	9.8	-8.2	27	3.32	239	13	323.9	335.3	324.6
613.8	4267	8.7	-8.7	28	3.24	235	11	324.0	335.1	324.6
569.5	4877	3.1	-11.3	34	2.85	275	10	324.4	334.3	325.0
537.0	5355	-1.3	-13.3	40	2.57	252	8	324.7	333.6	325.2
517.0	5656	-2.9	-14.9	39	2.34	238	7	326.3	334.5	326.8
500.0	5920	-5.1	-16.1	42	2.19	225	6	326.8	334.5	327.2
488.8	6096	-6.6	-17.3	42	2.03	225	7	327.0	334.2	327.4
467.0	6451	-9.7	-19.7	44	1.73	226	6	327.5	333.7	327.8
457.0	6618	-11.1	-19.1	52	1.86	227	6	327.8	334.4	328.1
438.0	6943	-12.1	-20.1	51	1.78	228	5	330.5	336.9	330.9
435.0	6995	-12.1	-25.1	33	1.15	228	5	331.1	335.4	331.4
430.0	7083	-12.7	-29.7	23	0.76	228	4	331.5	334.4	331.6
419.0	7280	-14.3	-33.3	18	0.55	229	4	331.9	334.0	332.0
415.0	7353	-15.1	-27.1	35	1.01	229	4	331.8	335.5	332.0
412.0	7407	-15.3	-32.3	22	0.62	229	4	332.2	334.6	332.3
403.0	7574	-15.9	-28.9	32	0.88	230	3	333.5	336.9	333.7
400.5	7620	-16.2	-30.1	29	0.79	230	3	333.7	336.7	333.8
400.0	7630	-16.3	-30.3	29	0.77	240	5	333.7	336.7	333.9
394.0	7744	-17.1	-32.1	26	0.66	233	6	334.1	336.7	334.2
376.0	8093	-19.7	-27.7	49	1.05	213	9	335.2	339.1	335.4
369.1	8230	-20.9	-32.1	36	0.71	205	10	335.4	338.1	335.5
359.0	8436	-22.7	-38.7	22	0.38	212	10	335.6	337.1	335.7
325.7	9144	-27.6	-41.6	25	0.31	235	10	338.3	339.6	338.4
325.0	9159	-27.7	-41.7	25	0.30	234	10	338.4	339.6	338.5
312.1	9449	-30.2	-44.2	24	0.24	215	14	338.8	339.8	338.9
300.0	9730	-32.7	-46.7	23	0.19	220	16	339.2	340.0	339.2
286.0	10058	-35.5	-49.3	23	0.15	225	17	339.8	340.4	339.8
250.0	10980	-43.5	-56.5	22	0.07	250	8	341.3	341.6	341.3
249.0	11007	-43.7	-55.7	25	0.08	243	8	341.4	341.7	341.4

239.0	11278	-45.9	-57.5	26	0.07	170	3	342.1	342.4	342.1
200.0	12450	-55.3	-65.3	28	0.03	215	13	345.0	345.2	345.0
198.5	12497	-55.7	-65.7	28	0.03	210	12	345.1	345.2	345.1
187.0	12875	-59.1	-69.1	26	0.02	222	14	345.6	345.7	345.6
180.2	13106	-60.8	-70.3	27	0.02	230	15	346.5	346.6	346.5
173.0	13358	-62.7	-71.7	29	0.01	248	13	347.4	347.5	347.4
153.0	14110	-65.5	-74.5	28	0.01	301	5	355.0	355.1	355.0
150.0	14230	-66.5	-75.5	27	0.01	310	4	355.3	355.4	355.3
140.0	14644	-68.7	-77.7	26	0.01	204	5	358.6	358.6	358.6
136.0	14817	-69.1	-78.1	26	0.01	160	5	360.8	360.9	360.8
130.0	15086	-68.3	-77.3	26	0.01	217	4	366.9	367.0	366.9
129.0	15132	-67.5	-76.5	27	0.01	227	4	369.2	369.2	369.2
126.7	15240	-67.4	-76.4	27	0.01	250	4	371.2	371.3	371.2
118.0	15668	-67.1	-76.1	27	0.01	274	4	379.4	379.5	379.4
112.0	15980	-68.9	-77.9	26	0.01	292	3	381.8	381.8	381.8
109.0	16143	-66.7	-75.7	27	0.01	301	3	388.9	389.0	388.9
100.0	16660	-68.5	-77.5	26	0.01	330	3	395.1	395.2	395.1
86.5	17530	-68.9	-77.9	26	0.01	53	8	411.0	411.1	411.0
77.3	18209	-65.5	-74.5	28	0.02	118	13	431.5	431.6	431.5
76.3	18288	-64.4	-73.7	27	0.02	125	13	435.4	435.5	435.4
74.2	18460	-62.1	-72.1	25	0.03	117	12	443.7	443.9	443.8
70.9	18741	-62.9	-72.9	25	0.03	104	10	447.8	448.0	447.9
70.0	18820	-61.5	-71.5	25	0.04	100	9	452.5	452.7	452.5
69.9	18829	-61.3	-71.3	25	0.04	100	9	453.1	453.3	453.1
60.9	19687	-58.3	-68.3	27	0.06	83	10	478.0	478.4	478.0
59.7	19812	-58.4	-68.5	26	0.06	80	10	480.4	480.8	480.4
56.9	20117	-58.7	-69.1	25	0.06	95	22	486.5	486.9	486.5
54.1	20422	-59.0	-69.6	24	0.06	110	18	492.6	493.0	492.6
51.6	20726	-59.3	-70.2	23	0.06	65	14	498.8	499.2	498.9
50.0	20920	-59.5	-70.5	23	0.06	75	20	502.8	503.2	502.9
49.1	21031	-59.7	-70.7	23	0.06	95	18	504.9	505.3	504.9
47.6	21228	-60.1	-71.1	22	0.05	85	16	508.5	508.9	508.5
46.8	21336	-59.7	-70.7	23	0.06	80	15	511.9	512.3	511.9
44.6	21641	-58.7	-69.7	23	0.07	90	17	521.5	522.0	521.5
42.8	21896	-57.9	-68.9	23	0.08	65	20	529.6	530.2	529.6
42.5	21946	-58.0	-69.0	23	0.08	60	20	530.5	531.1	530.5
41.0	22166	-58.7	-69.7	23	0.08	76	20	534.2	534.7	534.2
38.6	22555	-57.0	-68.5	22	0.10	105	21	547.8	548.6	547.9
36.2	22956	-55.3	-67.3	21	0.12	95	30	562.3	563.2	562.3
35.0	23165	-55.1	-67.3	21	0.13	90	34	568.1	569.1	568.1
30.7	24012	-54.3	-67.3	19	0.15	90	32	592.1	593.3	592.1
30.0	24160	-53.1	-66.1	19	0.18	90	32	599.3	600.7	599.3
29.4	24290	-51.9	-64.9	20	0.21	87	34	606.0	607.8	606.1
29.0	24384	-51.9	-65.1	19	0.21	85	36	608.5	610.3	608.6
26.4	24994	-51.9	-66.2	16	0.20	95	42	625.1	626.8	625.2
24.0	25603	-51.9	-67.3	14	0.19	100	34	642.2	643.8	642.2
22.9	25908	-51.9	-67.8	13	0.18	90	26	650.9	652.5	651.0
22.8	25936	-51.9	-67.9	13	0.18	90	26	651.7	653.3	651.8
20.5	26628	-49.5	-67.5	10	0.21	90	29	679.1	681.1	679.2
20.0	26790	-49.5	-67.5	10	0.22	90	30	683.9	685.9	684.0
19.0	27127	-49.5	-68.7	9	0.19	95	29	694.0	695.9	694.1
18.4	27336	-49.5	-69.5	8	0.18	92	31	700.4	702.1	700.5
18.1	27432	-49.1	-69.8	7	0.17	90	32	704.6	706.3	704.7
17.3	27737	-47.8	-70.7	5	0.16	85	35	718.2	719.8	718.2
16.9	27896	-47.1	-71.1	5	0.15	84	34	725.3	726.9	725.4
15.9	28304	-42.1	-70.1	3	0.19	83	33	754.4	756.4	754.5
14.4	28956	-39.1	-69.2	3	0.23	80	31	785.3	787.9	785.4
13.9	29221	-37.9	-68.9	2	0.26	110	30	798.2	801.0	798.3
13.8	29261	-38.0	-69.1	2	0.25	115	30	799.2	802.0	799.3
11.6	30480	-41.0	-75.6	1	0.11	110	26	830.4	831.8	830.4
11.1	30785	-41.7	-77.2	1	0.09	105	24	838.4	839.5	838.4

10.8	30944	-42.1	-78.1	1	0.08	102	34	842.5	843.6	842.6
10.6	31090	-41.7	-78.1	1	0.09	100	43	849.1	850.2	849.2
10.2	31331	-41.1	-78.1	1	0.09			860.1	861.2	860.1

Station information and sounding indices

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Station identifier: VEF
Station number: 72388
Observation time: 130705/0000
Station latitude: 36.05
Station longitude: -115.18
Station elevation: 697.0
Showalter index: 1.78
Lifted index: 0.74
LIFT computed using virtual temperature: 0.29
SWEAT index: 62.81
K index: 20.90
Cross totals index: 7.50
Vertical totals index: 39.50
Totals totals index: 47.00
Convective Available Potential Energy: 24.33
CAPE using virtual temperature: 63.41
Convective Inhibition: -111.65
CINS using virtual temperature: -68.33
Equilibrium Level: 267.94
Equilibrium Level using virtual temperature: 261.78
Level of Free Convection: 481.41
LFCT using virtual temperature: 491.41
Bulk Richardson Number: 1.80
Bulk Richardson Number using CAPV: 4.68
Temp [K] of the Lifted Condensation Level: 271.09
Pres [hPa] of the Lifted Condensation Level: 544.98
Mean mixed layer potential temperature: 322.44
Mean mixed layer mixing ratio: 6.10
1000 hPa to 500 hPa thickness: 5957.00
Precipitable water [mm] for entire sounding: 20.96

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72388 VEF Las Vegas Observations at 12Z 05 Jul 2013

PRES	HGHT	TEMP	DWPT	RELH	MIXR	DRCT	SKNT	THTA	THTE	THTV
hPa	m	C	C	%	g/kg	deg	knot	K	K	K
1000.0	-13									
926.0	697	32.2	11.2	28	9.10	310	3	312.1	340.6	313.8
925.0	708	32.4	10.4	26	8.63	320	3	312.4	339.5	314.1
921.0	747	33.0	10.0	24	8.43	328	3	313.4	340.0	315.0
904.0	914	32.2	9.2	24	8.16	5	2	314.3	340.1	315.9
873.8	1219	30.8	7.8	24	7.67	0	16	315.9	340.4	317.4
869.0	1268	30.6	7.6	24	7.59	8	14	316.2	340.4	317.6
850.0	1465	29.0	7.0	25	7.44	40	8	316.5	340.4	317.9
820.0	1783	27.0	6.0	26	7.20	27	9	317.7	340.9	319.0
815.7	1829	26.6	5.8	26	7.11	25	9	317.7	340.7	319.1
787.6	2134	24.0	4.1	27	6.56	15	4	318.1	339.4	319.4
760.6	2438	21.4	2.5	29	6.05	340	3	318.5	338.2	319.7
734.4	2743	18.8	0.8	30	5.56	305	7	318.9	337.1	320.0
734.0	2748	18.8	0.8	30	5.56	305	7	318.9	337.1	320.0
717.0	2948	18.0	0.0	30	5.37	298	10	320.2	337.8	321.2

700.0	3153	16.2	-0.2	34	5.58	290	13	320.4	338.7	321.5
683.5	3353	14.4	-0.2	37	5.55	295	11	320.6	338.8	321.7
659.0	3658	11.7	-0.8	42	5.50	265	14	320.9	339.0	321.9
621.0	4154	7.2	-1.8	53	5.43	224	14	321.2	339.1	322.3
612.4	4267	6.3	-3.0	52	5.05	215	14	321.5	338.2	322.4
568.1	4877	1.4	-9.3	45	3.35	215	17	322.7	334.0	323.3
558.0	5023	0.2	-10.8	43	3.02	216	18	322.9	333.3	323.5
514.0	5674	-5.5	-14.5	49	2.43	223	21	323.7	332.1	324.2
508.0	5766	-6.1	-17.1	41	1.98	224	21	324.1	331.0	324.4
500.0	5890	-7.1	-18.1	41	1.85	225	22	324.3	330.8	324.7
489.0	6063	-8.5	-19.5	41	1.68	225	25	324.7	330.6	325.0
486.9	6096	-8.8	-19.1	43	1.75	225	25	324.7	330.9	325.1
486.0	6111	-8.9	-18.9	44	1.78	225	25	324.8	331.0	325.1
481.0	6191	-9.9	-14.8	67	2.54	224	25	324.5	333.3	325.0
464.0	6467	-12.1	-18.1	61	1.99	222	24	325.1	332.1	325.5
456.0	6600	-13.3	-16.0	80	2.42	221	24	325.2	333.6	325.7
449.7	6706	-14.3	-16.7	82	2.32	220	24	325.3	333.4	325.7
447.0	6752	-14.7	-17.0	83	2.27	222	23	325.3	333.2	325.8
443.0	6820	-14.5	-17.6	77	2.18	226	23	326.4	334.1	326.8
440.0	6872	-14.1	-25.1	39	1.14	228	22	327.5	331.7	327.8
436.0	6941	-14.1	-27.1	32	0.96	232	21	328.4	331.9	328.6
429.0	7064	-14.9	-24.9	42	1.19	238	19	328.9	333.3	329.1
418.0	7260	-16.1	-30.1	29	0.75	247	17	329.8	332.7	329.9
414.9	7315	-16.4	-30.6	28	0.73	250	16	330.1	332.9	330.3
400.0	7590	-17.9	-32.9	26	0.60	240	16	331.6	334.0	331.8
398.4	7620	-18.1	-33.0	26	0.60	235	16	331.8	334.1	331.9
387.0	7836	-19.3	-33.3	28	0.60	223	17	332.9	335.3	333.1
366.8	8230	-22.4	-35.9	28	0.49	200	20	334.0	335.9	334.1
341.0	8764	-26.5	-39.5	28	0.37	194	25	335.4	336.9	335.5
325.0	9111	-28.1	-41.1	28	0.32	190	29	337.8	339.2	337.9
323.5	9144	-28.4	-41.4	28	0.32	190	29	337.9	339.2	338.0
309.9	9449	-30.7	-43.7	27	0.26	185	28	338.8	339.9	338.9
300.0	9680	-32.5	-45.5	26	0.22	185	27	339.4	340.4	339.5
250.0	10940	-42.7	-53.7	29	0.10	205	26	342.4	342.9	342.5
233.0	11409	-46.9	-57.9	27	0.07	216	25	343.0	343.3	343.1
226.9	11582	-48.3	-59.1	27	0.06	220	24	343.6	343.9	343.6
200.0	12400	-54.7	-64.7	28	0.03	195	32	346.0	346.1	346.0
196.9	12497	-55.5	-65.5	28	0.03	200	33	346.2	346.3	346.2
164.0	13639	-65.3	-74.3	28	0.01	228	32	348.4	348.4	348.4
161.9	13716	-65.7	-74.7	28	0.01	230	32	349.0	349.0	349.0
156.0	13942	-66.9	-75.9	27	0.01	230	31	350.7	350.7	350.7
154.0	14021	-65.7	-74.7	28	0.01	240	26	354.1	354.1	354.1
153.0	14060	-65.1	-74.1	28	0.01	242	26	355.7	355.8	355.7
151.0	14140	-65.7	-74.7	28	0.01	247	25	356.0	356.1	356.0
150.0	14180	-65.5	-74.5	28	0.01	250	24	357.1	357.1	357.1
145.0	14387	-64.7	-73.7	28	0.01	278	21	361.9	362.0	361.9
139.3	14630	-66.4	-74.7	30	0.01	310	18	363.1	363.2	363.1
137.0	14731	-67.1	-75.1	31	0.01	330	16	363.6	363.7	363.6
132.5	14935	-66.8	-75.5	29	0.01	10	11	367.6	367.6	367.6
130.0	15048	-66.7	-75.7	27	0.01	30	9	369.8	369.9	369.8
125.9	15240	-67.4	-76.1	28	0.01	65	5	371.9	371.9	371.9
118.0	15631	-68.9	-76.9	31	0.01	104	5	376.1	376.2	376.1
115.0	15786	-67.1	-76.1	27	0.01	120	5	382.2	382.3	382.2
111.0	15999	-67.5	-75.5	31	0.01	142	5	385.4	385.4	385.4
106.0	16278	-66.5	-75.5	27	0.01	170	5	392.4	392.5	392.4
100.0	16630	-67.3	-76.3	27	0.01	205	5	397.4	397.5	397.4
97.0	16815	-65.3	-74.3	28	0.02	196	6	404.8	404.9	404.8
87.6	17433	-66.5	-75.5	27	0.02	164	7	414.4	414.4	414.4
76.1	18288	-65.5	-74.5	28	0.02	120	10	433.5	433.6	433.5
74.3	18433	-65.3	-74.3	28	0.02	124	13	436.8	437.0	436.9
70.2	18782	-60.3	-69.3	30	0.05	134	20	454.7	455.0	454.7

70.0	18800	-60.3	-69.3	30	0.05	135	20	455.0	455.3	455.1
68.9	18898	-60.4	-69.4	30	0.05	155	22	456.8	457.1	456.9
65.6	19202	-60.8	-69.8	30	0.05	160	18	462.5	462.8	462.5
63.0	19455	-61.1	-70.1	29	0.05	131	14	467.2	467.5	467.2
62.5	19507	-60.5	-69.5	30	0.05	125	13	469.6	469.9	469.6
61.9	19564	-59.9	-68.9	30	0.06	130	12	472.2	472.6	472.2
59.5	19812	-61.0	-70.0	29	0.05	150	10	475.1	475.5	475.1
57.6	20011	-61.9	-70.9	29	0.05	111	10	477.5	477.8	477.5
56.6	20117	-61.6	-70.6	29	0.05	90	10	480.5	480.8	480.5
53.9	20422	-60.7	-69.7	30	0.06	70	25	489.3	489.7	489.3
50.8	20791	-59.7	-68.7	30	0.07	74	31	500.1	500.6	500.1
50.0	20890	-59.9	-68.9	30	0.07	75	33	501.9	502.4	501.9
48.9	21031	-59.9	-68.9	30	0.07	80	33	505.1	505.6	505.1
46.5	21336	-60.0	-69.0	30	0.08	85	28	511.9	512.5	512.0
44.9	21561	-60.1	-69.1	30	0.08	89	24	517.1	517.6	517.1
44.3	21641	-59.6	-68.8	29	0.08	90	22	520.1	520.7	520.1
40.5	22209	-56.3	-66.3	27	0.13	90	28	542.0	543.0	542.1
40.2	22250	-56.3	-66.3	27	0.13	90	28	543.1	544.0	543.1
36.6	22860	-55.9	-65.9	27	0.15	105	34	559.1	560.2	559.2
33.2	23470	-55.6	-65.6	28	0.17	100	21	575.6	576.9	575.7
32.7	23569	-55.5	-65.5	28	0.17	87	20	578.3	579.7	578.4
31.7	23774	-54.8	-64.8	28	0.20	60	19	585.5	587.0	585.5
30.2	24079	-53.8	-63.8	28	0.24	70	18	596.2	598.1	596.3
30.0	24120	-53.7	-63.7	28	0.24	70	19	597.6	599.6	597.7
29.8	24163	-53.5	-63.5	28	0.25	69	20	599.3	601.4	599.4
28.8	24384	-53.7	-63.7	28	0.25	65	23	604.7	606.8	604.8
27.4	24689	-54.0	-64.0	28	0.26	60	26	612.3	614.4	612.4
24.1	25523	-54.7	-64.7	28	0.26	81	34	633.3	635.6	633.4
23.2	25767	-53.3	-64.3	25	0.29	87	37	644.4	646.9	644.5
22.7	25908	-50.9	-61.9	26	0.40	90	38	655.3	658.9	655.5
22.2	26053	-48.5	-59.5	27	0.57	100	35	666.8	671.7	667.0
21.7	26213	-48.5	-59.5	27	0.58	110	32	671.4	676.5	671.6
20.6	26545	-48.5	-59.5	27	0.61	97	34	681.2	686.6	681.4
20.0	26740	-46.9	-58.9	24	0.68	90	35	691.8	698.0	692.1
19.8	26822	-46.5	-58.5	24	0.72	90	35	695.5	702.1	695.9
18.1	27408	-43.5	-55.5	25	1.14	95	36	722.6	733.2	723.1
18.0	27432	-43.5	-55.5	25	1.15	95	36	723.4	734.1	723.9
16.5	28042	-42.8	-55.5	23	1.26	95	38	744.6	756.6	745.1
15.9	28283	-42.5	-55.5	23	1.30	75	32	753.1	765.7	753.7
15.8	28346	-42.7	-55.7	23	1.28	70	30	754.6	767.1	755.2
15.1	28651	-43.4	-56.7	22	1.19	85	33	762.0	773.7	762.5
13.8	29261	-44.9	-58.7	20	1.02	75	32	776.9	787.2	777.4
13.1	29584	-45.7	-59.7	19	0.94	95	40	784.9	794.6	785.3
13.1	29566	-45.6	-59.6	19	0.94	95	40	784.4	794.1	784.9
12.6	29870	-45.3	-59.3	19	1.02	95	34	795.8	806.5	796.3
12.5	29898	-45.3	-59.3	19	1.03	95	34	796.9	807.7	797.4
11.5	30480	-41.7	-56.5	19	1.60	90	39	829.7	847.0	830.5
11.2	30639	-40.7	-55.7	18	1.80	89	42	838.9	858.5	839.8
10.5	31090	-41.8	-56.8	18	1.68	85	52	850.8	869.5	851.7
10.3	31209	-42.1	-57.1	18	1.65	93	48	854.0	872.4	854.9
10.0	31410	-40.9	-55.9	18	1.97	95	44	865.7	887.9	866.8
10.0	31394	-41.0	-56.0	18	1.94	105	41	864.8	886.6	865.8
9.6	31688	-39.9	-54.9	19	2.32			879.7	906.1	880.9

Station information and sounding indices

Station identifier: VEF
 Station number: 72388
 Observation time: 130705/1200
 Station latitude: 36.05

Station longitude: -115.18
 Station elevation: 697.0
 Showalter index: -0.35
 Lifted index: -0.26
 LIFT computed using virtual temperature: -0.70
 SWEAT index: 146.01
 K index: 27.10
 Cross totals index: 14.10
 Vertical totals index: 36.10
 Totals totals index: 50.20
 Convective Available Potential Energy: 62.62
 CAPE using virtual temperature: 85.24
 Convective Inhibition: -543.17
 CINS using virtual temperature: -486.85
 Equilibrium Level: 401.04
 Equilibrium Level using virtual temperature: 392.00
 Level of Free Convection: 505.96
 LFCT using virtual temperature: 520.08
 Bulk Richardson Number: 4.20
 Bulk Richardson Number using CAPV: 5.71
 Temp [K] of the Lifted Condensation Level: 277.36
 Pres [hPa] of the Lifted Condensation Level: 644.78
 Mean mixed layer potential temperature: 314.43
 Mean mixed layer mixing ratio: 8.12
 1000 hPa to 500 hPa thickness: 5903.00
 Precipitable water [mm] for entire sounding: 26.90

72388 VEF Las Vegas Observations at 00Z 06 Jul 2013

PRES	HGHT	TEMP	DWPT	RELH	MIXR	DRCT	SKNT	THTA	THTE	THTV
hPa	m	C	C	%	g/kg	deg	knot	K	K	K
1000.0	-29									
925.0	689									
924.0	697	40.8	6.8	13	6.75	150	10	321.1	343.2	322.4
918.0	757	38.4	3.4	11	5.35	154	14	319.3	336.8	320.3
902.4	914	36.5	-1.5	9	3.81	165	24	318.8	331.6	319.6
897.0	968	35.8	-3.2	8	3.38	168	23	318.7	330.0	319.4
872.5	1219	34.1	-4.4	8	3.19	180	18	319.5	330.2	320.1
851.0	1444	32.6	-5.4	8	3.02	223	13	320.2	330.4	320.8
850.0	1455	32.4	-4.6	9	3.21	225	13	320.1	330.9	320.7
843.3	1524	31.8	-4.5	9	3.26	215	13	320.1	331.1	320.7
814.4	1829	28.9	-4.1	11	3.49	230	28	320.2	332.0	320.9
786.5	2134	26.0	-3.6	14	3.73	225	23	320.4	332.9	321.1
759.6	2438	23.1	-3.2	17	3.99	225	21	320.4	333.8	321.2
733.6	2743	20.2	-2.8	21	4.27	220	20	320.5	334.7	321.3
711.0	3016	17.6	-2.4	25	4.53	217	19	320.5	335.6	321.4
700.0	3149	16.2	-2.8	27	4.47	215	19	320.4	335.2	321.3
683.2	3353	14.2	-3.0	30	4.52	210	19	320.4	335.4	321.3
658.8	3658	11.3	-3.2	36	4.59	230	19	320.5	335.7	321.4
645.0	3835	9.6	-3.4	40	4.64	227	18	320.5	335.9	321.4
618.0	4188	6.8	-6.2	39	3.91	221	15	321.2	334.3	322.0
612.0	4267	5.8	-6.1	42	3.98	220	14	321.0	334.3	321.8
607.0	4335	5.0	-6.0	45	4.05	224	14	320.8	334.3	321.6
599.0	4443	4.4	-10.6	33	2.86	231	13	321.3	331.1	321.9
589.5	4572	3.2	-11.8	32	2.65	240	12	321.4	330.5	321.9
583.0	4662	2.4	-12.6	32	2.50	237	13	321.5	330.1	322.0
567.6	4877	0.9	-13.6	33	2.37	230	15	322.2	330.3	322.6

554.0	5071	-0.5	-14.5	34	2.26	231	16	322.8	330.6	323.2
544.0	5217	-1.7	-10.7	50	3.13	232	17	323.0	333.7	323.6
523.0	5528	-4.7	-13.7	49	2.55	233	20	323.1	331.9	323.6
512.0	5695	-5.9	-12.9	58	2.78	234	21	323.6	333.1	324.1
503.0	5833	-6.1	-14.1	53	2.57	235	22	325.0	333.9	325.5
500.0	5880	-6.3	-15.3	49	2.34	235	22	325.3	333.5	325.8
493.0	5990	-6.5	-19.5	35	1.66	238	22	326.4	332.3	326.7
486.4	6096	-7.0	-18.6	39	1.83	240	22	327.0	333.5	327.4
475.0	6280	-7.9	-16.9	48	2.16	237	23	328.1	335.8	328.6
431.8	7010	-13.8	-22.8	47	1.43	225	28	329.7	334.9	330.0
417.0	7278	-15.9	-24.9	46	1.22	232	29	330.3	334.8	330.5
409.0	7423	-16.9	-28.9	35	0.86	236	30	330.8	334.1	331.0
406.0	7479	-17.5	-26.5	45	1.09	237	30	330.8	334.8	331.0
402.0	7553	-18.1	-30.1	34	0.78	239	31	330.9	333.9	331.1
400.0	7590	-18.5	-28.5	41	0.92	240	31	330.9	334.3	331.0
399.0	7609	-18.7	-27.7	45	0.99	240	32	330.8	334.5	331.0
398.4	7620	-18.8	-28.1	44	0.96	240	32	330.9	334.5	331.1
384.0	7894	-19.9	-36.9	21	0.42	227	26	332.9	334.6	333.0
382.4	7925	-20.1	-37.0	21	0.42	225	25	333.0	334.6	333.1
372.0	8129	-21.7	-37.7	22	0.40	225	25	333.5	335.1	333.6
356.0	8452	-24.1	-33.1	43	0.66	225	26	334.5	337.1	334.7
336.0	8872	-27.1	-39.1	31	0.39	225	27	336.0	337.6	336.1
323.5	9144	-29.2	-40.7	32	0.34	225	28	336.7	338.1	336.8
312.0	9403	-31.3	-42.3	33	0.30	220	31	337.3	338.6	337.4
300.0	9680	-33.5	-40.5	49	0.37	215	34	338.0	339.6	338.1
296.0	9774	-34.3	-41.3	49	0.35	215	35	338.2	339.6	338.3
284.1	10058	-36.7	-42.8	53	0.31	215	39	338.8	340.1	338.9
282.0	10110	-37.1	-43.1	54	0.30	214	38	338.9	340.1	339.0
271.0	10383	-38.7	-43.2	62	0.31	208	35	340.4	341.7	340.5
251.0	10903	-42.5	-48.5	52	0.19	196	27	342.4	343.1	342.4
250.0	10930	-42.5	-48.5	52	0.19	195	27	342.7	343.6	342.8
241.0	11177	-44.9	-52.9	40	0.12	195	26	342.8	343.3	342.8
237.3	11278	-45.8	-53.9	39	0.11	195	25	342.9	343.4	342.9
216.4	11887	-51.0	-60.0	34	0.05	185	33	343.9	344.2	343.9
214.0	11962	-51.7	-60.7	33	0.05	190	33	344.0	344.2	344.0
206.5	12192	-52.6	-62.2	30	0.04	205	32	346.2	346.4	346.2
202.0	12336	-53.1	-63.1	29	0.04	205	33	347.5	347.7	347.5
200.0	12400	-53.9	-63.9	28	0.04	205	34	347.2	347.4	347.3
187.8	12802	-56.6	-66.6	27	0.03	205	35	349.2	349.3	349.2
184.0	12930	-57.5	-67.5	27	0.02	209	31	349.8	349.9	349.8
180.0	13069	-57.1	-67.1	27	0.03	214	27	352.6	352.8	352.6
171.0	13391	-59.9	-69.9	26	0.02	224	18	353.2	353.3	353.2
170.4	13411	-59.7	-69.7	26	0.02	225	17	353.8	353.9	353.8
169.0	13464	-59.3	-69.3	26	0.02	218	16	355.4	355.5	355.4
162.3	13716	-61.4	-70.8	28	0.02	185	14	356.1	356.2	356.1
158.0	13882	-62.7	-71.7	29	0.02	183	13	356.5	356.6	356.5
150.0	14200	-64.5	-73.5	28	0.01	180	10	358.8	358.8	358.8
149.0	14241	-64.3	-73.3	28	0.01	180	10	359.8	359.9	359.8
146.9	14326	-64.9	-73.9	28	0.01	180	9	360.2	360.2	360.2
140.0	14619	-67.1	-76.1	27	0.01	201	17	361.4	361.4	361.4
138.0	14706	-66.7	-75.7	27	0.01	207	19	363.6	363.6	363.6
137.0	14750	-67.5	-76.5	27	0.01	210	20	362.9	362.9	362.9
133.0	14928	-67.1	-76.1	27	0.01	229	23	366.7	366.7	366.7
132.8	14935	-67.1	-76.1	27	0.01	230	23	366.7	366.8	366.7
130.0	15065	-67.9	-76.9	27	0.01	232	21	367.7	367.7	367.7
126.3	15240	-67.0	-76.0	27	0.01	235	19	372.4	372.5	372.4
120.1	15545	-65.3	-74.3	28	0.01	245	15	380.8	380.9	380.8
120.0	15549	-65.3	-74.3	28	0.01	247	15	380.9	381.0	380.9
117.0	15703	-66.3	-75.3	27	0.01	304	7	381.9	381.9	381.9
114.2	15850	-66.3	-75.3	27	0.01	0	0	384.5	384.6	384.5
113.0	15913	-66.3	-75.3	27	0.01	37	4	385.7	385.7	385.7

109.0	16130	-67.7	-76.7	27	0.01	166	16	387.0	387.1	387.0
108.6	16154	-67.3	-76.3	27	0.01	180	17	388.2	388.3	388.2
108.0	16186	-66.7	-75.7	27	0.01	180	17	389.9	390.0	389.9
106.0	16299	-67.3	-76.3	27	0.01	179	15	390.9	390.9	390.9
102.0	16531	-66.7	-75.7	27	0.01	176	12	396.3	396.4	396.4
100.0	16650	-67.5	-76.5	27	0.01	175	10	397.1	397.1	397.1
98.6	16735	-68.3	-77.3	26	0.01	176	10	397.1	397.2	397.1
96.2	16884	-65.3	-74.3	28	0.02	177	10	405.8	405.9	405.8
92.1	17151	-63.3	-73.3	25	0.02	180	11	414.8	414.9	414.8
83.3	17772	-62.1	-72.1	25	0.03	185	11	429.3	429.5	429.3
80.5	17983	-63.3	-73.3	25	0.02	187	12	431.1	431.2	431.1
77.7	18203	-60.3	-70.3	26	0.04	189	12	441.7	441.9	441.7
76.6	18288	-60.8	-70.8	26	0.04	190	12	442.4	442.6	442.4
73.0	18593	-62.5	-72.5	25	0.03	280	1	445.0	445.1	445.0
72.2	18659	-62.9	-72.9	25	0.03	312	2	445.5	445.7	445.5
70.0	18850	-62.7	-72.7	25	0.03	45	4	449.9	450.1	449.9
67.6	19064	-63.3	-73.3	25	0.03	53	7	453.1	453.3	453.1
62.9	19507	-62.4	-73.0	23	0.03	70	13	464.6	464.8	464.6
60.7	19727	-61.9	-72.9	22	0.03	85	15	470.4	470.6	470.4
60.0	19799	-60.5	-71.5	22	0.04	89	16	475.1	475.4	475.1
55.8	20249	-62.1	-73.1	22	0.03	119	19	481.4	481.6	481.4
54.3	20422	-61.5	-72.5	22	0.04	130	21	486.6	486.9	486.6
51.2	20782	-60.3	-71.3	22	0.05	119	19	497.6	497.9	497.6
50.0	20930	-58.5	-69.5	23	0.07	115	18	505.2	505.6	505.2
49.2	21031	-57.9	-69.1	23	0.07	115	18	508.8	509.3	508.9
46.9	21336	-56.2	-68.0	21	0.09	90	20	520.0	520.6	520.0
46.2	21430	-55.7	-67.7	21	0.09	87	20	523.5	524.1	523.5
42.6	21946	-56.4	-68.9	19	0.08	70	21	534.0	534.6	534.0
38.7	22555	-57.3	-70.2	18	0.08	100	26	546.7	547.3	546.8
38.5	22586	-57.3	-70.3	18	0.08	97	27	547.4	548.0	547.4
36.9	22860	-55.3	-70.3	14	0.08	75	32	559.3	559.9	559.3
36.9	22856	-55.3	-70.3	14	0.08	75	32	559.2	559.8	559.2
35.8	23048	-56.5	-70.5	16	0.08	93	30	561.0	561.6	561.0
35.1	23165	-55.5	-70.3	14	0.08	105	29	566.5	567.1	566.5
35.0	23192	-55.3	-70.3	14	0.08	105	30	567.7	568.4	567.8
34.4	23302	-56.5	-71.5	13	0.07	103	32	567.4	568.0	567.4
33.5	23470	-55.5	-71.3	12	0.08	100	36	574.3	574.9	574.3
30.5	24079	-51.9	-70.4	9	0.09	95	23	599.9	600.6	599.9
30.0	24180	-51.3	-70.3	9	0.10	95	24	604.2	605.0	604.2
29.1	24384	-50.6	-72.6	6	0.07	95	25	611.6	612.2	611.6
27.8	24689	-49.5	-76.1	3	0.04	85	27	622.9	623.3	622.9
27.1	24844	-48.9	-77.9	2	0.03	93	29	628.7	629.0	628.7
26.6	24966	-50.5	-78.5	2	0.03	99	31	627.6	627.9	627.6
26.0	25115	-48.9	-81.9	1	0.02	106	33	636.2	636.4	636.2
25.3	25298	-50.2				115	35	637.7		637.7
25.1	25345	-50.5				113	35	638.1		638.1
24.4	25531	-48.7				105	35	648.4		648.4
23.0	25908	-48.6				90	34	659.4		659.4
22.0	26213	-48.6				95	38	668.4		668.4
21.1	26486	-48.5				95	34	676.5		676.5
20.0	26840	-45.9				95	28	694.9		694.9
19.3	27078	-44.1				103	23	707.6		707.6
19.2	27127	-44.4				105	22	708.0		708.0
18.5	27362	-46.1				93	22	709.9		709.9
18.3	27432	-45.3				90	22	714.5		714.5
18.2	27471	-44.9				89	22	717.0		717.0
16.9	27965	-46.3				78	27	727.9		727.9
16.8	28005	-44.9				77	27	733.6		733.6
16.6	28085	-46.3				76	28	731.6		731.6
16.0	28346	-46.3				70	30	739.9		739.9
15.8	28413	-46.3				72	32	742.0		742.0

15.6	28499	-44.5	74	34	750.6	750.6
14.8	28852	-44.1	82	42	763.3	763.3
14.6	28956	-41.5	85	44	775.2	775.2
14.5	28990	-40.7	86	44	779.2	779.2
14.4	29038	-41.9	87	43	776.7	776.7
13.2	29632	-38.7	104	37	807.3	807.3
12.9	29790	-39.7	108	35	809.1	809.1
12.8	29870	-38.0	110	34	817.6	817.6
12.7	29897	-37.5	110	34	820.4	820.4
12.5	30006	-39.3	109	32	817.9	817.9
12.3	30117	-37.3	108	31	828.7	828.7
12.1	30231	-37.3	107	29	832.5	832.5
12.0	30288	-38.9	107	29	828.9	828.9
11.7	30480	-37.6	105	26	840.2	840.2
11.6	30522	-37.3	104	26	842.6	842.6
11.5	30581	-38.5	102	25	840.4	840.4
11.2	30764	-36.1	96	24	855.5	855.5
10.9	30953	-37.3	90	23	857.8	857.8
10.7	31090	-36.2	85	22	866.8	866.8
10.6	31146	-35.7	84	23	870.5	870.5
10.5	31212	-36.9	82	24	868.5	868.5
10.1	31481	-37.3	77	28	876.7	876.7
10.0	31550	-36.3	75	29	882.9	882.9
9.9	31620	-35.9	76	32	886.9	886.9
9.4	32004	-37.8	80	47	893.8	893.8
9.4	31978	-37.9	80	46	892.6	892.6
9.0	32309	-36.8	75	39	909.1	909.1
8.7	32513	-36.1			919.5	919.5

Station information and sounding indices

Station identifier: VEF
 Station number: 72388
 Observation time: 130706/0000
 Station latitude: 36.05
 Station longitude: -115.18
 Station elevation: 697.0
 Showalter index: 4.59
 Lifted index: 3.92

LIFT computed using virtual temperature: 3.74
 SWEAT index: 48.00
 K index: 15.10
 Cross totals index: 1.70
 Vertical totals index: 38.70
 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: 0.00
 Bulk Richardson Number: 0.00

Bulk Richardson Number using CAPV: 0.00

Temp [K] of the Lifted Condensation Level: 264.84

Pres [hPa] of the Lifted Condensation Level: 520.57

Mean mixed layer potential temperature: 319.16

Mean mixed layer mixing ratio: 4.07

1000 hPa to 500 hPa thickness: 5909.00

Precipitable water [mm] for entire sounding: 18.23

72388 VEF Las Vegas Observations at 12Z 06 Jul 2013

PRES	HGHT	TEMP	DWPT	RELH	MIXR	DRCT	SKNT	THTA	THTE	THTV
hPa	m	C	C	%	g/kg	deg	knot	K	K	K
1000.0	-6									
926.0	697	32.0	9.0	24	7.84	165	11	311.9	336.5	313.4
925.0	711	31.8	7.8	22	7.22	170	12	311.8	334.6	313.2
921.0	750	31.4	3.4	17	5.33	173	13	311.8	328.8	312.8
904.2	914	30.4	2.9	17	5.26	185	17	312.4	329.2	313.4
892.0	1035	29.6	2.6	18	5.20	195	18	312.8	329.5	313.8
873.7	1219	28.7	2.2	18	5.15	210	19	313.8	330.3	314.7
850.0	1463	27.6	1.6	19	5.08	235	20	315.0	331.5	316.0
840.0	1567	27.2	1.2	18	4.99	235	18	315.7	331.9	316.6
815.1	1829	25.3	0.5	20	4.87	235	12	316.4	332.3	317.3
787.0	2134	23.0	-0.4	21	4.74	240	16	317.2	332.7	318.1
760.0	2438	20.8	-1.3	23	4.60	205	14	317.9	333.0	318.8
739.0	2681	19.0	-2.0	24	4.49	193	16	318.5	333.3	319.4
733.7	2743	18.4	-2.0	25	4.51	190	17	318.6	333.4	319.4
700.0	3143	14.8	-2.2	31	4.67	195	15	318.8	334.2	319.7
661.0	3624	10.8	-5.2	32	3.95	200	20	319.6	332.8	320.4
658.3	3658	10.5	-5.3	33	3.95	200	20	319.6	332.8	320.4
610.9	4267	5.2	-6.2	43	3.94	220	19	320.4	333.6	321.2
566.9	4877	-0.1	-7.2	59	3.94	190	15	321.1	334.3	321.9
556.0	5035	-1.5	-7.5	64	3.93	194	16	321.2	334.4	322.0
540.0	5267	-3.3	-9.3	63	3.52	200	18	321.8	333.7	322.5
517.0	5609	-6.3	-10.6	72	3.32	208	22	322.2	333.4	322.9
500.0	5870	-8.3	-13.3	67	2.76	215	24	322.9	332.3	323.4
499.0	5886	-8.3	-13.3	67	2.76	215	24	323.0	332.5	323.6
485.6	6096	-10.3	-14.6	71	2.55	215	24	323.1	331.9	323.6
479.0	6201	-11.3	-15.3	72	2.44	214	24	323.1	331.6	323.6
470.0	6346	-12.1	-18.1	61	1.97	213	23	323.9	330.8	324.3
459.0	6527	-13.7	-20.7	56	1.61	212	23	324.1	329.8	324.4
443.0	6796	-14.7	-28.7	29	0.81	209	22	326.1	329.2	326.3
413.4	7315	-18.2	-34.0	24	0.52	205	20	328.1	330.1	328.2
411.0	7358	-18.5	-34.5	23	0.50	205	21	328.3	330.2	328.4
400.0	7560	-19.5	-34.5	25	0.52	205	24	329.6	331.6	329.7
397.0	7616	-19.9	-33.9	28	0.55	205	24	329.8	331.9	329.9
396.8	7620	-19.9	-34.0	28	0.55	205	24	329.8	331.9	329.9
385.0	7843	-20.9	-37.9	20	0.38	206	27	331.3	332.8	331.4
370.0	8136	-22.5	-38.5	22	0.37	207	30	333.0	334.5	333.1
352.0	8500	-25.3	-38.3	29	0.40	208	34	334.0	335.6	334.1
324.0	9097	-29.5	-45.5	20	0.20	210	41	336.2	337.1	336.2
321.8	9144	-30.0	-45.7	20	0.20	210	42	336.2	337.0	336.2
308.2	9449	-33.0	-47.1	23	0.18	210	45	336.1	336.9	336.2
300.0	9640	-34.9	-47.9	25	0.17	210	44	336.1	336.8	336.1
295.0	9757	-35.9	-48.9	25	0.15	212	44	336.3	336.9	336.3
289.0	9899	-35.9	-49.9	22	0.14	214	44	338.2	338.8	338.3
270.1	10363	-38.7	-53.2	20	0.10	220	43	340.8	341.3	340.9
252.0	10836	-41.5	-56.5	18	0.07	216	43	343.4	343.8	343.5
250.0	10890	-42.1	-57.1	18	0.07	215	43	343.3	343.6	343.4
215.1	11887	-49.1	-62.1	21	0.04	205	33	347.5	347.7	347.6
200.0	12370	-52.5	-64.5	22	0.03	215	37	349.5	349.6	349.5
161.5	13716	-62.7	-72.8	24	0.01	230	34	354.4	354.4	354.4
158.0	13853	-63.7	-73.7	24	0.01	233	32	354.8	354.9	354.8
151.0	14130	-64.9	-74.9	24	0.01	239	27	357.4	357.5	357.4
150.0	14170	-64.9	-74.9	24	0.01	240	26	358.1	358.1	358.1
144.0	14419	-64.3	-74.3	24	0.01	240	25	363.3	363.4	363.3

137.0	14721	-66.5	-76.5	23	0.01	240	24	364.7	364.7	364.7
125.8	15240	-65.9	-75.9	24	0.01	255	14	374.8	374.8	374.8
122.0	15423	-65.7	-75.7	24	0.01	250	12	378.4	378.5	378.4
118.0	15624	-67.5	-77.5	23	0.01	244	11	378.7	378.8	378.7
116.0	15727	-67.1	-77.1	23	0.01	241	10	381.3	381.4	381.3
113.0	15885	-68.5	-78.5	23	0.01	236	8	381.6	381.6	381.6
108.0	16156	-66.9	-76.9	23	0.01	228	6	389.6	389.6	389.6
100.0	16620	-67.1	-77.1	23	0.01	215	2	397.8	397.9	397.8
95.5	16899	-66.9	-76.9	23	0.01	183	5	403.5	403.6	403.5
92.5	17094	-63.5	-73.5	25	0.02	161	8	413.9	414.0	413.9
89.2	17318	-63.9	-73.9	24	0.02	136	11	417.4	417.5	417.4
87.4	17444	-62.5	-73.5	21	0.02	121	12	422.7	422.8	422.7
84.1	17678	-63.5	-74.1	23	0.02	95	15	425.1	425.3	425.1
80.7	17935	-64.7	-74.7	24	0.02	124	12	427.9	428.0	427.9
80.1	17983	-64.7	-74.7	24	0.02	130	12	428.8	428.9	428.8
76.2	18288	-64.7	-74.7	24	0.02	135	12	435.0	435.1	435.0
76.1	18295	-64.7	-74.7	24	0.02	135	12	435.1	435.2	435.1
75.1	18376	-63.3	-74.3	21	0.02	136	13	439.7	439.8	439.7
70.0	18810	-63.5	-74.5	21	0.02	140	15	448.2	448.3	448.2
65.7	19202	-63.5	-74.5	21	0.02	110	6	456.4	456.6	456.5
64.5	19312	-63.5	-74.5	21	0.02	111	7	458.8	459.0	458.8
58.4	19930	-57.7	-69.7	20	0.05	114	13	485.1	485.4	485.1
56.7	20117	-58.4	-70.2	21	0.05	115	15	487.6	487.9	487.6
54.0	20422	-59.6	-71.1	21	0.05	70	24	491.7	492.0	491.7
50.0	20900	-61.5	-72.5	22	0.04	90	21	498.1	498.4	498.1
49.3	20987	-61.7	-72.7	22	0.04	103	28	499.7	500.0	499.7
49.0	21031	-61.5	-72.5	22	0.04	110	31	501.2	501.5	501.2
46.6	21336	-59.8	-71.4	21	0.05	115	24	512.2	512.6	512.2
45.1	21543	-58.7	-70.7	20	0.06	112	24	519.8	520.3	519.8
41.8	22020	-58.9	-70.9	20	0.06	106	25	530.7	531.2	530.8
38.3	22574	-54.9	-66.9	21	0.12	99	26	554.3	555.2	554.4
36.6	22860	-55.5	-67.5	21	0.12	95	27	559.9	560.8	560.0
34.9	23165	-56.1	-68.2	21	0.11	75	26	566.0	566.9	566.0
33.3	23470	-56.8	-68.8	21	0.11	90	27	572.1	572.9	572.1
33.0	23522	-56.9	-68.9	21	0.11	87	28	573.1	574.0	573.1
31.7	23774	-55.4	-68.2	19	0.12	75	30	583.7	584.7	583.8
31.5	23818	-55.1	-68.1	18	0.13	77	30	585.6	586.6	585.7
30.0	24130	-54.7	-67.7	19	0.14	95	27	594.9	596.1	595.0
28.8	24384	-54.2	-67.4	18	0.15	90	24	603.2	604.4	603.2
25.2	25251	-52.3	-66.3	17	0.20	108	30	632.2	633.9	632.3
23.9	25603	-49.7	-64.3	17	0.28	115	33	649.5	652.0	649.6
22.8	25908	-47.5	-62.5	16	0.37	90	30	664.7	668.1	664.9
22.8	25905	-47.5	-62.5	16	0.37	90	30	664.7	668.0	664.8
20.0	26770	-47.9	-63.9	14	0.35	85	34	688.8	692.1	688.9
19.6	26903	-47.7	-63.7	14	0.37	87	35	693.4	696.9	693.5
18.9	27127	-46.0	-62.5	14	0.45	90	37	705.5	709.8	705.7
18.5	27287	-44.7	-61.7	13	0.51	106	33	714.3	719.2	714.5
18.1	27432	-44.9	-62.0	13	0.50	120	29	718.2	723.0	718.5
17.3	27737	-45.2	-62.7	12	0.48	100	25	726.5	731.2	726.7
15.9	28296	-45.9	-63.9	11	0.45	95	23	742.0	746.4	742.2
15.8	28346	-45.4	-63.7	11	0.46	95	23	745.3	750.0	745.5
15.3	28553	-43.1	-63.1	9	0.51	85	22	759.4	764.7	759.7
15.1	28651	-42.8	-63.0	9	0.53	80	22	763.5	768.9	763.7
14.2	29057	-41.7	-62.7	8	0.58	70	30	780.5	786.6	780.8
13.8	29261	-41.7	-63.6	7	0.53	65	34	787.4	793.1	787.6
12.6	29870	-41.5	-66.3	5	0.41	90	46	808.3	812.8	808.5
12.1	30141	-41.5	-67.5	4	0.36	83	47	817.7	821.8	817.9
11.5	30480	-43.7	-71.2	3	0.22	75	49	821.7	824.3	821.8
11.3	30601	-44.5	-72.5	3	0.19	76	48	823.1	825.3	823.2
10.0	31420	-43.7	-74.7	2	0.15	85	43	855.3	857.2	855.4
9.2	32004	-42.5	-75.2	2	0.15	105	52	881.1	883.1	881.2

Station information and sounding indices

Station identifier: VEF
 Station number: 72388
 Observation time: 130706/1200
 Station latitude: 36.05
 Station longitude: -115.18
 Station elevation: 697.0
 Showalter index: 2.33
 Lifted index: 3.21
 LIFT computed using virtual temperature: 3.14
 SWEAT index: 83.22
 K index: 20.50
 Cross totals index: 9.90
 Vertical totals index: 35.90
 Totals totals index: 45.80
 Convective Available Potential Energy: 0.00
 CAPE using virtual temperature: 0.00
 Convective Inhibition: 0.00
 CINS using virtual temperature: 0.00
 Bulk Richardson Number: 0.00
 Bulk Richardson Number using CAPV: 0.00
 Temp [K] of the Lifted Condensation Level: 270.75
 Pres [hPa] of the Lifted Condensation Level: 605.11
 Mean mixed layer potential temperature: 312.55
 Mean mixed layer mixing ratio: 5.36
 1000 hPa to 500 hPa thickness: 5876.00
 Precipitable water [mm] for entire sounding: 21.15

72388 VEF Las Vegas Observations at 00Z 07 Jul 2013

PRES	HGHT	TEMP	DWPT	RELH	MIXR	DRCT	SKNT	THTA	THTE	THTV
hPa	m	C	C	%	g/kg	deg	knot	K	K	K
1000.0	-14									
926.0	697	40.6	5.6	12	6.19	180	10	320.7	341.1	321.9
925.0	704	40.4	5.4	12	6.11	180	10	320.6	340.7	321.8
922.0	734	38.2	3.2	11	5.25	180	10	318.7	335.9	319.7
918.0	773	37.0	3.0	12	5.20	180	10	317.8	334.8	318.8
903.9	914	35.5	0.8	11	4.49	180	9	317.6	332.4	318.5
898.0	973	34.8	-0.2	11	4.22	178	9	317.6	331.5	318.4
873.7	1219	32.5	-0.5	12	4.24	170	10	317.7	331.7	318.5
850.0	1466	30.2	-0.8	13	4.26	165	9	317.8	331.8	318.6
815.5	1829	26.8	-1.0	16	4.38	175	9	317.9	332.4	318.8
787.5	2134	23.9	-1.2	19	4.48	170	7	318.0	332.8	318.9
760.6	2438	21.0	-1.3	22	4.59	185	5	318.1	333.1	318.9
748.0	2584	19.6	-1.4	24	4.64	209	7	318.1	333.3	319.0
734.2	2743	18.1	-1.5	26	4.69	235	10	318.1	333.5	319.0
700.0	3149	14.2	-1.8	33	4.81	235	14	318.2	334.0	319.1
683.1	3353	12.4	-2.2	36	4.80	230	13	318.4	334.1	319.3
658.7	3658	9.6	-2.7	42	4.78	255	15	318.6	334.3	319.5
655.0	3705	9.2	-2.8	43	4.78	257	15	318.6	334.3	319.6
636.0	3949	8.0	-3.0	46	4.85	265	18	320.0	335.9	320.9
635.0	3962	7.9	-3.1	46	4.83	265	18	320.0	335.9	320.9
611.6	4267	5.3	-4.4	49	4.54	240	14	320.5	335.6	321.4

567.4	4877	0.3	-7.1	58	3.98	230	16	321.5	334.8	322.2
561.0	4969	-0.5	-7.5	59	3.90	226	17	321.6	334.7	322.4
552.0	5099	-0.7	-9.7	51	3.34	219	19	322.9	334.2	323.5
529.0	5437	-3.7	-11.7	54	2.97	202	22	323.2	333.4	323.8
525.7	5486	-4.1	-11.6	56	3.00	200	23	323.3	333.6	323.9
502.0	5849	-7.1	-11.1	73	3.28	205	25	323.9	335.1	324.6
500.0	5880	-7.3	-11.6	71	3.17	205	25	324.1	334.9	324.7
491.0	6021	-8.3	-13.2	68	2.83	205	26	324.5	334.3	325.1
486.3	6096	-9.0	-13.5	70	2.80	205	27	324.6	334.2	325.1
480.0	6197	-9.9	-13.8	73	2.76	205	27	324.7	334.2	325.2
474.0	6294	-10.5	-13.9	76	2.77	206	27	325.1	334.7	325.6
457.0	6574	-12.5	-19.5	56	1.80	206	28	326.0	332.4	326.4
452.0	6658	-13.1	-17.4	70	2.17	207	28	326.3	333.9	326.7
447.0	6743	-13.5	-17.7	71	2.14	207	28	326.8	334.4	327.2
434.0	6967	-14.9	-22.9	51	1.41	207	28	327.8	332.9	328.1
426.0	7107	-15.3	-29.3	29	0.80	208	29	329.0	332.1	329.2
413.0	7341	-16.9	-31.9	26	0.64	208	29	329.9	332.4	330.0
400.0	7580	-18.5	-33.5	26	0.57	209	29	330.9	333.1	331.0
381.7	7925	-21.4	-35.9	26	0.47	210	30	331.5	333.3	331.6
368.0	8195	-23.7	-37.7	26	0.41	207	30	331.9	333.5	332.0
355.0	8457	-24.5	-38.5	26	0.39	205	31	334.3	335.8	334.4
344.0	8686	-26.3	-34.3	47	0.61	203	31	334.9	337.2	335.0
338.0	8812	-27.5	-34.5	51	0.61	201	31	334.9	337.3	335.0
327.0	9050	-28.7	-44.7	20	0.22	199	31	336.4	337.3	336.5
321.0	9182	-29.7	-46.7	18	0.18	198	32	336.8	337.6	336.9
309.1	9449	-31.9	-48.4	18	0.15	195	32	337.4	338.0	337.4
300.0	9660	-33.7	-49.7	18	0.14	195	33	337.8	338.3	337.8
294.0	9801	-35.1	-51.1	18	0.12	197	34	337.7	338.2	337.8
270.9	10363	-38.3	-53.6	18	0.10	205	37	341.1	341.6	341.1
261.0	10619	-39.7	-54.7	19	0.09	209	34	342.7	343.1	342.7
259.1	10668	-40.1	-54.9	19	0.09	210	34	342.8	343.2	342.8
250.0	10910	-42.1	-56.1	20	0.08	205	31	343.3	343.7	343.4
236.7	11278	-44.8	-58.2	21	0.06	200	32	344.6	344.9	344.6
228.0	11528	-46.7	-59.7	21	0.05	200	31	345.5	345.7	345.5
218.0	11826	-47.9	-60.9	21	0.05	200	30	348.1	348.3	348.1
200.0	12390	-52.3	-64.3	22	0.03	200	28	349.8	349.9	349.8
190.0	12720	-54.9	-66.9	21	0.02	202	28	350.8	350.9	350.8
170.2	13411	-59.4	-70.4	23	0.02	205	28	354.4	354.5	354.4
155.0	13999	-63.3	-73.3	25	0.01	224	26	357.5	357.5	357.5
154.4	14021	-63.5	-73.5	25	0.01	225	26	357.5	357.6	357.5
150.0	14200	-65.1	-75.1	24	0.01	215	27	357.7	357.8	357.7
147.0	14323	-66.1	-76.1	23	0.01	210	29	358.1	358.1	358.1
146.9	14326	-66.1	-76.1	23	0.01	210	29	358.1	358.2	358.1
142.0	14533	-65.9	-75.9	24	0.01	210	30	362.0	362.0	362.0
138.0	14706	-67.1	-77.1	23	0.01	210	30	362.9	362.9	362.9
136.0	14794	-66.5	-76.5	23	0.01	210	31	365.4	365.5	365.4
133.0	14928	-67.1	-77.1	23	0.01	210	31	366.7	366.7	366.7
131.0	15020	-66.7	-76.7	23	0.01	210	31	369.0	369.0	369.0
126.3	15240	-67.3	-77.3	23	0.01	210	32	371.8	371.8	371.8
122.0	15449	-67.9	-77.9	23	0.01			374.4	374.4	374.4
116.0	15753	-66.7	-76.7	23	0.01			382.0	382.1	382.1
110.0	16073	-67.7	-77.7	23	0.01			386.0	386.1	386.0
106.0	16296	-66.9	-76.9	23	0.01			391.6	391.7	391.6
104.0	16411	-67.3	-77.3	23	0.01			393.0	393.1	393.0
102.0	16529	-64.7	-74.7	24	0.01			400.2	400.3	400.2
100.0	16650	-64.3	-74.3	24	0.02			403.2	403.3	403.2
86.9	17509	-62.5	-73.5	21	0.02			423.4	423.5	423.4
77.4	18216	-64.9	-74.9	24	0.02			432.6	432.7	432.6
76.5	18288	-64.6	-74.7	24	0.02	10	1	434.8	434.9	434.8
70.5	18786	-62.3	-73.3	22	0.03	125	7	449.8	450.0	449.9
70.0	18830	-62.5	-73.5	21	0.03	135	7	450.3	450.5	450.3

62.7	19507	-62.9	-73.9	21	0.03	60	14	463.9	464.0	463.9
59.7	19812	-63.0	-74.0	21	0.03	100	20	470.1	470.3	470.1
58.8	19905	-63.1	-74.1	21	0.03	101	21	472.0	472.2	472.0
54.1	20422	-62.1	-73.1	22	0.04	105	25	485.7	485.9	485.7
52.2	20641	-61.7	-72.7	22	0.04	116	23	491.6	491.9	491.6
51.5	20726	-60.8	-71.8	22	0.05	120	22	495.7	496.0	495.7
50.0	20910	-58.7	-69.7	23	0.06	100	20	504.7	505.2	504.7
49.0	21031	-58.1	-69.1	23	0.07	95	21	509.0	509.5	509.0
48.2	21141	-57.5	-68.5	23	0.08	102	20	512.9	513.4	512.9
46.7	21340	-58.3	-69.3	23	0.07	115	18	515.6	516.1	515.6
46.7	21336	-58.3	-69.3	23	0.07	115	18	515.6	516.1	515.6
44.5	21641	-57.5	-68.8	22	0.08	90	20	524.8	525.3	524.8
42.4	21946	-56.6	-68.4	21	0.09	105	19	534.2	534.8	534.2
41.3	22117	-56.1	-68.1	21	0.10	88	20	539.5	540.2	539.5
40.4	22250	-56.4	-68.4	21	0.09	75	20	542.0	542.7	542.1
38.5	22555	-57.0	-69.0	20	0.09	105	21	547.9	548.5	547.9
38.4	22579	-57.1	-69.1	20	0.09	104	21	548.3	549.0	548.4
35.7	23042	-55.5	-67.5	21	0.12	89	23	564.0	565.0	564.0
35.0	23165	-55.7	-67.7	21	0.12	85	24	566.7	567.6	566.7
32.1	23718	-56.5	-68.5	21	0.12	94	27	578.7	579.7	578.8
30.3	24079	-54.2	-66.2	21	0.17	100	29	594.5	595.9	594.6
30.0	24150	-53.7	-65.7	22	0.19	100	28	597.6	599.1	597.7
28.9	24384	-52.5	-64.9	21	0.21	100	28	607.1	608.9	607.2
27.4	24737	-50.7	-63.7	20	0.27	97	33	621.7	623.9	621.8
26.4	24994	-50.4	-63.7	19	0.28	95	36	629.5	631.8	629.6
22.9	25911	-49.5	-63.5	18	0.33	99	27	657.9	660.8	658.1
21.9	26213	-47.6	-62.0	18	0.42	100	24	672.2	675.9	672.4
20.4	26677	-44.7	-59.7	17	0.60	88	31	694.6	700.1	694.9
20.0	26810	-45.3	-60.3	17	0.57	85	33	696.7	702.0	697.0
19.1	27127	-46.1	-61.7	15	0.50	90	36	703.8	708.5	704.0
18.4	27365	-46.7	-62.7	14	0.45	94	31	709.1	713.4	709.4
18.2	27432	-46.4	-62.4	15	0.47	95	29	712.0	716.5	712.3
17.2	27814	-44.9	-60.9	15	0.61	94	30	728.7	734.6	729.0
14.1	29141	-45.1	-62.1	13	0.64	90	34	770.6	777.1	770.9
13.8	29261	-44.2	-61.2	13	0.73	90	34	777.6	785.1	777.9
13.6	29383	-43.3	-60.3	14	0.83			784.7	793.4	785.1

Station information and sounding indices

Station identifier: VEF
 Station number: 72388
 Observation time: 130707/0000
 Station latitude: 36.05
 Station longitude: -115.18
 Station elevation: 697.0
 Showalter index: 3.16
 Lifted index: 2.63

LIFT computed using virtual temperature: 2.56
 SWEAT index: 42.99
 K index: 20.70
 Cross totals index: 6.50
 Vertical totals index: 37.50
 Totals totals index: 44.00

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: 267.37

Pres [hPa] of the Lifted Condensation Level: 545.79
 Mean mixed layer potential temperature: 317.88
 Mean mixed layer mixing ratio: 4.62
 1000 hPa to 500 hPa thickness: 5894.00
 Precipitable water [mm] for entire sounding: 21.36

72388 VEF Las Vegas Observations at 12Z 07 Jul 2013

PRES	HGHT	TEMP	DWPT	RELH	MIXR	DRCT	SKNT	THTA	THTE	THTV
hPa	m	C	C	%	g/kg	deg	knot	K	K	K
1000.0	5									
927.0	697	31.0	6.0	21	6.36	300	2	310.8	330.9	312.0
925.0	720	31.2	3.2	17	5.23	255	2	311.2	327.9	312.2
911.0	857	33.0	2.0	14	4.88	216	6	314.4	330.2	315.3
905.2	914	32.6	1.6	14	4.79	200	7	314.6	330.1	315.5
901.0	956	32.4	1.4	14	4.72	201	8	314.8	330.1	315.7
874.8	1219	30.3	1.3	16	4.83	210	12	315.2	330.9	316.2
850.0	1475	28.2	1.2	17	4.93	215	14	315.7	331.7	316.6
815.9	1829	25.1	0.7	20	4.96	185	11	316.1	332.2	317.0
787.6	2134	22.4	0.3	23	4.99	180	12	316.4	332.6	317.3
760.4	2438	19.7	-0.1	26	5.01	175	12	316.7	333.0	317.6
734.0	2743	17.0	-0.5	30	5.04	180	13	316.9	333.3	317.9
706.0	3079	14.0	-1.0	36	5.06	164	11	317.2	333.7	318.1
700.0	3151	13.4	-0.6	38	5.26	160	11	317.3	334.4	318.3
658.3	3658	8.9	-1.0	50	5.42	155	12	317.9	335.5	318.9
611.5	4267	3.6	-1.6	69	5.61	165	16	318.5	336.8	319.6
600.0	4424	2.2	-1.7	75	5.66	173	16	318.6	337.1	319.7
581.0	4684	0.8	-2.7	77	5.43	185	15	319.9	337.7	321.0
567.1	4877	-0.9	-3.8	81	5.12	195	14	320.1	337.0	321.1
542.0	5238	-4.1	-5.9	87	4.57	200	16	320.5	335.6	321.4
521.0	5549	-6.5	-8.1	88	4.01	205	17	321.2	334.6	322.0
506.0	5777	-8.1	-11.0	80	3.28	209	19	322.0	333.1	322.6
500.0	5870	-8.9	-11.1	84	3.29	210	19	322.1	333.3	322.8
485.5	6096	-11.2	-13.1	86	2.88	200	23	322.0	331.8	322.6
485.0	6104	-11.3	-13.2	86	2.87	200	23	322.0	331.8	322.6
472.0	6312	-12.3	-15.3	78	2.48	201	23	323.3	331.8	323.7
467.0	6393	-12.5	-18.5	61	1.91	201	23	324.0	330.7	324.4
463.0	6459	-11.9	-22.9	40	1.32	201	23	325.5	330.3	325.8
459.0	6525	-12.1	-24.1	36	1.19	201	23	326.1	330.4	326.3
427.0	7072	-15.5	-29.5	29	0.78	203	24	328.6	331.5	328.7
400.0	7560	-19.7	-32.7	31	0.61	205	24	329.3	331.6	329.4
397.0	7616	-20.3	-33.3	30	0.58	205	25	329.2	331.5	329.3
396.8	7620	-20.3	-33.3	30	0.58	205	25	329.3	331.5	329.4
367.0	8196	-22.7	-35.7	30	0.50	205	26	333.5	335.5	333.6
321.7	9144	-31.0	-43.1	29	0.26	205	28	334.9	335.9	334.9
314.0	9319	-32.5	-44.5	29	0.23	207	30	335.1	336.0	335.1
300.0	9640	-34.3	-46.3	29	0.20	210	33	336.9	337.8	337.0
282.3	10058	-36.7	-48.4	29	0.17	210	37	339.4	340.1	339.4
250.0	10890	-41.5	-52.5	29	0.12	215	33	344.2	344.8	344.3
235.0	11307	-43.9	-54.9	28	0.09	219	34	346.7	347.2	346.8
200.0	12370	-52.3	-62.3	29	0.04	230	35	349.8	350.0	349.8
194.0	12567	-53.5	-63.5	28	0.04	229	36	350.9	351.1	350.9
183.0	12942	-55.1	-64.1	32	0.04	226	37	354.2	354.4	354.2
178.3	13106	-56.3	-65.3	31	0.03	225	38	354.8	355.0	354.9
158.0	13868	-62.1	-71.1	29	0.02	222	29	357.6	357.6	357.6
153.0	14068	-62.3	-71.3	29	0.02	221	26	360.5	360.6	360.5
150.0	14190	-63.3	-72.3	29	0.01	220	25	360.8	360.9	360.8

143.0	14482	-65.3	-73.3	32	0.01	222	27	362.3	362.4	362.3
133.0	14920	-67.3	-75.3	31	0.01	225	30	366.3	366.4	366.3
126.1	15240	-66.9	-74.9	31	0.01	230	28	372.7	372.7	372.7
126.0	15245	-66.9	-74.9	31	0.01	230	28	372.8	372.8	372.8
123.0	15391	-65.5	-73.5	32	0.01	229	26	377.9	378.0	377.9
115.0	15797	-67.3	-75.3	31	0.01	228	22	381.9	381.9	381.9
113.0	15903	-66.1	-74.1	32	0.01	228	21	386.0	386.1	386.0
110.0	16066	-65.7	-73.7	32	0.02	227	20	389.8	389.9	389.8
104.0	16404	-67.7	-75.7	31	0.01	226	16	392.2	392.3	392.2
100.0	16640	-66.7	-74.7	32	0.02	225	14	398.6	398.7	398.6
88.6	17374	-65.8	-73.8	32	0.02	145	6	414.5	414.6	414.5
85.8	17572	-65.5	-73.5	32	0.02	148	10	418.8	419.0	418.9
84.7	17651	-64.1	-73.1	28	0.02	150	12	423.2	423.4	423.2
80.2	17983	-64.8	-73.8	28	0.02	155	19	428.4	428.6	428.4
78.3	18132	-65.1	-74.1	28	0.02	167	16	430.8	430.9	430.8
76.3	18288	-64.6	-73.6	28	0.02	180	12	434.9	435.1	435.0
72.6	18593	-63.6	-72.6	28	0.03	135	3	443.2	443.4	443.2
72.2	18630	-63.5	-72.5	28	0.03	131	4	444.2	444.4	444.3
70.0	18820	-63.7	-72.7	28	0.03	110	9	447.8	447.9	447.8
69.1	18898	-64.0	-73.0	28	0.03	105	16	448.8	449.0	448.8
66.4	19142	-64.9	-73.9	28	0.03	109	12	452.0	452.1	452.0
65.8	19202	-63.1	-72.1	29	0.03	110	11	457.1	457.4	457.1
65.6	19216	-62.7	-71.7	29	0.04	110	11	458.3	458.6	458.3
62.7	19494	-61.1	-70.1	29	0.05	103	11	467.8	468.1	467.8
59.5	19812	-61.5	-70.5	29	0.05	95	12	473.8	474.1	473.8
56.7	20117	-61.9	-70.9	29	0.05	80	14	479.6	479.9	479.6
53.9	20422	-62.3	-71.3	29	0.05	45	15	485.5	485.8	485.5
51.6	20695	-62.7	-71.7	29	0.05	85	15	490.9	491.2	490.9
51.3	20726	-62.3	-71.3	29	0.05	90	15	492.5	492.9	492.5
50.0	20890	-60.1	-69.1	30	0.07	90	18	501.4	501.9	501.4
49.4	20966	-58.7	-67.7	30	0.09	91	21	506.5	507.1	506.5
46.6	21336	-59.5	-68.5	30	0.08	95	34	513.1	513.6	513.1
46.0	21414	-59.7	-68.7	30	0.08	98	32	514.5	515.0	514.5
44.4	21641	-58.7	-67.7	30	0.10	105	25	522.2	522.9	522.2
42.3	21946	-57.3	-66.3	31	0.12	70	27	532.8	533.6	532.8
38.4	22555	-54.6	-63.6	32	0.19	105	26	554.4	555.9	554.5
38.0	22628	-54.3	-63.3	32	0.20	102	26	557.1	558.6	557.1
35.0	23165	-54.1	-63.5	31	0.21	80	29	570.9	572.6	571.0
33.3	23470	-54.0	-63.7	30	0.22	95	26	579.0	580.7	579.0
30.8	23980	-53.9	-63.9	28	0.23	99	25	592.6	594.5	592.7
30.0	24150	-53.5	-63.5	28	0.25	100	25	598.2	600.2	598.3
28.9	24384	-52.9	-62.9	29	0.28	90	23	606.1	608.4	606.2
24.0	25603	-49.6	-59.6	30	0.52	100	38	649.2	653.6	649.4
23.6	25705	-49.3	-59.3	30	0.55	102	36	652.9	657.6	653.1
21.8	26213	-48.9	-58.9	30	0.62	110	28	668.6	674.0	668.9
20.9	26518	-48.7	-58.7	30	0.67	95	22	678.2	684.2	678.5
20.0	26790	-48.5	-58.5	30	0.71	90	29	687.0	693.3	687.2
18.1	27432	-47.8	-58.1	30	0.83	80	38	708.5	716.1	708.8
17.3	27737	-47.5	-57.9	29	0.89	85	42	718.9	727.3	719.3
14.0	29150	-45.9	-56.9	28	1.24	85	42	769.5	781.9	770.0
12.6	29870	-42.7	-53.7	29	2.04	85	42	804.5	825.5	805.5
12.4	29965	-42.3	-53.3	29	2.18			809.2	831.7	810.3

Station information and sounding indices

Station identifier: VEF
 Station number: 72388
 Observation time: 130707/1200
 Station latitude: 36.05
 Station longitude: -115.18

Station elevation: 697.0
 Showalter index: 1.62
 Lifted index: 2.46
 LIFT computed using virtual temperature: 2.48
 SWEAT index: 61.41
 K index: 24.30
 Cross totals index: 10.10
 Vertical totals index: 37.10
 Totals totals index: 47.20
 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: 269.02
 Pres [hPa] of the Lifted Condensation Level: 581.26
 Mean mixed layer potential temperature: 314.15
 Mean mixed layer mixing ratio: 4.90
 1000 hPa to 500 hPa thickness: 5865.00
 Precipitable water [mm] for entire sounding: 24.10

72388 VEF Las Vegas Observations at 00Z 08 Jul 2013

PRES	HGHT	TEMP	DWPT	RELH	MIXR	DRCT	SKNT	THTA	THTE	THTV
hPa	m	C	C	%	g/kg	deg	knot	K	K	K
1000.0	1									
927.0	697	39.8	6.8	14	6.73	50	5	319.8	341.8	321.1
925.0	716	39.4	-2.6	7	3.43	50	5	319.6	331.1	320.2
924.0	726	39.2	-4.8	6	2.91	50	5	319.5	329.4	320.1
907.0	895	35.4	-1.6	9	3.77	45	5	317.3	329.8	318.0
905.1	914	35.2	-1.5	10	3.79	45	5	317.3	329.9	318.0
874.8	1219	32.2	-0.4	12	4.27	70	3	317.2	331.3	318.0
850.0	1477	29.6	0.6	15	4.72	120	3	317.1	332.6	318.1
822.0	1773	26.6	0.6	18	4.89	221	4	317.0	333.0	317.9
816.8	1829	26.4	-0.2	17	4.62	240	4	317.4	332.6	318.3
806.0	1946	26.0	-2.0	16	4.12	236	4	318.2	331.8	319.0
788.8	2134	23.7	-0.7	20	4.62	230	4	317.7	332.9	318.6
782.0	2210	22.8	-0.2	22	4.85	225	7	317.5	333.4	318.4
775.0	2288	23.2	-3.8	16	3.74	220	11	318.7	331.2	319.5
761.6	2438	21.9	-4.7	16	3.56	210	17	318.9	330.8	319.6
735.1	2743	19.1	-6.5	17	3.21	205	20	319.1	329.9	319.8
717.0	2957	17.2	-7.8	17	2.98	200	20	319.3	329.4	319.9
700.0	3161	15.2	-8.8	18	2.82	195	20	319.3	328.8	319.8
659.5	3658	10.5	-8.2	26	3.14	200	21	319.4	330.0	320.0
633.0	3999	7.2	-7.8	34	3.37	200	22	319.5	330.8	320.1
612.2	4267	4.8	-8.6	37	3.28	200	22	319.8	330.8	320.4
567.4	4877	-0.6	-10.4	48	3.07	190	19	320.4	330.8	321.0
524.0	5515	-6.3	-12.3	62	2.85	203	24	321.0	330.7	321.5
512.0	5695	-6.9	-19.9	35	1.55	206	26	322.4	327.9	322.7
500.0	5880	-7.9	-23.9	26	1.12	210	27	323.3	327.4	323.6
489.0	6053	-8.5	-30.5	15	0.62	202	32	324.7	327.0	324.8
486.2	6096	-8.9	-31.0	15	0.60	200	33	324.7	326.9	324.8
462.0	6489	-12.5	-35.5	13	0.40	202	35	325.0	326.6	325.1
458.0	6556	-12.3	-38.3	9	0.31	203	35	326.1	327.3	326.1
431.4	7010	-14.4	-44.8	6	0.16	205	37	329.0	329.7	329.0
416.0	7285	-15.7	-48.7	4	0.11	212	35	330.8	331.2	330.8

410.0	7394	-15.5	-49.5	4	0.10	215	34	332.4	332.8	332.4
400.0	7580	-17.3	-49.3	4	0.11	220	32	332.4	332.9	332.4
397.9	7620	-17.6	-49.5	4	0.10	220	32	332.6	333.0	332.6
395.0	7674	-17.9	-49.9	4	0.10	221	32	332.8	333.3	332.9
361.0	8344	-21.7	-52.7	4	0.08	228	27	336.4	336.8	336.4
351.6	8534	-23.3	-53.8	4	0.07	230	26	336.8	337.1	336.8
323.1	9144	-28.5	-57.1	5	0.05	220	29	337.8	338.1	337.8
300.0	9680	-33.1	-60.1	5	0.04	215	30	338.6	338.8	338.6
284.1	10058	-36.1	-62.1	5	0.03	215	28	339.6	339.8	339.6
284.0	10060	-36.1	-62.1	5	0.03	215	28	339.6	339.8	339.7
274.0	10307	-37.1	-62.1	6	0.03	218	31	341.7	341.9	341.7
256.0	10770	-40.9	-62.9	8	0.03	223	37	342.8	342.9	342.8
250.0	10930	-41.5	-63.5	7	0.03	225	39	344.2	344.4	344.2
248.4	10973	-41.8	-63.5	8	0.03	225	41	344.5	344.6	344.5
229.0	11521	-44.9	-63.9	10	0.03	234	36	347.8	347.9	347.8
226.9	11582	-45.4	-64.2	10	0.03	235	35	347.9	348.1	347.9
200.0	12410	-52.5	-68.5	13	0.02	220	34	349.5	349.6	349.5
188.1	12802	-55.9	-70.6	14	0.01	215	35	350.2	350.3	350.2
182.0	13014	-57.7	-71.7	15	0.01	220	35	350.6	350.6	350.6
173.0	13334	-58.9	-72.9	15	0.01	227	35	353.7	353.8	353.7
162.7	13716	-61.3	-74.5	16	0.01	235	35	355.9	355.9	355.9
150.0	14220	-64.5	-76.5	18	0.01	220	33	358.8	358.8	358.8
147.4	14326	-65.1	-77.1	18	0.01	230	35	359.5	359.5	359.5
141.0	14596	-66.7	-78.7	17	0.01	234	30	361.3	361.4	361.3
136.0	14815	-66.1	-78.1	17	0.01	238	26	366.1	366.2	366.1
133.3	14935	-66.8	-78.5	18	0.01	240	24	366.9	367.0	366.9
128.0	15181	-68.3	-79.3	19	0.01	225	26	368.6	368.6	368.6
126.7	15240	-68.2	-79.2	19	0.01	225	26	369.8	369.9	369.8
120.5	15545	-67.5	-78.5	20	0.01	240	17	376.4	376.4	376.4
120.0	15569	-67.5	-78.5	20	0.01	237	18	376.9	376.9	376.9
114.5	15850	-68.2	-79.2	19	0.01	205	25	380.7	380.7	380.7
112.0	15983	-68.5	-79.5	19	0.01	207	25	382.5	382.6	382.5
111.0	16037	-66.9	-78.9	17	0.01	208	26	386.5	386.6	386.5
109.0	16147	-67.5	-79.5	17	0.01	210	26	387.4	387.4	387.4
108.9	16154	-67.5	-79.5	17	0.01	210	26	387.6	387.6	387.6
104.0	16431	-65.5	-77.5	17	0.01	175	15	396.4	396.5	396.4
100.0	16670	-65.5	-77.5	17	0.01	145	6	400.9	401.0	400.9
96.6	16880	-64.5	-76.5	18	0.01	158	15	406.8	406.9	406.8
93.6	17069	-65.2	-77.2	18	0.01	170	23	409.0	409.1	409.0
89.6	17336	-66.3	-78.3	17	0.01	214	14	412.1	412.1	412.1
89.0	17374	-66.0	-78.0	17	0.01	220	13	413.5	413.6	413.5
86.0	17585	-64.1	-76.1	18	0.01	304	5	421.4	421.5	421.4
84.7	17678	-64.2	-76.2	18	0.01	340	2	423.1	423.2	423.1
80.6	17983	-64.3	-76.6	17	0.01	100	11	428.9	429.0	428.9
76.6	18288	-64.5	-77.0	16	0.01	110	10	434.8	434.8	434.8
72.9	18593	-64.6	-77.5	16	0.01	120	20	440.7	440.8	440.7
70.8	18771	-64.7	-77.7	15	0.01	124	17	444.2	444.3	444.2
70.0	18840	-64.5	-77.5	15	0.01	125	16	446.1	446.1	446.1
66.0	19202	-63.3	-76.3	16	0.02	90	4	456.1	456.3	456.1
62.8	19507	-62.4	-75.4	16	0.02	95	15	464.8	465.0	464.8
62.6	19527	-62.3	-75.3	16	0.02	98	15	465.4	465.5	465.4
59.8	19812	-63.1	-76.1	16	0.02	135	14	469.8	470.0	469.8
59.7	19819	-63.1	-76.1	16	0.02	135	14	469.9	470.1	469.9
58.0	19998	-61.5	-74.5	16	0.03	123	13	477.4	477.6	477.4
55.4	20281	-63.1	-76.1	16	0.02	104	12	480.1	480.2	480.1
54.2	20422	-61.8	-75.2	15	0.03	95	11	486.2	486.4	486.2
52.0	20675	-59.5	-73.5	15	0.04	74	15	497.2	497.5	497.2
51.6	20726	-59.6	-73.6	15	0.04	70	16	498.2	498.4	498.2
50.0	20920	-59.9	-73.9	14	0.03	80	19	501.9	502.1	501.9
49.1	21033	-60.7	-74.7	14	0.03	90	21	502.6	502.8	502.6
49.1	21031	-60.7	-74.7	14	0.03	90	21	502.6	502.8	502.6

48.1	21162	-59.1	-73.1	15	0.04	86	21	509.4	509.7	509.4
46.8	21336	-58.9	-73.1	14	0.04	80	20	514.0	514.3	514.0
44.6	21641	-58.5	-73.1	14	0.04	90	26	522.0	522.4	522.1
42.5	21946	-58.1	-73.1	13	0.05	80	14	530.3	530.6	530.3
42.3	21969	-58.1	-73.1	13	0.05	78	15	530.9	531.2	530.9
40.9	22183	-55.9	-71.9	12	0.06	64	22	541.5	542.0	541.5
40.5	22250	-55.7	-71.8	12	0.06	60	24	543.6	544.1	543.6
38.6	22555	-54.9	-71.5	11	0.06	80	22	553.3	553.8	553.3
37.4	22754	-54.3	-71.3	11	0.07	82	25	559.6	560.2	559.6
31.9	23774	-53.7	-71.4	10	0.08	90	39	587.1	587.8	587.2
30.0	24170	-53.5	-71.5	9	0.08	110	35	598.2	598.9	598.2
29.0	24384	-53.4	-71.4	9	0.09	115	38	604.3	605.0	604.3
28.4	24522	-53.3	-71.3	9	0.09	112	37	608.2	609.0	608.2
26.4	24994	-50.9	-71.1	7	0.10	100	32	627.7	628.5	627.7
24.8	25400	-48.9	-70.9	6	0.11	83	32	644.9	645.8	644.9
24.0	25603	-49.0	-71.4	6	0.10	75	32	650.5	651.4	650.5
22.9	25908	-49.0	-72.2	5	0.10	85	38	659.0	659.9	659.0
21.8	26243	-49.1	-73.1	4	0.09	82	32	668.5	669.3	668.5
20.9	26518	-47.9	-73.4	4	0.09	80	27	680.0	680.9	680.0
20.0	26810	-46.7	-73.7	3	0.09	65	30	692.5	693.3	692.5
19.0	27151	-45.1	-73.1	3	0.10	73	34	707.6	708.7	707.7
18.2	27432	-44.9	-73.6	3	0.10	80	37	716.8	717.8	716.8
16.7	28014	-44.5	-74.5	2	0.09	84	39	736.1	737.1	736.2
14.9	28782	-41.5	-72.5	2	0.14	90	40	770.5	772.1	770.6
13.2	29606	-40.1	-72.1	2	0.17	96	43	802.5	804.4	802.5
12.1	30175	-40.7	-72.7	2	0.17	100	44	819.8	821.7	819.8
11.8	30370	-40.9	-72.9	2	0.17			825.8	827.8	825.8

Station information and sounding indices

Station identifier: VEF
 Station number: 72388
 Observation time: 130708/0000
 Station latitude: 36.05
 Station longitude: -115.18
 Station elevation: 697.0
 Showalter index: 2.21
 Lifted index: 3.30

LIFT computed using virtual temperature: 2.96
 SWEAT index: 40.18
 K index: 14.10
 Cross totals index: 8.50
 Vertical totals index: 37.50
 Totals totals index: 46.00
 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: 264.27
 Pres [hPa] of the Lifted Condensation Level: 524.56
 Mean mixed layer potential temperature: 317.78
 Mean mixed layer mixing ratio: 3.80
 1000 hPa to 500 hPa thickness: 5879.00
 Precipitable water [mm] for entire sounding: 15.69

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)
