

72208 CHS Charleston Observations at 00Z 24 Jul 2015

PRES hPa	HGHT m	TEMP C	DWPT C	RELH %	MIXR g/kg	DRCT deg	SKNT knot	THTA K	THTE K	THTV K
1009.0	15	26.2	24.1	88	19.15	210	4	298.6	354.6	302.0
1001.0	88	26.8	22.6	78	17.59	223	12	299.9	351.6	303.0
1000.0	97	26.8	22.4	77	17.39	225	13	299.9	351.1	303.1
988.0	205	30.0	21.0	59	16.12	233	17	304.2	352.5	307.1
977.0	305	29.8	20.4	57	15.66	240	21	304.9	352.0	307.8
961.0	453	29.4	19.4	55	14.99	250	22	306.0	351.2	308.8
944.1	610	28.2	18.2	55	14.13	260	23	306.3	349.1	308.9
925.0	792	26.8	16.8	54	13.18	260	23	306.7	346.7	309.1
912.3	914	25.9	16.4	56	13.03	275	22	307.0	346.6	309.4
881.2	1219	23.7	15.4	60	12.67	285	21	307.8	346.4	310.1
874.0	1291	23.2	15.2	61	12.58	289	20	308.0	346.3	310.3
851.0	1524	21.1	14.1	64	11.98	300	16	308.1	344.7	310.3
850.0	1534	21.0	14.0	64	11.96	290	16	308.1	344.6	310.3
821.4	1829	18.4	13.8	74	12.18	295	17	308.4	345.6	310.7
815.0	1897	17.8	13.7	77	12.24	294	17	308.5	345.8	310.7
792.6	2134	15.8	11.9	78	11.20	290	18	308.8	343.1	310.9
767.0	2413	13.4	9.9	79	10.08	295	16	309.1	340.1	311.0
764.7	2438	13.3	9.5	78	9.83	295	16	309.2	339.5	311.1
760.0	2490	13.0	8.6	75	9.31	295	15	309.5	338.2	311.2
737.5	2743	10.9	8.6	86	9.60	295	13	309.9	339.5	311.7
732.0	2805	10.4	8.6	89	9.67	294	14	310.0	339.8	311.8
716.0	2989	9.4	7.5	88	9.17	292	17	310.9	339.3	312.6
702.0	3153	8.6	6.5	87	8.72	290	20	311.7	338.9	313.4
700.0	3177	8.6	5.6	81	8.21	290	20	312.0	337.7	313.5
699.0	3189	8.6	5.3	80	8.05	290	20	312.1	337.3	313.6
692.0	3272	8.0	6.3	89	8.73	289	20	312.3	339.6	314.0
668.0	3563	6.6	4.5	86	7.97	286	21	313.9	339.1	315.4
660.3	3658	6.6	2.2	74	6.84	285	21	315.0	336.8	316.3
659.0	3675	6.6	1.8	71	6.66	284	21	315.1	336.4	316.4
653.0	3750	6.0	2.1	76	6.87	282	21	315.3	337.2	316.6
644.0	3863	5.6	0.7	71	6.29	278	22	316.1	336.3	317.3
638.0	3940	5.2	2.8	84	7.39	276	22	316.5	340.1	317.9
636.3	3962	5.1	2.7	85	7.38	275	22	316.6	340.2	318.0
628.0	4069	4.4	2.4	87	7.30	277	22	317.0	340.4	318.4
620.0	4174	4.0	0.9	80	6.63	278	21	317.7	339.1	319.0
612.9	4267	3.4	0.9	83	6.69	280	21	318.1	339.6	319.3
588.0	4603	1.2	0.7	96	6.90	288	19	319.3	341.6	320.6
582.0	4685	0.2	-1.0	92	6.15	290	18	319.1	339.1	320.2
568.1	4877	-0.8	-1.8	93	5.93	295	17	320.1	339.5	321.3
506.3	5791	-5.4	-5.8	97	4.94	280	18	325.2	341.8	326.2
500.0	5890	-5.9	-6.2	98	4.84	285	17	325.8	342.1	326.7
498.0	5922	-6.1	-6.4	98	4.79	286	17	325.9	342.1	326.9
487.0	6096	-7.7	-8.6	93	4.13	290	20	326.0	340.1	326.8
483.0	6161	-8.3	-9.4	92	3.91	288	20	326.1	339.4	326.8
472.0	6340	-9.3	-10.3	92	3.72	282	19	327.0	339.7	327.7
467.0	6423	-8.7	-9.2	96	4.10	279	19	328.7	342.8	329.5
454.0	6642	-10.5	-11.1	95	3.63	272	18	329.1	341.7	329.9
451.0	6693	-10.9	-13.6	80	2.98	270	18	329.2	339.7	329.8
450.3	6706	-11.1	-13.9	80	2.92	270	18	329.2	339.4	329.8
447.0	6762	-11.7	-15.1	76	2.66	275	20	329.1	338.4	329.6
442.0	6849	-11.7	-14.1	82	2.92	282	22	330.1	340.4	330.7
432.8	7010	-12.6	-15.8	77	2.60	295	27	330.9	340.2	331.5
417.0	7294	-14.3	-18.7	69	2.11	295	26	332.3	339.9	332.8

408.0	7460	-15.3	-18.3	78	2.23	295	26	333.1	341.2	333.6
400.0	7610	-15.9	-20.6	67	1.87	295	25	334.2	341.1	334.6
399.5	7620	-15.9	-20.7	67	1.85	295	25	334.3	341.0	334.7
398.0	7648	-16.1	-21.1	65	1.80	295	25	334.4	341.0	334.8
391.0	7781	-16.7	-20.5	72	1.93	296	23	335.4	342.4	335.8
383.0	7936	-17.9	-22.9	65	1.59	297	22	335.8	341.7	336.1
353.2	8534	-21.6	-27.9	56	1.09	300	15	338.7	342.9	338.9
340.0	8815	-23.3	-30.3	53	0.91	302	20	340.1	343.6	340.2
330.0	9033	-24.5	-28.6	69	1.10	304	24	341.3	345.6	341.5
325.0	9144	-25.2	-31.2	58	0.88	305	26	341.8	345.2	342.0
322.0	9211	-25.7	-32.7	52	0.76	305	26	342.1	345.1	342.2
311.0	9462	-26.7	-38.7	31	0.43	305	27	344.1	345.9	344.2
300.0	9720	-28.5	-39.5	34	0.41	305	28	345.1	346.8	345.2
297.0	9792	-28.9	-39.9	34	0.40	305	28	345.5	347.2	345.6
282.0	10161	-31.9	-45.9	24	0.22	303	28	346.4	347.3	346.4
277.0	10287	-32.9	-42.9	36	0.31	303	28	346.7	348.0	346.8
263.0	10650	-36.3	-43.3	48	0.32	301	27	346.9	348.2	347.0
250.0	11000	-39.3	-47.3	42	0.22	300	27	347.5	348.4	347.6
245.0	11138	-40.3	-48.3	42	0.20	302	27	348.0	348.9	348.1
240.0	11278	-41.5	-49.0	44	0.18	305	28	348.3	349.1	348.4
233.0	11479	-43.1	-50.1	46	0.17	292	31	348.8	349.5	348.8
229.4	11582	-44.0	-50.1	51	0.17	285	32	348.9	349.7	349.0
221.0	11833	-46.3	-50.1	65	0.18	287	33	349.2	350.0	349.2
209.3	12192	-49.1	-53.9	57	0.12	290	35	350.2	350.8	350.3
207.0	12266	-49.7	-54.7	56	0.11	291	35	350.4	350.9	350.5
200.0	12490	-51.9	-56.7	56	0.09	295	34	350.4	350.8	350.4
193.0	12720	-53.9	-58.8	55	0.07	294	33	350.8	351.1	350.8
156.6	14021	-64.5	-70.3	45	0.02	290	28	354.4	354.5	354.4
150.0	14290	-66.7	-72.7	43	0.01	285	30	355.0	355.1	355.0
141.7	14630	-69.8	-75.3	45	0.01	275	27	355.3	355.4	355.3
136.0	14875	-72.1	-77.1	47	0.01	281	27	355.5	355.6	355.5
127.8	15240	-73.7	-79.2	43	0.01	290	28	359.1	359.1	359.1
121.3	15545	-75.0	-80.9	40	0.00	300	30	362.0	362.1	362.0
119.0	15655	-75.5	-81.5	39	0.00	315	22	363.1	363.1	363.1
114.0	15904	-74.9	-80.9	39	0.01	324	19	368.7	368.7	368.7
112.0	16006	-75.7	-81.7	39	0.00	327	17	369.1	369.1	369.1
109.0	16165	-72.5	-80.5	29	0.01	333	15	378.0	378.0	378.0
108.0	16219	-72.1	-80.1	29	0.01	335	14	379.7	379.8	379.7
104.0	16441	-73.5	-80.5	34	0.01	342	11	381.2	381.2	381.2
102.0	16554	-73.3	-80.3	34	0.01	346	10	383.7	383.7	383.7
100.0	16670	-73.9	-80.9	34	0.01	350	8	384.7	384.7	384.7

Station information and sounding indices

Station identifier: CHS

Station number: 72208

Observation time: 150724/0000

Station latitude: 32.90

Station longitude: -80.03

Station elevation: 15.0

Showalter index: -0.85

Lifted index: -3.45

LIFT computed using virtual temperature: -3.72

SWEAT index: 217.01

K index: 37.90

Cross totals index: 19.90

Vertical totals index: 26.90

Totals totals index: 46.80

Convective Available Potential Energy: 885.44

CAPE using virtual temperature: 988.60

Convective Inhibition: -146.28
CINS using virtual temperature: -118.53
Equilibrium Level: 189.69
Equilibrium Level using virtual temperature: 189.22
Level of Free Convection: 786.59
LFCT using virtual temperature: 797.54
Bulk Richardson Number: 43.71
Bulk Richardson Number using CAPV: 48.80
Temp [K] of the Lifted Condensation Level: 292.19
Pres [hPa] of the Lifted Condensation Level: 874.67
Mean mixed layer potential temperature: 303.60
Mean mixed layer mixing ratio: 16.17
1000 hPa to 500 hPa thickness: 5793.00
Precipitable water [mm] for entire sounding: 57.07

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

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