

72274 TUS Tucson Observations at 12Z 24 Jul 2015

PRES hPa	HGHT m	TEMP C	DWPT C	RELH %	MIXR g/kg	DRCT deg	SKNT knot	THTA K	THTE K	THTV K
1000.0	109									
930.0	751	24.0	19.1	74	15.20	0	0	303.4	348.7	306.1
925.0	805	24.2	19.4	75	15.58	135	5	304.1	350.6	306.9
913.6	914	23.4	19.4	78	15.73	155	7	304.3	351.4	307.2
902.0	1026	22.6	19.3	82	15.89	151	6	304.6	352.2	307.5
882.2	1219	22.8	16.5	68	13.60	145	5	306.7	347.9	309.2
877.0	1271	22.8	15.8	65	13.04	169	5	307.3	346.9	309.7
850.0	1543	21.2	14.2	64	12.12	295	2	308.3	345.3	310.6
848.0	1563	21.0	14.0	64	11.99	296	2	308.3	344.9	310.6
836.0	1687	20.6	12.6	60	11.08	303	4	309.2	343.2	311.2
822.3	1829	19.3	12.0	63	10.85	310	6	309.3	342.6	311.3
798.0	2087	17.0	11.0	68	10.43	335	5	309.5	341.6	311.4
793.6	2134	16.9	10.6	66	10.23	340	5	309.9	341.4	311.8
784.0	2238	16.8	9.8	63	9.79	4	4	310.8	341.2	312.7
765.8	2438	15.7	9.3	66	9.70	50	3	311.8	341.9	313.6
754.0	2570	15.0	9.0	67	9.64	50	7	312.4	342.4	314.2
738.7	2743	13.5	8.5	72	9.52	50	12	312.6	342.3	314.4
700.0	3195	9.6	7.2	85	9.18	50	9	313.1	341.8	314.8
695.0	3255	9.0	6.9	87	9.06	63	9	313.1	341.4	314.8
681.0	3424	8.2	5.5	83	8.39	99	8	314.0	340.4	315.6
670.0	3559	7.4	5.9	90	8.77	128	7	314.6	342.2	316.2
662.0	3658	6.9	4.9	87	8.26	150	6	315.1	341.3	316.7
656.0	3733	6.6	4.1	84	7.89	150	7	315.6	340.6	317.1
616.0	4248	3.2	2.8	97	7.66	150	13	317.4	341.9	318.9
614.6	4267	3.1	2.7	97	7.60	150	13	317.5	341.9	319.0
594.0	4544	2.2	0.7	90	6.83	159	19	319.5	341.7	320.9
591.9	4572	2.0	0.6	90	6.80	160	20	319.6	341.7	320.9
570.0	4877	-0.2	-0.5	98	6.54	160	19	320.5	341.8	321.8
567.0	4919	-0.5	-0.6	99	6.50	161	19	320.6	341.9	321.9
531.0	5443	-2.5	-4.3	87	5.27	179	16	324.3	341.9	325.3
520.0	5610	-3.3	-4.3	93	5.38	185	16	325.3	343.3	326.3
507.0	5810	-4.5	-7.6	79	4.28	191	15	326.2	340.7	327.0
500.0	5920	-5.1	-7.6	83	4.34	195	14	326.8	341.5	327.6
488.9	6096	-6.3	-8.9	81	4.00	195	15	327.4	341.1	328.2
474.0	6338	-7.9	-10.8	80	3.56	203	16	328.3	340.6	329.0
468.0	6437	-7.7	-11.8	72	3.33	206	16	329.8	341.4	330.4
454.0	6673	-9.3	-12.0	81	3.38	214	17	330.6	342.4	331.3
452.0	6706	-9.5	-12.5	79	3.25	215	17	330.7	342.1	331.4
446.0	6810	-10.3	-14.1	74	2.90	214	17	331.1	341.3	331.6
425.0	7180	-13.1	-15.9	79	2.62	210	16	332.1	341.4	332.6
419.0	7288	-13.3	-19.3	61	1.99	209	16	333.2	340.4	333.6
416.0	7343	-13.5	-17.7	71	2.30	208	16	333.6	341.9	334.1
411.0	7435	-13.9	-19.9	60	1.93	207	15	334.2	341.3	334.6
401.1	7620	-15.3	-20.4	65	1.89	205	15	334.7	341.6	335.1
400.0	7640	-15.5	-20.5	66	1.88	200	14	334.8	341.6	335.1
397.0	7697	-15.7	-19.5	73	2.07	200	14	335.2	342.8	335.6
392.0	7792	-16.1	-22.1	60	1.67	201	13	335.9	342.1	336.2
384.0	7947	-17.1	-23.1	60	1.56	202	13	336.6	342.4	336.9
381.0	8005	-17.3	-27.3	41	1.08	202	12	337.1	341.2	337.3
378.0	8065	-17.5	-25.5	50	1.28	202	12	337.6	342.4	337.8
372.0	8184	-18.5	-23.3	66	1.58	203	12	337.8	343.7	338.1
368.0	8264	-19.1	-26.1	54	1.24	203	11	338.0	342.7	338.3
365.0	8325	-19.5	-24.1	67	1.50	204	11	338.3	343.9	338.6

360.0	8427	-20.1	-29.1	45	0.96	204	10	338.8	342.5	339.0
356.0	8510	-20.5	-28.5	49	1.03	205	10	339.4	343.3	339.6
354.8	8534	-20.7	-27.6	54	1.13	205	10	339.4	343.7	339.6
353.0	8572	-21.1	-26.1	64	1.30	201	10	339.4	344.3	339.6
348.0	8677	-22.1	-27.1	64	1.20	189	10	339.4	344.0	339.7
342.0	8805	-23.1	-26.2	76	1.33	174	10	339.8	344.8	340.0
340.4	8839	-23.1	-26.9	71	1.24	170	10	340.2	344.9	340.5
339.0	8869	-23.1	-27.6	67	1.18	171	10	340.6	345.1	340.9
326.4	9144	-25.2	-29.7	66	1.00	185	12	341.4	345.3	341.6
308.0	9562	-28.5	-33.0	65	0.78	168	13	342.5	345.6	342.7
300.0	9750	-30.1	-33.3	74	0.77	160	14	342.8	345.9	343.0
299.8	9754	-30.1	-33.3	74	0.77	155	13	342.8	345.9	343.0
296.0	9845	-31.1	-33.7	78	0.75	156	13	342.7	345.7	342.9
283.0	10162	-33.3	-37.1	69	0.56	161	15	344.0	346.3	344.1
270.0	10491	-36.3	-39.2	74	0.48	167	17	344.3	346.2	344.4
266.0	10594	-36.9	-41.9	60	0.36	168	18	344.9	346.4	345.0
260.0	10751	-38.3	-41.8	70	0.38	171	18	345.1	346.7	345.2
250.0	11020	-40.3	-45.3	59	0.27	175	20	346.0	347.1	346.1
240.6	11278	-42.1	-50.0	42	0.16	185	21	347.0	347.8	347.1
234.0	11467	-43.5	-53.5	32	0.11	186	22	347.8	348.3	347.8
204.0	12372	-51.9	-55.3	67	0.10	189	27	348.4	348.9	348.5
200.0	12500	-52.7	-57.7	55	0.08	190	28	349.1	349.5	349.2
198.0	12565	-53.1	-59.1	48	0.07	191	28	349.5	349.8	349.5
190.8	12802	-55.2	-60.4	52	0.06	195	29	349.8	350.1	349.8
186.0	12965	-56.7	-61.3	56	0.05	199	29	350.0	350.2	350.0
174.0	13385	-60.7	-67.7	39	0.02	208	28	350.1	350.3	350.1
165.0	13716	-61.8	-72.4	23	0.01	215	28	353.7	353.8	353.7
164.0	13752	-61.9	-72.9	22	0.01	213	27	354.1	354.2	354.1
157.0	14021	-63.6	-76.4	16	0.01	200	21	355.6	355.6	355.6
156.0	14061	-63.9	-76.9	15	0.01	199	21	355.8	355.8	355.8
150.0	14300	-66.1	-77.1	20	0.01	195	23	356.0	356.1	356.0
142.0	14630	-68.9	-78.5	24	0.01	175	27	356.8	356.9	356.8
138.0	14801	-70.3	-79.3	26	0.01	178	28	357.2	357.2	357.2
134.9	14935	-70.4	-78.9	28	0.01	180	29	359.4	359.4	359.4
132.0	15065	-70.5	-78.5	30	0.01	195	24	361.4	361.4	361.4
128.1	15240	-71.8	-79.6	31	0.01	215	17	362.1	362.1	362.1
121.6	15545	-74.2	-81.5	32	0.00	160	4	363.3	363.3	363.3
117.0	15771	-75.9	-82.9	33	0.00	130	8	364.1	364.1	364.1
115.0	15871	-74.5	-80.5	39	0.01	139	9	368.5	368.6	368.5
112.0	16025	-74.9	-80.9	39	0.01	152	10	370.6	370.6	370.6
109.0	16184	-72.5	-79.5	34	0.01	166	12	378.0	378.0	378.0
105.0	16403	-72.3	-80.3	29	0.01	185	14	382.4	382.4	382.4
102.0	16574	-73.3	-81.3	29	0.01	200	15	383.7	383.7	383.7
101.0	16631	-72.7	-80.7	29	0.01	205	16	385.9	385.9	385.9
100.0	16690	-70.9	-79.9	25	0.01	210	16	390.5	390.5	390.5
94.9	16999	-70.5	-81.5	18	0.01	207	13	397.1	397.2	397.1
86.6	17546	-66.3	-83.3	8	0.00	202	9	416.1	416.1	416.1
78.1	18168	-67.3	-88.3	4	0.00	196	4	426.5	426.5	426.5
76.6	18288	-65.1	-87.2	3	0.00	195	3	433.6	433.6	433.6
75.5	18373	-63.5	-86.5	3	0.00	181	5	438.6	438.6	438.6
70.0	18840	-59.7	-87.7	1	0.00	105	14	456.3	456.3	456.3
69.8	18858	-59.7	-87.7	1	0.00	105	14	456.7	456.7	456.7
61.8	19618	-61.5	-90.5	1	0.00	114	7	468.9	468.9	468.9
57.1	20117	-59.2	-89.8	1	0.00	120	3	484.8	484.8	484.8
56.0	20236	-58.7	-89.7	1	0.00	113	4	488.6	488.6	488.6
50.0	20950	-58.7	-89.7	1	0.00	70	13	504.7	504.7	504.7
47.4	21286	-57.5	-89.5	1	0.00	87	23	515.4	515.4	515.4
47.0	21336	-57.5	-89.5	1	0.00	90	24	516.4	516.4	516.4
39.9	22369	-58.5	-89.5	1	0.00	98	31	538.8	538.9	538.8
38.7	22555	-57.5	-89.0	1	0.00	100	32	545.8	545.8	545.8
37.5	22760	-56.5	-88.5	1	0.00	94	31	553.6	553.6	553.6

33.5	23470	-55.4	-87.4	1	0.01	75	27	574.5	574.5	574.5
32.6	23650	-55.1	-87.1	1	0.01	84	32	579.9	580.0	579.9
32.0	23774	-55.0	-87.0	1	0.01	90	35	583.4	583.4	583.4
30.5	24079	-54.8	-86.8	1	0.01	105	22	592.0	592.1	592.0
30.0	24180	-54.7	-86.7	1	0.01	105	22	594.9	595.0	594.9
29.1	24384	-54.7	-86.9	1	0.01	95	25	600.5	600.5	600.5
27.7	24689	-54.6	-87.1	1	0.01	100	30	608.9	609.0	608.9
25.6	25194	-54.5	-87.5	1	0.01	88	32	623.1	623.1	623.1
22.7	25966	-53.1	-86.1	1	0.01	71	34	649.0	649.1	649.0
21.9	26213	-51.5	-85.0	1	0.01	65	35	660.7	660.9	660.7
20.9	26502	-49.7	-83.7	1	0.02	68	39	674.7	674.9	674.8
20.0	26790	-49.9	-83.9	1	0.02	70	42	682.7	682.9	682.7
19.7	26889	-50.1	-84.1	1	0.02	72	43	685.0	685.2	685.0
18.1	27432	-48.9	-83.2	1	0.02	85	46	705.1	705.4	705.1
14.6	28866	-45.7	-80.7	1	0.04	97	37	761.0	761.4	761.0
14.0	29147	-43.7	-79.7	1	0.05	99	35	776.9	777.5	776.9
13.8	29261	-43.7	-79.7	1	0.05	100	34	780.6	781.2	780.6
11.5	30480	-44.0	-80.0	1	0.06	80	43	821.0	821.8	821.1
11.0	30767	-44.1	-80.1	1	0.06	82	44	830.9	831.6	830.9
10.3	31209	-42.9	-78.9	1	0.08	84	45	851.1	852.0	851.1
10.0	31410	-39.9	-76.9	1	0.11	85	45	869.5	870.9	869.5
9.7	31619	-38.5	-75.5	1	0.14	85	47	882.3	884.1	882.4
8.1	32858	-38.2	-76.0	1	0.16	85	61	930.2	932.3	930.3
8.0	32918	-38.2	-76.0	1	0.16	85	61	932.6	934.7	932.7
7.7	33206	-38.1	-76.1	1	0.16			944.1	946.3	944.2

Station information and sounding indices

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Station identifier: TUS
  Station number: 72274
    Observation time: 150724/1200
      Station latitude: 32.23
        Station longitude: -110.96
          Station elevation: 751.0
            Showalter index: -0.32
              Lifted index: -2.17
                LIFT computed using virtual temperature: -2.48
                  SWEAT index: 188.41
                    K index: 38.10
                      Cross totals index: 19.30
                        Vertical totals index: 26.30
                          Totals totals index: 45.60
                            Convective Available Potential Energy: 645.85
                              CAPE using virtual temperature: 717.39
                                Convective Inhibition: -117.51
                                  CINS using virtual temperature: -86.10
                                    Equilibrium Level: 190.58
                                      Equilibrium Level using virtual temperature: 190.06
                                        Level of Free Convection: 719.52
                                          LFCT using virtual temperature: 729.67
                                            Bulk Richardson Number: 3924.14
                                              Bulk Richardson Number using CAPV: 4358.83
                                                Temp [K] of the Lifted Condensation Level: 290.67
                                                  Pres [hPa] of the Lifted Condensation Level: 845.78
                                                    Mean mixed layer potential temperature: 304.94
                                                      Mean mixed layer mixing ratio: 15.17
                                                        1000 hPa to 500 hPa thickness: 5811.00
                                                          Precipitable water [mm] for entire sounding: 45.95

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

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