

72403 IAD Sterling 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
1003.0	93	26.0	13.0	45	9.46	75	4	298.9	326.9	300.6
1000.0	117	25.6	12.6	44	9.24	50	4	298.8	326.1	300.4
978.7	305	23.9	11.7	46	8.89	10	6	298.9	325.2	300.5
945.0	610	21.2	10.2	49	8.33	25	5	299.1	323.9	300.6
925.0	795	19.6	10.6	56	8.75	20	5	299.3	325.3	300.9
912.2	914	18.5	10.3	59	8.67	0	4	299.4	325.1	300.9
880.1	1219	15.6	9.4	67	8.49	270	4	299.5	324.7	301.0
850.0	1515	12.8	8.6	76	8.31	290	6	299.5	324.2	301.0
844.0	1575	12.2	8.4	78	8.26	290	7	299.5	324.1	301.0
818.6	1829	10.3	6.5	77	7.49	290	12	300.2	322.6	301.5
798.0	2042	8.8	5.0	77	6.90	297	15	300.7	321.5	302.0
789.2	2134	8.3	3.1	70	6.10	300	17	301.1	319.6	302.3
784.0	2189	8.0	2.0	66	5.67	302	17	301.4	318.6	302.4
773.0	2306	9.8	-13.2	18	1.80	306	18	304.6	310.4	304.9
769.0	2349	10.0	-16.0	14	1.43	307	18	305.2	310.0	305.5
760.7	2438	9.7	-16.7	14	1.37	310	19	305.8	310.4	306.1
733.2	2743	8.5	-19.1	12	1.15	315	20	307.8	311.7	308.0
726.0	2825	8.2	-19.8	12	1.10	314	21	308.3	312.1	308.5
713.0	2973	8.2	-23.8	8	0.79	312	22	309.9	312.7	310.1
700.0	3125	7.6	-23.4	9	0.83	310	24	310.9	313.8	311.0
688.0	3267	6.8	-25.2	8	0.72	310	24	311.5	314.1	311.6
684.0	3315	6.4	-18.6	15	1.30	310	24	311.6	316.0	311.8
679.0	3375	6.2	-8.8	33	2.91	310	24	312.0	321.6	312.6
670.0	3485	5.6	-3.4	52	4.46	310	25	312.5	326.9	313.4
665.0	3546	5.4	-4.6	49	4.11	310	25	313.0	326.3	313.8
655.9	3658	4.6	-5.8	47	3.82	310	25	313.3	325.7	314.1
640.0	3858	3.2	-7.8	44	3.34	308	25	313.9	324.9	314.6
626.0	4037	1.4	-6.6	55	3.75	307	25	313.9	326.1	314.6
609.0	4259	0.6	-11.4	40	2.64	305	25	315.4	324.2	315.9
608.4	4267	0.6	-11.4	40	2.65	305	25	315.5	324.3	316.0
600.0	4378	0.0	-11.0	43	2.77	306	25	316.1	325.3	316.6
581.0	4636	-1.3	-16.3	31	1.85	308	26	317.5	323.8	317.8
567.0	4830	-2.5	-14.5	39	2.20	310	26	318.3	325.8	318.7
563.6	4877	-2.4	-18.4	28	1.60	310	26	319.0	324.6	319.3
562.0	4900	-2.3	-20.3	24	1.36	310	26	319.3	324.1	319.6
529.0	5379	-4.7	-18.7	33	1.66	302	27	322.0	327.9	322.3
512.0	5635	-6.9	-18.9	38	1.69	298	28	322.4	328.3	322.7
506.0	5727	-7.1	-27.1	19	0.83	296	28	323.2	326.2	323.4
500.0	5820	-7.7	-33.7	10	0.45	295	28	323.6	325.3	323.7
497.0	5867	-7.7	-38.7	6	0.27	295	28	324.1	325.2	324.2
484.0	6071	-8.9	-42.9	4	0.18	295	29	325.1	325.9	325.2
482.4	6096	-9.1	-43.2	4	0.18	295	29	325.2	325.9	325.2
400.0	7510	-19.9	-57.9	2	0.04	290	33	329.0	329.2	329.1
394.1	7620	-20.7	-57.8	2	0.04	290	34	329.4	329.5	329.4
375.0	7986	-23.5	-57.5	3	0.04	287	35	330.4	330.6	330.4
364.0	8203	-24.5	-49.5	8	0.12	285	36	331.9	332.4	331.9
333.2	8839	-29.9	-51.2	11	0.10	280	39	333.0	333.4	333.0
331.0	8888	-30.3	-51.3	11	0.10	280	40	333.1	333.5	333.1
323.0	9062	-31.7	-46.7	21	0.18	280	43	333.5	334.2	333.5
319.2	9144	-32.3	-44.4	29	0.23	280	44	333.8	334.7	333.8
314.0	9261	-33.1	-41.1	45	0.34	279	46	334.2	335.6	334.3
305.0	9465	-35.1	-43.1	44	0.28	276	50	334.2	335.3	334.3
300.0	9580	-35.7	-45.7	35	0.21	275	52	334.9	335.8	335.0

284.0	9960	-37.5	-62.5	6	0.03	272	60	337.6	337.8	337.6
251.0	10803	-42.9	-65.9	6	0.02	265	76	341.8	341.9	341.8
250.0	10830	-43.1	-66.1	6	0.02	265	77	341.9	341.9	341.9
244.7	10973	-44.2	-65.2	8	0.02	265	80	342.4	342.5	342.4
229.0	11415	-47.5	-62.5	16	0.04	267	83	343.8	344.0	343.8
223.0	11590	-47.9	-61.9	18	0.04	267	85	345.8	346.0	345.8
216.0	11799	-49.5	-60.5	26	0.05	268	86	346.5	346.8	346.5
200.0	12300	-52.1	-69.1	11	0.02	270	90	350.1	350.2	350.1
193.9	12497	-53.4	-72.6	8	0.01	270	93	351.1	351.2	351.1
192.0	12562	-53.8	-73.7	7	0.01	270	93	351.4	351.5	351.4
189.0	12663	-54.5	-75.5	6	0.01	271	90	351.9	352.0	351.9
176.3	13106	-55.9	-78.5	4	0.00	275	75	356.8	356.8	356.8
174.0	13189	-56.1	-79.1	4	0.00	275	75	357.7	357.8	357.7
152.0	14038	-59.9	-82.9	3	0.00	270	70	365.3	365.3	365.3
150.0	14120	-59.7	-82.7	4	0.00	270	70	367.0	367.0	367.0
146.0	14289	-60.1	-85.1	2	0.00	269	69	369.2	369.2	369.2
134.0	14822	-62.3	-88.3	2	0.00	266	67	374.4	374.4	374.4
131.6	14935	-63.2	-88.8	2	0.00	265	67	374.8	374.8	374.8
128.0	15104	-64.5	-89.5	2	0.00	271	67	375.4	375.4	375.4
125.2	15240	-64.8	-89.5	2	0.00	275	67	377.3	377.3	377.3
119.1	15545	-65.5	-89.7	2	0.00	290	62	381.5	381.5	381.5
117.0	15653	-65.7	-89.7	2	0.00	290	60	382.9	383.0	382.9
111.0	15971	-68.5	-90.5	3	0.00	290	54	383.5	383.5	383.5
109.0	16080	-67.5	-90.5	3	0.00	293	51	387.4	387.4	387.4
107.0	16193	-64.7	-89.7	2	0.00	297	48	394.8	394.8	394.8
104.0	16367	-64.7	-89.7	2	0.00	302	43	398.0	398.0	398.0
101.0	16548	-59.9	-87.9	1	0.00	308	39	410.6	410.6	410.6
100.0	16610	-59.7	-87.7	1	0.00	310	37	412.1	412.1	412.1
87.7	17427	-60.3	-90.3	1	0.00	253	17	426.6	426.7	426.6
84.2	17678	-59.2	-90.1	1	0.00	235	11	433.9	433.9	433.9
84.0	17696	-59.1	-90.1	1	0.00	236	11	434.4	434.4	434.4
76.9	18244	-62.1	-92.1	1	0.00	272	22	439.2	439.2	439.2
76.4	18288	-61.7	-91.8	1	0.00	275	23	441.0	441.0	441.0
72.7	18593	-58.7	-89.6	1	0.00	340	11	453.6	453.6	453.6
72.5	18610	-58.5	-89.5	1	0.00	338	11	454.3	454.3	454.3
70.0	18830	-59.1	-90.1	1	0.00	315	12	457.6	457.6	457.6
66.0	19202	-59.5	-90.5	1	0.00	270	1	464.6	464.6	464.6
66.0	19200	-59.5	-90.5	1	0.00	270	1	464.5	464.5	464.5
57.8	20040	-55.5	-87.5	1	0.00	325	4	491.5	491.5	491.5
50.4	20919	-54.1	-87.1	1	0.00	22	7	514.4	514.4	514.4
50.0	20970	-54.3	-87.3	1	0.00	25	7	515.1	515.1	515.1
48.4	21178	-55.5	-87.5	1	0.00	39	11	517.0	517.1	517.0
47.2	21336	-55.4	-87.5	1	0.00	50	14	520.9	520.9	520.9
45.0	21641	-55.3	-87.6	1	0.00	85	18	528.4	528.4	528.4
42.9	21946	-55.1	-87.6	1	0.00	35	13	536.0	536.0	536.0
39.0	22555	-54.9	-87.7	1	0.00	100	21	551.5	551.5	551.5
37.2	22861	-54.7	-87.7	1	0.00	115	16	559.5	559.5	559.5
37.2	22860	-54.7	-87.7	1	0.00	115	16	559.4	559.5	559.4
35.5	23165	-54.0	-87.0	1	0.01	85	10	569.0	569.0	569.0
33.9	23470	-53.2	-86.2	1	0.01	90	14	578.7	578.7	578.7
32.3	23774	-52.5	-85.5	1	0.01	75	16	588.5	588.6	588.5
30.0	24250	-51.3	-84.3	1	0.01	85	21	604.2	604.3	604.2
29.4	24384	-51.0	-84.1	1	0.01	85	21	608.6	608.7	608.6
28.0	24689	-50.2	-83.8	1	0.01	95	24	618.9	619.0	618.9
26.4	25081	-49.3	-83.3	1	0.01	85	27	632.3	632.5	632.3
25.5	25298	-49.5	-83.5	1	0.01	80	29	637.7	637.9	637.7
24.4	25603	-49.8	-83.8	1	0.01	95	35	645.4	645.5	645.4
24.1	25676	-49.9	-83.9	1	0.01	94	34	647.2	647.4	647.3
22.2	26213	-48.4	-83.0	1	0.02	90	26	667.2	667.4	667.2
21.2	26518	-47.5	-82.4	1	0.02	70	24	678.8	679.0	678.8
21.0	26578	-47.3	-82.3	1	0.02	71	25	681.1	681.3	681.1

20.0	26900	-47.1	-82.1	1	0.02	75	30	691.2	691.5	691.2
18.5	27432	-46.9	-81.9	1	0.03	80	36	707.8	708.1	707.8
18.1	27561	-46.9	-81.9	1	0.03	81	36	711.9	712.1	711.9
17.2	27901	-45.1	-80.1	1	0.04	84	37	728.1	728.5	728.1
16.8	28042	-45.2	-80.2	1	0.04	85	37	732.2	732.6	732.2
16.1	28346	-45.4	-80.4	1	0.04	105	34	741.1	741.5	741.1
14.7	28956	-45.8	-80.8	1	0.04	90	42	759.3	759.8	759.4
14.4	29086	-45.9	-80.9	1	0.04	89	41	763.3	763.7	763.3
11.9	30362	-43.7	-79.7	1	0.06	81	36	813.8	814.5	813.9
11.7	30480	-43.4	-79.5	1	0.06	80	35	819.1	819.9	819.1
10.1	31472	-40.5	-77.5	1	0.10	85	39	864.8	866.0	864.8
10.0	31540	-40.1	-77.1	1	0.11	85	39	868.7	870.1	868.8
9.3	32038	-37.3	-75.3	1	0.15	85	39	897.6	899.5	897.6
7.8	33223	-37.5	-75.5	1	0.17	85	39	942.1	944.5	942.2
7.5	33523	-37.5	-75.5	1	0.18			953.7	956.2	953.8

Station information and sounding indices

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Station identifier: IAD
Station number: 72403
Observation time: 150724/0000
Station latitude: 38.98
Station longitude: -77.46
Station elevation: 93.0
Showalter index: 6.50
Lifted index: 6.08
LIFT computed using virtual temperature: 5.73
SWEAT index: 143.20
K index: -1.90
Cross totals index: 16.30
Vertical totals index: 20.50
Totals totals index: 36.80
Convective Available Potential Energy: 0.00
CAPE using virtual temperature: 0.00
Convective Inhibition: 0.00
CINS using virtual temperature: 0.00
Bulk Richardson Number: 0.00
Bulk Richardson Number using CAPV: 0.00
Temp [K] of the Lifted Condensation Level: 281.98
Pres [hPa] of the Lifted Condensation Level: 815.31
Mean mixed layer potential temperature: 298.94
Mean mixed layer mixing ratio: 8.83
1000 hPa to 500 hPa thickness: 5703.00
Precipitable water [mm] for entire sounding: 24.83

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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)
