

72402 WAL Wallops Island 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
1012.0	12	26.8	15.8	51	11.27	310	7	298.9	332.1	301.0
1000.0	115	25.8	14.8	51	10.69	305	8	298.9	330.4	300.9
978.5	305	24.1	14.1	54	10.46	295	9	299.1	330.0	301.0
944.8	610	21.4	13.1	59	10.09	290	10	299.4	329.2	301.2
937.0	683	20.8	12.8	60	10.00	288	10	299.5	329.0	301.3
925.0	794	19.8	11.8	60	9.48	285	10	299.6	327.6	301.3
912.1	914	18.7	11.8	65	9.65	280	10	299.6	328.1	301.3
880.0	1219	15.8	12.0	78	10.09	265	10	299.7	329.5	301.5
850.0	1515	13.0	12.1	94	10.54	265	14	299.8	330.9	301.6
849.1	1524	12.9	12.0	94	10.51	265	14	299.8	330.8	301.7
823.0	1786	10.8	10.3	97	9.64	282	15	300.2	328.8	301.9
818.8	1829	10.5	9.5	93	9.16	285	15	300.4	327.6	302.0
801.0	2012	9.4	5.9	79	7.32	291	16	301.0	323.0	302.4
797.0	2054	10.4	-4.6	35	3.43	292	16	302.5	313.3	303.2
791.0	2117	11.6	-13.4	16	1.73	294	17	304.5	310.2	304.8
789.4	2134	11.5	-13.5	16	1.72	295	17	304.6	310.2	304.9
761.0	2438	10.0	-15.0	16	1.57	305	17	306.1	311.3	306.4
754.0	2515	9.6	-15.4	16	1.54	305	18	306.5	311.6	306.8
733.5	2743	9.2	-19.9	11	1.08	305	19	308.4	312.1	308.6
700.0	3130	8.4	-27.6	6	0.57	300	19	311.8	313.8	311.9
682.0	3344	8.2	-38.8	2	0.20	296	17	313.9	314.6	313.9
667.0	3527	6.6	-12.4	24	2.22	293	14	314.1	321.5	314.5
656.4	3658	6.0	-17.4	17	1.49	290	13	314.9	320.0	315.2
641.0	3851	5.2	-24.8	9	0.80	292	14	316.1	318.9	316.2
635.0	3928	4.4	-10.6	33	2.70	292	15	316.0	325.0	316.5
621.0	4108	2.8	-9.2	41	3.08	294	16	316.2	326.4	316.8
608.8	4267	1.4	-10.3	41	2.88	295	17	316.4	326.1	317.0
571.0	4779	-2.9	-13.9	42	2.30	291	19	317.2	325.0	317.6
564.0	4877	-3.4	-16.4	36	1.89	290	19	317.7	324.2	318.0
550.0	5075	-4.5	-21.5	25	1.25	291	23	318.7	323.1	318.9
522.0	5484	-6.3	-10.5	72	3.31	293	31	321.3	332.5	322.0
501.9	5791	-7.3	-13.2	63	2.77	295	37	323.8	333.3	324.3
501.0	5804	-7.3	-13.3	62	2.75	295	37	323.9	333.4	324.4
500.0	5820	-7.5	-13.5	62	2.71	295	37	323.8	333.2	324.4
495.0	5898	-8.1	-11.8	75	3.15	294	38	324.0	334.8	324.6
482.5	6096	-9.3	-16.0	58	2.29	290	39	324.9	332.9	325.3
477.0	6185	-9.9	-17.9	52	1.97	289	39	325.2	332.2	325.6
416.0	7226	-17.1	-25.1	50	1.20	282	45	329.0	333.4	329.2
408.0	7372	-17.3	-34.3	21	0.52	281	45	330.5	332.5	330.6
402.0	7483	-18.1	-38.1	16	0.36	280	46	330.9	332.3	331.0
400.0	7520	-18.5	-33.5	26	0.57	280	46	330.9	333.1	331.0
398.0	7557	-18.9	-30.9	34	0.73	280	46	330.8	333.6	331.0
394.7	7620	-19.3	-32.8	29	0.62	280	46	331.0	333.4	331.1
389.0	7728	-20.1	-36.1	23	0.45	279	47	331.4	333.2	331.5
377.0	7960	-22.1	-31.1	44	0.76	278	50	331.8	334.6	331.9
367.0	8158	-23.3	-36.3	29	0.47	277	53	332.7	334.6	332.8
352.0	8463	-26.1	-37.1	35	0.45	275	57	332.9	334.7	333.0
339.0	8736	-27.1	-31.2	68	0.84	273	61	335.2	338.4	335.3
320.3	9144	-29.3	-31.0	85	0.90	270	66	337.5	341.0	337.7
319.0	9173	-29.5	-31.0	87	0.91	270	66	337.7	341.2	337.9
300.0	9610	-33.1	-34.1	91	0.72	270	72	338.6	341.4	338.8
298.0	9657	-33.3	-34.3	91	0.71	270	73	339.0	341.7	339.1
281.0	10065	-37.1	-44.1	48	0.27	268	77	339.2	340.4	339.3

271.0	10313	-39.3	-46.3	47	0.22	267	80	339.6	340.5	339.6
257.2	10668	-41.4	-47.1	54	0.21	265	84	341.6	342.5	341.7
250.0	10860	-42.5	-47.5	58	0.21	265	84	342.7	343.6	342.8
241.0	11107	-44.9	-49.2	62	0.18	266	86	342.8	343.5	342.8
217.0	11806	-48.7	-56.7	39	0.08	269	90	347.3	347.7	347.3
209.0	12052	-50.4	-58.4	38	0.07	270	92	348.4	348.8	348.5
204.6	12192	-51.3	-59.3	38	0.06	270	92	349.1	349.4	349.1
200.0	12340	-52.3	-60.3	37	0.06	270	90	349.8	350.1	349.8
175.0	13196	-56.3	-65.3	31	0.03	264	85	356.8	357.0	356.8
161.1	13716	-60.3	-68.5	33	0.02	260	82	358.7	358.8	358.7
157.0	13878	-61.5	-69.5	34	0.02	265	83	359.2	359.3	359.2
150.0	14160	-62.5	-70.5	33	0.02	270	78	362.2	362.3	362.2
125.6	15240	-65.4	-72.8	35	0.02	280	61	375.9	376.0	375.9
119.4	15545	-66.2	-73.4	35	0.02	280	60	379.9	379.9	379.9
113.5	15850	-67.0	-74.1	36	0.01	295	56	383.8	383.9	383.8
110.0	16043	-67.5	-74.5	36	0.01	295	51	386.4	386.5	386.4
101.0	16559	-64.1	-72.1	33	0.02	295	38	402.5	402.6	402.5
100.0	16620	-64.1	-72.1	33	0.02	295	36	403.6	403.7	403.6
97.7	16764	-63.8	-71.8	33	0.02	290	34	407.0	407.1	407.0
93.0	17069	-63.0	-71.0	33	0.03	315	25	414.3	414.4	414.3
88.5	17374	-62.3	-70.3	33	0.03	290	8	421.6	421.8	421.6
85.1	17612	-61.7	-69.7	34	0.04	239	13	427.5	427.7	427.5
84.2	17678	-61.5	-69.6	33	0.04	225	14	429.1	429.4	429.1
80.2	17983	-60.7	-69.3	31	0.04	285	16	436.8	437.1	436.8
76.4	18288	-59.9	-69.0	29	0.05	305	5	444.6	444.9	444.7
72.7	18593	-59.1	-68.7	28	0.05	260	11	452.6	452.9	452.6
70.0	18830	-58.5	-68.5	26	0.05	305	8	458.9	459.2	458.9
69.2	18898	-58.3	-68.4	26	0.06	305	8	460.6	461.0	460.6
66.0	19202	-57.6	-67.8	26	0.06	190	10	468.6	469.0	468.6
62.9	19507	-56.9	-67.2	26	0.07	265	11	476.6	477.1	476.7
60.0	19812	-56.1	-66.7	25	0.08	320	8	484.9	485.4	484.9
57.2	20117	-55.4	-66.1	25	0.09	20	3	493.2	493.8	493.2
54.5	20422	-54.7	-65.6	25	0.10	20	3	501.7	502.4	501.7
52.4	20670	-54.1	-65.1	25	0.12	98	6	508.7	509.5	508.7
51.9	20726	-54.3	-65.3	25	0.11	115	7	509.5	510.3	509.6
50.0	20970	-55.1	-66.1	24	0.11	105	7	513.2	513.9	513.2
47.2	21336	-55.1	-66.3	24	0.11	35	8	521.8	522.5	521.8
37.4	22824	-54.9	-66.9	21	0.13	84	17	558.1	559.1	558.1
37.2	22860	-54.8	-66.8	21	0.13	85	17	559.4	560.3	559.4
33.8	23470	-52.3	-66.1	17	0.16	90	22	581.2	582.4	581.2
32.3	23774	-51.1	-65.7	16	0.17	80	22	592.3	593.7	592.4
31.6	23912	-50.5	-65.5	15	0.18	87	25	597.4	598.9	597.5
30.8	24079	-50.7	-65.7	15	0.18	95	28	601.3	602.8	601.4
30.0	24250	-50.9	-65.9	15	0.18	95	22	605.3	606.8	605.3
25.6	25298	-49.7	-66.0	13	0.21	95	23	637.0	638.8	637.0
23.3	25908	-49.0	-66.0	12	0.23	75	26	656.1	658.2	656.2
20.5	26743	-48.1	-66.1	11	0.26			683.3	685.7	683.4

Station information and sounding indices

Station identifier: WAL
 Station number: 72402
 Observation time: 150724/0000
 Station latitude: 37.93
 Station longitude: -75.47
 Station elevation: 12.0
 Showalter index: 3.42
 Lifted index: 3.73
 LIFT computed using virtual temperature: 3.65
 SWEAT index: 210.22

K index: -3.40
Cross totals index: 19.60
Vertical totals index: 20.50
Totals totals index: 40.10
Convective Available Potential Energy: 2.29
CAPE using virtual temperature: 4.80
Convective Inhibition: -19.91
CINS using virtual temperature: -16.32
Equilibrium Level: 799.57
Equilibrium Level using virtual temperature: 795.66
Level of Free Convection: 826.46
LFCT using virtual temperature: 828.23
Bulk Richardson Number: 0.29
Bulk Richardson Number using CAPV: 0.61
Temp [K] of the Lifted Condensation Level: 285.20
Pres [hPa] of the Lifted Condensation Level: 846.75
Mean mixed layer potential temperature: 299.09
Mean mixed layer mixing ratio: 10.56
1000 hPa to 500 hPa thickness: 5705.00
Precipitable water [mm] for entire sounding: 30.02

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)
