

72387 DRA Mercury Observations at 00Z 17 Jul 1988

PRES	HGHT	TEMP	DWPT	RELH	MIXR	DRCT	SKNT	THTA	THTE	THTV
hPa	m	C	C	%	g/kg	deg	knot	K	K	K
1000.0	54									
900.0	1009	39.4	9.4	16	8.29	220	15	322.1	349.2	323.7
889.0	1121	36.0	6.0	16	6.64	220	16	319.7	341.4	321.0
879.4	1219	35.0	5.0	15	6.25	220	16	319.7	340.1	320.9
850.0	1526	31.8	1.8	15	5.15	220	15	319.4	336.4	320.4
821.1	1828	29.0	-1.0	14	4.35	220	12	319.6	334.1	320.5
792.9	2133	26.1	-3.9	14	3.64	205	11	319.8	332.0	320.5
765.6	2438	23.3	-6.7	13	3.04	210	10	319.9	330.2	320.5
739.3	2743	20.4	-9.6	12	2.52	210	8	320.1	328.7	320.6
700.0	3220	16.0	-14.0	11	1.86	220	8	320.2	326.6	320.5
664.2	3657	11.7	-13.1	16	2.11	215	6	320.2	327.5	320.6
617.2	4267	5.8	-11.9	27	2.51	195	8	320.1	328.7	320.6
607.0	4405	4.4	-11.6	30	2.61	202	8	320.1	329.0	320.6
595.0	4568	5.2	-24.8	9	0.87	210	9	322.9	326.0	323.0
572.5	4876	2.8	-27.2	9	0.72	225	10	323.6	326.4	323.8
500.0	5960	-5.5	-35.5	7	0.37	220	13	326.3	327.7	326.3
491.1	6096	-6.7	-35.6	8	0.38	220	13	326.5	327.9	326.6
471.9	6400	-9.3	-36.0	9	0.38	220	11	326.9	328.4	327.0
402.1	7620	-19.9	-37.3	20	0.39	205	16	328.5	330.0	328.6
400.0	7660	-20.3	-37.3	20	0.39	210	14	328.5	330.0	328.6
369.6	8229	-24.5	-45.0	13	0.19	235	11	330.5	331.2	330.5
325.4	9144	-31.2	-57.5	6	0.05	235	10	333.4	333.7	333.4
300.0	9730	-35.5	-65.5	3	0.02	260	13	335.2	335.3	335.2
299.0	9753	-35.6	-65.6	3	0.02	260	13	335.4	335.5	335.4
262.0	10661	-40.1	-70.1	3	0.01	260	18	341.7	341.8	341.7
261.7	10668	-40.1				260	18	341.8		341.8
250.3	10972	-40.5				255	18	345.6		345.6
250.0	10980	-40.5				255	18	345.7		345.7
218.4	11887	-45.7				295	11	351.3		351.3
200.0	12480	-49.1				265	13	354.9		354.9
190.2	12801	-51.3				250	16	356.5		356.5
164.7	13716	-57.6				285	14	360.9		360.9
157.0	14020	-59.7				230	11	362.3		362.3
150.0	14310	-61.7				225	13	363.6		363.6
128.7	15240	-65.0				235	12	373.8		373.8
116.4	15849	-67.2				200	10	380.6		380.6
107.0	16363	-69.1				200	11	386.4		386.4
105.3	16459	-68.3				210	11	389.7		389.7
100.0	16770	-65.7				220	10	400.5		400.5
97.0	16955	-66.7				203	10	402.1		402.1
83.0	17909	-62.1				115	11	429.8		429.8
78.0	18288	-62.5				80	11	436.6		436.6
70.0	18960	-63.1				115	16	449.1		449.1
64.2	19507	-60.7				130	15	465.5		465.5
58.3	20116	-58.1				115	12	484.5		484.5
55.5	20421	-56.8				90	12	494.3		494.3
50.4	21031	-54.1				95	16	514.4		514.4
50.0	21080	-53.9				95	16	516.0		516.0
48.1	21336	-52.9				85	16	524.3		524.3
47.0	21479	-52.3				84	16	529.0		529.0
42.0	22205	-54.3				78	17	541.4		541.4
39.8	22555	-52.8				75	18	553.7		553.7
36.0	23204	-49.9				86	23	577.1		577.1

34.6	23469	-49.8	90	25	584.2	584.2
30.0	24400	-49.3	90	24	609.6	609.6
25.0	25595	-49.1	90	29	642.8	642.8
20.0	27080	-42.7	90	36	704.7	704.7
19.0	27432	-43.1	95	38	714.1	714.1
17.0	28176	-43.9	96	39	734.3	734.3
10.0	31800	-36.7	100	41	881.4	881.4
7.8	33529	-34.1			956.6	956.6

Station information and sounding indices

Station identifier: DRA
 Station number: 72387
 Observation time: 880717/0000
 Station latitude: 36.61
 Station longitude: -116.01
 Station elevation: 1009.0
 Showalter index: 2.91
 Lifted index: 1.31

LIFT computed using virtual temperature: 0.63
 SWEAT index: 64.59
 K index: 9.10
 Cross totals index: 7.30
 Vertical totals index: 37.30
 Totals totals index: 44.60
 Convective Available Potential Energy: 244.57
 CAPE using virtual temperature: 324.62
 Convective Inhibition: -163.53
 CINS using virtual temperature: -92.83
 Equilibrium Level: 283.67
 Equilibrium Level using virtual temperature: 283.10
 Level of Free Convection: 465.10
 LFCT using virtual temperature: 480.40
 Bulk Richardson Number: 71.92
 Bulk Richardson Number using CAPV: 95.45
 Temp [K] of the Lifted Condensation Level: 271.85
 Pres [hPa] of the Lifted Condensation Level: 565.83
 Mean mixed layer potential temperature: 319.89
 Mean mixed layer mixing ratio: 6.26
 1000 hPa to 500 hPa thickness: 5906.00
 Precipitable water [mm] for entire sounding: 11.72

72387 DRA Mercury Observations at 12Z 17 Jul 1988

PRES	HGHT	TEMP	DWPT	RELH	MIXR	DRCT	SKNT	THTA	THTE	THTV
hPa	m	C	C	%	g/kg	deg	knot	K	K	K
1000.0	67									
902.0	1009	22.8	-3.2	17	3.36	130	4	304.8	315.5	305.4
894.0	1086	28.0	-2.0	14	3.71	106	3	310.9	322.9	311.6
880.6	1219	29.0	-1.0	14	4.06	65	1	313.3	326.5	314.1
870.0	1325	29.8	-0.2	14	4.35	17	1	315.2	329.5	316.1
850.0	1529	28.6	-1.4	14	4.08	285	1	316.1	329.5	316.9
821.7	1828	26.8	-3.2	14	3.69	230	1	317.3	329.5	318.0
800.0	2064	25.4	-4.6	13	3.41	242	3	318.2	329.6	318.9
793.6	2133	24.8	-5.2	13	3.28	245	3	318.3	329.3	318.9
766.0	2438	22.1	-7.9	13	2.76	245	6	318.6	327.9	319.1

739.3	2743	19.4	-10.6	12	2.31	245	10	318.9	326.8	319.3
700.0	3214	15.2	-14.8	11	1.74	215	4	319.3	325.3	319.6
662.9	3657	11.1	-15.2	14	1.78	105	2	319.7	325.9	320.1
615.0	4267	5.6	-15.8	20	1.83	55	4	320.2	326.6	320.6
570.7	4876	-0.0	-16.4	28	1.87	105	6	320.6	327.1	321.0
549.7	5181	-2.8	-16.7	34	1.90	100	12	320.7	327.3	321.1
519.0	5649	-7.1	-17.1	45	1.94	104	11	320.9	327.6	321.3
509.6	5791	-7.4	-27.1	19	0.82	105	11	322.2	325.2	322.4
500.0	5940	-7.7	-37.7	7	0.30	215	5	323.6	324.8	323.6
489.8	6096	-8.9	-38.9	7	0.27	255	6	324.0	325.0	324.0
470.5	6400	-11.3	-41.4	6	0.22	260	14	324.7	325.6	324.8
400.5	7620	-21.0	-51.0	5	0.09	275	14	327.5	327.8	327.5
400.0	7630	-21.1	-51.1	5	0.09	275	13	327.5	327.9	327.5
367.9	8229	-25.4	-50.4	8	0.10	270	10	329.8	330.2	329.8
323.8	9144	-31.8	-49.3	16	0.13	280	8	333.1	333.6	333.1
300.0	9690	-35.7	-48.7	25	0.15	265	7	334.9	335.6	335.0
260.5	10668	-40.0	-54.0	21	0.09	310	12	342.4	342.8	342.4
260.0	10682	-40.1	-54.1	21	0.09	310	12	342.4	342.9	342.5
250.0	10950	-41.3				310	15	344.5		344.5
238.0	11277	-43.7				315	17	345.8		345.8
200.0	12430	-52.1				270	10	350.1		350.1
188.7	12801	-54.9				240	15	351.5		351.5
175.0	13282	-58.5				264	19	353.2		353.2
171.4	13411	-59.1				270	20	354.3		354.3
155.4	14020	-62.0				250	18	359.4		359.4
150.0	14240	-63.1				260	16	361.2		361.2
147.9	14325	-63.5				265	15	362.0		362.0
127.2	15240	-67.5				240	12	370.6		370.6
121.0	15544	-68.9				250	12	373.5		373.5
120.0	15594	-69.1				250	11	374.0		374.0
103.9	16459	-67.5				150	2	392.7		392.7
100.0	16690	-67.1				150	2	397.8		397.8
90.0	17327	-67.3				119	3	409.6		409.6
73.0	18610	-61.7				57	6	446.7		446.7
70.0	18870	-62.1				45	7	451.2		451.2
66.3	19202	-62.6				60	11	457.1		457.1
63.0	19521	-63.1				71	12	462.8		462.8
59.0	19927	-61.9				84	14	474.2		474.2
57.2	20116	-58.6				90	15	485.9		485.9
57.0	20143	-58.1				90	15	487.5		487.5
50.0	20970	-57.9				80	17	506.6		506.6
47.2	21336	-57.0				70	21	517.0		517.0
45.0	21640	-56.3				65	26	525.9		525.9
43.0	21945	-55.5				80	25	534.9		534.9
30.0	24250	-49.9				85	28	608.0		608.0
28.1	24688	-49.0				85	33	622.2		622.2
22.3	26212	-45.8				110	28	674.0		674.0
20.0	26930	-44.3				90	29	699.8		699.8
18.6	27432	-45.5				80	31	711.1		711.1
17.7	27736	-46.3				80	30	718.1		718.1
17.5	27820	-46.5						720.0		720.0

Station information and sounding indices

Station identifier: DRA
 Station number: 72387
 Observation time: 880717/1200
 Station latitude: 36.61
 Station longitude: -116.01
 Station elevation: 1009.0

Showalter index: 3.87
 Lifted index: 5.51
 LIFT computed using virtual temperature: 5.12
 SWEAT index: 6.97
 K index: 4.90
 Cross totals index: 6.30
 Vertical totals index: 36.30
 Totals totals index: 42.60
 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: 266.06
 Pres [hPa] of the Lifted Condensation Level: 565.37
 Mean mixed layer potential temperature: 313.17
 Mean mixed layer mixing ratio: 4.02
 1000 hPa to 500 hPa thickness: 5873.00
 Precipitable water [mm] for entire sounding: 10.54

72387 DRA Mercury Observations at 00Z 18 Jul 1988

PRES	HGHT	TEMP	DWPT	RELH	MIXR	DRCT	SKNT	THTA	THTE	THTV
hPa	m	C	C	%	g/kg	deg	knot	K	K	K
1000.0	55									
900.0	1009	40.2	11.2	18	9.36	75	3	322.9	353.5	324.8
891.0	1102	37.4	7.4	16	7.30	125	3	321.0	344.8	322.4
879.6	1219	36.2	6.2	16	6.83	190	3	320.9	343.3	322.3
850.0	1531	33.2	3.2	15	5.70	250	5	320.9	339.7	322.0
821.7	1828	30.4	0.4	14	4.81	255	5	321.0	337.0	322.0
793.5	2133	27.5	-2.5	14	4.02	245	5	321.1	334.6	321.9
766.4	2438	24.6	-5.4	13	3.34	290	5	321.2	332.5	321.9
740.2	2743	21.7	-8.3	13	2.77	340	3	321.3	330.7	321.8
700.0	3232	17.0	-13.0	12	2.02	10	5	321.3	328.3	321.7
665.0	3657	13.2	-12.8	15	2.16	5	4	321.7	329.2	322.2
617.8	4267	7.7	-12.4	22	2.39	15	13	322.3	330.6	322.8
574.0	4876	2.2	-12.1	34	2.64	20	15	322.7	331.8	323.2
557.0	5124	0.0	-12.0	40	2.75	24	15	322.9	332.3	323.4
532.1	5486	-2.9	-15.8	36	2.12	30	16	323.6	331.0	324.0
500.0	5980	-6.9	-20.9	32	1.45	10	13	324.6	329.8	324.9
492.6	6096	-7.9	-22.3	30	1.31	10	13	324.8	329.5	325.0
466.0	6525	-11.5	-27.5	25	0.86	14	11	325.4	328.6	325.6
447.0	6843	-12.5	-42.5	6	0.20	17	10	328.1	328.9	328.1
403.2	7620	-19.2	-49.2	5	0.11	25	7	329.2	329.7	329.2
400.0	7680	-19.7	-49.7	5	0.10	25	8	329.3	329.7	329.3
354.0	8573	-26.5	-56.5	4	0.05	28	12	331.9	332.1	331.9
326.7	9144	-29.7	-59.7	4	0.04	30	15	335.1	335.3	335.1
300.0	9750	-33.1	-63.1	3	0.03	10	14	338.6	338.7	338.6
299.9	9753	-33.1	-63.1	3	0.03	10	14	338.6	338.8	338.6
262.7	10668	-38.5	-68.5	3	0.01	360	13	343.8	343.8	343.8
254.0	10902	-39.9	-69.9	3	0.01	350	12	345.0	345.1	345.0
250.0	11010	-40.9				345	12	345.1		345.1
209.4	12192	-49.3				275	11	349.9		349.9
200.0	12500	-51.5				265	16	351.1		351.1
173.2	13411	-57.2				255	10	356.4		356.4
150.0	14320	-62.9				250	13	361.5		361.5

128.9	15240	-67.0	255	14	370.2	370.2
120.0	15677	-68.9	255	12	374.3	374.3
116.6	15849	-68.3	250	12	378.5	378.5
105.5	16459	-66.2	295	9	393.5	393.5
100.0	16780	-65.1	305	9	401.7	401.7
82.1	17983	-64.0	50	10	427.2	427.2
70.7	18897	-63.2	105	14	447.6	447.6
70.0	18960	-63.1	105	13	449.1	449.1
67.3	19202	-63.4	110	12	453.6	453.6
66.0	19321	-63.5	103	12	455.8	455.8
58.1	20116	-58.5	60	14	483.9	483.9
58.0	20123	-58.5	60	14	484.2	484.2
50.0	21060	-56.3	80	22	510.4	510.4
47.9	21336	-55.9	85	22	517.6	517.6
45.7	21640	-55.5	90	21	525.7	525.7
37.8	22860	-53.8	70	23	559.4	559.4
30.0	24340	-51.7	75	28	603.1	603.1
25.0	25535	-47.3	88	27	648.0	648.0
22.0	26379	-48.5	98	26	668.5	668.5
20.0	27010	-46.3	105	26	693.7	693.7
18.8	27432	-44.9	105	25	710.7	710.7
17.5	27903	-43.3	102	26	730.2	730.2
12.5	30162	-44.5	86	32	799.7	799.7
10.0	31670	-40.5	75	36	867.2	867.2
7.0	34120	-36.3	75	50	977.6	977.6
6.3	34851	-36.1			1008.3	1008.3

Station information and sounding indices

Station identifier: DRA
 Station number: 72387
 Observation time: 880718/0000
 Station latitude: 36.61
 Station longitude: -116.01
 Station elevation: 1009.0
 Showalter index: 0.12

Lifted index: -1.38

LIFT computed using virtual temperature: -1.97

SWEAT index: 85.38

K index: 13.30

Cross totals index: 10.10

Vertical totals index: 40.10

Totals totals index: 50.20

Convective Available Potential Energy: 405.60

CAPE using virtual temperature: 511.15

Convective Inhibition: -67.28

CINS using virtual temperature: -17.23

Equilibrium Level: 285.23

Equilibrium Level using virtual temperature: 284.22

Level of Free Convection: 535.15

LFCT using virtual temperature: 551.69

Bulk Richardson Number: 44.11

Bulk Richardson Number using CAPV: 55.58

Temp [K] of the Lifted Condensation Level: 273.13

Pres [hPa] of the Lifted Condensation Level: 567.50

Mean mixed layer potential temperature: 321.13

Mean mixed layer mixing ratio: 6.86

1000 hPa to 500 hPa thickness: 5925.00

Precipitable water [mm] for entire sounding: 14.35

72387 DRA Mercury Observations at 12Z 18 Jul 1988

PRES	HGHT	TEMP	DWPT	RELH	MIXR	DRCT	SKNT	THTA	THTE	THTV
hPa	m	C	C	%	g/kg	deg	knot	K	K	K
1000.0	45									
900.0	1009	29.0	1.0	16	4.59	40	8	311.4	326.1	312.2
880.0	1210	30.6	0.6	15	4.56	30	15	315.1	329.9	315.9
879.1	1219	30.6	0.6	15	4.56	30	15	315.1	330.0	316.0
850.0	1521	30.0	0.0	14	4.52	20	16	317.6	332.4	318.4
849.7	1524	30.0	-0.0	14	4.52	20	15	317.6	332.4	318.4
821.0	1828	27.9	-2.1	14	4.02	25	10	318.5	331.9	319.3
800.0	2058	26.4	-3.6	14	3.68	18	9	319.3	331.6	320.0
793.1	2133	25.8	-4.2	13	3.54	15	8	319.4	331.3	320.1
765.6	2438	23.2	-6.8	13	3.02	15	10	319.9	330.1	320.5
739.1	2743	20.7	-9.3	12	2.57	25	12	320.4	329.2	320.9
700.0	3214	16.8	-13.2	12	1.99	35	11	321.1	328.0	321.4
688.3	3352	15.5	-13.1	13	2.03	35	11	321.1	328.2	321.6
663.1	3657	12.6	-13.0	15	2.13	45	9	321.3	328.7	321.8
615.4	4267	6.8	-12.7	23	2.35	40	6	321.6	329.7	322.1
571.2	4876	1.0	-12.4	36	2.59	10	4	321.8	330.6	322.3
521.0	5629	-6.1	-12.1	63	2.92	14	13	321.7	331.7	322.3
510.3	5791	-7.2	-25.3	22	0.96	15	15	322.3	325.8	322.5
500.0	5950	-8.3	-38.3	7	0.28	15	15	322.9	324.0	322.9
490.5	6096	-9.5	-39.5	7	0.25	15	16	323.1	324.1	323.2
420.0	7277	-19.3	-49.3	5	0.10	23	14	325.2	325.7	325.3
401.1	7620	-20.4	-50.4	5	0.09	25	14	328.1	328.5	328.1
400.0	7640	-20.5	-50.5	5	0.09	20	12	328.3	328.6	328.3
368.6	8229	-24.6	-54.6	4	0.06	330	13	330.5	330.8	330.5
324.6	9144	-31.1	-61.1	4	0.03	320	13	333.8	334.0	333.8
300.0	9710	-35.1	-65.1	3	0.02	310	11	335.8	335.9	335.8
285.2	10058	-36.9	-66.9	3	0.02	315	17	338.1	338.2	338.1
261.0	10668	-40.0	-70.0	3	0.01	305	16	342.3	342.3	342.3
260.0	10694	-40.1	-70.1	3	0.01	303	16	342.4	342.5	342.4
250.0	10960	-42.1				285	16	343.3		343.3
227.5	11582	-46.9				270	22	345.4		345.4
207.4	12192	-51.6				275	20	347.2		347.2
200.0	12430	-53.5				265	18	347.9		347.9
188.7	12801	-56.3				240	19	349.2		349.2
181.0	13068	-58.3				250	19	350.1		350.1
163.1	13716	-61.3				275	20	355.7		355.7
150.0	14240	-63.7				265	20	360.1		360.1
147.9	14325	-64.1				265	21	360.9		360.9
133.8	14935	-66.9				280	17	366.4		366.4
133.0	14973	-67.1				280	17	366.7		366.7
127.2	15240	-67.4				300	15	370.9		370.9
121.0	15544	-67.7				310	13	375.7		375.7
100.0	16690	-68.9				325	4	394.4		394.4
96.0	16934	-69.5				337	5	397.8		397.8
85.0	17668	-64.5				13	10	422.0		422.0
70.0	18860	-62.3				70	17	450.8		450.8
55.0	20353	-61.5				59	21	484.8		484.8
50.0	20950	-57.5				55	23	507.5		507.5
32.0	23802	-51.1				94	27	593.7		593.7
30.0	24220	-51.9				100	27	602.5		602.5
20.0	26880	-47.7				90	25	689.4		689.4
11.0	30874	-42.1						838.1		838.1

Station information and sounding indices

Station identifier: DRA
Station number: 72387
Observation time: 880718/1200
Station latitude: 36.61
Station longitude: -116.01
Station elevation: 1009.0
Showalter index: 1.89
Lifted index: 3.12

LIFT computed using virtual temperature: 2.66
SWEAT index: 47.01

K index: 8.30

Cross totals index: 8.30

Vertical totals index: 38.30

Totals totals index: 46.60

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: 267.75

Pres [hPa] of the Lifted Condensation Level: 566.25

Mean mixed layer potential temperature: 315.01

Mean mixed layer mixing ratio: 4.56

1000 hPa to 500 hPa thickness: 5905.00

Precipitable water [mm] for entire sounding: 12.14

72387 DRA Mercury Observations at 00Z 19 Jul 1988

PRES	HGHT	TEMP	DWPT	RELH	MIXR	DRCT	SKNT	THTA	THTE	THTV
hPa	m	C	C	%	g/kg	deg	knot	K	K	K
1000.0	8									
897.0	1009	42.0	11.0	16	9.27	0	0	325.1	355.6	326.9
887.0	1113	39.2	9.2	16	8.30	37	0	323.2	350.4	324.9
876.7	1219	38.3	8.3	16	7.88	75	1	323.4	349.2	324.9
850.0	1502	35.8	5.8	16	6.85	160	2	323.6	346.3	325.0
819.2	1828	32.6	2.6	15	5.67	180	2	323.7	342.6	324.8
791.4	2133	29.6	-0.4	14	4.72	275	2	323.7	339.6	324.6
764.5	2438	26.6	-3.4	14	3.92	320	4	323.7	337.0	324.4
738.5	2743	23.6	-6.4	13	3.23	320	7	323.6	334.7	324.3
700.0	3216	19.0	-11.0	12	2.37	330	9	323.5	331.7	324.0
663.7	3657	14.9	-12.7	14	2.17	340	12	323.8	331.4	324.2
616.6	4267	9.2	-15.1	16	1.92	350	16	324.1	330.9	324.5
573.0	4876	3.5	-17.5	20	1.69	340	10	324.3	330.3	324.6
548.0	5245	0.0	-19.0	22	1.56	334	11	324.4	329.9	324.7
531.6	5486	-2.4	-19.0	27	1.61	330	11	324.4	330.1	324.7
500.0	5970	-7.1	-19.1	38	1.70	325	17	324.3	330.3	324.6
491.9	6096	-8.3	-19.6	40	1.65	325	20	324.4	330.2	324.7
472.7	6400	-11.2	-20.9	45	1.54	325	25	324.5	330.0	324.8
443.0	6898	-15.9	-22.9	55	1.38	343	23	324.6	329.6	324.9
415.0	7387	-18.9	-48.9	5	0.11	1	21	326.9	327.3	326.9
402.2	7620	-20.3	-50.3	5	0.10	10	20	328.1	328.5	328.1
400.0	7660	-20.5	-50.5	5	0.09	10	19	328.3	328.6	328.3
369.7	8229	-24.2	-54.2	4	0.07	15	11	330.9	331.1	330.9

325.8	9144	-30.1	-60.1	4	0.04	350	18	334.9	335.1	334.9
312.4	9448	-32.0	-62.0	3	0.03	350	17	336.2	336.4	336.2
300.0	9740	-33.9	-63.9	3	0.02	330	14	337.5	337.6	337.5
286.4	10058	-35.7	-65.7	3	0.02	300	16	339.4	339.5	339.4
262.1	10668	-39.1	-69.1	3	0.01	290	12	343.1	343.1	343.1
257.0	10803	-39.9	-69.9	3	0.01	282	12	343.9	343.9	343.9
250.0	10990	-41.5				270	13	344.2		344.2
228.9	11582	-46.7				260	16	345.1		345.1
228.0	11609	-46.9				260	16	345.2		345.2
208.6	12192	-50.1				260	16	348.9		348.9
200.0	12470	-51.7				265	16	350.7		350.7
189.9	12801	-53.5				290	16	353.1		353.1
172.5	13411	-56.8				280	11	357.4		357.4
156.8	14020	-60.2				295	12	361.6		361.6
150.0	14300	-61.7				290	11	363.6		363.6
135.2	14935	-64.9				255	10	368.9		368.9
128.6	15240	-66.4				245	12	371.5		371.5
122.3	15544	-68.0				240	11	374.0		374.0
121.0	15609	-68.3				255	11	374.5		374.5
104.0	16515	-69.1				334	7	389.6		389.6
100.0	16750	-67.9				355	6	396.3		396.3
95.0	17061	-64.9				6	7	408.0		408.0
87.0	17597	-65.3				24	10	417.6		417.6
82.0	17960	-61.5				37	12	432.5		432.5
70.0	18940	-62.1				70	16	451.2		451.2
58.0	20107	-60.9				70	14	478.8		478.8
50.0	21040	-56.3				70	13	510.4		510.4
40.0	22466	-53.3				81	17	551.5		551.5
30.0	24330	-50.1				95	22	607.5		607.5
20.0	26980	-48.7				80	33	686.3		686.3
10.5	31298	-39.7						858.2		858.2

Station information and sounding indices

Station identifier: DRA
 Station number: 72387
 Observation time: 880719/0000
 Station latitude: 36.61
 Station longitude: -116.01
 Station elevation: 1009.0
 Showalter index: -2.67
 Lifted index: -3.74

LIFT computed using virtual temperature: -4.45
 SWEAT index: 226.60
 K index: 18.70
 Cross totals index: 12.90
 Vertical totals index: 42.90
 Totals totals index: 55.80
 Convective Available Potential Energy: 1180.93
 CAPE using virtual temperature: 1349.78
 Convective Inhibition: -28.30
 CINS using virtual temperature: 0.00
 Equilibrium Level: 212.66
 Equilibrium Level using virtual temperature: 212.66
 Level of Free Convection: 555.31
 LFCT using virtual temperature: 565.23
 Bulk Richardson Number: 90.58
 Bulk Richardson Number using CAPV: 103.53
 Temp [K] of the Lifted Condensation Level: 274.91
 Pres [hPa] of the Lifted Condensation Level: 565.23

Mean mixed layer potential temperature: 323.59

Mean mixed layer mixing ratio: 7.81

1000 hPa to 500 hPa thickness: 5962.00

Precipitable water [mm] for entire sounding: 15.44

72387 DRA Mercury Observations at 12Z 19 Jul 1988

PRES	HGHT	TEMP	DWPT	RELH	MIXR	DRCT	SKNT	THTA	THTE	THTV
hPa	m	C	C	%	g/kg	deg	knot	K	K	K
1000.0	42									
900.0	1009	25.4	-0.6	18	4.09	30	3	307.7	320.7	308.4
881.0	1196	29.2	-0.8	14	4.11	30	9	313.5	326.9	314.3
878.7	1219	29.2	-0.8	14	4.14	30	10	313.8	327.3	314.6
855.0	1460	29.8	-0.2	14	4.43	34	11	316.8	331.4	317.7
850.0	1512	29.4	-0.6	14	4.33	35	11	316.9	331.2	317.8
819.6	1828	26.8	-3.2	14	3.70	60	5	317.5	329.8	318.2
791.3	2133	24.3	-5.7	13	3.18	75	5	318.0	328.7	318.6
764.0	2438	21.8	-8.2	13	2.71	60	8	318.6	327.7	319.1
737.7	2743	19.3	-10.7	12	2.31	50	11	319.0	326.9	319.5
700.0	3198	15.6	-14.4	11	1.80	35	14	319.7	326.0	320.1
662.1	3657	11.6	-18.4	11	1.36	25	13	320.3	325.1	320.6
614.9	4267	6.2	-23.8	10	0.91	340	14	320.9	324.3	321.1
571.1	4876	0.8	-29.2	8	0.60	330	14	321.5	323.7	321.6
565.0	4964	0.0	-30.0	8	0.56	327	14	321.6	323.7	321.7
528.9	5486	-3.9	-33.9	8	0.41	305	16	322.9	324.5	323.0
500.0	5930	-7.3	-37.3	7	0.31	325	18	324.1	325.3	324.1
489.2	6096	-8.4	-38.4	7	0.28	340	17	324.7	325.8	324.8
470.1	6400	-10.5	-40.5	7	0.24	10	19	325.9	326.8	325.9
400.5	7620	-18.8	-48.8	5	0.11	15	14	330.3	330.8	330.3
400.0	7630	-18.9	-48.9	5	0.11	15	14	330.3	330.8	330.4
368.1	8229	-23.7	-53.7	5	0.07	25	12	331.9	332.2	331.9
324.1	9144	-31.0	-61.0	4	0.03	10	18	334.1	334.2	334.1
310.7	9448	-33.5	-63.5	3	0.02	5	18	334.7	334.8	334.7
300.0	9700	-35.5	-65.5	3	0.02	360	17	335.2	335.3	335.2
284.9	10058	-37.9	-67.9	3	0.01	335	14	336.8	336.8	336.8
273.0	10352	-39.9	-69.9	3	0.01	328	17	338.0	338.1	338.0
260.6	10668	-42.2				320	20	339.1		339.1
250.0	10950	-44.3				315	19	340.1		340.1
200.0	12420	-53.3				270	16	348.2		348.2
197.6	12496	-53.7				260	15	348.7		348.7
179.3	13106	-57.2				280	16	352.9		352.9
155.1	14020	-62.3				250	13	359.1		359.1
150.0	14230	-63.5				270	13	360.5		360.5
143.0	14522	-65.7				288	12	361.6		361.6
133.5	14935	-67.0				315	10	366.4		366.4
126.9	15240	-68.0				340	8	370.0		370.0
121.0	15528	-68.9				345	8	373.4		373.4
120.7	15544	-68.8				345	8	373.9		373.9
114.0	15886	-67.3						382.8		382.8

Station information and sounding indices

Station identifier: DRA

Station number: 72387

Observation time: 880719/1200

Station latitude: 36.61

Station longitude: -116.01
 Station elevation: 1009.0
 Showalter index: 3.48
 Lifted index: 5.38
 LIFT computed using virtual temperature: 4.98
 SWEAT index: 40.00
 K index: 6.10
 Cross totals index: 6.70
 Vertical totals index: 36.70
 Totals totals index: 43.40
 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: 266.77
 Pres [hPa] of the Lifted Condensation Level: 568.13
 Mean mixed layer potential temperature: 313.57
 Mean mixed layer mixing ratio: 4.22
 1000 hPa to 500 hPa thickness: 5888.00
 Precipitable water [mm] for entire sounding: 8.76

72387 DRA Mercury Observations at 00Z 20 Jul 1988

PRES	HGHT	TEMP	DWPT	RELH	MIXR	DRCT	SKNT	THTA	THTE	THTV
hPa	m	C	C	%	g/kg	deg	knot	K	K	K
1000.0	34									
899.0	1009	40.0	10.0	17	8.64	45	13	322.8	351.1	324.5
890.0	1100	36.2	6.2	16	6.72	41	13	319.8	341.8	321.1
878.3	1219	35.2	5.2	16	6.36	35	13	320.0	340.8	321.2
850.0	1513	32.8	2.8	15	5.54	30	13	320.5	338.7	321.6
820.0	1828	29.8	-0.2	14	4.62	35	10	320.6	336.0	321.5
791.9	2133	26.9	-3.1	14	3.86	50	7	320.7	333.7	321.5
764.7	2438	24.0	-6.0	13	3.20	40	12	320.8	331.6	321.4
738.5	2743	21.1	-8.9	12	2.65	25	17	320.8	329.9	321.4
700.0	3212	16.6	-13.4	12	1.95	40	11	320.8	327.6	321.2
688.1	3352	15.3	-14.7	11	1.79	40	10	321.0	327.3	321.4
663.0	3657	12.6	-17.4	11	1.48	35	8	321.4	326.6	321.7
615.4	4267	7.1	-22.9	10	0.99	5	11	322.0	325.6	322.2
571.2	4876	1.7	-28.3	9	0.65	30	8	322.5	324.9	322.6
528.0	5520	-4.1	-34.1	8	0.41	18	6	322.9	324.5	323.0
518.0	5671	-3.1	-33.1	8	0.46	15	6	325.9	327.6	326.0
500.0	5950	-5.3	-35.3	7	0.38	10	5	326.5	328.0	326.6
490.8	6096	-6.1	-36.1	7	0.36	20	7	327.2	328.6	327.3
457.0	6653	-9.3	-39.3	7	0.28	34	16	330.0	331.1	330.1
453.9	6705	-9.7	-39.7	7	0.27	35	17	330.1	331.2	330.2
402.6	7620	-17.1	-47.1	5	0.14	25	20	332.1	332.6	332.1
400.0	7670	-17.5	-47.5	5	0.13	25	20	332.2	332.7	332.2
386.3	7924	-19.4	-49.4	5	0.11	20	19	332.9	333.4	333.0
326.6	9144	-28.8	-58.8	4	0.04	30	19	336.4	336.6	336.4
300.3	9753	-33.5	-63.5	3	0.03	50	12	338.0	338.1	338.0
300.0	9760	-33.5	-63.5	3	0.02	50	13	338.0	338.2	338.1
266.0	10591	-39.9	-69.9	3	0.01	96	5	340.5	340.6	340.5
263.0	10668	-40.6				100	4	340.7		340.7
250.0	11010	-43.5				40	2	341.3		341.3
200.0	12480	-52.5				315	7	349.5		349.5

150.0	14300	-62.3	240	4	362.6	362.6
128.6	15240	-66.7	245	8	370.9	370.9
116.0	15865	-69.7	315	8	376.5	376.5
107.0	16349	-69.1	37	14	386.4	386.4
105.1	16459	-67.8	55	15	391.0	391.0
100.0	16760	-64.1	60	16	403.6	403.6
90.4	17373	-66.0	85	17	411.6	411.6
90.0	17402	-66.1	85	17	412.0	412.0
70.0	18940	-62.5	90	17	450.3	450.3
65.0	19399	-62.5	92	17	460.0	460.0
52.0	20801	-56.3	99	18	504.7	504.7
50.1	21031	-57.4	100	18	507.3	507.3
50.0	21050	-57.5	100	18	507.5	507.5
47.8	21336	-57.0	100	17	515.2	515.2
43.5	21945	-56.0	80	17	532.0	532.0
30.0	24320	-51.9	85	25	602.5	602.5
20.0	26980	-47.9	90	27	688.8	688.8
18.7	27432	-47.9	90	28	702.4	702.4
18.5	27494	-47.9			704.3	704.3
11.0	30986	-39.5			847.5	847.5

Station information and sounding indices

Station identifier: DRA
 Station number: 72387
 Observation time: 880720/0000
 Station latitude: 36.61
 Station longitude: -116.01
 Station elevation: 1009.0
 Showalter index: 2.12
 Lifted index: 1.09

LIFT computed using virtual temperature: 0.39
 SWEAT index: 64.58
 K index: 10.90
 Cross totals index: 8.10
 Vertical totals index: 38.10
 Totals totals index: 46.20
 Convective Available Potential Energy: 21.09
 CAPE using virtual temperature: 59.86
 Convective Inhibition: -113.15
 CINS using virtual temperature: -29.00
 Equilibrium Level: 297.56
 Equilibrium Level using virtual temperature: 293.49
 Level of Free Convection: 530.29
 LFCT using virtual temperature: 546.41
 Bulk Richardson Number: 19.69
 Bulk Richardson Number using CAPV: 55.89
 Temp [K] of the Lifted Condensation Level: 272.19
 Pres [hPa] of the Lifted Condensation Level: 565.33
 Mean mixed layer potential temperature: 320.37
 Mean mixed layer mixing ratio: 6.42
 1000 hPa to 500 hPa thickness: 5916.00
 Precipitable water [mm] for entire sounding: 10.95

72387 DRA Mercury Observations at 12Z 20 Jul 1988

PRES	HGHT	TEMP	DWPT	RELH	MIXR	DRCT	SKNT	THTA	THTE	THTV
------	------	------	------	------	------	------	------	------	------	------

hPa	m	C	C	%	g/kg	deg	knot	K	K	K
1000.0	61									
902.0	1009	28.0	9.0	30	8.05	60	10	310.2	335.2	311.7
893.0	1097	29.8	-0.2	14	4.24	45	10	312.9	326.6	313.7
880.8	1219	29.2	1.5	17	4.86	25	10	313.6	329.2	314.5
850.0	1532	27.8	5.8	25	6.85	10	8	315.2	337.1	316.6
821.8	1828	25.9	3.6	24	6.05	30	6	316.3	335.9	317.5
793.7	2133	24.0	1.2	22	5.30	75	4	317.5	334.8	318.5
779.0	2297	23.0	0.0	22	4.94	86	3	318.1	334.2	319.0
766.3	2438	21.7	-0.7	22	4.78	95	3	318.2	333.8	319.1
739.5	2743	18.9	-2.1	24	4.44	80	3	318.4	333.0	319.2
700.0	3214	14.6	-4.4	27	3.96	100	6	318.6	331.8	319.4
663.2	3657	10.7	-8.0	26	3.17	110	10	319.2	329.9	319.8
639.1	3962	8.1	-10.5	26	2.71	105	11	319.6	328.8	320.1
615.8	4267	5.4	-13.0	25	2.30	85	12	319.9	327.9	320.4
593.4	4572	2.8	-15.4	25	1.95	80	12	320.3	327.0	320.6
571.8	4876	0.1	-17.9	24	1.64	80	12	320.6	326.3	320.9
571.0	4887	0.0	-18.0	24	1.63	80	12	320.6	326.3	320.9
516.0	5686	-7.9	-18.9	41	1.67	69	8	320.4	326.3	320.8
512.0	5746	-7.7	-37.7	7	0.29	68	8	321.4	322.5	321.5
500.0	5930	-8.3	-38.3	7	0.28	65	7	322.9	324.0	322.9
489.2	6096	-9.3	-39.3	7	0.26	65	6	323.7	324.7	323.7
416.9	7315	-16.4	-46.5	6	0.14	55	18	329.6	330.2	329.6
400.5	7620	-18.2	-48.2	5	0.12	60	19	331.1	331.6	331.1
400.0	7630	-18.3	-48.3	5	0.12	60	19	331.1	331.6	331.1
324.8	9144	-29.5	-59.5	4	0.04	60	17	336.1	336.2	336.1
300.0	9720	-33.7	-63.7	3	0.02	20	8	337.8	337.9	337.8
268.0	10500	-40.1	-70.1	3	0.01	8	8	339.5	339.6	339.5
261.4	10668	-41.3				5	8	340.1		340.1
250.0	10970	-43.5				25	8	341.3		341.3
200.0	12440	-52.7				245	3	349.1		349.1
150.0	14250	-64.5				280	5	358.8		358.8
138.0	14758	-67.1				346	7	362.9		362.9
127.3	15240	-68.1				50	8	369.4		369.4
109.0	16175	-70.1				80	8	382.5		382.5
103.9	16459	-69.4				55	9	389.0		389.0
100.0	16690	-68.9				55	10	394.4		394.4
89.3	17373	-65.0				75	17	415.0		415.0
88.0	17464	-64.5				74	17	417.8		417.8
77.0	18277	-66.5				64	18	429.9		429.9
73.1	18592	-64.5				60	18	440.6		440.6
70.0	18860	-62.7				65	22	449.9		449.9
63.0	19507	-63.8				80	21	461.2		461.2
60.0	19809	-64.3				79	20	466.6		466.6
51.8	20726	-60.6				75	18	495.4		495.4
50.0	20940	-59.7				80	19	502.4		502.4
47.0	21336	-57.0				95	22	517.9		517.9
46.0	21467	-56.1				96	22	523.1		523.1
40.7	22250	-56.5				105	22	541.0		541.0
40.0	22356	-56.5				104	22	543.5		543.5
30.0	24200	-52.9				85	21	599.8		599.8
28.0	24646	-50.7				83	22	617.9		617.9
22.0	26208	-52.5				77	25	656.6		656.6
20.0	26830	-47.3				80	26	690.6		690.6
20.0	26822	-47.4				75	26	690.2		690.2
18.0	27530	-45.3				80	48	718.0		718.0
17.5	27736	-45.0				80	54	725.2		725.2
10.0	31500	-39.9				90	48	869.5		869.5
8.5	32612	-39.1						913.9		913.9

Station information and sounding indices

Station identifier: DRA
Station number: 72387
Observation time: 880720/1200
Station latitude: 36.61
Station longitude: -116.01
Station elevation: 1009.0
Showalter index: -0.21
Lifted index: 2.58

LIFT computed using virtual temperature: 2.10
SWEAT index: 116.60
K index: 22.90
Cross totals index: 14.10
Vertical totals index: 36.10
Totals totals index: 50.20

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: 270.80

Pres [hPa] of the Lifted Condensation Level: 598.69

Mean mixed layer potential temperature: 313.56

Mean mixed layer mixing ratio: 5.54

1000 hPa to 500 hPa thickness: 5869.00

Precipitable water [mm] for entire sounding: 15.62

72387 DRA Mercury Observations at 00Z 21 Jul 1988

PRES	HGHT	TEMP	DWPT	RELH	MIXR	DRCT	SKNT	THTA	THTE	THTV
hPa	m	C	C	%	g/kg	deg	knot	K	K	K
1000.0	67									
903.0	1009	41.0	14.0	20	11.25	260	10	323.4	360.1	325.6
900.0	1039	38.8	8.8	16	7.95	263	9	321.5	347.4	323.0
882.1	1219	36.8	6.8	16	7.06	280	5	321.2	344.3	322.6
850.0	1552	33.0	3.0	15	5.62	355	3	320.7	339.2	321.8
823.6	1828	30.4	0.4	14	4.82	45	4	320.9	336.9	321.8
795.5	2133	27.6	-2.4	14	4.05	75	7	321.1	334.6	321.9
768.2	2438	24.8	-5.2	13	3.39	65	6	321.2	332.7	321.9
742.0	2743	21.9	-8.1	13	2.82	50	5	321.4	331.0	321.9
700.0	3253	17.2	-12.8	12	2.05	55	5	321.5	328.6	321.9
667.3	3657	13.4	-16.6	11	1.57	65	5	321.6	327.2	322.0
659.0	3763	12.4	-17.6	11	1.46	67	5	321.7	326.9	322.0
619.5	4267	7.4	-15.5	18	1.85	75	4	321.7	328.1	322.0
574.8	4876	1.3	-13.1	33	2.45	55	6	321.5	329.9	322.0
539.0	5400	-3.9	-10.9	58	3.11	29	11	321.2	331.8	321.9
533.2	5486	-4.6	-12.4	54	2.77	25	12	321.4	330.9	322.0
519.0	5698	-6.3	-16.3	45	2.07	35	12	321.9	329.1	322.2
508.0	5866	-6.3	-36.3	7	0.34	44	13	323.8	325.1	323.9
500.0	5990	-6.3	-36.3	7	0.35	50	13	325.3	326.6	325.4
493.2	6096	-6.8	-36.9	7	0.33	60	13	325.9	327.2	326.0
474.2	6400	-8.4	-38.4	7	0.29	85	13	327.6	328.8	327.7
437.0	7031	-11.7	-41.7	6	0.23	90	16	331.2	332.1	331.3
404.2	7620	-16.6	-46.6	6	0.14	95	18	332.3	332.9	332.3

400.0	7700	-17.3	-47.3	5	0.13	95	18	332.4	333.0	332.4
372.4	8229	-22.1	-52.1	5	0.08	90	17	332.9	333.3	333.0
358.0	8522	-24.7	-54.7	4	0.06	95	18	333.2	333.5	333.2
328.3	9144	-29.1	-59.1	4	0.04	105	21	335.5	335.7	335.5
300.0	9790	-33.7	-63.7	3	0.02	110	18	337.8	337.9	337.8
288.7	10058	-34.7	-64.7	3	0.02	115	16	340.0	340.1	340.0
287.0	10100	-34.9	-64.9	3	0.02	118	16	340.4	340.4	340.4
264.4	10668	-39.2	-47.4	42	0.20	165	16	342.1	343.0	342.1
261.0	10757	-39.9	-44.6	61	0.28	166	15	342.4	343.5	342.4
252.9	10972	-41.5				170	13	343.1		343.1
250.0	11050	-42.1				180	11	343.3		343.3
200.0	12520	-52.9				180	5	348.8		348.8
150.4	14325	-62.4				130	11	362.1		362.1
150.0	14340	-62.5				135	12	362.2		362.2
143.0	14630	-63.9				145	12	364.8		364.8
129.3	15240	-66.8				210	4	370.1		370.1
118.0	15792	-69.5				30	4	375.0		375.0
111.1	16154	-69.0				60	11	382.5		382.5
105.5	16459	-68.5				95	18	389.0		389.0
100.0	16780	-68.1				95	18	395.9		395.9
93.0	17217	-68.1				95	17	404.2		404.2
77.0	18367	-63.9				95	15	435.3		435.3
72.0	18777	-65.9				95	14	439.5		439.5
70.0	18950	-63.5				95	14	448.2		448.2
67.2	19202	-62.1				95	14	456.5		456.5
66.0	19312	-61.5				98	14	460.1		460.1
58.0	20116	-60.4				120	15	480.0		480.0
50.1	21031	-59.1				110	11	503.5		503.5
50.0	21040	-59.1				95	11	503.8		503.8
47.7	21336	-58.5				75	12	512.1		512.1
41.4	22250	-56.4				65	23	538.5		538.5
30.0	24300	-51.9				100	22	602.5		602.5
29.6	24384	-51.7				100	22	605.2		605.2
20.0	26950	-46.3				95	30	693.7		693.7
18.6	27432	-45.5				95	28	710.5		710.5
10.0	31630	-38.3						875.4		875.4
9.9	31699	-38.3						877.9		877.9

Station information and sounding indices

```

Station identifier: DRA
  Station number: 72387
    Observation time: 880721/0000
      Station latitude: 36.61
        Station longitude: -116.01
          Station elevation: 1009.0
            Showalter index: 0.92
              Lifted index: -0.99
                LIFT computed using virtual temperature: -1.77
                  SWEAT index: 54.98
                    K index: 12.30
                      Cross totals index: 9.30
                        Vertical totals index: 39.30
                          Totals totals index: 48.60
                            Convective Available Potential Energy: 302.06
                              CAPE using virtual temperature: 445.14
                                Convective Inhibition: -25.91
                                  CINS using virtual temperature: 0.00
                                    Equilibrium Level: 270.33
                                      Equilibrium Level using virtual temperature: 268.74

```

Level of Free Convection: 565.89
LFCT using virtual temperature: 569.32
Bulk Richardson Number: 23.58
Bulk Richardson Number using CAPV: 34.74
Temp [K] of the Lifted Condensation Level: 273.45
Pres [hPa] of the Lifted Condensation Level: 569.32
Mean mixed layer potential temperature: 321.22
Mean mixed layer mixing ratio: 7.01
1000 hPa to 500 hPa thickness: 5923.00
Precipitable water [mm] for entire sounding: 13.76

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)
