

76805 Acapulco, Gro. Observations at 12Z 20 Jan 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	3	23.4	22.7	96	17.50	30	2	295.5	346.0	298.6
1000.0	110	24.4	22.5	89	17.50	15	4	297.6	348.4	300.7
995.0	154	25.0	22.6	87	17.70	5	4	298.6	350.3	301.7
985.0	243	24.4	21.7	85	16.90	345	5	298.8	348.3	301.9
968.0	395	23.2	20.8	86	16.25	310	6	299.1	346.7	302.0
930.0	745	20.4	18.7	90	14.83	285	10	299.6	343.2	302.3
928.0	764	20.2	18.6	91	14.76	287	10	299.7	343.0	302.3
925.0	792	20.2	18.4	89	14.62	290	9	300.0	342.9	302.6
894.0	1086	18.8	16.7	88	13.56	290	8	301.4	341.6	303.9
869.0	1330	17.6	14.5	82	12.09	290	8	302.6	338.7	304.9
850.0	1519	16.4	12.7	79	10.97	290	7	303.3	336.2	305.3
839.0	1630	15.8	12.7	82	11.12	295	6	303.8	337.2	305.8
826.0	1763	15.3	11.9	80	10.68	300	4	304.6	336.8	306.6
805.0	1981	14.4	10.5	77	10.00	219	4	305.9	336.3	307.8
803.0	2002	14.4	10.1	75	9.75	211	4	306.1	335.8	307.9
794.0	2098	14.0	9.7	75	9.62	175	4	306.7	336.0	308.5
755.0	2522	12.2	8.1	76	9.05	333	3	309.2	337.1	310.9
752.0	2556	12.0	7.7	75	8.85	345	3	309.4	336.7	311.0
728.0	2827	10.6	4.6	66	7.36	5	8	310.7	333.7	312.1
717.0	2954	9.6	3.6	66	6.95	0	8	310.9	332.7	312.2
700.0	3153	8.0	2.0	66	6.36	25	7	311.3	331.3	312.5
687.0	3308	7.4	-1.6	53	4.98	90	7	312.3	328.2	313.3
683.0	3356	7.0	-1.4	55	5.07	110	7	312.4	328.6	313.4
673.0	3477	6.0	-1.0	61	5.31	79	8	312.6	329.6	313.6
662.0	3612	5.2	-1.3	62	5.27	45	9	313.2	330.1	314.2
648.0	3787	4.3	-1.8	65	5.21	55	11	314.0	330.8	315.0
647.0	3799	4.2	-1.8	65	5.21	54	11	314.1	330.8	315.1
640.0	3888	4.2	-3.8	56	4.54	47	10	315.1	329.8	315.9
623.0	4107	4.4	-14.6	24	1.99	31	9	317.7	324.6	318.1
617.0	4186	4.8	-19.2	16	1.36	25	8	319.1	323.9	319.3
607.0	4319	4.2	-23.8	11	0.93	15	7	319.9	323.2	320.1
595.0	4481	2.8	-18.2	20	1.54	3	6	320.1	325.5	320.4
592.0	4522	2.4	-17.9	21	1.59	0	6	320.0	325.6	320.3
591.0	4535	2.2	-17.8	21	1.61	1	6	320.0	325.6	320.3
574.0	4770	0.0	-17.0	27	1.77	24	4	320.1	326.3	320.4
562.0	4939	-1.3	-16.9	29	1.82	40	2	320.5	326.8	320.8
557.0	5010	-1.9	-16.9	31	1.84	73	2	320.6	327.0	321.0
535.0	5328	-3.9	-19.4	29	1.55	220	3	321.9	327.4	322.2

516.0	5614	-5.7	-21.7	27	1.32	260	5	323.1	327.8	323.4
514.0	5644	-5.9	-21.9	27	1.30	255	5	323.2	327.9	323.5
500.0	5860	-7.5	-23.5	27	1.16	220	8	323.8	328.0	324.1
490.0	6016	-8.7	-22.9	31	1.24	205	11	324.3	328.8	324.5
466.0	6403	-11.5	-21.5	43	1.48	218	15	325.4	330.8	325.7
461.0	6486	-11.9	-20.9	47	1.58	221	15	325.9	331.6	326.3
445.0	6754	-13.0	-23.9	40	1.25	230	18	327.8	332.4	328.1
428.0	7051	-14.3	-27.3	32	0.96	230	16	329.9	333.4	330.1
400.0	7560	-17.3	-31.3	29	0.70	230	13	332.4	335.1	332.6
399.0	7579	-17.7	-31.7	28	0.68	230	13	332.1	334.7	332.3
343.0	8688	-26.7	-34.7	47	0.59	257	12	334.6	336.9	334.7
336.0	8836	-27.3	-35.3	47	0.57	260	11	335.7	338.0	335.9
318.0	9229	-30.4	-40.0	38	0.37	270	11	336.8	338.3	336.9
314.0	9319	-31.1	-41.1	37	0.34	267	11	337.0	338.4	337.1
309.0	9433	-32.3	-42.3	36	0.30	263	10	336.9	338.1	336.9
300.0	9640	-33.7	-42.7	40	0.30	255	9	337.8	339.0	337.8
254.0	10792	-42.3	-52.3	33	0.12	269	21	341.5	342.0	341.5
251.0	10873	-43.0	-53.0	32	0.11	270	22	341.5	342.0	341.6
250.0	10900	-43.3	-53.3	32	0.11	270	21	341.6	342.0	341.6
246.0	11008	-44.1	-54.1	32	0.10	270	21	341.9	342.4	342.0
211.0	12017	-52.3	-61.3	33	0.05	274	21	344.5	344.7	344.5
200.0	12360	-55.3	-64.3	32	0.03	275	21	345.0	345.2	345.0
190.0	12686	-58.3	-67.3	31	0.02	271	19	345.3	345.4	345.3
168.0	13449	-65.1	-74.1	28	0.01	260	15	346.3	346.4	346.4
157.0	13858	-69.1	-77.1	31	0.01	254	13	346.3	346.4	346.3
150.0	14130	-71.3	-79.3	30	0.00	250	11	347.1	347.1	347.1
147.0	14249	-72.3	-80.3	29	0.00	230	13	347.4	347.4	347.4
141.0	14496	-70.8	-78.8	30	0.01	210	18	354.1	354.2	354.1
134.0	14797	-69.0	-77.0	31	0.01	185	7	362.6	362.6	362.6
133.0	14842	-68.7	-76.7	31	0.01	190	7	363.8	363.9	363.9
128.0	15070	-70.7	-78.7	30	0.01	214	8	364.2	364.3	364.2
120.0	15449	-72.6	-80.6	29	0.01	255	10	367.6	367.6	367.6
117.0	15598	-73.3	-81.3	29	0.00	267	12	368.9	368.9	368.9
110.0	15957	-74.2	-82.2	28	0.00	295	16	373.8	373.8	373.8
106.0	16172	-74.8	-82.8	28	0.00	255	11	376.7	376.7	376.7
103.0	16339	-75.2	-83.2	28	0.00	285	10	378.9	379.0	379.0
101.0	16452	-75.5	-83.5	28	0.00	268	9	380.5	380.5	380.5
100.0	16510	-75.1	-83.1	28	0.00	260	8	382.4	382.4	382.4
96.0	16747	-74.4	-82.4	28	0.00	265	13	388.3	388.3	388.3
94.5	16839	-74.1	-82.1	28	0.01	250	14	390.6	390.6	390.6
93.0	16932	-74.5	-82.5	28	0.00	235	16	391.6	391.7	391.6
87.3	17299	-75.9	-83.9	28	0.00	230	20	395.9	395.9	395.9
81.0	17728	-77.7	-85.7	27	0.00	225	25	400.8	400.8	400.8
78.4	17916	-78.5	-86.5	26	0.00	233	25	402.9	402.9	402.9
76.2	18077	-79.5	-87.5	26	0.00	240	24	404.1	404.1	404.1
70.0	18560	-78.3	-86.3	27	0.00	260	23	416.6	416.6	416.6

69.4	18609	-78.3	-86.3	27	0.00	266	23	417.6	417.6	417.6
69.0	18642	-78.2	-86.2	27	0.00	270	23	418.6	418.6	418.6
68.0	18725	-77.8	-85.8	27	0.00	270	14	421.1	421.1	421.1
64.6	19018	-76.5	-84.5	27	0.00	243	13	430.2	430.2	430.2
63.0	19163	-75.5	-83.5	28	0.01	230	13	435.3	435.4	435.3
61.0	19350	-74.3	-82.3	28	0.01	240	8	442.1	442.1	442.1
58.0	19643	-72.4	-80.4	29	0.01	335	16	452.8	452.9	452.8
57.5	19693	-72.1	-80.1	29	0.01	345	13	454.7	454.7	454.7
57.0	19744	-71.9	-79.9	29	0.01	355	10	456.3	456.4	456.3
56.0	19848	-71.5	-79.5	30	0.01	5	6	459.6	459.6	459.6
55.0	19954	-71.0	-79.0	30	0.01	315	1	462.9	463.0	462.9
54.7	19986	-70.9	-78.9	30	0.01	294	1	463.9	464.0	463.9
53.0	20173	-69.8	-78.4	28	0.02	170	3	470.6	470.8	470.7
52.0	20286	-69.2	-78.0	27	0.02	125	4	474.7	474.9	474.7
51.6	20332	-68.9	-77.9	26	0.02	133	3	476.4	476.5	476.4
51.0	20402	-68.5	-77.2	28	0.02	145	2	478.9	479.0	478.9
50.0	20520	-67.9	-75.9	31	0.03	45	4	483.1	483.2	483.1
49.5	20580	-67.7	-75.7	31	0.03	47	7	484.9	485.1	484.9
49.0	20642	-67.5	-75.5	31	0.03	50	10	486.9	487.1	486.9
45.0	21158	-65.4	-74.0	29	0.04	100	11	504.0	504.3	504.0
43.1	21420	-64.3	-73.3	28	0.04	91	6	512.8	513.2	512.9
43.0	21434	-64.2	-73.2	28	0.04	90	6	513.3	513.6	513.3
42.0	21579	-63.7	-72.7	28	0.05	140	5	518.0	518.4	518.1
41.0	21727	-63.2	-72.2	29	0.05	70	9	523.0	523.4	523.0
40.0	21879	-62.7	-71.7	29	0.06	100	8	528.0	528.5	528.0
39.0	22035	-62.1	-71.1	29	0.07	60	12	533.2	533.8	533.3
37.6	22260	-61.3	-70.3	29	0.08	53	15	540.9	541.5	540.9
37.0	22360	-61.0	-70.0	29	0.08	50	16	544.2	544.9	544.3
35.8	22565	-60.3	-69.3	30	0.09	65	17	551.1	551.8	551.2
35.0	22705	-60.7	-69.7	30	0.09	75	17	553.6	554.3	553.6
33.0	23070	-61.8	-70.8	29	0.08	100	16	560.0	560.6	560.0
32.9	23089	-61.9	-70.9	29	0.08	99	16	560.3	561.0	560.4
30.0	23660	-61.7	-70.7	29	0.09	65	16	575.9	576.6	575.9
29.2	23828	-60.3	-69.3	30	0.12	69	22	584.2	585.1	584.2
29.0	23871	-60.1	-69.2	30	0.12	70	23	585.8	586.7	585.8
27.0	24319	-58.5	-68.1	28	0.15	60	30	602.5	603.8	602.6
26.0	24556	-57.6	-67.5	27	0.17	65	34	611.6	613.0	611.7
25.7	24629	-57.3	-67.3	27	0.17			614.4	615.9	614.5

Station information and sounding indices

Station number: 76805
 Observation time: 150120/1200
 Station latitude: 16.75
 Station longitude: -99.75

Station elevation: 3.0
Showalter index: 1.02
Lifted index: -3.56
LIFT computed using virtual temperature: -4.30
SWEAT index: 174.39
K index: 30.60
Cross totals index: 20.20
Vertical totals index: 23.90
Totals totals index: 44.10
Convective Available Potential Energy: 1164.04
CAPE using virtual temperature: 1357.37
Convective Inhibition: -5.22
CINS using virtual temperature: -2.67
Equilibrium Level: 146.90
Equilibrium Level using virtual temperature: 146.89
Level of Free Convection: 902.13
LFCT using virtual temperature: 934.39
Bulk Richardson Number: 4488.17
Bulk Richardson Number using CAPV: 5233.60
Temp [K] of the Lifted Condensation Level: 294.28
Pres [hPa] of the Lifted Condensation Level: 953.04
Mean mixed layer potential temperature: 298.36
Mean mixed layer mixing ratio: 16.88
1000 hPa to 500 hPa thickness: 5750.00
Precipitable water [mm] for entire sounding: 45.93

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

[Close this window](#)

[Select another map](#)

Interested in graduate studies in atmospheric science? Check out our program at the [University of Wyoming](#)

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