

72202 MFL Miami 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
1017.0	5	30.2	24.2	70	19.12	255	7	301.9	358.6	305.3
1000.0	154	29.0	24.0	74	19.21	275	10	302.1	359.2	305.6
983.1	305	27.6	23.4	78	18.81	275	10	302.2	358.1	305.6
949.9	610	24.8	22.1	85	18.00	265	11	302.4	355.9	305.7
947.0	637	24.6	22.0	85	17.93	264	11	302.4	355.7	305.7
940.0	702	24.2	21.6	85	17.62	263	11	302.6	355.1	305.8
932.0	777	24.0	19.0	74	15.07	261	12	303.2	348.1	305.9
925.0	843	23.4	20.2	82	16.40	260	12	303.2	352.1	306.2
922.0	871	23.0	20.5	86	16.77	260	12	303.1	353.0	306.1
917.5	914	22.6	20.1	85	16.38	260	12	303.2	352.0	306.1
904.0	1044	21.6	18.7	84	15.25	256	11	303.4	348.9	306.1
885.9	1219	20.3	18.5	89	15.37	250	10	303.8	349.7	306.6
868.0	1396	19.0	18.3	96	15.50	243	9	304.2	350.6	307.0
850.0	1577	18.2	17.1	93	14.65	235	7	305.2	349.2	307.9
848.0	1597	18.2	17.1	93	14.69	236	7	305.4	349.6	308.1
831.0	1771	17.6	14.0	79	12.24	247	5	306.5	343.6	308.8
825.4	1829	17.2	14.1	82	12.37	250	4	306.7	344.2	309.0
811.0	1980	16.2	14.2	88	12.71	238	4	307.2	345.8	309.5
796.4	2134	15.2	12.8	85	11.76	225	3	307.8	343.6	309.9
790.0	2203	14.8	12.1	84	11.35	240	4	308.0	342.6	310.1
769.0	2431	14.4	9.5	72	9.78	289	6	310.0	340.2	311.8
768.4	2438	14.3	9.5	72	9.77	290	6	310.0	340.1	311.8
741.0	2743	12.1	8.0	76	9.19	285	9	310.8	339.3	312.5
716.0	3031	10.0	6.7	80	8.67	267	7	311.5	338.5	313.1
703.0	3184	9.2	4.5	72	7.57	257	6	312.3	336.0	313.7
700.0	3219	9.0	4.0	71	7.33	255	6	312.4	335.5	313.8
687.0	3374	8.4	3.6	72	7.27	264	7	313.4	336.4	314.8
681.0	3447	8.0	2.0	66	6.54	268	7	313.8	334.5	315.0
675.0	3520	7.4	2.4	71	6.79	272	7	313.9	335.4	315.2
663.7	3658	7.1	0.1	61	5.83	280	8	315.1	333.8	316.2
653.0	3792	6.8	-2.2	53	5.01	284	10	316.2	332.5	317.2
616.1	4267	4.3	-3.9	55	4.67	300	17	318.6	334.0	319.5
606.0	4402	3.6	-4.4	56	4.58	291	18	319.3	334.4	320.2
593.3	4572	2.3	-5.7	56	4.25	280	19	319.8	333.9	320.6
571.2	4877	0.1	-7.9	55	3.70	275	18	320.6	333.0	321.3
564.0	4980	-0.7	-8.7	55	3.53	271	17	320.9	332.8	321.6
553.0	5137	-1.5	-12.5	43	2.66	264	15	321.8	330.9	322.3
545.0	5252	-2.5	-10.5	54	3.17	259	14	321.9	332.7	322.5
542.0	5296	-3.1	-7.0	74	4.20	257	14	321.7	335.7	322.5
539.0	5340	-3.5	-6.6	79	4.35	255	13	321.7	336.2	322.6
536.0	5384	-3.7	-7.4	75	4.11	253	13	322.0	335.8	322.8
533.0	5428	-3.7	-10.7	58	3.19	252	12	322.5	333.4	323.1
530.0	5473	-3.9	-8.9	68	3.70	250	12	322.8	335.3	323.5
527.0	5518	-4.1	-10.1	63	3.38	248	11	323.1	334.6	323.8
522.0	5593	-4.5	-9.1	70	3.70	245	11	323.5	336.0	324.2
500.0	5930	-6.9	-11.9	68	3.09	230	7	324.6	335.2	325.2
496.0	5993	-7.3	-12.3	67	3.02	222	7	324.8	335.2	325.4
489.5	6096	-8.1	-11.8	74	3.17	210	6	325.1	336.0	325.7
486.0	6152	-8.5	-11.6	78	3.26	202	5	325.2	336.4	325.9
481.0	6233	-8.7	-13.1	70	2.91	190	4	326.0	336.0	326.5
478.0	6281	-8.7	-17.7	48	2.00	183	3	326.5	333.6	326.9
474.0	6347	-9.1	-24.1	29	1.16	173	2	326.8	331.1	327.1
470.7	6401	-9.1	-24.1	29	1.16	165	1	327.5	331.8	327.7

470.0	6412	-9.1	-24.1	29	1.17	164	1	327.6	331.9	327.9
468.0	6446	-9.1	-29.1	18	0.74	161	1	328.0	330.8	328.2
464.0	6512	-9.5	-30.5	16	0.65	155	2	328.3	330.8	328.5
457.0	6630	-10.5	-22.5	37	1.38	145	3	328.5	333.5	328.8
450.0	6749	-11.1	-26.1	28	1.02	134	4	329.2	333.0	329.4
442.0	6887	-12.1	-25.1	33	1.13	121	5	329.6	333.8	329.9
439.0	6939	-11.9	-17.9	61	2.14	117	5	330.5	338.2	331.0
433.0	7045	-11.9	-16.9	66	2.36	107	6	331.8	340.3	332.3
424.0	7206	-13.3	-16.1	79	2.58	93	8	332.0	341.2	332.6
420.0	7279	-13.5	-22.5	47	1.50	86	8	332.7	338.2	333.0
416.0	7352	-13.9	-18.9	66	2.08	79	9	333.1	340.6	333.5
412.0	7425	-14.5	-19.3	67	2.03	73	9	333.2	340.6	333.6
401.6	7620	-15.1	-24.8	43	1.28	55	11	334.9	339.7	335.2
401.0	7631	-15.1	-25.1	42	1.25	55	12	335.0	339.7	335.3
400.0	7650	-15.3	-25.3	42	1.23	55	13	335.0	339.6	335.3
398.0	7688	-15.7	-25.7	42	1.19	53	13	335.0	339.4	335.2
393.0	7783	-16.3	-25.3	46	1.25	48	14	335.4	340.1	335.7
387.0	7899	-17.3	-22.1	66	1.69	41	16	335.6	341.8	335.9
385.6	7925	-17.5	-22.8	63	1.59	40	16	335.7	341.6	336.0
384.0	7957	-17.7	-23.7	59	1.48	41	16	335.8	341.3	336.1
381.0	8016	-17.9	-28.9	38	0.93	43	17	336.3	339.8	336.5
375.0	8134	-18.9	-28.9	41	0.94	47	17	336.5	340.1	336.7
370.2	8230	-19.3	-33.4	28	0.62	50	18	337.2	339.6	337.3
368.0	8275	-19.5	-35.5	23	0.51	50	18	337.5	339.5	337.6
326.8	9144	-26.2	-40.3	25	0.35	40	25	339.9	341.3	340.0
324.0	9208	-26.7	-40.7	25	0.34	39	26	340.1	341.5	340.1
309.0	9549	-28.5	-48.5	13	0.15	37	30	342.2	342.9	342.2
300.2	9754	-30.4	-48.5	15	0.16	35	33	342.3	342.9	342.3
300.0	9760	-30.5	-48.5	16	0.16	35	33	342.3	342.9	342.3
286.0	10096	-33.5	-49.5	18	0.15	40	30	342.7	343.3	342.7
281.0	10219	-34.7	-48.7	23	0.16	43	29	342.7	343.4	342.7
278.0	10293	-35.3	-44.3	39	0.27	44	28	342.9	344.0	342.9
271.0	10469	-37.1	-44.1	48	0.28	47	27	342.8	344.0	342.8
266.0	10597	-37.7	-40.8	73	0.41	49	26	343.7	345.4	343.8
263.3	10668	-38.1	-40.4	79	0.43	50	25	344.1	345.9	344.2
261.0	10727	-38.5	-40.1	85	0.45	49	25	344.4	346.3	344.5
250.0	11020	-40.7	-42.0	87	0.38	45	22	345.4	347.0	345.5
240.7	11278	-42.6	-44.3	83	0.31	45	21	346.4	347.7	346.5
240.0	11297	-42.7	-44.5	82	0.31	45	21	346.5	347.8	346.5
237.0	11381	-43.1	-46.2	71	0.26	46	22	347.1	348.2	347.2
231.0	11553	-44.7	-46.6	81	0.25	47	23	347.2	348.3	347.3
220.0	11878	-47.5	-49.5	80	0.19	50	26	347.8	348.6	347.8
217.0	11968	-48.1	-51.5	68	0.15	51	27	348.2	348.9	348.3
209.0	12214	-50.5	-54.5	62	0.11	53	29	348.2	348.7	348.2
201.0	12468	-51.7	-59.7	38	0.06	55	31	350.2	350.5	350.2
200.1	12497	-52.1	-60.1	38	0.06	55	31	350.1	350.4	350.1
200.0	12500	-52.1	-60.1	38	0.06	55	31	350.1	350.4	350.1
195.0	12664	-53.5	-60.5	42	0.06	60	31	350.4	350.7	350.4
193.0	12730	-53.9	-61.9	37	0.05	62	31	350.8	351.0	350.8
186.0	12966	-55.9	-66.9	24	0.03	70	30	351.3	351.4	351.3
173.3	13411	-60.0	-68.6	31	0.02	85	30	351.7	351.8	351.7
170.0	13532	-61.1	-69.1	34	0.02	83	30	351.8	351.9	351.8
165.0	13717	-62.1	-72.1	25	0.01	80	30	353.1	353.2	353.1
157.0	14021	-64.7	-74.7	24	0.01	75	30	353.8	353.8	353.8
150.0	14300	-67.1	-77.1	23	0.01	75	33	354.3	354.3	354.3
142.0	14628	-70.3	-78.3	30	0.01	75	35	354.3	354.3	354.3
128.0	15240	-73.8	-81.1	32	0.00	75	38	358.6	358.7	358.6
124.0	15425	-74.9	-81.9	33	0.00	75	37	359.9	360.0	359.9
122.0	15520	-73.5	-80.5	34	0.01	79	39	364.2	364.2	364.2
121.5	15545	-73.6	-80.6	34	0.00	80	39	364.4	364.5	364.4
118.0	15715	-74.3	-81.3	33	0.00	79	34	366.2	366.2	366.2

115.0	15866	-72.5	-80.5	29	0.01	79	30	372.2	372.3	372.2
108.0	16235	-72.7	-81.7	25	0.00	77	20	378.6	378.6	378.6
107.0	16290	-70.3	-80.3	22	0.01	77	18	384.1	384.2	384.1
100.0	16690	-72.5	-85.5	13	0.00	75	7	387.4	387.4	387.4
96.6	16893	-73.9	-86.9	12	0.00	76	11	388.5	388.5	388.5
91.1	17236	-72.9	-86.9	10	0.00	78	17	397.1	397.1	397.1
89.1	17367	-69.7	-84.7	10	0.00	78	19	406.0	406.0	406.0
84.6	17678	-67.0	-86.2	5	0.00	80	25	417.6	417.6	417.6
80.8	17957	-64.5	-87.5	3	0.00	107	23	428.1	428.2	428.1
80.5	17983	-64.6	-87.8	3	0.00	110	23	428.5	428.5	428.5
76.5	18288	-65.7	-90.8	2	0.00	105	16	432.5	432.5	432.5
74.9	18418	-66.1	-92.1	2	0.00	90	17	434.2	434.2	434.2
72.8	18593	-65.5	-92.3	1	0.00	70	18	439.0	439.0	439.0
70.0	18830	-64.7	-92.7	1	0.00	85	26	445.6	445.6	445.6
69.2	18898	-64.6	-92.7	1	0.00	95	27	447.2	447.2	447.2
59.6	19812	-63.4	-92.6	1	0.00	110	15	469.5	469.5	469.5
53.8	20446	-62.5	-92.5	1	0.00	84	22	485.5	485.5	485.5
52.1	20644	-61.1	-92.1	1	0.00	75	24	493.2	493.2	493.2
50.0	20900	-61.1	-92.1	1	0.00	65	27	499.1	499.1	499.1
49.0	21031	-62.3	-92.3	1	0.00	65	27	499.3	499.3	499.3
49.0	21025	-62.3	-92.3	1	0.00	65	27	499.1	499.1	499.1
46.6	21336	-61.5	-92.0	1	0.00	70	28	508.2	508.2	508.2
43.6	21748	-60.5	-91.5	1	0.00	63	31	520.5	520.5	520.5
42.2	21946	-58.9	-90.5	1	0.00	60	33	529.1	529.1	529.1
41.4	22072	-57.9	-89.9	1	0.00	68	31	534.7	534.7	534.7
40.2	22250	-57.7	-89.7	1	0.00	80	29	539.4	539.4	539.4
35.8	22989	-57.1	-89.1	1	0.00	80	44	559.4	559.5	559.4
34.8	23165	-56.2	-88.4	1	0.00	80	48	566.2	566.3	566.2
30.8	23950	-52.1	-85.1	1	0.01	72	44	597.5	597.6	597.5
30.0	24120	-52.5	-85.5	1	0.01	70	43	600.9	601.0	600.9
28.8	24384	-53.0	-86.0	1	0.01	65	42	606.6	606.7	606.6
27.5	24689	-53.6	-86.6	1	0.01	65	44	613.3	613.4	613.3
26.7	24870	-53.9	-86.9	1	0.01	69	43	617.3	617.4	617.3
22.8	25898	-47.7	-82.7	1	0.02	94	39	664.1	664.3	664.1
20.0	26760	-49.3	-83.3	1	0.02	115	35	684.5	684.7	684.5
19.8	26822	-49.4	-83.4	1	0.02	110	35	686.2	686.4	686.2
19.4	26960	-49.5	-83.5	1	0.02	108	38	689.9	690.1	689.9
18.1	27432	-48.3	-82.7	1	0.02	100	48	708.0	708.3	708.0
17.2	27737	-47.5	-82.1	1	0.03	110	53	719.9	720.2	720.0
16.1	28190	-46.3	-81.3	1	0.03	103	48	738.0	738.4	738.0
15.3	28530	-44.1	-80.1	1	0.04	97	44	756.1	756.6	756.1
13.7	29261	-45.6	-80.8	1	0.04	85	36	775.1	775.6	775.1
13.2	29516	-46.1	-81.1	1	0.04	86	39	781.8	782.3	781.8
12.0	30152	-45.1	-80.1	1	0.05	89	47	806.9	807.6	807.0
11.4	30480	-43.0	-78.7	1	0.07	90	51	825.7	826.6	825.8
10.9	30785	-41.0	-77.3	1	0.09	105	44	843.5	844.7	843.6
10.4	31121	-38.9	-75.9	1	0.12	97	42	863.5	865.0	863.5
10.0	31394	-38.5	-75.5	1	0.14	95	39	874.8	876.6	874.9
10.0	31390	-38.5	-75.5	1	0.14	90	41	874.7	876.4	874.8
8.6	32430	-38.1	-76.1	1	0.14	92	56	914.8	916.7	914.8
8.1	32847	-34.3	-73.3	1	0.23	91	62	945.6	948.8	945.7
7.7	33223	-34.5	-73.5	1	0.24	90	68	959.3	962.5	959.4
7.6	33293	-34.6	-73.6	1	0.24	90	68	961.8	965.1	962.0
7.4	33480	-34.7	-73.7	1	0.24	90	66	968.7	972.0	968.8
7.3	33528	-34.5	-73.5	1	0.25	90	66	971.3	974.8	971.5
7.0	33870	-33.3	-72.3	1	0.31	85	60	990.0	994.4	990.2
6.7	34178	-32.5	-71.5	1	0.37			1005.8	1011.0	1006.0
6.7	34138	-32.6	-71.6	1	0.36	90	60	1003.7	1008.9	1003.9

Station information and sounding indices

Station identifier: MFL
Station number: 72202
Observation time: 150724/0000
Station latitude: 25.75
Station longitude: -80.38
Station elevation: 5.0
Showalter index: -3.55
Lifted index: -6.59
LIFT computed using virtual temperature: -7.33
SWEAT index: 228.18
K index: 37.20
Cross totals index: 24.00
Vertical totals index: 25.10
Totals totals index: 49.10
Convective Available Potential Energy: 2500.35
CAPE using virtual temperature: 2732.14
Convective Inhibition: -8.25
CINS using virtual temperature: -3.17
Equilibrium Level: 129.75
Equilibrium Level using virtual temperature: 129.69
Level of Free Convection: 904.37
LFCT using virtual temperature: 914.99
Bulk Richardson Number: 61067.00
Bulk Richardson Number using CAPV: 66728.17
Temp [K] of the Lifted Condensation Level: 295.58
Pres [hPa] of the Lifted Condensation Level: 925.72
Mean mixed layer potential temperature: 302.18
Mean mixed layer mixing ratio: 18.87
1000 hPa to 500 hPa thickness: 5776.00
Precipitable water [mm] for entire sounding: 57.44

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

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