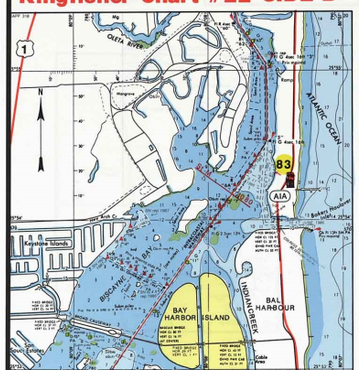
Miami Harbor Entrance, Florida 1998 Times & Heights of High & Low Tides

Kingfisher Chart #22 SIDE B



INSET 2

SCALE 1:19,200

NAUTICAL MILES

YARDS

January																							
Time	Height																						
h m	ft. cm.																						
0327	-0.2 -6																						
0907	2.6 79																						
1509	-0.1 -3																						
2127	2.4 73																						
0421	-0.3 -9																						
1021	2.7 82																						
1633	-0.1 -3																						
2234	2.4 73																						
0506	2.6 79																						
1133	0.1 3																						
1739	2.4 73																						
2346	0.2 6																						
0113	2.6 79																						
0733	0.3 9																						
1343	2.5 76																						
1952	0.4 12																						
0203	2.6 79																						
0827	0.5 15																						
1437	2.5 76																						
2047	0.5 15																						
0301	2.6 79																						
0921	0.5 15																						
1531	2.6 79																						
2141	0.4 12																						
0351	2.7 82																						
1011	0.3 9																						
1621	2.8 85																						
2231	0.2 6																						
0441	2.9 88																						
1101	0.1 3																						
1711	3.0 91																						
2321	0.0 0																						
0531	3.1 94																						
1151	0.0 0																						
1801	3.2 98																						
0621	3.3 101																						
1241	-0.1 -3																						
1851	3.3 101																						
0711	3.4 104																						
1331	-0.2 -6																						
1941	3.4 104																						
0801	3.4 104																						
1421	-0.3 -9																						
2031	3.4 104																						
0851	3.3 101																						
1501	-0.3 -9																						
2121	3.3 101																						
0941	3.2 98																						
1541	-0.2 -6																						
2211	3.2 98																						
1031	3.0 91																						
1601	-0.1 -3																						
2301	3.0 91																						
1121	2.8 85																						
1651	0.1 3																						
2351	2.8 85																						
1211	2.6 79																						
1741	0.3 9																						
2401	2.6 79																						
1301	2.5 76																						
1831	0.5 15																						
1351	2.4 73																						
1921	0.7 21																						
1441	2.3 70																						
2011	0.9 27																						
1531	2.2 67																						
2101	1.1 34																						
1621	2.1 64																						
2151	1.3 40																						
1711	2.0 61																						
2241	1.5 46																						
1801	1.9 58																						
2331	1.7 52																						
1851	1.8 55																						
2421	1.9 58																						
1941	1.7 52																						
2511	2.0 61																						
2031	1.6 49																						
2601	2.1 64																						
2121	1.5 46																						
2701	2.2 67																						
2211	1.4 43																						
2801	2.3 70																						
2301	1.3 40																						
2901	2.4 73																						
2351	1.2 37																						
3001	2.5 76																						
2441	1.1 34																						
3101	2.6 79																						
2531	1.0 31																						
3201	2.7 82																						
2621	0.9 27																						
3301	2.8 85																						
2711	0.8 24																						
3401	2.9 88																						
2801	0.7 21																						
3501	3.0 91																						
2851	0.6 18																						
3601	3.1 94																						
2941	0.5 15																						
3701	3.2 98																						
3031	0.4 12																						
3801	3.3 101																						
3121	0.3 9																						
3901	3.4 104																						
3211	0.2 6																						
4001	3.4 104																						
3301	0.1 3																						
4101	3.4 104																						
3351	0.0 0																						
4201	3.3 101																						
3441	-0.1 -3																						
4301	3.2 98																						
3531	-0.2 -6																						
4401	3.1 94																						
3621	-0.3 -9																						
4501	3.0 91																						
3711	-0.3 -9																						
4601	2.9 88																						
3801	-0.3 -9																						
4701	2.8 85																						
3851	-0.2 -6																						
4801	2.7 82																						
3941	-0.1 -3																						
4901	2.6 79																						
4031	0.1 3																						
5001	2.5 76																						
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5101	2.4 73																						
4211	0.5 15																						
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4501	1.1 34																						
5501	2.0 61																						
4601	1.3 40																						
5601	1.9 58																						
4701	1.5 46																						
5701	1.8 55																						
4801	1.7 52																						
5801	1.9 58																						
4901	1.9 58																						
5901	1.7 52																						
5001	2.0 61																						
6001	1.5 46																						
5101	2.1 64																						
6101	1.3 40																						
5201	2.2 67																						
6201	1.1 34																						
5301	2.3 70																						
6301	0.9 27																						
5401	2.4 73																						
6401	0.7 21																						
5501	2.5 76																						
6501	0.5 15																						
5601	2.6 79																						
6601	0.3 9																						
5701	2.7 82																						
6701	0.1 3																						
5801	2.8 85																						
6801	-0.1 -3																						
5901	2.9 88																						
6901	-0.2 -6																						
6001	3.0 91																						
7001	-0.3 -9																						
6101	3.1 94																						
7101	-0.3 -9																						
6201	3.2 98																						
7201	-0.3 -9																						
6301	3.3 101																						
7301	-0.2 -6																						
6401	3.3 101																						
7401	-0.1 -3																						
6501	3.4 104																						
7501	0.0 0																						
6601	3.4 104																						
7601	0.1 3																						
6701	3.4 104																						
7701	0.2 6																						
6801	3.3 101																						
7801	0.3 9																						
6901	3.2 98																						
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7001	3.1 94																						
8001	0.5 15																						
7101	3.0 91																						
8101	0.7 21																						
7201	2.9 88																						
8201	0.9 27																						
7301	2.8 85																						
8301	1.1 34																						
7401	2.7 82																						
8401	1.3 40																						
7501	2.6 79																						
8501	1.5 46																						
7601	2.5 76																						
8601	1.7 52																						
7701	2.4 73																						
8701	1.9 58																						
7801	2.3 70																						
8801	2.0 61																						
7901	2.2 67																						
8901	2.1 64																						
8001	2.1 64																						
9001	2.2 67																						
8101	2.0 61																						
9101	2.3 70																						
8201	1.9 58																						
9201	2.4 73																						
8301	1.8 55																						
9301	2.5 76																						
8401	1.7 52																						
9401	2.6 79																						
8501	1.6 49																						
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8601	1.5 46																						
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9701	2.9 88																						
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10001	3.2 98																						
9101	1.0 31																						
10101	3.3 101																						
9201	0.9 27																						
10201	3.4 104																						
9301	0.8 24																						
10301	3.4 104																						
9401	0.7 21																						
10401	3.4 104																						
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10501	3.3 101																						
9601	0.5 15																						
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10701	3.1 94																						
9801	0.3 9																						
10801	3.0 91																						
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10901	2.9 88																						
10001	0.1 3																						
11001	2.8 85																						
10101	0.0 0																						
11101	2.7 82																						
10201	-0.1 -3																						
11201	2.6 79																						
10301	-0.2 -6																						
11301	2.5 76																						
10401	-0.3 -9																						
11401	2.4 73																						
10501	-0.3 -9																						
11501	2.3 70																						
10601	-0.3 -9																						
11601	2.2 67																						
10701	-0.2 -6																						
11701	2.1 64																						
10801	-0.1 -3																						
11801	2.0 61																						
10901	0.0 0																						
11901	1.9 58																						
11001	0.1 3																						
12001	1.8 55																						
11101	0.2 6																						
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11201	0.3 9																						
12201	1.6 49																						
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11501	0.6 18																						
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13101	0.7 21																						
12201	1.3 40																						
13201	0.6 18																						
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13301	0.5 15																						
12401	1.5 46																						
13401	0.4 12																						
12501	1.6 49																						
13501	0.3 9																						
12601	1.7 52																						
13601	0.2 6																						
12701	1.8 55																						
13701	0.1 3																						
12801	1.9 58																						
13801	0.0 0																						
12901	2.0 61																						
13901	-0.1 -3																						
13001	2.1 64																						
14001	-0.2 -6																						
13101	2.2 67																						
14101	-0.3 -9																						
13201	2.3 70																						
14201	-0.3 -9																						
13301	2.4 73																						
14301	-0.3 -9																						
13401	2.5 76																						
14401	-0.2 -6																						
13501	2.6 79																						
14501	-0.1 -3																						
13601	2.7 82																						
14601	0.0 0																						
13701	2.8 85																						
14701	0.1 3																						
13801	2.9 88																						
14801	0.2 6																						
13901	3.0 91																						
14901	0.3 9																						
14001	3.0 91																						
15001	0.4 12																						
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14401	3.0 91																						
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15501	0.9 27																						
14601	3.0 91																						
15601	1.0 31																						
14701	3.0 91																						
15701	1.1 34																						
14801	3.0 91																						
15801	1.2 37																						
14901	3.0 91																						
15901	1.3 40																						
15001	3.0 91																						
16001	1.4 43																						
15101	3.0 91																						
16101	1.5 46																						
15201	3.0 91																						
16201	1.6 49																						
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16301	1.7 52																						
15401	3.0 91																						
16401	1.8 55																						
15501	3.0 91																						
16501	1.9 58																						
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16601	2.0 61																						
15701	3.0 91																						
16701	2.1 64																						
15801	3.0 91																						
16801	2.2 67																						
15901	3.0 91																						
16901	2.3 70																						
16001	3.0 91																						
17001	2.4 73																						
16101	3.0 91																						
17101	2.5 76																						
16201	3.0 91																						
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17301	2.7 82																						
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17801	3.0 91																						
16901	3.0 91																						
17901	3.0 91																						
17001	3.0 91																						
18001	3.0 91																						

WEATHER RULES FOR SAFE BOATING

Before setting out:

1. Check local weather and sea conditions.
2. Obtain the latest weather forcast for your area from radio broadcasts.

When warnings are in effect, don't go out unless you are confident your boat can be navigated safely under forecast conditions of wind and sea. Be cautious when you see warning displays at U.S. Coast Guard stations, yacht clubs, marinas, and at other coastal points.

While afloat:

1. Keep a weather eye out for:
   a. A sudden vertical cumulus cloud development
   b. A sudden change in wind direction
   c. A sudden noticeable increase in wind velocity
   d. A drop in temperature
2. Be alert to heavy static on your AM radio which may indicate approaching thunderstorms.
3. Check radio weather broadcasts for latest forecasts and warnings.

Thunderstqualls often occur on warm, moist afternoons and are a great hazard to the mariner. They can have wind gusts up to 80 mph and hit almost without warning. To survive a squall, you must prevent being capsized or blown to leeward into danger.

SAFETY HINTS

1. Keep your chart up to date by applying all Notices to Mariners corrections when you receive them.
2. Read carefully all notes printed on your chart. Each is vital to your safety afloat.
3. Learn the meaning of each symbol and abbreviation on your chart from Chart No. 1.
4. The compass on your chart shows the variation from true north, however, you must also correct your bearing for the deviation of your boat.
5. Constantly use your chart from the beginning to the end of each trip. Keep in mind the orientation of your boat with respect to the chart.
6. Maintain your position on the chart by relating charted features with those you can identify in your surroundings.
7. Storm warning display locations and small craft warning signals have been charted for your safety.

Although every effort has been made to assure the accuracy of this chart, Kingfisher Maps, Inc. suggests that the user refer to the latest N.O.A.A. publications and updates regularly from the local Notice to Mariners to assure boating safety.

SOUNDINGS IN FEET AT MEAN LOW WATER
NORTH AMERICAN 1927 DATUM

HEIGHTS
Heights in feet above Mean High Water

AUTHORITIES
Hydrography and topography by the National Ocean Service, Charting and Geodetic Services with additional data from the Corps of Engineers, Geological Survey, and U.S. Coast Guard

SUPPLEMENTAL INFORMATION
Consult U.S. Coast Pilot 4 for important supplemental information.

CAUTION
This chart has been corrected from the Notice to Mariners published weekly by the Defense Mapping Agency Hydrographic/Topographic Center and the Local Notice to Mariners issued periodically by each U.S. Coast Guard district to the date shown in note in the upper left hand corner.

POLLUTION REPORTS
Report all spills of oil and hazardous substances to the National Response Center via 800--424--8802 (toll--free), or to the nearest U.S. Coast Guard facility if telephone communication is impossible (33 CFR 153).

PUBLIC BOATING INSTRUCTION PROGRAMS
The United States Power Squadrons and U.S. Coast Guard Auxiliary, national organizations of boatmen, conduct extensive boating instruction programs in communities throughout the United States. For information regarding these free educational courses, contact the following sources:

USPS--Local Squadron Commander or USPS National