

DATE: 7/19/85

U.S. DEPARTMENT OF COMMERCE
NATIONAL OCEANIC AND ATMOSPHERIC ADMINISTRATION
NATIONAL OCEAN SERVICE

TIDE NOTE FOR HYDROGRAPHIC SHEET

Marine Center: Atlantic

OPR: J264

Hydrographic Sheet: H-10170

Locality: Entrance to St. Andrews Bay, Florida

Time Period: February 19 - May 7, 1985

Tide Station Used: 872 9105 Beacon Beach, Florida

Plane of Reference (Mean Lower Low Water): 5.09 ft.

Height of Mean High Water Above Plane of Reference: 1.2 ft.

Remarks: Recommended Zoning:

1. In St. Andrews Bay, North of a line formed by 2 points located at
 $30^{\circ}04'07''$ ← $30^{\circ}04.45''$ and $30^{\circ}04.1''$ → $30^{\circ}04'00''$
 $85^{\circ}37'24''$ ← $85^{\circ}38.15''$ and $85^{\circ}37.2''$ → $85^{\circ}36'54.6''$
Zone Direct on 872 9105.
2. South of the previous line, zone on 872 9105 and apply a -20 minute time correction and x1.09 range ratio to all heights.

NOTE: POSITION OF SAND SPITS HAS SHIFTED SO CO-ORDS. HAVE BEEN CHANGED TO FIT NEW POSITIONS.

JOE MULLEN HAS BEEN INFORMED OF THESE CHANGES.

9/12/85 J.N.S.

James R. Hubbard
Chief, Tidal Datums Section

FIELD TIDE NOTE
SURVEY H-10170

Field tide reduction of soundings was based on predicted tides from Pensacola, Florida corrected to St. Andrew Bay, Florida, and were interpolated by a PDP8/e computer utilizing AM500.

The project instructions states in Section 5.9 that prediction stations number 3155 through 3169 found in Table 2 of the Tide Tables should be used to provide preliminary time and height corrections to the predicted tide at Pensacola. A detailed chartlet of these zones was provide by N/OMS12 in February 1984. These zones from the chartlet were used to creat the predicted tide using AM500. A copy of this chartlet is appended to this Tide Note.

The operating control tide station at Pensacola, Florida (872-9840) will serve as control for datum determination and the operating tide station at Panama City, Florida (872-9108), will provide additional control. These gages were maintained and operated by Chapin and Associates, Inc. These gages were monitored by contract observers and operated well through all periods of hydrography.

A Fischer Porter ADR gage was installed at Beacon Beach, Florida (872-9105) by party personnel. A dead battery caused the lost of several hours of data on 27 April 1985.

<u>SITE</u>	<u>LOCATION</u>	<u>PERIOD</u>
Pensacola, Florida 872-9840	30°24.2'N 87°12.8'W	entire period of survey
Panama City, Florida 872-9108	30°09.1'N 85°40.0'W	entire period of survey
Beacon Beach, Florida 872-9105	30°05.5'N 85°33.9'W	entire period of survey

PENSACOLA, FLORIDA & PANAMA CITY, FLORIDA

A line of communications was established with Chapin and Associates to assure correct operation of these gages and to be notified in case of any malfunction. No notification was made to the field party of any problems.

BEACON BEACH, FLORIDA

A Fischer Porter ADR serial No. 6803A3012M14 was installed on 27 December 1984. The gage was placed in operation in February 1985. The battery failed on 27 April 1985 causing a loss of several hours data. It was also noted that the gage operated 6 to 12 minutes off time during its operation. The gage was removed on 9 May 1985.

LEVELS

Levels were not run by party personnel to the staff at Pensacola, Florida. Levels were run to the staff at the Panama City gage on 26 October 1984 and 8 May 1985. These levels indicated no movement of the staff.

Levels run at the Beacon Beach gage on 27 December 1984 and 8 May 1985 also indicated no movement of staff.

ZONING

Zoning should be provided by the Tides and Water Levels Branch, N/OMS12.