

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

TIDE NOTE FOR HYDROGRAPHIC SHEET

**DATE:** February 25, 1987

**Marine Center:** Pacific

**OPR:** J288

**Hydrographic Sheet:** H-10210

**Locality:** Santa Rosa Sound, Florida

**Time Period:** February 28 - May 12, 1986

**Tide Station Used:** 872-9554 Fort Walton Beach, FL  
872-9679 East End, Santa Rosa Sound, FL

**Plane of Reference (Mean Lower Low Water):** 872-9554 = 2.76 Ft.  
872-9679 = 3.61 Ft.

**Height of Mean High Water Above Plane of Reference:** 872-9554 = 0.5 Ft.  
872-9679 = 1.3 Ft.

**Remarks:** Recommended Zoning:

This supercedes tide note dated July 21, 1986

1. Use Multi-Gage Zoning

  
Chief, Tidal Datum Quality  
Assurance Section

## Field Tide Note

Field tide reduction of soundings were based on unverified actual heights from tide station #872-9554 Fort Walton Beach, Fort Walton, FL. All data was derived from ADR tapes and reduced to MLLW. All times of actual and applied tides are UTC.

Four tide gages were in operation during the 1985 and 1986 field season. The location and periods of operation were:

SITE	LOCATION	PERIOD	
		IN	OUT
Santa Rosa Sound, East 872-9679	30°23.06'N	10/16/85	01/28/86
	86°51.54'W	01/28/86	05/13/86
Woodlawn Beach 872-9736	30°23.02'N	10/22/85	11/04/85
	87°59.08'W	11/04/85	05/13/86
Pensacola 872-9840	30°24.02'N 87°12.08'W	Primary Station	
Fort Walton Beach 872-9554	30°24.01'N 86°36.06'W	01/16/86	05/14/86

### Santa Rosa Sound, East End

The gage and staff were installed by HFP2/3 personnel and maintained during the 1985-86 field season. The gage was set to read 10 feet higher than the staff reading, at the time of installation and the gage was operated on UTC. The gage was destroyed by a storm on 01/27/86, and was replaced on 01/28/86. The staff was not disturbed. The only significant loss of data occurred from 01/27 - 01/28/86 when the gage was destroyed. This did not affect any hydrography.

### Pensacola, FL.

This installation is a primary tide station owned by NOS, but operated and maintained by Chapin and Associates, through a contract observer. No significant loss of data was reported.  
Woodlawn Beach, FL.

## WOODLAWN, FL.

The gage and staff were installed by HFP-2/3 personnel and maintained during the 1985-86 field season. The gage was set to read 10 feet higher than the staff reading, at the time of installation and the gage was operated on UTC. A contract observer was hired to make daily readings.

The gage, staff, and the pier on which it was located, was destroyed by a storm on 11/03/85. A new gage and staff was installed on the next pier east ( approximately 50 meters ) of the original location, on 11/04/85. Some loss of data occurred in November due to a gage malfunction, not reported by the contract observer. This data loss should not affect any hydrography run. No other significant loss of data occurred.

## Fort Walton Beach, FL.

The gage and staff were installed by HFP-2/3 personnel and maintained during the 1985-86 field season. The gage was set to read 10 feet higher than the staff reading, at the time of installation and the gage was operated on UTC. A contract observer was hired to make daily readings.

## Levels

Levels were run to the staffs installed by HFP-2/3, upon installation and removal before and after hydrographic operations. The staff at Woodlawn Beach was connected to five bench marks on 5/7/86 but the gage was not removed until 5/13/86. Additional hydro was run during this period. At removal the staff was connected to the primary bench mark. Inspection levels were run to the Pensacola staff ( Station # 872-9840 ) on 10/24/85 by HFP-2/3 personnel. No significant differences in elevation between respective level runs was observed for those sites applicable.

## Zoning

Zoning was not required for field reduction of soundings for this survey. Final zoning correctors will be determined by N/OMA12.

## Times of Hydro

All times of hydro are 4 hours before and 4 hours after actual times of hydrography.

D.N.	FROM TIME	TO TIME	FROM AREA	TO AREA
059	142000	235300	30°24.35'	30°24.05'

			86°42.00'	86°42.30'
065	132100	003200	30°24.30'	30°24.03'
			86°42.18'	86°24.15'

### Times of Hydro

All times of hydro are 4 hours before and 4 hours after actual times of hydrography.

D.N.	FROM TIME	TO TIME	FROM AREA	TO AREA
066	121600	235500	30°24.06'	30°24.03'
			86°42.42'	86°43.03'
069	122200	213300	30°24.06'	30°24.03'
			86°42.00'	86°43.06'
073	115800	233800	30°24.33'	30°24.06'
			86°42.00'	86°42.27'
076	120400	004437	30°24.33'	30°24.00'
			86°40.51'	86°42.00'
077	122000	000625	30°24.30'	30°24.00'
			86°40.27'	86°40.54'
078	114500	194500	30°24.30'	30°24.15'
			86°42.15'	86°42.00'
083	121300	234000	30°24.03'	30°24.06'
			86°40.06'	86°40.30'
084	115800	005030	30°24.30'	30°24.00'
			86°39.51'	86°40.24'
085	121500	231400	30°24.18'	30°24.12'
			86°39.28'	86°40.00'
086	121100	233500	30°24.02'	30°24.15'
			86°41.05'	86°41.37'
087	114500	001730	30°24.12'	30°24.03'
			86°39.27'	86°38.12'
090	120200	234500	30°24.30'	30°24.00'
			86°40.00'	86°37.55'
093	120600	002400	30°24.15'	30°24.25'
			86°37.45'	86°39.30'
098	120100	235230	30°23.45'	30°24.30'

			86°39.15'	86°38.30'
100	114700	003700	30°24.30' 86°39.36'	30°23.48' 86°37.09'
104	125100	005900	30°24.30' 86°39.36'	30°23.48' 86°37.09'
115	115300	000200	30°24.30' 86°39.45'	30°24.15' 86°36.36'
118	111200	233830	30°24.15' 86°30.45'	30°24.30' 86°35.00'
120	110500	221500	30°24.30' 86°37.30'	30°23.30' 86°35.00'
121	114200	235700	30°24.30' 86°37.00'	30°23.30' 86°35.00'
122	122300	223800	30°24.30' 86°37.00'	30°23.30' 86°35.00'
125	122500	235100	30°24.09' 86°43.00'	30°24.30' 86°41.30'
127	105500	231400	30°24.30' 86°41.30'	30°24.00' 86°37.30'
129	104400	232500	30°24.30' 86°40.00'	30°23.45' 86°35.00'
132	113000	193000	30°24.00' 86°36.00'	30°24.30' 86°36.30'