



UNITED STATES DEPARTMENT OF COMMERCE  
National Oceanic and Atmospheric Administration  
NATIONAL OCEAN SERVICE  
Office of Ocean and Earth Sciences  
Silver Spring, Maryland 20910

TIDE NOTE FOR HYDROGRAPHIC SURVEY

DATE: April 10, 1998

HYDROGRAPHIC BRANCH: Atlantic

HYDROGRAPHIC PROJECT: OPR-G311-WH

HYDROGRAPHIC SHEET: F00436

LOCALITY: Georgia, Atlantic Ocean, Approaches to Brunswick

TIME PERIOD: August 26 - November 20, 1997

"FE-1" AWOIS 9879

TIDE STATION USED: 872-0030 Fernandina, FL

Lat. 30° 40.5'N Lon. 81° 27.9'W

PLANE OF REFERENCE (MEAN LOWER LOW WATER): 0.000 meters

HEIGHT OF HIGH WATER ABOVE PLANE OF REFERENCE: 1.908 meters

REMARKS: RECOMMENDED ZONING

Use zone(s) identified as: GA6.

Refer to attachments for zoning information.

NOTE: A water level gauge was required for the Frederica River area, however was not installed. The zoning is based on historical information from Frederica River Bridge (867-7045) and is referenced to Fernandina. The area of hydrography is in a river system. Therefore, correctors based on historical zoning to Fernandina may not reflect the conditions during the time of hydrography. Without actual tide gauge measurements in the river, the uncertainty cannot be quantified.

"FE-2" AWOIS 9868, 9869, 9870

TIDE STATION USED: 867-7832 Jekyll Island Marina, GA

Lat. 31° 03.4'N Lon. 81° 25.4'W

PLANE OF REFERENCE (MEAN LOWER LOW WATER): 0.000 meters

HEIGHT OF HIGH WATER ABOVE PLANE OF REFERENCE: 2.14 meters

REMARKS: RECOMMENDED ZONING

Use zone(s) identified as: GA16.

Refer to attachments for zoning information.

NOTE: This zone is referenced to the tide staff data from Jekyll Island Marina (867-7832). A water level gauge was required for



hydrography in the Jekyll Creek area. Instead, a staff was installed and connected to the historical bench marks. Therefore, datum references are based on historical information and their accuracy for modern conditions cannot be verified.

**NOTE:** Staff values are provided in feet and on Eastern Standard Time. Conversion to meters and GMT is required. Use the column of staff readings which are relative to mean lower low water.

**"FE-3" 18' Curve**

**TIDE STATION USED:** 872-0030 Fernandina, FL  
Lat. 30° 40.5'N Lon. 81° 27.9'W  
**PLANE OF REFERENCE (MEAN LOWER LOW WATER):** 0.000 meters  
**HEIGHT OF HIGH WATER ABOVE PLANE OF REFERENCE:** 1.908 meters

**REMARKS:** RECOMMENDED ZONING

Use zone(s) identified as: SEC179, SEC180 & SEC181.  
Refer to attachments for zoning information.

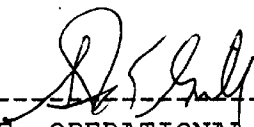
**"FE-4" Fish Haven**

**TIDE STATION USED:** 872-0030 Fernandina, FL  
Lat. 30° 40.5'N Lon. 81° 27.9'W  
**PLANE OF REFERENCE (MEAN LOWER LOW WATER):** 0.000 meters  
**HEIGHT OF HIGH WATER ABOVE PLANE OF REFERENCE:** 1.908 meters

**REMARKS:** RECOMMENDED ZONING

Use zone(s) identified as: SEC169 & SEC170.  
Refer to attachments for zoning information.

**Note 1:** Provided time series data are tabulated in metric units (Meters), relative to MLLW and on Greenwich Mean Time, except data from the staff at Jekyll Creek. See note for "FE-2".

  
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CHIEF, OPERATIONAL ANALYSIS BRANCH

Final tide zone node point locations for OPR G311-WH-97,  
F00436.

Format: Longitude in decimal degrees (negative value denotes  
Longitude West),  
Latitude in decimal degrees  
Tide Station (in recommended order of use)  
Average Time Correction (in minutes)  
Range Correction

		Tide Station Order	AVG Time Correction	Range Correction
"FE-1" AWOIS 9879				
Zone GA6				
-81.415397	31.156746	872-0030	+6	1.14
-81.398235	31.174076			
-81.399795	31.198071			
-81.410716	31.201182			
-81.415397	31.189628			
-81.422072	31.193829			
-81.435499	31.194863			
-81.427036	31.180418			
-81.439575	31.15829			
-81.434051	31.156627			
-81.424758	31.160745			
-81.415397	31.156746			
"FE-2" AWOIS 9868, 9869 & 9870				
Zone GA16				
-81.463022	31.053069	867-7832	-12	0.99
-81.436331	31.038782			
-81.430345	31.031007			
-81.426838	31.017422			
-81.426374	31.014427			
-81.456481	31.012507			
-81.462608	31.028109			
-81.467575	31.043687			
-81.463022	31.053069			
"FE-3" 18' Curve				
Zone SEC179				
-81.405516	30.924481	872-0030	-12	1.01
-81.402283	30.957877			
-81.405775	30.957178			
-81.28994	31.069948			
-81.331984	30.945514			
-81.423387	30.86377			
-81.405516	30.924481			

Zone SEC180

-81.349531 30.8764	872-0030	-12	0.97
-81.369244 30.795385			
-81.44972 30.717596			
-81.465646 30.753367			
-81.458561 30.800707			
-81.43241 30.835358			
-81.423387 30.86377			
-81.331984 30.945514			
-81.349531 30.8764			

Zone SEC181

-81.185329 31.076448	872-0030	-24	0.97
-81.218542 30.940138			
-81.369246 30.795385			
-81.331984 30.945514			
-81.185329 31.076448			

"Fe-4" Fish Haven

Zone SEC169

-80.995859 31.155667	872-0030	-42	0.94
-81.218542 30.940138			
-81.272904 30.721046			
-80.943948 31.072817			
-80.843639 31.198624			
-80.8199 31.365616			
-80.995859 31.155667			

Zone SEC170

-81.307354 30.527636	872-0030	-42	0.91
-81.272817 30.720991			
-80.943948 31.072817			
-80.943948 31.072817			
-80.843639 31.198624			
-80.868145 31.019904			
-81.307354 30.527636			