

4281

Form 504

DEPARTMENT OF COMMERCE  
U. S. COAST AND GEODETIC SURVEY

....., Director

C. & G. SURVEY  
L. & A.  
NOV 26 1927  
Acc. No.

State: Florida

DESCRIPTIVE REPORT

*Topographic* } Sheet No. <sup>4</sup> 4281  
~~*Hydrographic*~~ }

LOCALITY

Caloosahatchee River  
Iona to Fourmile Pt.

1927

CHIEF OF PARTY

R. P. Eyman

GOVERNMENT PRINTING OFFICE

4281

DEPARTMENT OF COMMERCE  
U. S. COAST AND GEODETIC SURVEY

REG. NO. 4281

TOPOGRAPHIC TITLE SHEET

The Topographic Sheet should be accompanied by this form, filled in as completely as possible, when the sheet is forwarded to the Office.

Field No. 4281

REGISTER NO.

State Florida

General locality ~~Gulf Coast of Florida~~ Caloosahatchee River

Locality ~~Caloosahatchee River~~ Iona to Fourmile Pt.

Scale 1-10:000 Date of survey July 19 to Aug. 17, 1927

Vessel U.S.C. & G.S.S. HYDROGRAPHER

Chief of Party Raymond P. Eymann, H. & G. Engr.

Surveyed by Earle A. Deily Jr. H. & G. Engr.

Inked by Earle A. Deily Jr. H. & G. Engr.

Heights in feet above \_\_\_\_\_ to ground to tops of trees

Contour, Approximate contour, Form line interval \_\_\_\_\_ feet

Instructions dated October 21, 1926

Remarks: \_\_\_\_\_

DEPARTMENT OF COMMERCE

U.S. COAST AND GEODETIC SURVEY

E. LESTER JONES, DIRECTOR.

Descriptive Report

To Accompany Topographic Sheet No. 4

4284

Caloosahatchee River,

Florida.

Raymond P. Eyman

H. & G. Engineer, Chief of Party.

## Descriptive Report

### To Accompany Topographic Sheet No.4

#### 1- Authority:-

Instructions from the Director,  
dated October 21, 1926.

#### 2- General Description of the Coast:-

Topographic sheet No.4 comprises the topography of both banks of the Caloosahatchee River and extends diagonally from Latitude 26-31 N; Longitude 81-56 W, to Latitude 26-37 N, Longitude 81-55 W. On the west bank of the river the topography was extended inland to the timber-line, on the east bank to McGregor Boulevard.

a- The west shore in general is distinguished by a dense growth of mangrove which fringes the waterline. A broad swamp covered with a rank growth of wire grass, lies behind the mangrove. Beyond this swamp is an open pine forest interspersed with palmettos. This is firm and dry land.

There are no signs of habitation on this side of the river within the executed limits of the topography.

b- The eastern shore has much the same appearance until just north of Nigger Head. The prominent points are covered with mangrove and a large swamp lies behind Palmetto Point. Iona is a small settlement at the south end of the sheet.

From Nigger Head northward are several real estate developments which show prominently from the river. The concrete seawall and electroliers (not shown) east of Beacon 28 can be clearly distinguished. The large houses southeast from Beacon 27 are very prominent.

#### 3- Bars and Channels.

a- The main ship channel from Beacon 17a to Beacon 18 is very narrow and bordered on both sides by bars which often break when vessels pass thru the channel. The northern bar bares at low water in the place shown and is awash at high water. A large shoal with about 2 feet of water at low water extends northward from Cut "H" R.R. Bn. to the channel.

b- The old channel which is still used by fishermen with light draft boats lies somewhat to the northward of the main ship channel. The old ruined Beacons north of Beacon 18 mark the sides of

the channel.

c- The channel in to Big Slough lies toward the north point and then swings south down the middle of the slough. Boats drawing not over 3 feet of water can navigate to the last turn before reaching the bridge.

d- The channel into Wyomi Creek is marked by piles. After passing between the first two sets the channel swings north of the next two piles and hugs the east shore into the creek.

e- The large bight directly north of Fourmile is an ideal anchorage for small boats drawing not over  $2\frac{1}{2}$  ft. The channel leads directly in on a S.W. heading.

#### 4- Changes in Coast Line.

a- In general the shore on the west side of the river has eroded. The old triangulation stations on Fourmile Point and Redfish Point when plotted fell as much as fifty feet out in the water from the line of mangroves.

b- Mangrove Id. in the bight at the approximate Latitude 26-36, Longitude 81-55 has entirely disappeared. A shoal however, still remains in that vicinity.

c- In general the erosion on the east side of the river was slight. The greatest amount occurred at Palmetto Point where the former triangulation station fell approximately 30 meters out in the water.

d- In several cases where seawalls have been built the land behind has been filled, from dredging in the river, and the shore line has been moved westward.

#### 5- Dangers:-

The spoil banks on either side of the main channel constitute the principal danger as evidenced on this sheet. These bars extend from Beacon 17a to Beacon 18 and are composed of sand and rock. Near the west end of the north bar a wreck bares at low water. This was not located by the topographic party. The south bank does not bare at low water. Vessels using this channel should exercise extreme caution, only navigating when the ranges are visible and they should keep their courses strictly on them.

#### 6- New Topographic Names.

Wyomi Creek is frequently spoken of locally as Whiskey Creek. --- Wyomi is the Indian name for Whiskey.

Big Slough is sometimes spoken of as Johnson's Creek. This

slough is the outlet for all the drainage developpement immediately to the south.

#### 7- Magnetic Declination.

The magnetic declination was determined by means of the plane table and declinatorie at two triangulation stations during the progress of the work.

The magnetic declination at triangulation station found to be - 4°31'E. This great discrepancy from that shown on chart 473, declination 02 - 19 E, is probably due to the fact that station Neck is marked by a cast iron pipe, above which the table was set up.

The magnetic declination at triangulation station Poe was determined on August 10; 1927 and found to be:- 02° 17' E.

#### 8:- Miscellanious:-

a- The settlement of Iona is now composed of a small group of houses. The old landing, from which produce was once shipped by boat now only shows as several rows of rotted piles. The Iona store is now at the cross roads where the road from the above mentioned settlement joins McGregor Blvd.

b- The network of roads and canals S.E. of Palmetto Point was run in to give the location of triangulation station Drain. The land between the upper drainage ditch and the signal is cultivated.

c- Telegraph and telephone poles are only delineated on one place on the sheet, the line running into the real estate developement N.E. of Beacon 29. There is a line of poles on each side of McGregor Boulevard and paralleling it the entire length of the sheet.

d- The only grass shown on the sheet is in the marshes. All timbered region and all bare land areas within the limits of the topography are grassy.

e- High water lines as such were only shown where clearly distinguishable. In some cases it happens that a very narrow line of land above high water lies between the river and the marshes. This occurred at several places along the west side of the river.

f- The only low water lines determined by direct rod reading were on the Bar north of Cut "H" R.R. Bn. and just north of Wyomi Creek. In several places along the west side the probable low water line was indicated.

g- The edge of the mangrove and swamp line along the river is a sharp clearly defined line as was located by direct rod readings. These lines, in order to more definitely retain the position of the water edge, ~~was~~ shown as a light dashed line. This dashed line should not be confused with the conventional sign of a dashed line as an indication of something which is purely sketched and not definitely located.

h- The inner edge of the swamp on the west side of the river was rodded in order to give an exact location of the timber line and beginning of firm bank, as distinguished from the marsh.

i- The eastern shore is fringed by lines of rotting piles and stakes and many single piles lies just off shore.

9- Organization --

The topography was executed by a party in charge of Earle A. Deily, Jr. H. & G. Engineer from the U.S.C. & G.S. Str. HYDROGRAPHER, Raymond P. Eyman, Commanding. The usual topographic survey methods were used. Resections were used at all setups where practicable, otherwise, short closing traverses were run. A traverse was run along McGregor Blvd. and towards station Drain. Frequent checks on azimuth and distance were possible and the closing errors were negligible. Junctures with Topographic sheet #3 was made at Piney Point, the dock at Iona, and junctures with sheet #5 was made at Station Poe and station Bit.

Respectfully submitted.

*Earle A. Deily, Jr.*  
Earle A. Deily, Jr. H. & G. Engr.

List of Plane Table Positions

name	Latitude	D.M.	Long.	D.P.	Description
Bit	26-37	302.3 (1544.2)	81-54	1566.7 (93.1)	Tripod signal, std. disc, topo mark in iron pipe.
Hal	26-36	1813 (34)	81-54	1650 (10)	Flag on Stake.
Ce	26-36	1707 (140)	81-55	188 (1473)	Flag on Stake.
Ent	26-36	1584 (263)	81-54	1493 (168)†	Flag on Stake.
Ran	26-36	1343 (504)	81-54	1605 (56)†	Flag on Stake.
Oh	26-36	205 (1642)	81-55	230 (1431)	Tripod and target.
Use	26-35	1732 (115)	81-53	1212 (449)	End of Dock.
Bn 29	26-35	1060 (787)	81-54	355 (1306)	White day mark and pointer on black pile.
Hal	26-35	729 (1118)	81-55	1140 (521)	Slatted banner on stake.
Bn 28	26-35	558 (1289)	81-54	367 (1294)	Red Lanternbox and white pointer on black 5 pile dolphin
Li	26-34	1778 (69)	81-55	1131 (530)	Tripod and target.
Bn 27a	26-34	1699 (148)	81-54	1061 600	White day marker and pointer on black pile.
Pep	26-34	1216 (631)	81-54	30 (1631)	Tripod and target.
Bn 27	26-34	1116 † (731)	81-54	1599 (62)	White day mark and pointer on black pile.
Toe	26-34	577 (1276)	81-55	252 (1409)	Tripod and target.
Sod	26-34	427 (1420)	81-54	802 (859)	End of Dock.
Sis	26-34	272 (1575)	81-55	1562 (99)	Whitewash on tree.



Dent	26-33	1597 (250)	81-55	468 (1193)	Tripod on target.
My	26-33	1486 361	81-56	310 (1351)	Whitewash on tree.
Fore	26-33	1033 (814)	81-55	521 (1140)	Stake and slatted Banner.
Lis	26-33	987 (860)	81-56	371 (1290)	Tripod on target
Ter	26-33	922 (925)	81-56	847 (814)	Target on tree trunk.
Hans	26-33	504 (1343)	81-55	661 (1000)	Target on tree trunk.
Rin	26-33	190 (1657)	81-56	1253 (408)	Target on tree.
Bn. 21	26-32	1355 (492)	81-56	460 (1201)	White day mark and pointer on black pile.
Pro	26-32	1354 (493)	81-55	1073 (588)	Target on stake.
Phi	26-32	1064 (783)	81-55	984 (677)	Flag on stake;
<del>Cow Ter</del>	26-32	1325 (522)	81-58	447 (1214)	<del>Tripod and target, No signal on topo. stake</del>
<del>Pig Hee</del>	26-32	779 (1068)	81-56	1543 (118)	<del>Tripod and target. Tripod and target. No signal on topo. stake.</del>
Bn 19a	26-32	771 (1076)	81-56	828 (833)	White daymark and pointer on black pile.
Lac	26-32	715 (1131)	81-55	875 (786)	Flag on stake.
<del>Rom. Pup</del>	26-32	774 (1073)	81-58	961 (700)	<del>Target on stake. No signal on topo. stake.</del>
Tic	26-32	497 (1350)	81-55	955 (706)	Flag on stake.
Screm	26-32	417 (1430)	81-55	914 (747)	Flag on stake.
Hub	26-32	218 (1629)	81-55	923 (738)	Flag on stake.

Bru	26-32	183 (1664)	81-55	901 (760)	Flag on stake.
Rush	26-32	177 (1670)	81-55	1014 647	Flag on stake.
Bn 19	26-32	299 (1548)	81-56	1443 (218)	White daymark and pointer on black pile.
Ion	26-31	1423 (424)	81-56	1133 (528)	Whitewash on tree.
Lamb	26-31	800 (1047)	81-57	1638 (23)	N.W. Pile on end of ruined dock.