4584

4584

Form 504

DEPARTMENT OF COMMERCE

U. S. COAST AND GEODETIC SURVEY

State: Florida

11—5613

DESCRIPTIVE REPORT.

Hydrographic Sheet No. 4584

LOCALITY:

Tampa Bay

Egmont and Passage Keys

to Piney Pt.

1925-'26

CHIEF OF PARTY:

R.P.Eyman

DESCRIPTIVE REPORT TO ACCOMPANY

HYDROGRAPHIC SHEET "D"

LOWER END OF TAMPA BAY

INSTRUCTIONS DATED JUNE 3, 1924

STEAMER HYDROGRAPHER

RAYMOND P. EYMAN

Chief of Party

(11)

January 10, 1927.

Division of Hydrography and Topography:

Division of Charts:

Tide reducers are approved in
11 volumes of sounding records for

HYDROGRAPHIC SHEET NO. 4584

Locality: FLORIDA WEST COAST

Chief of Party: R. P. Eyman

Plane of reference is MLW
2.9 ft. on tide staff at Egmont Key
2.6 ft. ----- do ---- - St.Petersburg

For reduction of soundings, condition of records satisfactory
except as checked below:

1. Locality and sublocality of survey omitted.
2. Month and day of month omitted
3. Time meridian not given at beginning of day's work.
4. Time (whether A. M. or P. M.) not given at beginning of day's work.
5. Soundings (whether in feet or fathoms) not clearly shown in record.
6. Leadline correction entered in wrong column.
7. Field reductions entered in "Office" column.
8. Location of tide gauge not given at beginning of each day's work.
9. Leadline corrections not clearly stated.
10. Kind of sounding tube used not stated.
11. Sounding tube No. entered in column of "Soundings instead of "Remarks".
12. Legibility of record could be improved.
13. Remarks.

Chief, Division of Tides and Currents.

DESCRIPTIVE REPORT TO ACCOMPANY HYDROGRAPHIC SHEET "D"

1. Instructions.

The work on this sheet was done in accordance with Instructions from the Director dated June 3, 1924.

2. Limits.

This sheet was laid out on a scale of 1-30,000 in order to include prominent objects so that lines might be run the full width of the Bay and kept under proper control, as the area comprises the entire lower end of Tampa Bay. The sheet extends from Lat. 27° ~~[illegible]~~ 32' to 27° 41½' and from Long. 82° 33' to 82° 45½' and the hydrography covers the area from the mouth of Tampa Bay to a line extending from Pinellos Point to Piney Point. The hydrography of this sheet joins that of launch sheet "a" around the entrance to the Bay; launch sheet "b", showing the inshore development along the southeast side of the bay; and to the northward and northeastward to work done by parties of the Steamer Bache.

A small subplan on a scale of 1-20,000 shows launch work done in the vicinity of Bishop's Harbor and joining the launch work of sheet "b" to that of the Steamer Bache in the neighborhood of Piney Point.

3. General.

The lower end of Tampa Bay is about 6 miles wide, the southern half being comparatively shallow and the northern half containing the deep water channel thru the Bay. The land bordering the Bay is all low lying and is composed of a number of sand keys and small islands. Mullet Key, Egmont Key, and part of Anna Maria Key are edged with white sand beaches and the remainder of the surrounding shoreline is mostly mangrove with small streches of sand beach. Along the south shore large shoals and sand flats make off from the beach and the depth of water increases gradually except where these shoals are cut thru by the channels leading into Sarasota Pass, Manatee River, and Terraceia Bay.

Large shoal areas also extend to the northeastward from Mullet Key to Pinellos Point. The beach along Mullet Key and Egmont Key is generally steep on the Bay side.

The background is generally composed of a dark tree line presenting no natural prominent features, but a number of tanks, towers, and buildings can be rather easily identified.

Work was started on this sheet in February 1925 when it became too hazy to continue work in the Gulf, and was in progress thru April. Slow progress was made due to the fact that a large part of the time two small boat parties engaged on topography and hydrography were kept in operation. After the ship returned to the working grounds from repairs, work was resumed in the Gulf and further work on "D" sheet postponed until April 1926 when parties were again at work in this vicinity of the Bay.

4. Dangers.

In general the channels are well marked and show the best water that can be taken into the Bay with few real dangers to be avoided. There is an area from 1/2 to 3/4 mile to the northeastward of the bell buoy off Mullet Key that needs to be crossed with care by ships drawing the maximum draft. There were found here three spots with 22 to 24 ft of water (these were immediately reported when found as having 23 ft) with deeper water surrounding them. The 22 ft spot is about 1.3 miles E.S.E. of the high tank at the Quarantine Station (tri.sta. Tin). A 24 ft spot was found about 1.5 miles E. x S.$\frac{1}{2}$ S. of tri. sta. Tin; both of these spots are on the range: High tank Egmont Key - North chimney of Headquarters house, Fort Dade. Another 24 ft spot was located about 1.5 miles S.E.x E.$\frac{1}{2}$ E. of tri. sta. Tin on the range: High Tank Egmont Key - Flagpole Fort Dade. It was found that the best water giving a least depth of 27 feet could be carried thru this area and between the shoals by keeping on the range: High Tank Egmont Key -

South chimney of Headquarters House, Fort Dade. It had once been reported that one of these spots had been destroyed by the U. S. Engineers, but a few soundings taken on C' day showed that they were still in evidence.

The area in the deep channel between Egmont Key and Mullet Key was found to be very irregular but no dangerous spots were found. A 28 ft spot lies 1.1 mile S.S.W. of tri. sta. Tin, two 29 ft spots 0.8 mile S.x W. of tri. sta. Tin, and the area about 1 mile east of the Light House is very uneven with a least found depth of 31 ft. A small subplan sketch showing the above 29 ft spots is attached to the sheet.

Along the upper end of Cut "B" a spoil bank was found on the southeast side of the channel about 200 meters off and having a width of about 125 meters; the least depth found here was a 17 ft spot about 290 meters east of red nun buoy "4B"; but shoal areas are found thru out the section from buoy "1B" to " 5B".

At Piney Point a fill extending about 240 meters offshore has been built in the construction of a new ferry landing. Asmall channel having 5 to 6 ft leads into the outer end of this fill and is marked by three pile beacons. A narrow channel having 5 to 6 ft of water leads into Bishop's Harbor and is marked by two small stake beacons as shown; fair water can be found just inside the point, but the Bay itself is shallow and only used by very shallow draft boats.

5. Tides and Currents.

Strong currents were encountered thruout the larger portion of this sheet during ebb and flood tides, being strongest near Egmont and Southwest channels where at times the strength amounted to about three knots. Slack water was found to be of very short duration. The least current effect was noticed close to the southeast side of the Bay, but was here further complicated by the currents entering or leaving the river and small bays.

Tides were observed by means of a portable automatic field gauge and a standard automatic gauge maintained at Egmont Key and St. Petersburg respectively. Tide reducers for the lower 6/10 of the sheet were obtained from the record at Egmont Key. The reducers for the remaining upper 4/10 of the sheet were obtained by taking a mean of the two records at Egmont and St. Petersburg. The reducers for the launch work were also obtained from a mean of the two records.

6. Landmarks.

A number of prominent objects can be easily seen and readily identified. The light house and tall tank on Egmont Key, taller of two tanks on Mullet Key and a large Hotel (tri/ sta. Don) to the north of Pass-a-grille have all been noted in previous reports. A tall observation tower about one mile to the southward of the town of Anna Maria is quite prominent, this is shown on the sheet as sig. Tow. Three tall water tanks in the Bradenton district as follows: "Man" in Manatee, "Stan" in Bradenton and "Met" in Palmetto show up well; in addition a tall white chimney (tri. sta. White Stack) at Bradenton shows up well - this should not be confused with the "Stack Electric Powerhouse" which, tho almost as tall, is dark red in color and does not show well. A yellow tank of moderate size and height but showing above the tree line is located about 1-3/4 miles to the northward of Palmetto (signal Yel). The cupola of a large barn (sig, Ola) just to the northward of Terracela Bay shows well from certain directions. In the vicinity of St. Petersburg there are a number of prominent objects that have been located by triangulation either by this party or by the "Bache". They are as follows: "Vin" - tall slender tower of Vinoy hotel; "Sor" - south tower of Sorena Hotel (there are two towers of similar appearance); "Pow" - tall grayish color stack at the power house; "White Stack" - tall white concrete stack at old power house; "Ice" - white stack of moderate height at the ice plant, this stack has an

electric sign I-C-E on the top that is lighted at night; "Red" - a tall dome shaped water tower with cement finish and having a silver color - not like the conventional steel stand pipe. Numerous tall buildings in St. Petersburg present a prominent skyline and the new municipal pier with pavilion on the outer end stands out conspiciously . In the neighborhood of Piney Point a large white house with dark roof and white chimney (sig. "Ho") shows up very well when the sunlight is favorable.

7. Survey Methods.

The larger part of the hydrography was done from the ship with the ordinary hand lead line with the ship running at about 4 to 4½ knots. The spacing of lines was 200 meters thruout the largest part of the sheet. In the northern part of the sheet 400 meter lines were run which were then split in the channel area. Launch work was done in the neighborhood of Bishop's Harbor to Piney Point and part of a day on development of a spoil bank near the dredged channel. Little trouble was had in obtaining fixes from the prominent objects; altho there were times of hazy weather that hindered the work to some extent. Much of the work in the vicinity of Bishop's Harbor was done in a shallow draft skiff with outboard motor.

Respectfully Submitted,

Raymond P. Eyman

Raymond P. Eyman,
H. & G. Engineer.

STATISTICS SHEET NO.. D.

Date (1925)	Letter	Volume	Positions	Soundings	Miles Statute	Vessels
February 10th...	A	1	100	579	24.7	Ship
February 11th..	B	1	74	426	17	Ship
February 15th..	C	1	100	559	26.4	Ship
February 16th..	D	2	70	377	18.1	Ship
February 17th..	E	2	71	395	17	Ship
February 18th..	F	2	72	411	19.6	Ship
February 24th..	G	2-3	108	594	26	Ship
March 2nd.....	H	3	79	365	15.2	Ship
March 6th.....	J	3	12	45	3.3	Ship
March 12th.....	K	3	150	734	38.7	Ship
March 19th.....	L	3-4	157	867	37.7	Ship
March 20th.....	M	4	53	170	5.7	Ship
March 24th.....	N	4	61	287	10.8	Ship
March 25th.....	P	4	98	575	28	Ship
March 26th.....	Q	5	131	652	31.7	Ship
March 27th.....	R	5	32	172	7.6	Ship
April 1st.....	S	5	42	189	9.4	Ship
April 2nd.....	T	5	16	81	3.8	Ship
April 23rd.....	U	5-6	164	930	42.3	Ship
April 24th..... (1926)	V	6	165	909	38	Ship
April 2nd.....	W	7	67	601	22	Ship
May 3rd.....	X	7	110	625	32	Ship
May 4th.....	Y	7-8	186	1037	57.5	Ship
May 5th.....	Z	8	175	930	50.8	Ship
May 6th.....	A'	8-9	56	250	14.2	Ship
May 7th.....	a	10	158	819	22	Launch
May 11th.....	b	10	10	54	1.3	Launch
May 14th.....	B'	9	30	175	9	Ship
July 6th.....	c	10	2 46	170	5	Launch
July 23rd.....	C'	9	24	120	3.4	Ship
July 20th.....	d	11	34	343	5.7	Launch
July 21st.....	e	11	58	479	7.0	Launch
Totals	32	11	2667	14920	650.9	

Hydrographic Sheet No. 4584.

Tampa Bay Florida.

This sheet covers surveys made at different periods during 1925-6: the surveyed area is well and closely sounded and appears to develop bottom conditions satisfactorily; the shoals and channels are well defined and crossings agree closely.

Records are in good condition and satisfactory

Field protracting quite accurate.

Field plotting not satisfactory.

Additional work not required unless changes have developed since dates of surveys.

John D Torrey
5/10/27

IN REPLY ADDRESS THE DIRECTOR
U. S. COAST AND GEODETIC SURVEY
AND NOT THE SIGNER OF THIS LETTER

AND REFER TO No. 11-VEC

DEPARTMENT OF COMMERCE
U. S. COAST AND GEODETIC SURVEY
WASHINGTON

May 23, 1927.

SECTION OF FIELD RECORDS

Report on Hydrographic Sheet No. 4584

Tampa Bay, Florida

Surveyed in 1925 - 1926

Instructions dated June 3, 1924 (HYDROGRAPHER)

Chief of Party, R. P. Eyman.

Surveyed by R. P. Eyman.

Protracted by J. P. Lushene.

Soundings plotted by P. A. Smith.

Verified and inked by J. D. Torrey.

1. The records conform to the requirements of the General Instructions.

2. The plan and character of development conform to the requirements of the Specific Instructions except that the 12 foot sounding off the quarantine dock in lat. 27° 38' 1778 m., long. 82° 42' 1353 m. should have been investigated for possible shoaler water.

3. The plan and extent of the survey satisfy the Specific Instructions.

4. The sounding line crossing are excellent.

5. The information is sufficient for drawing the usual depth curves.

6. The usual field plotting was done by the field party and was well executed with the exception that position numbers were placed too close to the lines.

7. The junction with H - 4578 is satisfactory.

   The junctions with H-4565 and H-4579 will be taken up when these sheets are received.

8. No additional work is necessary unless it is desired to check the 12 foot sounding mentioned in paragraph No. 2.

9. Character and scope of surveying - excellent.

   Field drafting - very good.

10. Reviewed by A. L. Shalowitz, May, 1927.

Approved:

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Chief, Section of Field Records (Charts).

_____

Chief, Section of Field Work (H. & T.)

Form 537
11—5812

DEPARTMENT OF COMMERCE
U. S. COAST AND GEODETIC SURVEY

REG. NO. 4584

HYDROGRAPHIC TITLE SHEET

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

Field No. "D"

REGISTER NO. 4584

State Florida.

General locality ~~Gulf Coast of Florida.~~ Tampa Bay

Locality Egmont and Passage Keys to Piney Pt. ~~Lower End of Tampa Bay.~~

Scale 1/30,000 1/20,000 Date of survey Feb. July 1925 1926

Vessel Steamer Hydrographer.

Chief of Party Raymond P. Eyman.

Surveyed by Raymond P. Eyman.

Protracted by Joseph P. Lushene.

Soundings penciled by Paul A. Smith.

Soundings in ~~fathoms~~ feet

Plane of reference M.L.W.

Subdivision of wire dragged areas by

Inked by J. D. Torrey

Verified by J. D. Torrey

Instructions dated June 3rd, 1924

Remarks:

GPO