

4575
4575a

Form 504

U. S. COAST AND GEODETIC SURVEY
DEPARTMENT OF COMMERCE

DESCRIPTIVE REPORT

Type of Survey *Hydrographic*
Field No. _____ Office No. *45758A*

LOCALITY

State *Florida*
General locality *Tampa Bay*
Locality *Yacht Basins*
and Entrance Port of
St. Petersburg 1926-27

CHIEF OF PARTY

R. P. Eyzman

LIBRARY & ARCHIVES

DATE _____

4575
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C. & G. Smith
L. & A.
DEC 4 1926
Acc. No.

DESCRIPTIVE REPORT

to accompany

Topographic and Hydrographic Sheet "Y"

Survey of Yacht Basins in St. Petersburg

by party on

Steamer Hydrographer

Raymond P. Eymann,

Chief of Party.

Descriptive report to accompany Sheet No.
Scale 1 : 3,000

General location of work.

The work on this sheet lies between $82^{\circ} 37'$ and $82^{\circ} 38' W$ long and between $27^{\circ} 45' 30''$ and $27^{\circ} 46' 45''$ and comprises the following harbors and approaches in the vicinity of St. Petersburg; North Yacht Basin, south Yacht Basin and entrance channel to Port of St. Petersburg.

Purpose of Survey.

Since considerable change in hydrographic features brought about by dredging had been made since the last surveys the purpose of this survey was to obtain reliable information in regard to the present condition of the harbors mentioned above.

Scale.

As it was desired to develop the area very closely it was decided to do the work planned on a 1:3,000 projection.

Port of St. Petersburg and Channel.

The work in the Port of St. Petersburg was done on "a" day and has already been forwarded to the office.

Part of St. Petersburg

For the work in ~~Bay~~ Channel five lines were run. Three lines were run as closely as possible on a range marked by two triangular day marks located near the shore while one line was run at a distance of approximately twenty meters on either side of this range. These ranges consists of triangular slatted day marks; the front range with point upward and the rear range with point downward. As it was necessary to use a borrowed launch for the work and since the range marks were difficult to pick up at the outside end of the channel, considerable difficulty was experienced in obtaining straight lines. A draft of 19 feet at M.L.W. can be carried into ~~Bay~~ harbor by running close to the range. As the channel is very narrow it would be advisable for boats of moderate draft to carry a pilot in entering the harbor. At the time of the survey the channel was marked by two beacons. However, since this survey the outer channel beacon has been destroyed and at the present time there is but one lighted beacon (FlW - 1Sec) located on South Side of Channel and at a distance of approximately half a mile from inner shore.

The two range marks and lighted beacon were located by sextant angles.

The signals used on this work were four triangulation Stations, Vin, Sor, Ice and Pow.

Yacht Basins.

Yacht Basins.

There are two Yacht Basins in St. Petersburg the old or South Basin and the new or North Basin. As the topography around these basins had been previously completed by the Steamer Bache it was necessary to relocate Signals in these basins. This was accomplished by locating various natural objects in the basin by means of sextant angles taken on the four triangulation stations, Vin, Sor, Ice and Pow. In this manner good control was obtained for the hydrography. Lines approximately 30 meters apart were run in these basins.

In both basins the bottom is very irregular. This may be attributed to the soft bottom and the character of the dredging operations at the time these basins were formed.

South Basin.

The South or old Yacht basin is enclosed by concrete seawall with slips for yachts extending around the entire basin. The entrance to this basin is marked by two red range lights located inshore and about sixty meters apart. There are two lights on the outer ends of north and south moles. On the South mole is a white standard beacon FLW every two seconds and about 20 meters inshore a fixed red light on a frame structure. On the north mole is a white standard beacon Group FLW every three seconds and about 25 meters inshore a fixed red light suspended from a pole.

All lights were located by sextant angles.

Although there is a clear depth of ten feet or more inside the basin a bar at the entrance limits the availability of the basin to boats drawing less than eight feet.

North Basin.

The north Yacht Basin is at present uncompleted and no provision has as yet been made for taking care of boats in this basin. As in the south basin the bottom here is very irregular. The entrance to this basin is at present obstructed by a bar with but three feet of water at M.L.W. A concrete seawall extends along the north and west sides of the basin while the remainder is sand shore line. It is intended in the near future to extend the concrete seawall around the entire basin as in the south basin.

There are no lights or ranges in this basin.

Approaches to Yacht Basins.

The approaches to the basins extending outward about 1000 meters from the entrance to the basins and between the Atlantic Coast Line Railroad Dock on the south and the north mole of north Yacht Basin on the north were sounded out by seventy five meter line.

A concrete pier now almost completed is located between the two basins. It extends outward for a distance of approximately one half mile.

Topographic Details.

As the topography in the vicinity of these basins was done on a 1: 20,000 scale it was deemed advisable to locate the topographic details necessary for the hydrographic smooth sheet plotting by taking sextant positions at various points on the shoreline. Accordingly all topographic detail shown on the completed smooth sheet was located by sextant.

Respectfully submitted,
A. M. Zestkind
Rt. Lt., C. S. S.

ADDITIONAL NOTES
to accompany
SHEET "Y" YACHT BASINS
St. Petersburg, Fla.


During the period while work was being done in this vicinity, the new pier was under construction and had not been extended to its full length which accounts for appearance of several sounding lines under the present location of the pier. To date the pier has been completed and is thus shown on the sheet. On the face of the pier at either corner are shown fixed lights, the one to the northward being red and the one to the southward being green. It was the city's intention to have both these lights fixed red and consequently the one to the southward is to be changed to fixed red as soon as the proper lense can be secured by the city.

Another light (flashing green) is to be established on the tower of the Pavilion in the center of the seaward face at an early date; also the range lights into the Yacht Basin are to be placed on higher poles and so set that they will lead thru the center of the entrance.

The Yacht Basin to the northward of the pier is not yet completed. Seawalls are being built and dredges are at work deepening the approaches to the basin and filling in behind the seawall, it is the city's intention to have an available draft of 12 ft. into this basin.

*There is also included herewith a blue print of a recent survey of the Port of St. Petersburg, by the city.

Respectfully submitted,


Raymond P. Eymann,
Comdg. Str. Hydrographer.

* This blue print to be removed from this Dec. Res. and to remain with sheet for present then turned over to Mr. Stone for filing

CAS. Dec 13 1926

STATISTICS SHEET NO. y

Date (1926)	Letter	Volume	Positions	Soundings	Miles Statute	Vessels
February 16th..	b	2	28	205	1.5	Launch
February 18th..	c	2	6	43	0.5	Launch
March 30th.....	d	2	84	384	4.8	Launch
March 31st.....	e	2	98	469	7.3	Launch
April 10th.....	f	2	25	92	0.9	Launch
Totals	5	1	241	1191	15.0	
			241	1191	15	

Note: Volume # 1 with " a " day sent in previously.

(11)

December 17, 1926.

Division of Hydrography and Topography:

Division of Charts:

Tide reducers are approved in
1 volumes of sounding records for

HYDROGRAPHIC SHEET NO. 4675

Locality: FLORIDA WEST COAST

Chief of Party: R. P. Eysman

Plane of reference is M L W
2.6 ft. on tide staff at A.C.L. Dock, 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.

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

AND REFER TO NO. 11-DRM

DEPARTMENT OF COMMERCE
U. S. COAST AND GEODETIC SURVEY

WASHINGTON

April 25, 1927.

SECTION OF FIELD RECORDS

Report on Hydrographic Sheet No. 4575

Surveyed in Feb.-Apr., 1926

Chief of Party, Raymond P. Eymann.

Surveyed by L. M. Zeskind.

Protracted and soundings plotted by L.M. Z.

Verified and inked by D. R. Rounds.

1. The records do not conform to the requirements of the General Instructions in the following respects:
 - (a) Failure to note direction of courses.
 - (b) Insufficient data for the accurate location of beacons and buoys in the entrance channel to St. Petersburg.
2. The plan and character of the development fulfill the requirements of the General Instructions except that on "D" day the time interval was not uniform, although the character of the bottom was regular.
3. Sounding line crossings are adequate.
4. The usual depth curves can be completely drawn.
5. The field plotting was completed to the extent prescribed in the General Instructions.

In the channel approaching the port of St. Petersburg the work had to be replotted in the office. The field party had evidently failed to adjust their protractor, and as the work was done on a very large scale, and also due to the fact that their fixes were not strong, the work in this channel as plotted in the field was very much in error.

6. Further surveying is unnecessary within the limits of this sheet.
7. Character and scope of surveying - fair.
Field drafting - fair.

*Sheet Inspected by A. L. Shalant **

* The work on this sheet was founded ^{Dean R. Rounds.} adequate except for the beacons and lights in the channel entering Bayonne Harbor. The location of these were found to conflict with other information in the office, and additional information has been requested. A. L. Shalant

POST-OFFICE ADDRESS: Steamer HYDROGRAPHER, St. Petersburg, Fla.

TELEGRAPH ADDRESS:

EXPRESS OFFICE:

MS-19 1427

DEPARTMENT OF COMMERCE
U. S. COAST AND GEODETIC SURVEY

*See in Receipt.
Report for H 4575
(Caled. work) R*

October 19, 1927.

To: The Director
Coast Survey,
Washington, D.C.

From: Raymond P. Eymann,
Commanding Officer,
Str. HYDROGRAPHER.

Subject: Results of recent hydrographic developments.

In the vicinity of St. Petersburg there are now three yacht basins. The center basin has had no further work done on it since our survey of last year. The North yacht basin has been considerably changed inside. Originally, this basin was partially constructed by a dredge working into this area from the outside to throw up a fill to the Northward for the grounds of the Vinoy hotel; consequently the dredge was not moved oftener than necessary and many deep holes were dug in the basin with adjacent shoal areas surrounding them. Later on the entire yacht basin was outlined and partially dredged. This was about the conditions met with when our survey was made last year and the sheet shows many apparently erratic soundings. Since that survey some additional dredging has been done inside this basin but little ^{or} are none outside, a yacht of about 8 ft draft has been using this basin with considerable moving in and out and was reported to be aground many times with the consequent stirring up on the sand bottom. It was found that the city had done hydrography in all three basins and only check lines were run by us and compared with the city's work.

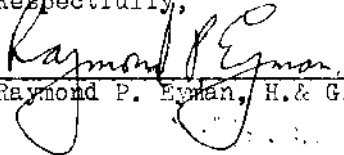
The work in the vicinity of the North basin has been shown on the tracing accompanying the boat sheet in order not to be confused with the original work. This tracing shows considerable change in the basin from the original survey and checks the city's work, still showing however several deep holes and uneven bottom. The approach to the entrance has shown some change but there still remains a large shoal area directly off the mouth. The city requested and were furnished a blue print of this tracing and intend to do further dredging in this area whenever funds are available and I have advised them that when such work has been done and a survey made to forward the results to our Office for chart correction purposes.

The South yacht basin is a new basin and ~~our~~ ^{our} work is shown

directly on boat sheet # 4575. This work was expanded to the approximate size of the blue print supplied by the city and found to check the citie's work.

There are two large new water tanks belonging to the city water works dept. that were located by sextant angles and should be shown on the chart for landmarks as they are very prominent - the angles are in the record book and there approximate positions given on the sheet Landmarks for Charts.

Respectfully,


Raymond P. Egan, H. & G. E.

October 24, 1927.

(11)

Division of Hydrography and Topography:

Division of Charts:

Tide reducers are approved in

1 volume of sounding records for

HYDROGRAPHIC SHEET 4575 Add'l.

Locality: **ST. PETERSBURG, FLORIDA.**

Chief of Party: **R.P. Ryan, 1927.**

Plane of reference is **M L V**

3.3 ft. on tide staff at **St. Petersburg.**

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.

J.P. Callahan

Chief, Division of Tides and Currents.

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

AND REFER TO No. 11-DRM

DEPARTMENT OF COMMERCE
U. S. COAST AND GEODETIC SURVEY

WASHINGTON

December 16, 1927.

SECTION OF FIELD RECORDS

Report on Hydrographic Sheet No. 4575^a

Surveyed in October, 1927

Chief of Party, Raymond P. Eymann.

Surveyed by J. C. Sammons.

Protracted and soundings plotted by F. B. Kelly.

Verified and inked by R. L. Johnston.

1. The records conform to the requirements of the General Instructions.
2. The plan and character of the development fulfill the requirements of the General Instructions.
3. The sounding line crossings are adequate, but the crossings in the north basin are very poor. This condition is probably due to the dredging operations.
4. The usual depth curves can be fairly completely drawn.
5. Field plotting - all work on the smooth sheet was done by the office force.
6. Further surveying is unnecessary, at least for some time. The north basin and the bar outside the entrance to the north basin will probably be dredged further.
7. Character and scope of surveying - good.
Field drafting - none done on smooth sheet.
8. Remarks: The outline of the south basin is controlled by sextant angles in these records; the other outlines were taken from the old sheet and modified from the blueprints of the Department of Public Works, St. Petersburg.

The shoreline on this sheet shows present conditions and should be used for charting.

E. O. G.

The two prominent water tanks, mentioned in the descriptive report and located on page 72 in the sounding record, fall outside the northern limits of the sheet. *They have been plotted on Top. 4199.*

9. Reviewed by R. L. Johnston, November, 1927.

*Sheet inspected by
A.T.S*

Approved:

Chief, Section of Field Records (Charts)

L. A. Colburn

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

DEPARTMENT OF COMMERCE
U. S. COAST AND GEODETIC SURVEY

REG. NO. 4575

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. "X"

REGISTER NO. 4575

State Florida

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

Locality Yacht Basins and Entrance to Port of St. Petersburg

Scale $\frac{1}{3000}$ Date of survey Feb. - Apr. 1926

Vessel Steamer Hydrographer

Chief of Party Raymond P. Eyma

Surveyed by L. M. Zeskind

Protracted by L. M. Zeskind

Soundings penciled by L. M. Zeskind

Soundings in ~~metres~~ feet

Plane of reference M.L.W.

Subdivision of wire dragged areas by

Inked by

Verified by

Instructions dated June 3rd 1924

Remarks:

DEPARTMENT OF COMMERCE
U. S. COAST AND GEODETIC SURVEY

HYDROGRAPHIC TITLE SHEET
Prepared in Office of Field Records

The finished Hydrographic Sheet is to be accompanied by the following title sheet, filled in as completely as possible, when the sheet is forwarded to the Office.

U. S. Coast and Geodetic Survey.

Register No. **45758**

45758

State Florida

General locality Tampa Bay

Locality Yacht Basins at St. Petersburg

Chief of party R. P. Eyman

Surveyed by J. C. Sammons

Date of survey Oct. 13-18, 1927

Scale . . . 1:3,000

Soundings in Feet

Plane of reference Mean Low Water

Protracted by F. B. Kelly . Soundings in pencil by F. B. K.

Inked by R. L. Johnston . Verified by R. L. J.

Records accompanying sheet (check those forwarded):

Des. report, _____ Tide books, _____ Marigrams, _____ Boat sheets,

_____ Sounding books, _____ Wire-drag books, _____ Photographs.

Data from other sources affecting sheet

Remarks: *This work was first registered as Add. Work for original but a new Sheet 4575 was made at the Office*

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

AND REFER TO No. 11-LPM

DEPARTMENT OF COMMERCE
U. S. COAST AND GEODETIC SURVEY
December 16, 1927.
WASHINGTON
SECTION OF FIELD RECORDS

Report on Hydrographic Sheet No. 4575^a

Surveyed in October, 1927

Chief of Party, Raymond P. Eymann.

Surveyed by J. C. Sammons.

Protracted and soundings plotted by F. A. Kelly.

Verified and inked by R. L. Johnston.

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Field drafting - none done on smooth sheet.
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The two prominent water tanks, mentioned in the descriptive report and located on page 72 in the sounding record, fall outside the northern limits of the sheet. *They have been plotted on Top. 4199.*

9. Reviewed by R. L. Johnston, November, 1927.

Approved:

Chief, Section of Field Records (Charts)

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