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Form 504

DEPARTMENT OF COMMERCE  
U. S. COAST AND GEODETIC SURVEY  
....., Director

U. S. COAST AND GEODETIC SURVEY  
L. & A.

State: Florida ..... Acc. No. ....

DESCRIPTIVE REPORT

~~Topographic~~ } Sheet No. Y 4646  
~~Hydrographic~~ }

LOCALITY

Ten Thousand Islands  
Indian Key Pass

1927

CHIEF OF PARTY

R. P. Eyman

DESCRIPTIVE REPORT TO ACCOMPANY HYDROGRAPHIC SHEET "Y".

1. Authority.

14-LE. Director's letter dated Jan. 10, 1927. Reconnaissance work done while standing by Lieut. Guy Kirksey of the Army Air Service, during the progress of the Photographic Survey of the West Gulf Coast, in accordance with oral instructions of the Commanding Officer.

2. General Description.

The area covered in this sheet is the hydrography of a part of Indian Key Pass and the entrance to Indian Key Pass from the lighted buoy, Ten Thousand Islands. The limits of the sheet being approximately  $25^{\circ} 46.8'$  N to  $25^{\circ} 49.4'$  N and  $81^{\circ} 26.9'$  W to  $81^{\circ} 28.7'$  W.

The maximum depth that can be taken into the Pass to Beacon # 7 is 7 feet at mean low water. Nevertheless care must be taken as a 6 foot spot exists 275 meters ExN of the N.E. end of Indian Key. This shoal sounding was marked by a large stake but at present the stake is missing.

From the lighted buoy to the entrance of the Pass the depth is uniform, ranging from 8 to 9 feet. In entering the Pass the best water is had closer the shore of Indian Key rather than the center of the Pass. After the shoal of 6 feet is passed the depth increases to an average depth of 12 feet. This locality forms an ideal anchorage for ~~small~~ boats.

The six foot shoal sounding approximately N.E. of the buoy as shown on the present chart was searched for but the least sounding found was 8 feet.

3. Landmarks.

There are no definite or characteristic landmarks in this locality. Everything appears to be alike. It is extremely desirable to have local knowledge before endeavoring to explore this area.

4. Anchorages.

Good holding ground is had 1/3 to 1/2 mile N.E. of the N.E. end of Indian Key. This area being protected from winds from all directions with its holding ground makes it an ideal anchorage for boats. The HYDROGRAPHER while standing by in the aerial survey of this locality used this anchorage. The bottom of this area is chiefly mud.

5. Dangers.

The shore ~~line~~ in this locality is full of coral reefs making it impossible to land a boat in most cases. Care should be exercised when navigating close to shore as rocks can be found out as far as 40 meters off shore.

The 6 foot shoal 250 meters E x N of the N.E. end of Indian Key is treacherous for boats drawing 6 feet or more.

6. Survey Methods.

All of the survey of this area was made with the ship's launch. No unusual methods were used. The scale of this survey is 1 to 10,000.

7. General.

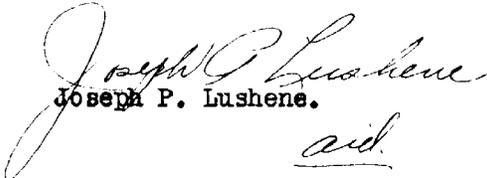
The aim at first was to make a survey of the immediate locality of the anchorage of the HYDROGRAPHER, to give an exact concept-

ion of its anchorage and locality. Later it was decided that the OFFICE might be interested in the survey and continuous series of tides was read so that the Office might have the true datum for tide reduction.

A tide plane was roughly determined from the predicted tides ~~and~~ the observed for the reduction of soundings on the boat sheet. The plane estimated was 1.5. In plotting the smooth sheet the M.L.W. of 0.5 as determined by the Office was used. This accounts for the soundings being 1 foot higher on the boat sheet than on the smooth.

8. Organization.

Survey performed by the party of the Steamer HYDROGRAPHER, Raymond P. Eymann Commanding, in February 1927 while standing by the aerial photographic survey of ~~the~~ Everglades.

  
Joseph P. Lushene.  
*aid.*

STATISTICS SHEET NO. "Y"

Date (1927)	Letter	Volume	Positions	Soundings	Miles Statute	Vessels
February 9 . .	a	1	26	111	2.8	Launch
February 10 . .	b	1	109	502	15.8	Launch
February 11 . .	c	1	82	375	12.6	Launch
TOTALS . .	3	1	217	988	31.2	

T I D A L S H E E T  
TO ACCOMPANY

SHEET Y BOAT Power Launch.

Gauge Used Plain Staff

Location of Gauge N.E. end of Indian Key.

Bench Marks.

Elevation of B. M's. above 0 of tide staff.  
Date

# 1.	<u>7.370</u>	<u>Feb. 9, 1927.</u>
# 2.	<u>_____</u>	
# 3.	<u>_____</u>	
# 4.	<u>_____</u>	
# 5.	<u>_____</u>	
# 6.	<u>_____</u>	

Tide Tables.

Readings on Staff

feet

Date

Highest tide observed.	<u>_____</u>	<u>4.55</u>	<u>Feb. 15, 1927</u>
Mean high water. ( 8 obs.)	<u>_____</u>	<u>See office data.</u>	
Mean half tide level.	<u>_____</u>		
Mean low water. ( 8 obs.)	<u>_____</u>	<u>0.5</u>	<u>(from Office)</u>
Lowest tide observed.	<u>_____</u>	<u>-0.30</u>	<u>Feb. 16, 1927</u>
Mean range of tides.	<u>_____</u>	<u>See office data.</u>	

(11)

June 8, 1927.

Division of Hydrography and Topography:

Division of Charts:

Tide reducers are approved in  
1 volumes of sounding records for

HYDROGRAPHIC SHEET

4646

Locality: **FLORIDA, GULF COAST, INDIAN KEY PASS.**

Chief of Party:

Plane of reference **R. P. Hyman, 1927.**

**0.6** ft. on tide staff at **N & W  
Indian Key.**

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.

*E. L. ...*

Chief, Division of Tides and Currents.

DO NOT ADDRESS THE DIRECTOR  
U. S. COAST AND GEODETIC SURVEY  
AND NOT THE NUMBER OF THIS LETTER

NO REFERENCE TO No. 11-DRM

DEPARTMENT OF COMMERCE  
U. S. COAST AND GEODETIC SURVEY

WASHINGTON

September 12, 1927.

SECTION OF FIELD RECORDS

Report on Hydrographic Sheet No. 4646

Indian Key Pass, Ten Thousand Islands, Florida

Surveyed in 1927

Instructions dated Jan. 10, 1927 (HYDROGRAPHER)

Chief of Party, R. P. Eyman.

Surveyed, protracted and soundings plotted by J. P. Lushene.

Verified and inked by J. T. Jarman.

1. The records as well as the plan and character of development conform to the requirements of the General Instructions.
2. There are no specific instructions for the work.
3. The sounding line crossings are adequate and the information is sufficient for drawing the usual depth curves.
4. This survey is not based upon triangulation and it cannot be located with sufficient accuracy for large scale charting, but by using its connection with T. 4256 it can be placed accurately enough for small scale charting. The magnetic meridian was transferred in the office from T. 4256.
5. The quality and completeness of this survey fully conform to the standard requirements, and if it is included in a scheme of triangulation it may be considered as a final survey for all purposes.
6. The character and scope of the surveying and field drafting are excellent.
7. Reviewed by E. P. Ellis, September, 1927.

Approved:

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Chief, Section of Field Records (Charts)

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

Aug. 15, 1927

Section of Field Records  
Report on Hydrographic Sheet No. 4646  
West Coast of Florida - Indian Key Pass  
Surveyed in 1927

Instructions dated October 21, 1927

Chief of Party - Raymond P. Eymann

Surveyed by - Paul A. Smith

Protracted and soundings plotted by - Joseph  
P. Lushene.

Verified and Inked by - J. T. Jarman

1. The records and notes of this sheet were well kept and conform to the General Instructions.

2. The protracting is very good with the exception of several minor inaccuracies.

3. The development on shoals and in channels is sufficient.

4. The soundings line crossings are satisfactory.

5. There are no contemporary surveys adjoining this one.

6. Field drafting is excellent and conforms to the General Instructions

7. The sheet was clean and the work legible

DEPARTMENT OF COMMERCE  
U. S. COAST AND GEODETIC SURVEY

REG. NO.  
4646

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. Y

REGISTER NO. **4646**

State Florida

General locality Ten Thousand Islands

Locality Indian Key Pass

Scale 1:10,000 Date of survey February 9-11, 192 7

Vessel Steamer HYDROGRAPHER

Chief of Party Raymond P. Eyma

Surveyed by Paul A. Smith

Protracted by Joseph P. Lushene

Soundings penciled by Joseph P. Lushene

Soundings in ~~fathoms~~ feet

Plane of reference M. L. W.

Subdivision of wire dragged areas by

Inked by

Verified by

Instructions dated October 21st, 192 6

Remarks: Work done while standing by in photographic survey  
of West Gulf Coast.

642-5C      On Sunday 7-15-67 Fully app'd after  
verification & review