

5799

U. S. COAST & GEODETIC SURVEY
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5799

Form 504
Rev. Dec. 1933
DEPARTMENT OF COMMERCE
U.S. COAST AND GEODETIC SURVEY
R. S. PATTON, DIRECTOR

DESCRIPTIVE REPORT

Topographic } Sheet No. 15
Hydrographic }

State **Florida**

LOCALITY

Nassau River

and Vicinity
Pumpkin Hill Creek and Tributaries

1935

CHIEF OF PARTY

Hubert A. Paton

DEPARTMENT OF COMMERCE
U. S. COAST AND GEODETIC SURVEY

HYDROGRAPHIC TITLE SHEET

U. S. COAST & GEODETIC SURVEY
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JUN 3 1935
REG. NO.
Acc. No.

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. 15

REGISTER NO. **5799**

State Florida

General locality Nassau River and

Locality Pumpkin Hill Creek and Tributaries
Vicinity

Scale 1:10,000 Date of survey 9/24/34 - 3/19, 1935

Vessel Party No. 26

Chief of Party Hubert A. Paton

Surveyed by George W. Lovesee

Protracted by T. M. Williams & M. K. Spencer.

Soundings penciled by M. K. Spencer

Soundings in ~~fathoms~~ feet

Plane of reference Mean Low Water

Subdivision of wire dragged areas by

Inked by

Verified by

Instructions dated November 17 and December 5, 1933
H. A. Paton

Remarks:

See Topo. D. R.'s for landmarks.
num.

DESCRIPTIVE REPORT
TO ACCOMPANY
SHEET 15
NASSAU RIVER, FLORIDA
PARTY NO. 26 - PROJECT H. T. 168.

May 2, 1935.

INSTRUCTIONS:

The work on this sheet was done in accordance with instructions dated November 17 and December 5, 1933.

LIMITS:

This sheet is a survey of Nassau River and its tributaries, beginning about $\frac{1}{2}$ mile south of Nassauville and continuing upstream to Lofton Creek. The larger part of the sheet is taken up by the tributaries, which include Pumpkin Hill Creek, Edwards Creek, Samples Creek, Starrett Creek, Burton Creek and Mink Creek. The upper end of Pumpkin Hill Creek falls on Sheet 17.

JUNCTIONS:

A junction on the north is made with Sheet 13, on the south with Sheet 17, and on the west with Sheet 16.

SURVEY METHODS:

The signals were located on graphic control sheet "S".

All the soundings were taken with a hand leadline made of Samson mahogany sash cord having a phosphor bronze core. The lead weighed 8 pounds. The sounding lines were run parallel with the channel. Positions were located by the standard 3 point fix in Nassau River and in Pumpkin Hill Creek to a point abeam of topo signal Row. Above this point and in all other creeks, positions were taken with reference to the shoreline. These positions were transferred from the boatsheet to the smooth sheet.

SHORELINE:

The shoreline was transferred from Graphic Control Sheet "S" wherever possible, but the greater part of the shoreline was transferred from photo-topographic sheets furnished by Lieut. (j.g.) S. B. Grenell. In a few places this was found to be slightly in error and the approximate location is shown by a dash line, in ink on the boatsheet and in pencil on the smooth sheet.

*Correct location
Included in office
notes advisable.*
num.

See descriptive reports of the topo sheets for a discussion of the discrepancies, description of shoreline, etc.

DATUM:

This sheet is on North American 1927 Datum. Station Brow had been adjusted and could be plotted without correction. The other stations had not been adjusted and had been computed on North American Datum, using the line Horseshoe - Mt. Cornelia as a base. By comparison of the two values given for the adjusted stations, the following corrections were obtained and applied: Stations Back, Nassau Stack, Pump, Kin and Chris

Latitude	+ 1.7 meters
Longitude	- 7.7 meters

Stations Cape, Burton, and Moore

Latitude	+ 1.2 meters
Longitude	- 7.0 meters

CHANNELS:

The channel in most common use in the Nassau River is found about 100 yards off the west bank when going upstream from Nassauville until Pumpkin Hill Creek, on the opposite bank, has been passed. The least depth is eleven feet. A 13 foot channel can be followed on the east side of the six foot shoal found in midstream, but this is not marked and cannot be followed easily. From this point on deeper water will be found so that the controlling depth for this section of Nassau River, developed on this sheet, is 11 feet. After passing the mouth of Pumpkin Hill Creek, continue on a due south course until 100 yards off the east bank. Hold this distance until midway between the mouths of Samples and Burton Creek, then cross over gradually and keep 100 yards off the east bank until 1/4 mile south of the sharp turn to the west, where a midstream course should be taken.

With local knowledge, 9 feet can be carried up Pumpkin Hill Creek to Edwards Creek. The southerly point separating Pumpkin Hill and Edwards Creeks is known locally as Tiger Point. The channel in Pumpkin Hill Creek above this point is quite shallow in places but the least depth is two feet at mean low water to the limits of the sheet.

From Tiger Point the Nassau River can be reached by way of Edwards and Samples Creeks. About 1 1/2 miles west of Tiger Point this stream enters a small shallow basin which has a narrow channel one foot deep through it.

Mink Creek bares at mean low water half way between Samples Creek and Nassau River.

When navigating the smaller streams follow the ebb tide bands to find the deepest water.

CHANNEL MARKS:

There are no channel marks, ranges, beacons, nor buoys in the limits of this sheet.

The character of the bottom in all channels, especially where much tidal current is found, is always hard sand. In wide stretches and shoal depths, this bottom character changes to soft mud.

CURRENTS:

The usual currents are found in this vicinity. When tidal current is flowing at a maximum, the current varies from $1\frac{1}{2}$ to 2 knots.

DANGERS:

There are no dangers except the shoals and sand bars which are characteristic of all streams in this region. There are two logs submerged at high tide in Christopher Creek on the north side about half a mile from the entrance.

COMPARISON WITH PREVIOUS SURVEYS:

In Nassau River, opposite the mouth of Pumpkin Hill Creek, the charts show a 5 foot shoal. Two soundings of six feet were obtained here. It is recommended that the 5 foot sounding be retained. The shoal about one mile up-stream has now a depth of $\frac{1}{2}$ foot where 3 feet was shown before. The least depth, about 500 meters east of the mouth of Samples Creek, is now 16 feet where it was formerly 19 feet. The least depth of 18 feet at the mouth of Burton Creek has changed to 14 feet. Christopher Creek has cut through into Nassau River and its mouth is now about 400 meters farther upstream.

see R G of Review for
disposition of 5' sdg.
YDB.

About two miles up Pumpkin Hill Creek from its mouth, there was formerly an island. This is now a shoal which bares one foot at mean low water. 300 meters above Tiger Point in Pumpkin Hill Creek, there was formerly a small island. This has disappeared and there is now a shoal with a depth of $\frac{1}{2}$ foot at mean low water. Otherwise, there are few changes in the areas covered by former surveys.

The basin in Edwards Creek had numerous islands indicated in it, but these have now disappeared.

GEOGRAPHIC NAMES:

The following names are shown on the charts and Geological Survey Maps and are still in common use:

Nassau River	Broward Islands	Starrett Creek
Pumpkin Hill Creek	Edwards Creek	Burton Creek
Black Hammock Island	Samples Creek	Back River
Christopher Creek		

They should be retained on the charts.

The following new names are shown on Geological Survey Maps and are in common use:

Henderson Landing Burton Island.

It is recommended they be adopted for use on the charts.

Mink Creek is a name in use on both the charts and Geological Survey Maps but is not in common use. However, the local inhabitants do not have a name for the stream and it is not named on County Maps. It is recommended that the name "Mink Creek" be retained. The name "Wrights Landing" appears on the Geological Survey Maps near the head of Mink Creek. This term is not in use locally and it is not recommended for adoption.

At the junction of Edwards and Pumpkin Hill Creek, there are two names in common use: Tiger Point and Edwards Flats. It is recommended they both be adopted.

It will be noted that the name Samples Creek applies to the major portion of the stream and "Starrett Creek" is but a short loop. This is in agreement with local usage as well as county and geological survey maps.

STATISTICS:

Statute miles of sounding lines	185.6
Total number of soundings	8786.
Total number of positions	1265.

MISCELLANEOUS:

By mistake the survey of the small stream north of the mouth of Christopher Creek was omitted. It is about 400 meters long and was evidently, at one time, a portion Christopher Creek. It was not considered of sufficient importance to warrant the expense of sending a party back to the vicinity.

For List of Landmarks see descriptive reports of the G. C. Sheets.

There is a small settlement on Edwards Creek, Latitude 30° 30' Longitude 81° 32.5', consisting of a few houses. There are a few small temporary docks here and small boats can be hired. The inhabitants did not have a name for the community but on the Geological Survey Maps the term "Holly Grove School" is shown in this vicinity and it could be applied to this fishing camp if desired.

At the west junction of Starretts Creek and Samples Creek, on the point named Henderson's Landing is another small fishing camp. Here there are a few small houses and two small docks.

Respectfully submitted,

James D. Shearouse
James D. Shearouse,
Draftsman, C. & G. S.

TO ACCOMPANY SHEET 15

This sheet and accompanying records have been inspected
and are approved

Hubert A. Paton

Hubert A. Paton,
Lieut. C. & G. S.,
Chief of Party.

HYDROGRAPHIC SURVEY NO. H5799

Smooth Sheet 1

Boat Sheet 1

Sounding Records 5 Vols. _____

Descriptive Report Yes

Title Sheet Yes

List of Signals Yes in Vol. 1

Landmarks for Charts (Form 567) Yes

Statistics No see pg 4 of DR

Approved by Chief of Party H. A. Paton

Recoverable Station Cards (Form 524) _____

Special Chart for Lighthouse Service
(Circular Nov. 30, 1933) _____

Remarks _____

Field Records Section (Charts)

HYDROGRAPHIC SHEET NO.5799

The following statistics will be submitted with the cartographer's report on the sheet:

Number of positions on sheet	1265
Number of positions checked	23
Number of positions revised	12
Number of soundings recorded	8786
Number of soundings revised	110
Number of signals erroneously plotted or transferred

Date:

Verification by **L. E. Ash**

Time: **10 days 4 hrs**

Review by

H. W. Murray — — — —
V. D. Behn — — — —

Time: **4 3/4**
4 1/2

Survey No. H5799

GEOGRAPHIC NAMES
FLORIDA

Date June 5, 1935

Chart No. 1243

Diagram No. 1243-2

Approved by the Division of Geographic Names, Department of Interior. ✱

Referred to the Division of Geographic Names, Department of Interior. R

Under investigation. Q

Status	Name on Survey	Name on Chart	New Names in local use	Names assigned by Field	Location
	<u>Christopher Creek</u> ✓	Same	✓		✓ 120
	<u>Back River</u>	"	✓		
	<u>Pumpkin Hill Creek</u> ✓	"	✓		✓ 175
	<u>Nassau River</u> ✓	"	✓		✓ 200
	<u>Mink Creek</u> ✓	"	✓		✓ 120
	<u>Burton Island</u> ✓		✓	Burton Island	✓ 140
	<u>Burton Creek</u> ✓	Same	✓		✓ 140
	<u>Broward Islands</u> ✓	"	✓		✓ 140
	<u>Black Hammock Island</u> ✓	"	✓		✓ 140
	<u>Tiger Point</u> ✓		✓	<u>Tiger Point</u>	✓ 100
	<u>Edwards Flats</u> ✓		✓	<u>Edwards Flats</u>	✓ 120
	<u>Edwards Creek</u> ✓	Same	✓		✓ 175
	<u>Samples Creek</u> ✓	"	✓		✓ 140
	<u>Starrett Creek</u> ✓	"	✓		✓ 120
	<u>Hendersons Landing</u>		✓	<u>Hendersons Landing</u>	

APPROVED NAMES
UNDERLINED IN RED
H. B. FLEMING

TIDE NOTE FOR HYDROGRAPHIC SHEET

June 12, 1935

Division of Hydrography and Topography:

✓ Division of Charts: Attention Mr. E. P. Ellis

Tide Reducers are approved in
5 volumes of sounding records for

HYDROGRAPHIC SHEET 5799

Locality Pumpkin Hill Creek and Vicinity, Florida


Chief of Party: H. A. Paton in 1934-1935
Plane of reference is mean low water reading
4.1 ft. on tide staff at Nassauville
17.7 ft. below B.M.

4.2 ft. on tide staff at Mink
6.8 ft. below B. M. 1

Height of mean high water above plane of reference is

5.0 feet at Nassauville; 3.9 feet at Mink.

Condition of records satisfactory except as noted below:


Chief, Division of Tides and Currents.

Verification

Report on Sheet H-5799

The records conform, in general, very well to the General Instructions. Some few discrepancies were noted which were supplied or corrected by the Verifier.

No difficulties were met in drawing in the usual depth curves. The zero, six, and twelve ft curves were supplied in the field and were satisfactory but the eighteen and thirty foot curves were omitted. These curves were supplied by the verifier.

All junctions were made and found satisfactory.

All small creeks were surveyed ✓

by landmark and shoreline locations,
therefor it was necessary to accept
the boat sheet locations "as is" in
those areas.

It will be noted that the
air photo and Topo. shorelines do not
agree. The air photo shoreline was
accepted as correct

Receipt. Submtd.

J. E. Ash

Section of Field Records

REVIEW OF HYDROGRAPHIC SURVEY NO. 5799 (1934-35) - FIELD NO. 15

Pumpkin Hill Creek and Vicinity, Nassau River, Florida

Surveyed in 1934-35

Instructions dated November 17 and December 5, 1933 (H. A. Paton)

Hand Lead Soundings.

3 Point Fixes on Shore Signals.
Positions in small creeks spotted
in reference to shoreline.

Chief of Party - H. A. Paton.

Surveyed by - G. W. Lovesee.

Protracted by - T. M. Williams and M. K. Spencer.

Soundings penciled by - M. K. Spencer.

Verified and Inked by - L. E. Ash.

1. Condition of Records.

The records are neat and legible and conform to the requirements of the Hydrographic Manual.

A number of topographic signals fall outside the high water line but do not show the features on which they are located. However, most of these fall inside or very close to the low water line and are considered to be of a temporary nature.

The "Descriptive Report" is clear and exceptionally comprehensive and satisfactorily covers all matters of importance.

2. Compliance with Instructions for the Project.

This survey complies with the instructions for the project.

3. Sounding Line Crossings.

No general system of cross lines was run but those that were, as well as the adjacent lines, show good agreement.

4. Depth Curves.

Within the limits of the survey, the usual depth curves may be satisfactorily drawn.

5. Junctions with Contemporary Surveys.

The junctions on the northwest with H-5800 (1934-35) and on the north with H-5757 (1934-35) are satisfactory.

The adjoining hydrographic survey to the south (Field Sheet #17) has not been received in the office at this date.

6. Comparison with Prior Surveys.

H-1113a (1871) and H-1113b (1871).

A comparison with these surveys indicates that some change has taken place in this area. For this reason and because of the elapsed time and the completeness of the new survey, it should supersede the above surveys for future charting. With the exception of the $5\frac{1}{2}$ foot sounding (charted as 5 feet) in lat. $30^{\circ}32.70'$, long. $81^{\circ}31.25'$, all the important shoals on these surveys have been adequately covered by the new survey. This $5\frac{1}{2}$ foot sounding originates with H-1113b (1871) on line 99 - 100q', where it falls between two 11 foot soundings. This sounding was questioned in the original records, indicating that it may have been a fathom too shoal. On the present survey it falls in an open area between depths of 8 and 9 feet, while a 6 foot shoal was found 180 meters to the south. The $5\frac{1}{2}$ foot sounding is considered doubtful but since the present development is insufficient to disprove it, the $5\frac{1}{2}$ has been carried forward. Since this sounding falls on a well defined middle ground shoaling and is not in close proximity to the channel, it is not considered of enough importance to warrant further investigation.

7. Comparison with Chart No. 577.

Soundings shown on the chart originate with surveys discussed in preceding paragraphs and need no further consideration in this review. There are no aids to navigation within the area of H-5799.

8. Field Plotting.

Field protracting and plotting are excellent.

9. Additional Field Work Recommended.

This is an excellent survey and no additional field work is required.

10. Superseding Previous Surveys.

Within the area covered, the present survey, with the indicated additions from prior surveys, supersedes the following surveys for charting purposes:

H-1113a (1871) in part.
H-1113b (1871) " "

11. Reviewed by - Harold W. Murray, August 14, 1935, and V. D. Behn,
August 16, 1935.

Inspected by - R. L. Johnston.

Examined and approved:

K. T. Adams
K. T. Adams,
Asst. Chief, Division of Charts.

L. O. Lobbat
Chief, Division of Charts.

F. Borden
Chief, Section of Field Work.

G. H. de
Chief, Division of H. & T.

Applied to drawing of Chart 577 Nov. 5, 1935 - JFW
Applied to chart 841 March 1 1936 H.C.E.

25 Jan 2, 1936
EAD