

4435

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Form 504
DEPARTMENT OF COMMERCE
U. S. COAST AND GEODETIC SURVEY

State: Florida

11-2013

DESCRIPTIVE REPORT.

Hydrog. Sheet No. (A) 4435

LOCALITY:

East Coast

Usina N. Beach to Crescent Beach,
St. Augustine Inlet & Vicinity

1924

CHIEF OF PARTY:

F. S. Borden

DESCRIPTIVE REPORT
TO ACCOMPANY HYDROGRAPHIC SHEET
NO..... (Field Letter "A")

VICINITY OF ST. AUGUSTINE INLET

Steamer BACHE. F. S. Borden, Comd'g.

**

ATTENTION

This sheet comprises the area in the vicinity of St. Augustine Inlet. It overlaps Sheet No. . . . (J.H.Hewley, 1922) to the southward, Sheet "B" to the northward and the offshore sheet of the Str. Isis to the eastward. In accordance with instructions the hydrography was carried up the Matanzas River to a point opposite Ft. Mosa and down the river to the southward, to a point below the mouth of San Sebastian Creek.

CHANGES

The extensive changes which have taken place in this inlet since the last survey are shown by the hydrography and topography. The channel now in use is shown marked by buoys which were located by the topographer. However these buoys are constantly being shifted due to changes in the channel. Since this survey was completed the sea buoy has been changed from the position shown. (See change No. 107, Notice to Mariners No. 5, dated January 30th, 1923.

The south channel is of little use as it usually breaks over the bar at low water. Owing to the steep slope of the bottom of this inlet breakers occur in seven or eight feet of water during a moderate *onsshore* breeze.

Of the new beacons shown in the inside passage, Nos. 17, 19, 20 and 24 are painter beacons while Nos. 21 and 2 are lighted beacons.

No work is being done at the present time on the partially completed bridge in the north branch of the Matanzas River. This bridge has been in its present state of completion for over eighteen months.

OBSERVATIONS No sign was found of the jetty shown on chart No. 158 as projecting in a southwesterly direction from the point on the north side of the inlet altho the lines were run close to the beach.

The most northerly and southerly of the jetties along the shore near the lighthouse have their ends submerged at half tide.

Bad snags are often carried out from the rapidly eroding shore at the southern end of Bird Island and deposited on the bar of the south channel.

LAND MARKS

St. Augustine Lighthouse and the water tower, a tall stand pipe painted silver, are the principal land marks. The Ponce de Leon Hotel towers and the Presbyterian Church dome are also prominent.

The small settlement at Usina's North Beach and Cape's North Beach may also serve as land marks as there are no other settlements along the beach.

Respectfully submitted,

Carl I. Aslakson, Aid.

C. I. Aslakson,

Approved:

F. S. Borden

F. S. Borden.

Comd'g.

Statistics for Field Sheet "A".

Date, 1924:	Letter:	Volume:	Positions:	Soundings:	Miles, Statute:	Vessels:
July 9	A	1	86	340	14.0	Motor Sailer, "A" rejected.
" 14	B	1	96	524	21.0	" "
" 15	C	1	121	706	24.0	" "
" 16	D	2	86	549	17.0	" "
" 17	E	2	91	633	17.0	" "
" 18	F	2-3	121	811	24.0	" "
" 21	G	3	131	903	24.0	" "
" 22	H	3	188	1040	31.0	" "
" 24	J	4	203	1060	29.5	" "
" 26	K	4-5	108	524	14.0	" "
" 29	L	5	246	1119	27.0	" "
" 30	M	5-6	163	775	17.3	" "
Totals:			1630	8888	259.8	

March 12, 1925.

Section of Field Records

~~Division of Hydrography and Topography~~

Division of Charts:

Tide reducers are approved in
6 volumes of sounding records for

HYDROGRAPHIC SHEET 4435

Locality: St. Augustine Inlet, Florida.

Chief of Party: F. S. Borden in 1924

Plane of reference is mean low water and is

6.5 ft. on tide staff at Cape's Dock, St. Augustine, Florida.

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 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.

ADDRESS THE DIRECTOR
U. S. COAST AND GEODETIC SURVEY

AND REFER TO No.

DEPARTMENT OF COMMERCE
U. S. COAST AND GEODETIC SURVEY

WASHINGTON

May 2, 1925.

REPORT ON VERIFICATION OF HYDROGRAPHIC SHEET 4435.

Position of three wrecks were given in the records that were not shown on the smooth sheet.

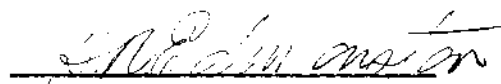
Only a few bottom characteristics were given in the records and they were given in the remarks column.

The sounding records were poorly kept.

The smooth sheet was well protracted and the time intervals carefully adhered to.

The drafting conforms to the general instructions for field work.

The beginning and ending of lines were not given in the records.



H. R. Edmonston.

DEPARTMENT OF COMMERCE
U. S. COAST AND GEODETIC SURVEY

WASHINGTON June 8, 1925.

SECTION OF FIELD RECORDS

Report on Hydrographic Sheet No. 4435

St. Augustine Inlet, Florida.

Surveyed in 1924.

Instructions dated May 8, 1924.

Chief of Party, F. S. Borden.

Surveyed by L. D. Graham.

Protracted and soundings plotted by C. I. Aslakson.

Verified and inked by H. R. Edmonston.

1. The records are defective for the following reasons:

They were carelessly written.

Only a few bottom characteristics were given and they were placed in the "Remarks" column.

Beginnings and endings of lines not given.

2. The plan and character of development conform to the requirements of the General Instructions.
3. The plan and extent of development satisfy the specific instructions.
4. The sounding line crossings are generally adequate.
5. The information is sufficient for drawing the depth curves, but on account of the small scale of the work it was difficult inside of the entrance.
6. A scale of 1/10,000 should have been used for plotting all the work inside of the entrance, as suggested in Paragraph 16 of the specific instructions.
7. The usual field drafting was done by the field party.
8. The soundings between positions 44 and 45 E day are shoal soundings extending across the channel. They were discredited by a line run on a later date and the officer in charge suggested that they should have been 2 fathoms deeper. Changes in the records like this should be made by the officer in charge as he is better acquainted with all the conditions than are those in the office who are responsible for the completion of the sheet.

9. No further surveying is required within the limits of the sheet.
10. The character and scope of the surveying and field drafting are excellent.
11. Reviewed by E. P. Ellis, June, 1925.

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DEPARTMENT OF COMMERCE
U. S. COAST AND GEODETIC SURVEY

HYDROGRAPHIC TITLE SHEET

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. "A" 4435

State . . . Florida

General locality ~~Florida East Coast~~
Usina North Beach to Crescent Beach, St. Augustine Inlet and Vicinity
Locality ~~St. Augustine Inlet~~

Chief of party . . . Frank S. Berden

Surveyed by . . . L. D. Graham

Date of survey . . . July 1924

Scale 1/20,000

Soundings in . . . Feet

Plane of reference . . . M. L. W.

Protracted by C. I. Aslakson Soundings in pencil by C. I. A.

Inked by Verified by

Records accompanying sheet (check those forwarded):

Des. report, 1 Tide books, _____ Marigrams, 1 Boat sheets,

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

Data from other sources affecting sheet

Remarks:

Applied to Chart 842 March 5, 1936 Wallace A. Bunker