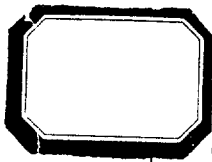


4099



Form 501

DEPARTMENT OF COMMERCE  
U. S. COAST AND GEODETIC SURVEY

State: *Georgia*

11-5613

DESCRIPTIVE REPORT.

Hyd. Sheet No. *4099*

LOCALITY:

*Doboy Sound, Ga.*

*Approaches to Doboy*

*Sound, Ga.*

*1919*

CHIEF OF PARTY:

*L. U. Potter*

4099

POST-OFFICE ADDRESS:

TELEGRAPH ADDRESS:

EXPRESS OFFICE:

4099

DEPARTMENT OF COMMERCE  
U. S. COAST AND GEODETIC SURVEY

Silmore Id

Jan 10 1921

Dear Pigg.

Owing to the long distance to mail service  
your letter was delayed in being answered.

In regards to the drag used in Doboy Sound  
it was 650 feet of wire not meters,  
which may be a mistake on Patters statement,  
600 feet effective drag instead of 600 meters.

Yours truly

F. E. Oliver

Box 36

Midland Id.

POST-OFFICE ADDRESS: C. & G. Survey Str. Onward, Savannah, Ga.

TELEGRAPH ADDRESS: do.

EXPRESS OFFICE: do.

DEPARTMENT OF COMMERCE  
U. S. COAST AND GEODETIC SURVEY

DESCRIPTIVE REPORT TO ACCOMPANY  
HYDROGRAPHIC SHEET No. 4099

1. This sheet, on a scale of 1:20000, covers the approaches to Doboy Sound from a little inside the entrance out to the thirty foot curve and all shoals and flats on either side of the channel as far north as Latitude 31-23-30 and as far south as Latitude 31-19. This work was done between Oct. 13 and Dec. 24, 1919, under orders dated Aug. 1, 1919. The operations were hampered throughout the season by rough and foggy weather. Considerable trouble was experienced in executing the hydrography due to strong and irregular currents.

2. Survey Methods,- Usual methods of launch and ship hydrography were used except for one half day in search for a charted 6 foot spot SW by S of Can Buoy No. 5.

3. Tides,- An automatic tide gauge was operated throughout the period of the work at the mouth of the small creek leading to Sapelo Light House. Five bench marks were established in connection with this station. In accordance with orders, tides were read for a period of 50 consecutive hours, and for an additional period of 16 hours on a temporary staff in the vicinity of the bar. An approximate comparison of these readings with those at Sapelo Light House showed little difference, and the tides at Sapelo Light House were therefore used for the reduction of the entire work. Tidal observations on the bar were recorded in the current book.

4. The staff used on the bar consisted of a vertical timber weighted on the bottom by pig iron lashed firmly to it to hold it down, and held vertical by four lines leading to anchors. The staff remained in a vertical and rigid position throughout the observations.

5. Bars and Channels,- The present buoyed channel across the bar is still the main channel. The least depth in it was about 11 feet on the outer bar, and 10 feet on the inner bar. A six foot spot found on the previous survey 600 yards SW by S of buoy No. 5, was searched for by lines spaced very closely across it, and run in three directions. A drag 600 meters long, set to an effective depth of 11 1/2 feet was also passed over the spot. No indication of a shoal was found in this vicinity, the least round depth being about 13 feet.

A second unmarked channel across the bar, leading east-northeastward from buoy No. 5, has a depth of about 9 1/2 feet, with less water close to it.

The channel leading into Doboy Sound close along the North side, has a depth of about 8 feet, unmarked, but is extensively used by local boats drawing up to 6 feet.

*See photostat of letter attached - A. J. S.*

DESCRIPTIVE REPORT TO ACCOMPANY

HYDROGRAPHIC SHEET No.---

6. Channel Buoys,- The buoys in this channel are not correctly placed to mark the best water as found by the survey.

7. Changes Found,- Few important changes in the location and depths on the shoals were found, the most important being the disproving of the 6 ft. sounding described above. This will enable the channel to be straightened and its running considerably simplified. About 1 foot more water was found across the bar than was found on the previous survey.

8. The 29 ft. spot on position 35-G, and the 30 ft. spot near 58-G, near the eastern limit of the work, were not properly developed. From Dec. 17 to Dec. 24, on account of unfavorable weather, no opportunity to develop these shoals occurred, although the vessel was standing by during this time for the purpose of doing the work. The work was closed and the vessel left for Savannah on the afternoon of Dec. 24, as, in my opinion, the importance of these shoals did not justify further delay.

9. Currents,- Current observations were made for 50 consecutive hours and for an additional period of 16 hours, at a station near the bar, indicated on the smooth sheet. These observations were made simultaneously with tidal observations mentioned above. Currents were also observed simultaneously, at a station in the middle of the channel just inside the entrance, as indicated on the smooth sheet. The tidal observations were recorded in the current book for that station.

10. Prominent Objects,- There are no new prominent objects not already charted. Club House, a prominent object charted, has been undermined and has fallen to the ground and will in time fall to pieces and disappear.

11. Coast Pilot,- Water may be had from an artesian well at Doboy Island, procurable with small boats and also at Sapelo Light House procurable with boats drawing 3 feet or less. Good anchorage may be had in 18 feet of water on range with Old and New Sapelo Light Houses and about 600 meters from shore. This anchorage is exposed to easterly winds and a better anchorage may be had in North River sheltered by Doboy Island. Towboats are obtainable only from Brunswick. The only business across the bar is an occasional barge, loaded with lumber. With the exception noted, the description of Doboy Island in Coast Pilot, Section D, is correct

*L. A. Potter.*

L. A. Potter, H. & G. Engineer,  
Chief of Party.

POST-OFFICE ADDRESS: O. & G. Survey Str. Onward, Savannah, Ga.

TELEGRAPH ADDRESS: de.

EXPRESS OFFICE: de.

DEPARTMENT OF COMMERCE

U. S. COAST AND GEODETIC SURVEY

STATISTICS SHEET No. -----

-----ooc-----

Date 1919	Let- ter	Vel- ume	Posi- tions	Sound- ings	Miles Statute	Vessel
Oct. 20	g	1	58	235	7.5	Navy Launch.
" 21	g	1	42	161	6.0	" "
" 22	c	1	182	952	27.0	" "
" 23	d	1&2	170	1020	26.5	" "
" 24	e	2	92	473	14.5	" "
" 27	f	2	62	378	9.8	" "
" 28	g	2&3	195	1560	33.3	" "
" 29	h	3	148	1036	27.5	" "
Nov. 3	i	3	62	496	10.8	" "
" 4	h	3&4	173	1344	28.5	" "
" 4	l	5	30	30	0.3	Dory "
" 5	on	4	43	344	7.8	Navy Launch
" 6	n	4	114	570	19.5	" "
" 7	p	4	34	271	7.5	" "
" 12	q	4&5	152	1520	35.8	" "
" 12	A	8	134	698	32.8	Steamer Onward
" 13	B	8	190	808	37.0	" "
" 13	N	5	165	1320	27.6	Navy Launch
" 24	v	5&6	67	528	15.0	" "
" 25	t	6	148	1037	30.0	" "
" 26	u	6	140	1077	30.5	" "
Dec. 3	C	8	20	65	1.5	Str. Onward.
" 3	v	7	27	108	2.5	Navy Launch
" 5	D	8	7	25	1.5	Str. Onward
" 5	w	7	18	126	4.2	Navy Launch
" 9	x	7	10	71	1.5	" "
" 6	E	8	17	75	3.1	Str. Onward
" 17	y	7	90	725	17.1	Navy Launch
" 18	z	7	60	483	9.5	" "
" 24	a	7	62	399	12.2	" "
" 9	F	9	46	215	9.8	Str. Onward
" 24		9	10			Dory Launch, Wire Drag Work.
" 17	G	9	80	352	17.0	Str. Onward

Total..... 2848 : 18502 : 526.1 :

AND REFER TO NO.

41-EMK

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

June 4, 1920.



Division of Hydrography and Topography:

Division of Charts:

Tidal reductions are approved in  
9 volumes of sounding records for

HYDROGRAPHIC SHEET 4099

Doboy Sound Approach, Georgia.  
L. A. Potter in 1919.

Plane of reference is  
Mean low water, reading

3.2 ft. on tide staff at Sapelo Lighthouse, Ga.

Condition of records, satisfactory.

A handwritten signature in cursive script, appearing to read "G. Stude".

Chief, Section of Tides  
and Currents.

Forwarded:

A handwritten signature in cursive script, appearing to read "W. A. Barber".

Chief, Div. of Hyd'y and Top'y

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

SECTION OF FIELD RECORDS.

Report on Hydrographic Sheet 4099. | Surveyed in 1919.  
Chief of Party: L. A. Potter. | Surveyed by party of Str. Onward.  
Protracted by Field Party. | Soundings plotted by Field Party.  
Verified and inked by H. E. MacEwen and E. K. Ellis.

1. The records conform to the requirements of the General Instructions, except that no information is given as to the locations of beginnings and endings of sounding lines.
2. The plan and character of development fulfill the requirements of the General Instructions.
3. The plan and extent of the development satisfy the specific instructions.
4. The sounding line crossings are, in general, adequate.
5. The information was sufficient to enable the depth curves to be completely drawn, except at the mouth of Back River.
6. The field plotting was completed to the extent prescribed in General Instructions.
7. The office draftsman did not have to do over any part of drafting done by the field party.
8. The hydrography from overlapping sheets was not shown to avoid confusion.
9. No further surveying is required in the area covered by this sheet.
10. The position numbers were not inked as frequently as called for by General Instructions. They were placed so close to the positions that they were covered up by the soundings.
11. The character and scope of the surveying and field drafting are excellent.
12. Reviewed by E. P. Ellis on Dec. 15, 1920.
13. Two copies of this report to be sent to Hydrography and Topography Divisions

Section of Field Records.

Sheet No. 4099

Surveyed in 1919

Report — on Hydrography

Chief of Party - L. A. Patten

Surveyed by - Field Party

Sounding plotted by - Field Party.

Topography inked by - Field Party.

Protracted by - Field Party.

Verified and inked by - H. MacEwen

1. The records conform to the requirement of the general instructions. Work clearly done. Only defect - the omission of notes marking change of ship's course. In some cases the boat's head by compass was properly noted.
2. The plan and character of development fulfils the requirement.
3. Ground is sufficiently well developed satisfies entirely requirement set forth in specific instructions.
4. Sounding crossing an adequate
5. Usual depth curves can be completely drawn. Close development of some areas cause some difficulty - not appreciable.



6. Field plotting was completed to proper extent. No omissions.

7. Not necessary to do over any part of field work (drafting)

8. Sheet well developed and area well covered  
further surveying  
not necessary.

9. Remarks:

In most cases the day and position symbols and numbers are placed so near the position of the sounding as to be totally or partially obliterated when <sup>sounding is</sup> inked.

Field Party did not always designate in the sounding records the changes in the course of sounding lines.

10. Rating - Character and scope - Excellent;  
- Field drafting Excellent

Remarks: - Reductions for tide caused slight changes in plotting of soundings as done by the field party.

H. MacEwen

Red nun #4A	—	Oct. 23	1919
Red nun #6	—	Oct 22	1919
Black Can #5	—	Oct 23	"
Black Can #3A	—	"	"
" " #3B	—	"	"
" " #3	—	"	"
Black Can #5	—	Oct 24	"
Black Can #3	—	Nov. 4	"
Black Can #1	—	"	"
Red Nun	—	Nov. 12	"
" " (Sea Buoy)		Dec 9	"
Red Nun #6	—	no date between Dec 18 + Dec 24	

Date of determination of buoys —

Hyd 4099

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. 4099

State . . . Georgia, . . . . .

General locality . Doboy Sound, . . . . .

Locality . Approaches to Doboy Sound, . . . . .

Chief of party . . L. A. Potter, . . . . .

Surveyed by Ship work by L. A. Potter, Launch work by F. E. Okeson,  
small amount by W. F. Malnate.

Date of survey . Oct. 13 to Dec. 24, 1919. . . . . .

Scale . . . . 1:20000 . . . . .

Soundings in . feet . . . . .

Plane of reference . mean low water . . . . .

Protracted by . W. F. M. Soundings in pencil by W. F. M.

Inked by . . . . . Verified by . . . . .

Records accompanying sheet (check those forwarded):

Des. report, ..... Tide books, .....3 Marigrams, .....2 Boat sheets,

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

Data from other sources affecting sheet none . . . . .

Remarks: Tides on staff near bar recorded in current book.  
Tides at Sapelo Light House used for reduction of soundings.