

Diag. Cht. No. 1239- 2

FORM 504 DEPARTMENT OF COMMERCE U. S. COAST AND GEODETIC SURVEY
State X. Carolina
DESCRIPTIVE REPORT.
Hydrosheet No. 41711
LOCALITY:
Bull Bay -
Raccom Key to
Price Inlet
!
1994
OHIEF OF PARTY:
7. S. Borden

Duplicate

DESCRIPTIVE REPORT

TO ACCOMPANY

HYDROGRAPHIC SHEETS

B"

CHANGESTON ENTRACE TO PRICE INLET

LAUNCH ELSIE JUNE-OCTOBER 1921

> F.S. BORDEN CHIEF OF PARTY

EXTENT. This report covers the hydrographic work done by the party on the launch ELSIS between Charleston S.C. and Raccon Key. The work adjoins the off-shore survey of the Str. Bache on the eastward and the work of the Launch MIKAWE to the southward. It includes surveys in all of the inlets on this section of the coast.

CHANGES SINCE THE LAST SURVEY. The principal changes are those in the inlets and over the bars at the entrance to the inlets. The more important changes are described in detail as follows:

more important changes are described in detail as follows:

(1) Rattlesnake shoal now has a least depth of nine feet. In addition to the lines run over this shoal which are shown on the sheet, considerable sounding was done without recording to find the least depth. Nothing less than nine feet was found.

(2) Breach Inlet is practically closed up. The draw in the bribridge is now untended. Only row boats ever go out over the bar.

(5) There is now a least depth of about six feet at low water over the bar at Dewees Inlet. This inlet is by far the best of the inlets between Charleston and Bull Bay. It is very little used however except by local fishermen. The party on the Launch ELSIE worked considerably from this inlet.

(4) There is about six feet of water over the Caper's Inlet bar but the entrance is narrow and there are many shouls spots inside the the bar which are dangerous because the seas do not break over them. The channel inside the bar is very narrow and is very close to the breaker line. In addition to the lines shown on the sheet a sounding line was run very close to the breakers in what is the only channel. There is nine feet on this line along side the breakers out as far as the bar where it drops to six feet.

(5) There is also six feet over the Price Inlet bar. The channel here parallels the breaker line. The entrance however is very narrow.

- now about 10 1/2 feet over the bar instead of 15 as shown on the present chart. A shoal has built up off the east end of Bull Island. This shoal is about a quarter of a mile from the point and has a depth of two feet over it. It is very close to the channel but can always be identified by the breakers. A more direct passage into Bull Harbor and one that has the same amount of water is to enter on an west course with the east entrance point of Bull Island dead ahead. It is believed that the sea bucy should be moved from is present position to a point three miles west of the east end of Bull Island. A direct course from the bucy to the point would take a vessel in the best water obtainable over the bar.
- (7) Bull Bay proper has shoaled up considerably since the last survey. Several small island have built up in the middle of the Bay. Back of these islands only a half a foot of water can be carried from Bull Harbor to Harbor River. At high tide however boat drawing three and four feet can cross here. Many boats take advantage of the tides and cross Bull Bay to avoid the long trip through the inside passage.
- (8) There is now a depth of 7 feet over the bar and into Five Fathom Creek. This has deepened from the three feet shown on the present charts.

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See My

ANCHORAGES. From observation made during the season the best anchorages in the area covered by this sheet are as follow:

- In Bull Greek 300 meters west of Harrison's Wharf and just south of the small island which occupies the middle of the change!
- 2. Price Inlet. In Price Creek just south of where the inside passage crosses the creek.
- 3. Dewees Inlet. In Dewees Creek at the mouth of the small creek which divides Dewees Island from the marsh island to the westward.

These anchorages apply to small vessels only. For larger vessel good anchorage ground can be found in Bull Harbor just off the entrance to Jack's Greek.

INSIDE ROUTE. The inside passage from Charleston to the limit of the work covered by this survey is supposed to have a minimum depth of four feet. Except in a few places this depth is being maintained at the present time. The most difficult places in the inside passage at the present time are as follows:

- I. Saltpond Creek. The upper part of the Creek is very tortucus and has several places in it where it has shouled to less than four feet.
- R. Santee Pass. At the third bend from Price Creek and at the point where the passage approaches Mark Bay the passage has shoaled to three feet. The bottom here however is extremely soft and boats drawing four feet have no difficulty in going through.
- 5. Bullyard Sound. Abreast beacone Nos. 24 and 26 the dredged out has shoaled to 3 1/2 feet.
- 4. Sullivan's Narrows. Although there is four feet through Sullivan's Narrows the passage is difficult on account of the mud banks which have built out and which are covered at half tide. In going through Sullivans Narrows the ebb tide bend should be very closely followed.

METHODS EMPLOYED. All sounding in this area was done by the launch ELSIE and the 24 foot motor sailing launch. Soundings as a rule were taken every fifteen seconds in water up to three fashous and every twenty seconds up to five fathous. The average speed was six miles an hour.

Respectfully Submitted,

JS Borden.

SHEET TO ACCOMPANY SHEET "B" PRICE INLET TO RACOON KEY, 5 C.

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			TOTALS	1605	15224	474.7	

Dec. 21, 1921.

Division of Hydrography and Topography:

Division of Charts:

Tide Reducers are approved in volumes of sounding records for

HYDROGRAPHIC SHEET

Locality:

Bull Bay, South Carolina.

Chief of Party: F. S. Berden in 1921

Plane of reference is

mean low water, reading

ft. on tide staff at

Dewsem Inlet, off Dewses Island.

" Harrison's Wharf, Bull Island.

Condition of records:

Chief, Division of Tides and Currents.

The words for this short were pept in excellent order-attaction being paid & all details necessary for good plotling.

The protecting and plotling of poundings was also well done.

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Respetfelly submitted, alors Back Oraflamen. AND REFER TO NO. 4-MEM

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

SECTION OF FIELD RECORDS

REPORT ON HYDROGR. PHIC SHEET No. 4179.

Surveyed in 1921.

Chief of Party: F. S. Borden

Soundings plotted by G. H. Everett

Surveyed by F. S. Borden and R. D. Horne. Verified and inked by A. Baer.

Protracted by G. H. Everett and WmF. Malnate.

- 1. The records conform to the requirements of the General Instructions.
- 2. The plan and character of development fulfill the requirements of the General Instructions.
- 3. The plan and extent of development satisfy the specific instructions. It should be noted, however, that line 65 to 66 F day containing soundings of 13 feet, the accuracy of which are confirmed by a 13 foot sounding on 3761, indicate the probability of shoaler water and the shoal should have been developed.
- 4. The sounding line crossings are adequate.
- 5. Considerable difficulty was experienced in drawin; the curves owing to the sparse development. With the exception of the spot noted in par. 3 it is believed that all the essentials are shown.
- 6. The field plotting was completed to the extent prescribed in General Instructions.
- 7. The low water line, which is the dominating feature of Bull Bay, was transferred from the boat sheet and inked in without regard to the soundings on the smooth sheet. Nearly all of it had to be erased and changed to conform to the soundings.
- 8. The junctions with adjacent sheets are satisfactory.
- 9. No further surveying is required within the limits of the sheet except possibly the shoal noted in par. 3 (which is one-half mile west of H. S. mun buoy.)
- 10. The character and scope of the surveying are excellent. The field drafting is excellent except for the poor judgment shown in inking the low water line in Bull Bay.
- 11. Reviewed by E. P. Ellis, February, 1922.

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. 417.) Field Letter "B"
State South Carolina
General locality
Locality Price Inlet to East Entrance Point Bull Day.
Chief of party
Surveyed by . F.S. Borden and M. Leff R.D. Horne
Date of survey August - October, 1921
Scale 1 : 20000
Soundings in
Plane of reference . M.L.W
Protracted by G.H.Everett . Soundings in pencil by
Inked by . A. Ball Verified by A. Ball
Records accompanying sheet (check those forwarded):
Des. report, 1 Tide books, Marigrams, Boat sheets,
10. Sounding books, Wire-drag books, Photographs.
Data from other sources affecting sheet
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Remarks:

* Descriptive Report also covers Sheet "A"
Four tide books also cover Sheet "A"