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U. S. COAST & GEODETIC SURVEY
LIBRARY AND ARCHIVES

MAY 22 1935

Ac. No.

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

DESCRIPTIVE REPORT

Topographic }
Hydrographic } Sheet No. GG

State South Carolina

LOCALITY

Bull Bay, ~~McClellanville~~, S.C.

Northeastern Part

1935

CHIEF OF PARTY

[Signature]

U.S. GOVERNMENT PRINTING OFFICE: 1934

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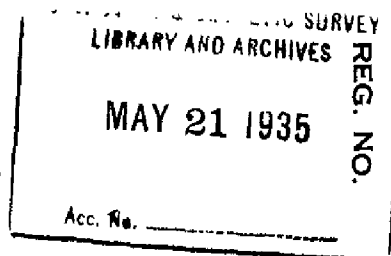
CHIEF OF PARTY

Benjamin H. [Signature]

U. S. GOVERNMENT PRINTING OFFICE: 1934

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DEPARTMENT OF COMMERCE
U.S. COAST AND GEODETIC SURVEY



TOPOGRAPHIC TITLE SHEET

The Topographic Sheet should be accompanied by this form, filled in as completely as possible, when the sheet is forwarded to the Office.

Field No. GG

REGISTER NO. **T6292a**

State South Carolina

General locality Bull Bay, ~~McCollumville, S. C.~~

Locality ~~Bull Bay~~ Northeastern Part

Scale 1/10,000 Date of survey January, 1935

Vessel Party No. 19

Chief of party Benjamin H. Rigg

Surveyed by Wm. Rude Jackson

Inked by Wm. Rude Jackson

Heights in feet above.....to ground to tops of trees

Contour, Approximate contour, Form line interval.....feet

Instructions dated October 10, 1933

Remarks:.....

OUTLINE

1. INSTRUCTIONS
2. PURPOSE OF SURVEY
 - A. Hydrographic Control
 - B. Location of Aids to Navigation
 - C. Location of Engineers' Stations
 - D. Location of Bird Refuge Permanent Marks
 - E. Topographic Detail for use in Air Photo Compilation
3. LIMITS OF SHEET
4. DESCRIPTION OF TERRITORY
5. CONTROL
6. SURVEYING METHODS USED
7. PERMANENT STATIONS ESTABLISHED
8. AIDS TO NAVIGATION
9. LANDMARKS AND NAMES
10. TOPOGRAPHIC FEATURES LOCATED FOR USE IN AIR PHOTO COMPILATION

DESCRIPTIVE REPORT TO ACCOMPANY
ALUMINUM MOUNTED CONTROL SHEET GG

INSTRUCTIONS

The survey was carried out under orders dated October 10, 1933, also Director's letters 22 Mg 1990 (19), 26- AHH 293, and circular letter No. 30.

PURPOSE OF SURVEY

The purpose of the survey was to establish hydrographic control for the development of Harbor River, a portion of Bull Bay, and the mouth of Five Fathom Creek; to locate all aids to navigation; to locate U.S.E.D. stations along the new Intracoastal Waterway; to tie in with the 2" iron pipes of the Cape Romain Sanctuary; and to locate topographic detail for use in the Air Photo Compilation.

LIMITS OF SHEET

Topography includes the sandy point at the East mouth of Five Fathom Creek, a portion of the islands at White Banks, and the territory around Harbor River. Lat. $32^{\circ} 59'$ to Lat. $33^{\circ} 03'$; Long. $79^{\circ} 29.5'$ to Long. $79^{\circ} 34.3'$.

DESCRIPTION OF TERRITORY

The territory is mostly marshy except for the sand beach and sand dunes at the east mouth of Five Fathom Creek and the highland to the N.W. of Upper Harbor River and the new Intracoastal Waterway.

CONTROL

The following triangulation stations were used as control on sheet

GG;	East Gable Shellmore Oyster Factory 1934
	U.S.E.D. More 1934
	Bird 1934
	Harbor 1934
	Coon 1924

SURVEYING METHODS USED

All hydrographic signals were located by at least three cuts taken from control stations where possible. The survey was carried to completion

from set-ups located by re-section and three point fixes. One traverse was run from E. gable of Oyster Facotry to the western limit of the sheet. This traverse was tied in to a traverse run on sheet FF. An adjustment of four meters was made.

PERMANENT STATIONS ESTABLISHED

A. U.S.E.D. Stations. -- The following U.S.E.D. reference Marks were located on sheet GG:

U.S.E.D.	Ref. Marks	A & B.	252+66.87N
"	"	"	207+39.43 N
"	"	"	177+84.73 N
"	"	"	171+00.00 N
"	"	"	152+75.00 N
"	"	"	106+00.00 N
"	"	"	229+73.15 N

Descriptions of these stations on form 524 accompany the sheet.

För a further discussion of U.S.E.D. Reference Marks, see the descriptive report on sheet PP. These pipes were designated with the letter "D" on the sheet.

B. Pipes, 2" - U.S. Biological Survey -- The following 2" pipes put down by the U.S. Biological Survey were located at their request. The pipes were not considered as permanent stations because they are in a poor state of preservation and will be gone in a short time:

Pipe 3-G	33° 01'	22.0 (1826.4)	21 1735
	79 30	1079.3 (478.0)	1025 454
Pipe 2-G - Rab	33 01	995.9 (852.5)	946 810
	79 32	713.1 (844.2)	677 802
Pipe 1-G - Bark	33 01	907.4 (941.0)	802 894
	79 32	1461.8 (94.5)	1389 90

AIDS TO NAVIGATION

Aids to Navigation falling on sheet GG consist of lighted and unlighted beacons along the new Intracoastal Waterway. Beacons 53,55, 57, and 59 were located by taking a round of angles at the beacon. The record book containing these angles is forwarded with the sheets. These beacons were checked using ordinary plane table methods. Beacons 57 and 59 were located by relatively weak sextant fixes and the planetable position

was accepted as correct.

A description of these beacons on form 567 accompanies the sheet.

LANDMARKS AND NAMES

There are no additional landmarks or new names to be added in this area.

TOPOGRAPHIC FEATURES LOCATED FOR USE IN AIR PHOTO COMPILATION

All of the islands in Bull Bay that fall on this sheet were located as an aid to photo compilation. The high water line at strategic points along Harbor River and the new Intracoastal Waterway near the Shellmore Oyster Factory was run as a check on radial plot. Slight differences were found between the Air Photo Compilation and the topography. The air photo compilation was changed to agree with the topography. Rod readings are shown in all cases by dots in breaks in the shoreline. Fifteen and seven tenths statute miles of shoreline were rodded in.

Respectfully submitted,

W. R. Jackson

W. R. Jackson,
Surveyor

Forwarded by,

Benjamin H. Riggs
Lt. Benjamin H. Riggs

Chief of Party.

REVIEW OF GRAPHIC CONTROL SURVEY T-6292a, SCALE 1/10,000Date of Review *Sept. 13, 1935*

1. This survey has been reviewed in connection with Air Photo Compilation Nos. T-5390, , with particular attention to the following details:

- (a) Projection has been checked in the Field. ✓
- (b) Accuracy of location of plane table control points.
- (c) Discrepancies between detail on this survey and the air photo compilations listed above *in Disc Report review T-5390.*
- (d) Discrepancies found in descriptions submitted on Form 524 when compared with the air photo compilations listed above. *OK.*

2. Refer to the reviews and descriptive reports of air photo compilations Nos. T-5390, , for a more complete discussion of any errors or discrepancies found.

Any material errors found on this survey are noted in subsequent paragraphs of this review, and these have been reported to the Field Records Section and the Cartographic Section. *none*

Notes and corrections resulting from the review are shown on this survey in green. *none*

Leonard A. McSauer
September 13, 1935.

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R. S. PATTON, DIRECTOR

DESCRIPTIVE REPORT

Topographic }
Hydrographic } Sheet No. HH

State South Carolina

LOCALITY

Raccoon Key, ~~Key Creek~~, N.E. Shore
of Bull Bay
~~McClintockville~~, S.C.

Romain River to Bull Bay

1935

CHIEF OF PARTY

James H. ...

U. S. GOVERNMENT PRINTING OFFICE: 1934

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DEPARTMENT OF COMMERCE
U.S. COAST AND GEODETIC SURVEY

TOPOGRAPHIC TITLE SHEET

U.S. COAST & GEODETIC SURVEY
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MAY 21 1935

REG.
NO.

Acc. No.

The Topographic Sheet should be accompanied by this form, filled in as completely as possible, when the sheet is forwarded to the Office.

Field No. HH

REGISTER NO. **T6292 b**

State South Carolina

General locality Raccoon Key

Locality Romain River to Bull Bay

Scale 1/10,000 Date of survey January, 1935

Vessel Party No. 19.

Chief of party Benjamin H. Rigg.

Surveyed by Wm. Rude Jackson

Inked by Wm. Rude Jackson

Heights in feet above.....to ground to tops of trees

Contour, Approximate contour, Form line interval.....feet

Instructions dated Oct. 10, 1933

Remarks:.....

OUTLINE

1. INSTRUCTIONS.
2. PURPOSE OF SURVEY.
 - A. Hydrographic Control.
 - B. Location of Aids to Navigation.
 - C. Location of Bird Refuge Permanent Marks.
 - D. Topographic Detail for use in Air Photo Compilation.
3. LIMITS OF SHEET
4. DESCRIPTION OF TERRITORY.
5. CONTROL
6. SURVEYING METHODS USED
7. PERMANENT STATIONS ESTABLISHED
8. AIDS TO NAVIGATION
9. LANDMARKS AND NAMES
10. TOPOGRAPHIC FEATURES LOCATED FOR USE IN AIR PHOTO COMPILATION

DESCRIPTIVE REPORT TO ACCOMPANY
ALUMINUM MOUNTED CONTROL SHEET HH

INSTRUCTIONS

The survey was carried out under instructions dated October 10, 1933, also Directors letters 22 Mg 1990 (19), 26-AHH 293, and circular letter No. 30.

PURPOSE OF SURVEY

The purpose of the survey was to establish hydrographic control for the development of Five Fathom Creek, Day Creek, Romain River, and the other streams entering them, to locate Aids to Navigation, to tie in with the 2" iron pipe markers of the Wild Life Refuge on the Cape Romain Sanctuary, and to locate topographic detail for use in the Air Photo Compilation.

LIMITS OF SHEET

Topography includes Raccoon Key, the territory around Romain River, and the lower portion of Five Fathom Creek, Lat. $39^{\circ} 00'$ to Lat. $33^{\circ} 03'$, Long. $79^{\circ} 25'$ to Long. $79^{\circ} 29.8'$.

A small corner or triangular part of the sheet includes the N.E. shore of Bull Bay and a portion of White Banks, Lat. $33^{\circ} 00'$ to Lat. $33^{\circ} 02.5'$, Long. $79^{\circ} 29'$ to Long. $79^{\circ} 30.8'$.

DESCRIPTION OF TERRITORY

The entire territory is marsh except for the sand beach along the coast of Raccoon Key. The marsh is covered with thick marsh grass about 4 feet high. The marsh is cut up with winding creeks. The shoreline along the N.E. shore of Bull Bay was very indefinite due to the gradual thinning out of the marsh grass caused at places by a growth of oysters in the edge of the grass. The general outline of the grass and the oyster ridge was followed in running the shoreline.

CONTROL

The following triangulation stations were used as control on sheet

HH:

Nellie 1934
Rom 1934
Key 1934
Rain 1934
Raccoon 1934
Coon 1924

On the triangular portion of the sheet the following stations were used as control.

Long 1934
Five Fathom 1934
Coon 1924

SURVEYING METHODS USED

Hydrographic signals were out in from control stations wherever possible. The high and low water lines were run in from control stations and from set-ups located by re-section or by the three point problem. All signals were located by at least three strong cuts or two cuts and a stadia distance. On the triangular portion of the sheet the high water line was run in by means of a combination of a stadia traverse from triangulation station Five Fathoms and LONG. This traverse checked out well within the allowable error.

PERMANENT STATIONS ESTABLISHED

A. Two inch Pipes, U.S. Biological Survey -- The following pipe, put in by the U.S. Biological Survey was located at their request: It was not treated as a permanent station because of its being in a poor state of preservation.

Pipe 1-H	33° 01'	102.2	(1746.2)	97	1657
	79 29	981.0	(576.3)	432	547

B. Other Permanent Stations -- No other permanent stations were established on sheet HH.

AIDS TO NAVIGATION

Red Beacon No. 2 at the junction of Sett Creek and Romain River has been removed since the dredging of the New Intracoastal Waterway. No other Aids to Navigation fell within the limits of the sheet.

LANDMARKS AND NAMES

There are no landmarks in this area. There is one name that should be omitted. The name "Clark Creek" appears on the chart twice in the area covered by this sheet. The one that should be omitted is the one on Key Creek. This creek extends from Five Fathom Creek to Romain River and should not have the name "Clark Creek" on it. Refer to sheet LL for authorities.

TOPOGRAPHIC FEATURES LOCATED FOR USE IN AIR PHOTO COMPILATION

Portions of the high water lines were run at various places as a check on the radial plot. The shoreline along the indefinite beach was also run as an aid to photo compilation.

Every portion of shoreline run checked with the Air Photo Compilation and no adjustment was necessary. Rod readings are shown by dots in breaks in the shoreline.

On the triangular portion of the sheet the shoreline was run between triangulation stations FIVE FATHOM and LONG and transferred to the air photo compilation. Fifteen and five tenths miles of shoreline were run in.

Respectfully submitted,

W. R. Jackson
W. R. Jackson,
Surveyor.
Forwarded By,

Benjamin H. Rigg
Lt. Benjamin H. Rigg
Chief of Party.