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Form 504 Rev. Dec. 1933 DEPARTMENT OF COMMERCE U.S. COAST AND GEODETIC SURVEY R. S. PATTON, DIRECTOR	
DESCRIPTIVE REPORT	
Topographic Hydrographic	Sheet No. I & L
Graphic Control	
State South Carolina	
LOCALITY	
St. Helena Sound	
(I) Ashe Island	
(L) Hutchinson Island	
1934	
CHIEF OF PARTY	
R.P. Eymen	

DEPARTMENT OF COMMERCE
U. S. COAST AND GEODETIC SURVEY

REG. NO.

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. I

REGISTER NO. **4928a**

State South Carolina

General locality St. Helena Sound

Locality ~~Cosaw River~~ Ashe Island

Scale 1:10,000 Date of survey May, 1934

Vessel M.V. Natoma

Chief of party Raymond P. Eyma

Surveyed by John C. Bull

Inked by _____

Heights in feet above _____ to ground to tops of trees

Contour, Approximate contour, Form line interval _____ feet

Instructions dated November, 1933

Remarks: This sheet destroyed by fire aboard Natoma. A tracing

used to transfer signals to boat sheets was saved and is being forwarded to office.

...

L.R. rec'd in office Sept 17, 1934

D E S C R I P T I V E R E P O R T
T O A C C O M P A N Y
T O P O G R A P H I C S H E E T N O. " I "
C O O S A W R I V E R, S O U T H C A R O L I N A
1 9 3 4

INSTRUCTIONS:

Instructions for Project HT-159, November 2, 1933 were followed throughout.

PURPOSE
OF TOPOGRAPHY:

The topography of this area was to furnish control for hydrography and aerial photographs. Only small areas around points that could be spotted on the photographs are shown in detail.

METHOD:

The usual plane-table methods of surveying were used. All topographic signals were located by cuts from triangulation stations, located intersection stations, and resection.

EXTENT:

This sheet comprises a survey of the area between and including Coosaw River, mouth of Combahee River, Rock Creek, and small creek joining Combahee River and Rock Creek. This sheet is a survey of the area between latitudes $32^{\circ} 28.5'$ and $32^{\circ} 31.7'$, longitudes $80^{\circ} 26.8$ and $80^{\circ} 31.7$.

DESCRIPTION:

The area surveyed on this sheet is comprised of marsh islands, rivers, and creeks. This survey includes Coosaw River from about 0.6 miles west of the mouth of Combahee River to the mouth of Rock Creek, the mouth of Combahee River, Rock Creek from the mouth 2.5 miles north-west to a small creek leading west, this small creek from Rock Creek to the Combahee River. Most of this area has no definite high water line. This being the case the rivers and creeks are delineated by

the edge of the marsh grass which has grown over the mud flats to what forms the banks of the rivers and creeks.

AERIAL PHOTOGRAPHS:

Aerial photographs were used in connection with the topography. No attempt was made to delineate the shore line except at set-ups that could be definitely spotted on the photographs. These small areas were shown in detail to assist the compilation party in compiling the shore line for the finished charts.

CONTROL:

The control for this sheet consists of second, third, and fourth order triangulation established by this party in 1933 under Project HT-126, December 23, 1932.

NAMES:

No new names appear on this sheet.

MAGNETIC DECLINATIONS:

Magnetic meridians were taken at triangulation stations CENTRAL 1933 and HUTCHINSON 2, 1933.

ALUMINUM BACKED SHEETS:

An aluminum backed sheet was used and found to be very satisfactory in every respect.

LANDMARKS:

No landmarks of sufficient prominence for charting appear on this sheet.

STATISTICS:

Area in square statute miles - - - - - 9.0

Respectfully submitted,

John C. Bull
John C. Bull,
Aid.

Approved and forwarded;

Jack C. Simmons
Jack C. Simmons,

Chief of Party, Commanding Ship NATOMA

TOPOGRAPHIC SIGNALS - SHEET "I"

Page 1.

	Latitude			Longitude		
	°	'	meters	°	'	meters
ART ✓	32	30	1542 ✓ (306)	80	31	291 ✓ (1275)
ADD ✓	32	31	318 ✓ (---)	80	28	392 ✓ (1174)
AT ✓	32	31	215 ✓ (---)	80	28	865 ✓ (701)
AX ✓	32	31	717 ✓ (---)	80	28	1065 ✓ (501)
BAN ✓	32	29	1103 ✓ (745)	80	31	179 ✓ (---)
BAR ✓	32	30	993 ✓ (855)	80	28	1174 ✓ (392)
BUG ✓	32	30	1571 ✓ (277)	80	28	436 ✓ (1130)
COP ✓	32	30	263 ✓ (1565)	80	28	1176 ✓ (390)
DRY ✓	32	31	149 ✓ (---)	80	27	1370 ✓ (196)
EAT ✓	32	30	1348 ✓ (500)	80	27	1370 ✓ (196)
ELM ✓	32	30	1353 ✓ (495)	80	30	184 ✓ (1382)
FLAP ✓	32	29	73 ✓ (1775)	80	30	545 ✓ (1021)
FLY ✓	32	30	817 ✓ (1031)	80	27	1066 ✓ (500)
GO ✓	32	31	136 ✓ (---)	80	29	1199 ✓ (367)
HAY ✓	32	30	851 ✓ (997)	80	27	552 ✓ (1014)
HOG ✓	32	30	485 ✓ (1363)	80	27	34 ✓ (1532)
JOY ✓	32	29	1712 ✓ (136)	80	27	1042 ✓ 1042 (524)
MA ✓	32	31	745 ✓ (---)	80	30	133 ✓ (1433)
MAR ✓	32	29	842 ✓ (1006)	80	30	336 ✓ (1230)
PA ✓	32	31	599 ✓ (---)	80	29	1564 ✓ (2)
PEL ✓	32	30	352 ✓ (1496)	80	27	510 ✓ (1056)
RAN ✓	32	31	906 ✓ (---)	80	28	1558 ✓ (8)
SIG ✓	32	30	105 ✓ (1743)	80	29	859 ✓ (707)
SON ✓	32	29	1514 ✓ (334)	80	28	1125 ✓ (441)&
STRIPE ✓	32	29	527 ✓ (1321)	80	30	1150 ✓ (416)

TOPOGRAPHIC SIGNALS - SHEET "I"

Page 2.

	Latitude		Longitude		
	°	meters	°	meters	
TO	32	31	85	781	
		(---)		(785)	
TRY	32	31	180	836	
		(1668)		(730)	
VAN	32	29	1830	526	
		(18)		(1040)	
VUL	32	31	300	611	
		(---)		(955)	
WAT	32	29	1686	1247	
		(162)		(319)	
WIL	32	31	249	422	
		(---)		(1144)	
WITH	32	31	570	320	
		(---)		(1246)	
WORK	32	31	312	454	
		(---)		(1112)	
ZOO	32	28	---	183	
		(600)		(1383)	

You - 32° 30' 187 (1661) 80 29 1050 (516)
 ZIP 32 31 170 (-) 80 29 1564 (2)

DEPARTMENT OF COMMERCE
U. S. COAST AND GEODETIC SURVEY

REG. NO.

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. L

REGISTER NO. **4928 b**

State South Carolina

General locality St. Helena Sound

Locality ~~Ashpoo River~~ Hutchinson Island

Scale 1: 10,000 Date of survey June, 1934

Vessel M.V. Natoma

Chief of party Raymond P. Eymann

Surveyed by J.H. Tiller Jr.

Inked by _____

Heights in feet above _____ to ground to tops of trees

Contour, Approximate contour, Form line interval _____ feet

Instructions dated November 2, 1933.

Remarks: This sheet was destroyed by fire. A tracing used to transfer signals to boat sheet was saved and is being forwarded to the office.

L. R. used in office Sept. 17, 1934

D E S C R I P T I V E R E P O R T
T O A C C O M P A N Y
T O P O G R A P H I C S H E E T N O. "L"
A S H E P O O R I V E R, S O U T H C A R O L I N A.
1 9 3 4

I N S T R U C T I O N S :

Instructions for Project HT-159, November 2, 1933 were followed throughout.

P U R P O S E
O F T O P O G R A P H Y :

The topography of this area was to furnish control for hydrography and aerial photographs. Only small areas around points that could be spotted on the photographs are shown in detail.

M E T H O D S :

The usual plane-table methods of survey were used. All topographic signals were located by cuts from triangulation stations, located intersection stations, rod readings, and traverse.

E X T E N T :

This sheet comprises a survey of the Ashepoo River from the entrance, to Fenwick Cut, the western side of Otter Island, and that section of St. Helena Sound west of Otter Island. This sheet is a survey of the area between latitudes $32^{\circ} 27.6'$ and $32^{\circ} 31.8'$, longitudes $80^{\circ} 23.2'$ and $80^{\circ} 26.9'$

D E S C R I P T I O N :

With the section of Fenwick Island being the only cultivated or wooded land the rest of the area is marsh. The high water line on Otter Island is rather sharply defined by the edge of the sand

dunes. In the marsh areas the high water line is delineated by the marsh grass which has grown out over the mud flats. The high water line on the south and west side of Otter Island was rodded in from triangulation station SOUND and from three point fixes. A tracing of the high water line was furnished Lieut. B. H. Rigg before the sheet was destroyed by fire.

AERIAL
PHOTOGRAPHS:

Aerial photographs were used in connection with the topography. No attempt was made to delineate the shore line except at points that could be definitely spotted on the photographs. These small areas were shown in detail to assist the compilation party in compiling the shore line for the finished charts.

CONTROL:

The control for this sheet consists of second, third, and fourth order triangulation established by this party in 1933 under Project HT-126, December 23, 1932.

MAGNETIC
DECLINATION:

Magnetic meridians were determined at triangulation stations ASH 1933 and JEFF 1933.

NAMES:

No new names appear on this sheet.

ALUMINUM
BACKED SHEETS:

An aluminum backed sheet was used and found to be very satisfactory in every respect.

LANDMARKS:

There were no landmarks of sufficient prominence to use in charting.

STATISTICS:

Area in square statute miles - - - - - 9.0
Statute miles of traverse - - - - - 1.5

Respectfully submitted,

James H. Tiller Jr.
James H. Tiller, Jr.
Observer.

Approved and forwarded;

Jack C. Sammons
Jack C. Sammons,
Chief of Party,
Commanding Ship NATOMA.

TOPOGRAPHIC SIGNALS - SHEET "L"

Page 1.

	Latitude			Longitude			
	o	'	meters	o	'	meters	
✓ 32 30 1179	32	30	1179	80 24 640	80	24	640
			(669)			(926)	
✓ 32 31 502	32	31	502	80 25 1379	80	25	1379
			(---			(187)	
✓ 32 30 1373	32	30	1373	80 24 1104	80	24	1104
			(475)			(462)	
✓ 32 31 604	32	31	604	80 24 753	80	24	753
			(---			(813)	
✓ 32 31 493	32	31	493	80 24 1143	80	24	1143
			(---			(423)	
✓ 32 29 4	32	29	4	80 26 1479	80	26	1479
			(1844)			(---	
✓ 32 31 641	32	31	641	80 25 626	80	25	626
			(---			(940)	
✓ 32 30 1110	32	30	1110	80 26 1288	80	26	1288
			(738)			(---	
✓ 32 31 1056	32	31	1056	80 25 350	80	25	350
			(---			(1216)	
✓ 32 29 1645	32	29	1645	80 25 1282	80	25	1282
			(203)			(285)	
✓ 32 30 342	32	30	342	80 24 1398	80	24	1398
			(1506)			(169)	
✓ 32 31 456	32	31	456	80 26 594	80	26	594
			(---			(---	
32 30 1421	32	30	1421	80 26 533	80	26	533
			(427)			(---	
✓ 32 31 538	32	31	538	80 25 1054	80	25	1054
			(---			(512)	
✓ 32 28 660	32	28	660	80 24 1504	80	24	1504
			(1188)			(63)	
✓ 32 29 1732	32	29	1732	80 25 85	80	25	85
			(116)			(1482)	

Marked and described

DESCRIPTIVE REPORT TO ACCOMPANY
TOPOGRAPHIC REFERENCE
SHEET "Q"

U. S. COAST & GEODETIC SURVEY
LIBRARY AND ARCHIVES

APR 9 1935

Acc. No. _____

LIMITS AND SCALE:

This sheet covers parts of the area originally covered by topographic sheets "I" and "L", (on one aluminum mounted sheet that was destroyed in the Natoma fire of July 14, 1934.)

The scale (where rod readings were taken) is 1:10,000.

In this area were three U.S. Engineer bench marks that were permanently marked and would serve as recoverable topographic stations. These marks were located after the original sheet had been completed in the field; a tracing had been made of the original sheets and were saved from the fire, also the D.M.'s and D.P.'s., of all signals had been scaled off and saved.

This Whatman sheet was then taken in the field by the topographic party and a position taken at or near the various bench marks and a three point fix obtained - the azimuth lines being shown to the various stations - and a distance read by rod to the bench mark (if not at the station.)

The tracings of sheets "I" and "L" were then oriented on this reference sheet and the Bench Marks plotted on the tracings.

Respectfully submitted

Raymond P. Eymann
Raymond P. Eymann
Chief of Party.

POST-OFFICE ADDRESS: 12th Floor, Francis Marion Hotel,
Charleston, S. C.

TELEGRAPH ADDRESS:

EXPRESS ADDRESS:

DEPARTMENT OF COMMERCE

U. S. COAST AND GEODETIC SURVEY

November 5, 1934.

1234 NOV - 6 - AM 11:39

To: The Director
U. S. Coast and Geodetic Survey
Washington, D. C.

From: Benjamin H. Rigg, Lieutenant
U. S. Coast and Geodetic Survey

Subject: Descriptive Reports.

Reference: Your letter 80-EMS dated October 31, 1934.

Tracings referred to are in this office and will be held pending the completion of smooth plotting of the hydrographic sheets, the latter part of the present month.

I do not remember sending and cannot locate transmitting letter covering such reports. They very likely were forwarded by the NATOMA.

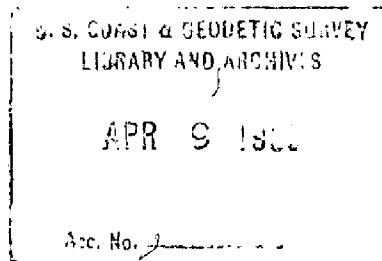

Benjamin H. Rigg,
Chief of Party.

IN REPLY ADDRESS THE DIRECTOR
U. S. COAST AND GEODETIC SURVEY
AND NOT THE SIGNER OF THIS LETTER

AND REFER TO NO.

80-~~EMS~~

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



October 31, 1934.

To: Lieut. Benjamin H. Rigg, Chief of Party,
U.S. Coast and Geodetic Survey,
12th Floor, Francis Marian Hotel,
Charleston, S. C.

From: The Director,
U.S. Coast and Geodetic Survey.

Subject: Descriptive reports.

Among the records forwarded by you which were received in this office on September 17 were two descriptive reports for topographic sheets in St. Helena Sound of the Coosaw River and Ashepoo River, respectively. Each of these descriptive reports carries the note that the original topographic sheet was destroyed by fire on board the Natoma and the statement is made in each case that a tracing used to transfer signals to the boat sheets was saved and is being forwarded to the office.

These tracings have never been received at this office and you are requested to investigate this and if they can be found, to forward them as soon as convenient.

The topographic surveys in question were executed by Lieut. Eymann as Chief of Party, and that of the Coosaw River was surveyed by John C. Bull, and that of the Ashepoo River was surveyed by J. H. Tiller, Jr.

Capt Eymann

J. H. Tiller, Jr.
Acting Director.

*As no sheet letters were given
I assumed the reports referred to some
of the tracings I am forwarding. Please
see if you can ~~steal from the out~~
Tracings forwarded herewith in Pkg. X. P. 6.*