

# 6189a

U. S. COAST & GEODETIC SURVEY  
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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. L

6189a

State Georgia

### LOCALITY

Vicinity of Cumberland Island  
~~Candler County~~

Crooked River

193 4

CHIEF OF PARTY

Hubert A. Patton

U. S. GOVERNMENT PRINTING OFFICE: 1934

# 6189a

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. 61892

State Georgia

General locality Vicinity of Cumberland Island

Locality Crooked River

Scale 1:10,000 Date of survey July, 1934, ~~1933~~

Vessel Party No. 26

Chief of Party Hubert A. Paton

Surveyed by J.M. LeRoy

Inked by C.T. Schwalb

Heights in feet above \_\_\_\_\_ to ground to tops of trees

Contour, Approximate contour, Form line interval \_\_\_\_\_ feet

Instructions dated Dec. 5, 1933, ~~1932~~

Remarks: \_\_\_\_\_

DESCRIPTIVE REPORT  
TO ACCOMPANY  
SHEET L  
PARTY NO. 26 PROJECT H. T. 168

July 1934.

INSTRUCTIONS:

The work on this sheet was done in accordance with instructions dated Dec. 5, 1933.

LIMITS:

This sheet is a survey of Crooked River from the western end of the large island in its mouth to a point about  $3\frac{1}{2}$  miles above Harriets Bluff. There is included the lower portion of Black Point Creek also.

METHODS:

All work on this sheet was done in accordance with Special Publication # 144, "The Topographic Manual". There were no traverses run, as all signals could be located by graphic triangulation.

CONTROL:

There are five triangulation stations on this sheet. Two of these ( Delaroche 1860 and Crooked 1905) are on the extreme eastern edge of the sheet and are obscured by a point of woods just west of them. The remaining three stations were sufficient for the work.

DATUM:

The datum used on this sheet is North American 1927. The field computations for the stations were on North American datum, computed from the line Bat-Stafford. By comparing values of first order stations in the vicinity the following corrections were obtained to reduce the stations to 1927 datum:

Latitude + 1 meter  
Longitude - 5 meters

JUNCTIONS:

This sheet joins sheet K on the east.  
The following signals were located on both sheets.

Triangulation station Delaroche 1860  
Triangulation station Crooked 1905  
Triangulation station Third 1933

Signals	Discrepancies (meters)	
	Lat.	Long.
Oak	4	0
Lap	4	1
Tin	3	1
Hot	0	0

#### SHORELINE:

The shoreline is soft marsh except at Harriets Bluff, Grover Island, Mush Bluff and Elliots Bluff. At these points there are clay and sand bluffs from about 2 feet to 20 feet high. Some shoreline was located by planetable, as a check on the photo-topographic survey being made by Lieut. (j.g.) S. B. Grenell. The tracings from his sheets have not been received to date ( Jan. 10, 1935).

The pencilled shoreline on the sheet was transferred roughly from previous surveys as a guide for the topographer and is of no further value. It was not erased by the field party in order that all "cuts" might be preserved until the sheet was reviewed in the Washington Office.

#### MAGNETIC MERIDIAN:

The magnetic meridian, as scaled from the declinoire arrow varies  $0^{\circ} 44'$  east from the true meridian. The declinoire index correction is  $0^{\circ} 40'$  east as determined at the Brunswick Magnetic Station in February 1934. Therefor the true declination is  $0^{\circ} 54'$  east.

*Ans  
1934.*

#### NAMES:

The following names are shown on Geological Survey maps of this area and are in common use in the locality:

Grover Island  
Elliotts Bluff  
Mush Bluff  
Harrietts Bluff

It is recommended these names be adopted for use on the charts of this bureau.

#### COMPARISON WITH OLD SURVEYS:

There had been no previous survey of this sheet except the easternmost portion. This part checks very well, there being only a few minor changes.

RECOVERABLE STATIONS:

The following stations were marked and described on form  
# 524: Ant, Bid, Ebb, Kid, May, Mar, Min, Now, Wag.

The field inspection for the photo-topographic sheet was  
done by Lieut. Grenell's party, so no sketches were needed on these cards.

*See Review T 4898*

LANDMARKS:

There were no landmarks sufficiently prominent to be shown  
on the charts.

Respectfully submitted,

Approved and forwarded,

*Hubert A. Paton*  
Hubert A. Paton,  
Lieut. C. & G. S.,  
Chief of Party.

*Jm LeRoy*  
J. M. LeRoy,  
Surveyor, C. & G. S.,  
Chief of Party.



REVIEW OF GRAPHIC CONTROL SURVEY T-6189a, SCALE 1, 10000Date of Review *July 31, 1935*

1. This survey has been reviewed in connection with Air Photo Compilation Nos. T-5128, , 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.
- (d) Discrepancies found in descriptions submitted on Form 524 when compared with the air photo compilations listed above.

2. Refer to the reviews and descriptive reports of air photo compilations Nos. T-5128, , 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.

✓ Notes and corrections resulting from the review are shown on this survey in green.

*at lat 30°-52.2' long 81°-35' T6189a shows what is assumed to be a creek entrance but an examination of the photos and the U.S. S-S. Kingland Quadrangle shows this to be an indentation in the shoreline and is shown as such on the compilation*

*B. G. Jones*

6189b

U. S. COAST & GEODETIC SURVEY  
LIBRARY AND ARCHIVES

FEB. 1 1935

Acc. 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. M

6189b

State Georgia

LOCALITY

Island  
Cumberland Sound

~~Northern Part~~

Cumberland Sound (Northern Part)

193 4

CHIEF OF PARTY

Hubert A. Paton

U. S. GOVERNMENT PRINTING OFFICE: 1934

6189b

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. M

REGISTER NO. 6189b

State Georgia

General locality Cumberland Island

Locality Cumberland Island Sound (Northern Part)

Scale 1:10,000 Date of survey July, 1934, ~~1932~~

Vessel Party No. 26

Chief of Party Hubert A. Paton

Surveyed by J.M. LeRoy

Inked by C.T. Schwalb

Heights in feet above \_\_\_\_\_ to ground to tops of trees

Contour, Approximate contour, Form line interval \_\_\_\_\_ feet

Instructions dated Dec. 5, 1933, ~~1932~~

Remarks: \_\_\_\_\_



DESCRIPTIVE REPORT  
TO ACCOMPANY  
SHEET M  
PARTY NO. 26 PROJECT H. T. 168  
CUMBERLAND SOUND, GEORGIA

July 1934.

INSTRUCTIONS:

The work on this sheet was done in accordance with instructions dated Dec. 5, 1933.

LIMITS:

This sheet is a survey of Cumberland Sound and from Stafford Island south, to a point  $\frac{1}{2}$  mile below Drum Point Island. The lower portion of Kings Bay is included.

METHODS:

All work was done in accordance with Special Publication # 114, "The Topographic Manual." No traverses were necessary as all signals could be located by graphic triangulation.

CONTROL:

There were 10 triangulation stations recovered on this sheet. The control is adequate.

DATUM:

The datum used on this sheet is North American 1927. Three of the triangulation stations - Greyfield Tank, Dungeness House Cupola and Dungeness Tank were located by the First-Order triangulation party under the direction of Lieut. H. C. Warwick and the positions were furnished on that datum. The other stations were located by the triangulation party under Lieut. C. M. Durgin, whose field computations were on North American datum, using the line Bat-Stafford as a base. By comparing the two values of the adjusted stations in the vicinity the following arbitrary correction factors were obtained:

Latitude + 2 meters  
Longitude - 6 meters

These factors reduced the positions approximately to the North American 1927 Datum and could be plotted on the sheet.

JUNCTIONS:

This sheet joins sheet K on the north and sheets N and W on the south.

The following signals were located on both sheet M and K

Signals	Discrepancies (meters)	
	Lat.	Long.
Triangulation station Cumberland	-	-
Island Windmill	-	-
Jew	4	1
Ter	5	3

Stations Dungeness House Cupola and Dungeness Tank are common to M, N, and W.

#### SHORELINE:

Most of the shoreline consists of soft mud and salt marsh grass, with an occasional pile of oyster shells.

On the southwest side of Kings Bay, and on Cumberland Island south of Station "Greyfield Tank" the shore is firm ground.

A photo-topographic survey was made by Lieut. (j.g.) S. B. Grenell and a tracing of his shoreline has been compared with the portions located on this sheet. There was some discrepancy found in the vicinity of Kings Bay and on the southeast shore of Drum Point Island. The topographer returned to the area and located some additional shoreline in an effort to make a junction. In the salt marsh area, it is practical to locate only the outer edge of the grass. This is not the true high water line which is indicated on aerial photographs by a line of drift and a slight difference in the color of the grass. It is recommended that both lines be shown on the charts with the proper symbols for their correct interpretation.

#### MAGNETIC MERIDIAN:

The magnetic meridian as determined with the declinatoire on this sheet is  $1^{\circ} 08'$  east from true meridian. The index correction is  $0^{\circ} 10'$  east, which was obtained at the Brunswick Magnetic Station in Brunswick, Georgia in February 1934. The corrected declination is  $1^{\circ} 18'$  east.

*End  
Map*

#### NAMES:

There are no new names suggested for this sheet.

#### COMPARISON WITH OLD SURVEYS:

There have been no major changes since the last survey.

RECOVERABLE STATIONS:

The following stations have been described on form # 524 and are submitted with this sheet: Ate, Bin, Biz, Gön, Jew, Pin, Rye, Zed. Since the field inspection for the photo-topographic sheets was made by Lieut. Grenell's party no sketches were needed for these cards.

LANDMARKS:

Lists of landmarks and non-floating aids to navigation are included with this report.

Respectfully submitted,

Approved and forwarded,

*Hubert A. Paton*

Hubert A. Paton,  
Lieut. C. & G. S.,  
Chief of Party.

*J. M. LeRoy*

J. M. LeRoy,  
Surveyor, C. & G. S.



DEPARTMENT OF COMMERCE  
U.S. COAST AND GEODETIC SURVEY

## LANDMARKS FOR CHARTS

Jacksonville, Fla.

## AIDS TO NAVIGATION.

Jan. 15, 1935

DIRECTOR, U.S. COAST AND GEODETIC SURVEY:

The following determined objects are prominent, can be readily distinguished from seaward from the description given below, and should be charted:

**Hubert A. Paton**

*Chief of Party.*

[illegible]

A list of objects carefully selected because of their value as landmarks as determined from seaward, together with individual descriptions, must be furnished in a special report on this form, and a copy of such report must be attached by the Chief of Party to his descriptive report.

The selection, determination, and description of these points are an important factor in the value of the chart. Landmarks selected at appropriate intervals can be clearly charted. However, when none is outstanding, a group of two or three objects may by their interrelationship provide positive identification. A group so selected should be indicated.

The description of each object should be short, but such as will clearly identify it; for example, a standpipe, elevated tank, gas tank, church spire, tall stack, red chimney, radio mast, etc. Assign numerals to landmarks to indicate: (1) Offshore, (2) inshore, (3) harbor, 1, 2, 3 would be a mark useful on all charts. Generally, flagstaves and like objects are not sufficiently permanent to chart.



DEPARTMENT OF COMMERCE  
U.S. COAST AND GEODETIC SURVEY

## LANDMARKS FOR CHARTS

Jacksonville, Fla.

Jan. 15, 1935

DIRECTOR, U.S. COAST AND GEODETIC SURVEY:

The following determined objects are prominent, can be readily distinguished from seaward from the description given below, and should be charted:

**Hubert A. Pate,**

*Chief of Party.*

DESCRIPTION	POSITION						METHOD OF DETER- MINATION	CHARTS AFFECTED
	LATITUDE			LONGITUDE				
	°	'	D.M. METERS	°	'	D.P. METERS		
Tank (Elevated), (3) (70 ft. high, $\Delta$ Cumberland Is. Grayfield tank.)	30	46	1329	81	28	200	North American 1927	Triangulation 1933 1242, 3257
Cupola, Carnegies house, (1), (3) $\Delta$ Dungeness House Cupola.)	30	44	1656	81	28	433	"	" 453, 1242, 3257
* Tank (Elevated), (1), (3). (99 ft. high, $\Delta$ Dungeness tank.)	30	44	1551	81	28	275	"	"
These objects have been viewed from the water area.								

A list of objects carefully selected because of their value as landmarks as determined from seaward, together with individual descriptions, must be furnished in a special report on this form, and a copy of such report must be attached by the Chief of Party to his descriptive report.

marks selected at appropriate intervals can be clearly charted. However, when none is outstanding, a group of two or three objects may by their interrelationship provide positive identification. A group so selected should be indicated.

The description of each object should be short, but such as will clearly identify it; for example, a standpipe, elevated tank, gas tank, church spire, tall stack, red chimney, radio mast, etc. Assign numerals to landmarks to indicate: (1) Offshore, (2) inshore, (3) harbor, 1, 2, 3 would be a mark useful on all charts. Generally, flagstaffs and like objects are not sufficiently permanent to chart.

REVIEW OF GRAPHIC CONTROL SURVEY T-6189(b), SCALE 1/10,000,

Date of Review Aug 1, 1935

1. This survey has been reviewed in connection with Air Photo Compilation Nos. T-F5231, F5232, , with particular attention to the following details:

- (a) Projection has been checked in the Field. ✓
- (b) Accuracy of location of plane table control points. OK.
- ✓(c) Discrepancies between detail on this survey and the air photo compilations listed above. .
- ✓(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-5231, 5232, , 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.

No errors in projection greater than 2 mm. were found.

D. H. Benson

✓ B. G. Jones