

6142

U. S. COAST & GEODETIC SURVEY
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Acc. No.

Form 504
Ed. June, 1928

DEPARTMENT OF COMMERCE

U. S. COAST AND GEODETIC SURVEY

R. S. Patton, Director

State: Georgia

DESCRIPTIVE REPORT

Topographic } Sheet No. J 6142
~~Hydrographic~~

LOCALITY

Ossabaw Sound River

Vernon

White Bluff River

1934

CHIEF OF PARTY

C. A. Egnor

U. S. GOVERNMENT PRINTING OFFICE: 1928

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DEPARTMENT OF COMMERCE
U.S. COAST AND GEODETIC SURVEY

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TOPOGRAPHIC TITLE SHEET

NOV 30 1934

Acc. No. _____

REG. NO. 6142

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. J

REGISTER NO. 6142

State GEORGIA

General locality CROSSABAW SOUND

Locality Vernon
WHITE BLUFF RIVER

Scale 1/10,000 Date of survey APRIL, 1934

Vessel PARTY NO. 23

Chief of party C. A. EGNER

Surveyed by H. A. HARNDEN, G. R. DIETZ

Inked by H. A. HARNDEN

Heights in feet above _____ to ground to tops of trees

Contour, Approximate contour, Form line interval _____ feet

Instructions dated DECEMBER 5, 1933

Remarks: THIS SHEET FOR TOPOGRAPHIC AND HYDRO-
GRAPHIC CONTROL ONLY.

DESCRIPTIVE REPORT TO ACCOMPANY TOPOGRAPHIC SHEET

FIELD: J

PARTY: NO. 23

PROJECT: F. P. 4

YEAR: 1934

STATE: GEORGIA

GENERAL LOCALITY: NEAR SAVANNAH

LOCALITY: WHITE BLUFF RIVER

ADJOINS SHEETS: F, N, L, P

SCALE: 1/10,000

DATUM: NORTH AMERICAN 1927

CHIEF OF PARTY: C. A. EGNER

TOPOGRAPHER: H. A. HARNDEN, G. R. DIETZ

DATE OF INSTRUCTIONS: DECEMBER 4, 1933

INKED BY: H. A. HARNDEN

INSTRUMENTS USED:

Standard Plane Table Equipment.

A system of graphic triangulation was carried out on this sheet based on the available triangulation stations in the southerly portion of the area and carried to the northern limits of the survey. This was supplemented by stations located by intersection from these points and the triangulation station, and by stadia.

High water line, marsh line, and tree lines were located in certain portions as indicated, by stadia.

PURPOSE OF SURVEY:

To provide control for hydrography, to provide recoverable stations for future surveys, to control aerial photography for charting this locality, and to revise existing surveys.

MARKING OF STATIONS:

The triangulation stations in this area are marked in the accepted permanent manner with standard discs set in concrete. Several objects such as house gables, dock houses, chimneys, etc., were located and described and are included in the "List of Landmarks" attached. The important topographical signals were permanently marked with 4"x 4" cypress hubs 8' long driven into the ground with about 18" projection or by distinctive blazes on trees. These are described and noted on the sheet.

LANDMARKS:

There were no land marks in this area considered prominent enough to be charted.

RECOVERABLE STATIONS:

The triangulation stations in this area are all recoverable. The topographic signals permanently marked as noted above will be sufficient to control this area for future surveys.

GEOGRAPHIC NAMES:

The present charted names are used in all cases.

The locality of "VERNONBURG" is commonly known locally as "White Bluff", "Vernonburg" is unknown.

The name "Rosedew" shown on this sheet is spelled "Rose Dhu" locally on road signs and stores.

MAGNETIC MERIDIAN:

Taken from Setup at triangulation station MONT on May 18, 1934.

CONTROL:

The White Bluff River, which covers the main body of this sheet presented a problem in control, as there are no triangulation stations north of Montgomery. Here one station Δ MONT was inserted by a slim triangle from the line BEAULIEU--POSSUM 2. The trees near MONT form sort of a bottle-neck for the upper reaches of the river and made difficult any scheme of triangulation, were the river considered of sufficient importance to warrant that accuracy.

Since it was thought a good piece of plane-table triangulation would suffice, such a system of signals was laid out. However, the same conditions which made triangulation difficult worked against the topography and when a later attempt was made to fit the hydrography to the aerial-photo shoreline discrepancies arose. To locate the trouble a 3rd order traverse by theodolite and tape was run from Δ BEAULIEU to Signal \odot JACK. The error at JACK disclosed by this traverse was 13 meters which was considered quite good under the circumstances. All signal locations above \odot LAG and \odot BOY were adjusted to the new position of \odot JACK by straight proportion.

After the aerial plot was likewise adjusted to fit the new control, no further trouble was had with the hydrography.

VERTICAL CONTROL:

None.

METHOD OF TRANSFER OF SIGNALS TO HYDROGRAPHIC SHEET:

Recoverable signals by d.m. and d.p.
Non-recoverable signals by tracing.

CHANGES SINCE PREVIOUS SURVEYS:

Since the general shore line was not taken in this survey it is difficult to say what changes have been made in the shore line. This will be determined from the aerial survey of this area.

MISCELLANEOUS:

A group of signals in the south west corner of this area on the Little Ogeechee River and the Forrest River were located by intersection from triangulation stations GEE and COFFEE BLUFF. It was later found that station COFFEE BLUFF was plotted wrong on the sheet. These signals were then moved by rotating them about station GEE and through the angle formed at GEE by the correct and false positions of COFFEE BLUFF. This method was considered to be within the accuracy of the survey method and within the accuracy required for such signals, considering the amount of the discrepancy at station COFFEE BLUFF.

Respectfully submitted

Guy R. Dietz

Approved and forwarded.

C. H. Egner

NAME	LATITUDE D. M. METERS	LONGITUDE D. M. METERS	DESCRIPTION OF OBJECT
BLUE	(1379) 31 56 469	(1351) 81 07 225	South Gable on Boathouse.
PINK	(1321) 31 56 527	(763) 81 07 813	Peak of Boathouse.
EAGLE	(1310) 31 56 538	(584) 81 07 992	South Gable of corrugated iron shed.
AID	(180) 31 56 1668	(1323) 81 08 253	4"x 4" cypress.
COOK	(391) 31 57 1457 1467	(660) 81 07 916 906	East Gable of Dormer House.
SMO	(153) 31 57 1695 1705	(1029) 81 07 547 537	Chimney of large house
FIRE	(184) 31 57 1684 1694	(1488) 81 07 108 118	East chimney of large house.
ZEE	(370) 363 31 57 1478 1485	(397) 404 81 06	4"x 4" cypress.
PIN	(91) 84 31 57 1757 1764	(211) 219 81 06	Triangular blaze on Pine tree.
BACK	(1601) 1594 31 58 247 254	(695) 700 81 07 882 875	4"x 4" cypress.
GULL	(1173) 64 31 58 675 684	(2) 11 81 06 1573 64	4"x 4" cypress.
DEEP	(1055) 44 31 58 795 801	(1008) 1017 81 07 567 568	4"x 4" cypress.
NIS	(38) 4 31 59 58	(418) 0 81 06	4"x 4" cypress.
BONNIE	(868) 862 31 57 (886) (986)	(1148) 2 81 07 (434)	4" x 4" cypress
3RD ORD. TRAVERSE DETERMINATION JACK	2524 31 58 (15956)	690 81 06 (884)	N.W. COR. OF DOCK. TIN ROOF SHED NEAR END OF DOCK.
See Form 524 for corrected positions of Osta. crossed out in Red. MDC			

DATUM

Sheet "J"

See Form 524 for Corrected positions of ~~otas~~. Crossed out in Red.