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Form 504

U. S. COAST AND GEODETIC SURVEY

DEPARTMENT OF COMMERCE

DESCRIPTIVE REPORT

Type of Survey Air Photographic

Field No. Office No. T-8225

LOCALITY

State South Carolina

General locality Georgetown County

Locality North Island

North Island Quad.

194 2

CHIEF OF PARTY

Wm. D. Patterson

LIBRARY & ARCHIVES

DATE June 27, 1946

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. 275-4
NORTH ISLAND QUADRANGLE
REGISTER NO.

State South Carolina

General Locality Georgetown County

Locality North Island Quadrangle

Scale 1:20,000 Date of survey Feb., Mar., April, 1942

~~Vessel~~ Defense Mapping Field Party No. 2

Chief of party Wm. D. Patterson

Surveyed by Rudolph J. Nosik, Senior Photogrammetric Aid.

Inked by Rudolph J. Nosik, Senior Photogrammetric Aid.

Heights in feet above M.S.L. to ground ~~to tops of trees~~

Contour, ~~Approximate contour, Form line interval~~ 20 feet

Instructions dated January 23, 19 42

Remarks: Contouring, revision and completion surveys
of air-photographic compilations.

①

General Procedure in the Production of Topographic Quadrangles for the War Department

This quadrangle, together with similar adjoining maps produced under Project C.S. 275-4 was prepared by the Coast and Geodetic Survey for the War Department under "General Specifications for War Department Mapping Program" issued about December 1941, in which is incorporated the "Standard of Accuracy for a National Map Production Program" issued by the Bureau of the Budget under date of June 10, 1941.

The general procedure in the production of this and the adjoining quadrangles was:

1.

PREPARATION OF BASE MAPS

Assembly into quadrangle base sheets by photographic means of previously produced planimetric maps of the area. These maps were compiled by this Bureau from aerial photographs taken in 1934 and were published in 1935 on the scale of 1:20,000. Lithographic prints of the quadrangle base sheets on cloth-mounted paper were furnished to the field parties and similar prints in red ink on celluloid sheets were furnished to the compilation office. (in this case the Review Section of the Washington office)

2. FIELD SURVEYS

Aerial photography with the Coast and Geodetic Survey nine-lens camera, with airplane and flight crew furnished by the U. S. Coast Guard. The photographs were taken to the scale of 1:20,000.

Ground inspection of the photographs for identification of control points, and classification and clarification of planimetric details on the photographs. The field parties were permitted to make field inspection notes either on the photographs or on the planimetric base sheet.

Contouring by planetable, directly on the photographs or on the planimetric base sheet at the option of the field party. The contouring for this quadrangle was done on the planimetric base sheet by the field party.

The new photographs (1942) were not taken until after the field work had been completed and were used in the office only.

Supplementary vertical control was established by means of an extensive subordinate level net, furnishing unmarked elevations at road intersections, driveways, and numerous other points identifiable on the photographs.

3.

COMPILATION OF MANUSCRIPT

Revision of the planimetric base map from the new photographs and addition of contours and corrections obtained by the field parties. No radial plot was made for this work. *This revision was made in the Review Section Washington office. See also the review of the book.*

4.
FIELD EDIT

~~Comparison of a copy of the corrected manuscript with the ground. This included inspection for completeness and accuracy as well as the location by planetable methods of additional details, checking of nautical and aeronautical aids to navigation, etc.~~

Accuracy Tests - Application of systematic horizontal and vertical accuracy tests to check the maps for conformity with the specifications. These tests consisted of comparison of the map position and elevation of selected random points with the true position and elevation as independently determined by standard survey methods.

PROCESSING IN THE WASHINGTON OFFICE

Review - Examination of the manuscript for accuracy and completeness of compilation and compliance with specifications, correcting where necessary; addition of military and state grids and other special features; and verification of the general adequacy of the manuscript as a basis for the production of a finished map.

Drafting and Reproduction - Preparation of smooth color separation drawings on 1:20,000 scale on metal-mounted "blue-line" copies of the manuscript. From these drawings, negatives and printing plates were prepared for reproduction of the finished map on the scale of 1:31,680 or 1:25,000.

DESCRIPTIVE REPORT TO ACCOMPANY
NORTH ISLAND
QUADRANGLE NO. 4

DEFENSE MAPPING PROJECT CS-275

WM. D. PATTERSON, CHIEF OF PARTY.

Instructions for this Project were dated January 23, 1942.

SURVEY METHODS:

Planetable and stadia traverse were used to locate all detail added to the sheet. A line of magnetic declination was placed on the sheet by orienting the sheet on a long, straight sketch of road and the declinoire was used to orient the sheet on traverse and set-ups for locating detail. On traverses the general practice was to set the table at alternate turning points. All traverses closed with a horizontal error of less than 10 meters and where well defined detail had been located, the error was distributed by the graphic method.

CONTROL:

Planetable positions were located from identifiable planimetric detail appearing on the sheet and a check obtained where the identification was doubtful. Control was not taken from detail which was obscured by foliage and might be inaccurately shown. No detail was added to the sheet that was located from positions of a less degree of accuracy than the classification of the points located.

Vertical control was taken from third-order level circuits run over the roads in this quadrangle. The error was kept well within the allowable error of one foot.

REVISION WORK:

As this quadrangle is mostly on private estates, the roads were not of the best type, mostly slightly improved trails. Several roads that are new have been added and many trails are shown deleted. U. S. Highway 17 is the only main surfaced road on this quadrangle. This was referred to formerly on the sheet as State Highway 49. This change was noted. Additional roads, especially ones at the southerly end of sheet, leading to the shores were shown.

Any houses not shown on the blue-line print were added and appear on sheet. Houses shown on blue-line print were checked for location by inspection and those houses that were gone were deleted by a red-ink cross and marked deleted.

ACCURACY OF WORK:

With the exception of additional roads and deletion of some roads as mentioned above, the detail shown on the blue-line print appears to be within the limits of accuracy listed in the instructions. All detail added to the sheet is believed to be within the allowable limits of error. No traverses were run northeast from Clambank Road to the tidal marsh, but this area consists of dense deciduous pine, - - brush and scrub, and was covered with a few inches of water. This probably dries up in summer so could hardly be called swamp, although it appeared as such at this particular time.

JUNCTION WITH ADJACENT SHEETS:

Junction to the north with Quadrangle No. 1 was satisfactory.
. Junction to the south also was satisfactory. Quadrangle No. 3 was not available to make a comparison.

SHORELINE:

Field examination of shoreline where changes were suspected was made by planetable stadia traverse. These changes were noted as in the vicinity south of Debidue Island and south of North Inlet. There also was a considerable change south of Marsh Islands. *See also the review at the back of this report.*

LANDMARKS:

There are no additional landmarks on this sheet.

GEOGRAPHIC NAMES:

A list of geographic names in this area is covered in a special report.

MARSH AREAS:

The marsh areas on the blue-line print were substantially the same. "Wet weather swamp" which dry out during the summer and are dry most of the year were shown.

PHOTOGRAPHS:

Air-photos are available of this area and were used to some extent in locating drainage. *These were the 1935 photographs*

BOUNDARIES:

No particularly important boundaries appear on this sheet.

BRIDGES:

A portion of the Lafayette Bridge on U. S. Highway 17 appears on the northwesterly corner of this sheet. This was formerly shown on the blue-line as "under construction". Correction was made. Most other bridges encountered were wooden culvert bridges with an approximate load capacity up to ten tons. Ruins and pilings of old ferry pier were shown at the easterly end of the Lafayette Bridge.

BEACON AND LIGHTS:

All beacons and lights were inspected and any discrepancies corrected. Forms 567 are filed in Nautical Chart Branch under Chart Letter # 263, 1942.

This Report submitted by,

Rudolph J. Nosik

Rudolph J. Nosik,
Sr. Photogrammetric Aid,
U. S. Coast and Geodetic Survey.

*Approved and forwarded:-
H. D. Patterson
Chief of Party.*

Quadrangle No. 4,
North Island, sheet No. 1

Remarks.

Decisions

1		332792 U S G B
2	Note larger application on Name Sheet No. 4	"
3		"
4		"
5		"
6	See line 18, below	"
7		332791
8		"
9		"
10		"
11		"
12		"
13		"
14		"
15		"
16	Noble Slough on current chart 787, case submitted to Board, but OK to use new name pending its decision. <i>Rajactap</i>	"
17		"
18	Note large application of this name on Name Sheet No. 4; see also item 6, above.	333791
19		"
20		"
21		"
22		"
23		"
24		"
25		"
26		"
27		"

GEOGRAPHIC NAMES

Survey No. Sheet No. 1

Quadrangle No. 4,

North Island
Name on Survey

	A, On Chart No.	B, On previous survey No.	C, On U. S. quadrangle Maps	D, From local information	E, On local Maps	F, P. O. Guide or Map	G, Rand McNally Atlas	H, U. S. Light List	
✓ <u>Winyah Bay</u>									1
✓ <u>Marsh Islands</u>									2
✓ <u>Pumpkinseed Islands</u>									3
✓ <u>Mud Bay</u>									4
✓ <u>Malady Bush Island</u>									5
✓ <u>Jones Creek (southwest end)</u>									6
✓ <u>North Island</u>									7
✓ <u>Cottonpatch Creek</u>									8
✓ <u>Collins Island</u>									9
✓ <u>Sign Creek</u>									10
✓ <u>Dividing Creek</u>									11
✓ <u>Nancy Creek</u>									12
✓ <u>Little Jones Creek</u>									13
✓ <u>Boor Creek</u>									14
✓ <u>Pea Blossom Creek</u>									15
✓ <u>Mother ^{Noble Sluo} Griffin Creek</u>									16
✓ <u>Haulover Creek</u>									17
✓ <u>Jones Creek (northeast end)</u>									18
✓ <u>Double Prong Creek</u>									19
✓ <u>Wood Creek</u>									20
✓ <u>Little Wood Creek</u>									21
✓ <u>Bobs Garden Creek</u>									22
✓ <u>Perry Creek</u>									23
✓ <u>Duck Creek</u>									24
✓ <u>Oyster Bay</u>									25
✓ <u>Mud Creek</u>									26
✓ <u>Sixty Bass Creek</u>									27

Quadrangle No. 4,

sheet No. 2

North Island

Remarks.

Decisions

1		333791
2	Note application on Name sheet No. 4, which will have to be consulted for many new names and their application in this area.	"
3		"
4		"
5		"
6		"
7		"
8		"
9		"
10		"
11		"
12		"
13		"
14		"
15		335790
16		333791
17		333792
18		"
19		"
20		"
21		"
22		"
23		"
24		"
25	Note wide application on Name sheet No. 4	"
26		" U S G B
27		

GEOGRAPHIC NAMES

Survey No. Sheet No. 2

Quadrangle No. 4,

North Island

Name on Survey

	A, On Chart No.	B, On previous survey No.	C, On U. S. quadrangle Maps	D, From local information	E, On local Maps	F, P. O. Guide or Map	G, Rand McNally Atlas	H, U. S. Light List	K	
✓ Bread and Butter Creek										1
✓ Town Creek										2
✓ Clambank Creek										3
✓ Clambank										4
✓ Cutoff Creek										5
✓ Old Man Creek										6
✓ Sea Creek Bay										7
✓ Cooks Creek										8
✓ Bass Hole Creek										9
✓ Bass Hole Bay										10
✓ Bly Creek										11
✓ Crab Haul Creek										12
✓ Debidue Creek										13
✓ Debidue Beach										14
✓ Long Bay										15
✓ North Inlet										16
✓ No Mans Friend Creek										17
✓ Sawmill Creek										18
✓ Goat Island										19
✓ Caines Settlement										20
✓ Denny Corner										21
✓ Friendfield										22
✓ Bellefield (Plantation)										23
✓ Old Reserve										24
✓ Waccamaw Neck										25
✓ Waccamaw River										26
										27

Places marked on map by L. Heck on 5/15/42

RECORDS

Between January, 1942 and July, 1944, this Bureau completed 323 quadrangles. These maps have been published, or are in the process of being published on scales of 1:31,680 or 1:25,000. This series of quadrangles includes a land area of approximately 15,000 square miles. Incident to this work, a considerable volume of survey records and data has accumulated which will be filed for future reference. This material is filed as follows:

Registered and Filed in the Vault

Cloth-mounted copy of the published quadrangle.
published quadrangle at 1:20,000 scale
Black and white cloth-mounted copy of the map manuscript. This copy is filed to preserve original survey detail shown on the manuscript at 1:20,000 scale which may not have been shown on the published sheet. For political boundaries, woodland, marsh, and swamp limits, refer to the published quadrangle for the finally adopted positions. outlines.

Descriptive Report.

Division.

Filed in the Photogrammetric Section--Surveys Branch

Field inspection photographs.

Contoured photographs (on which planetable contouring work was performed.)

Field edit sheet.

Descriptions of recoverable topographic stations (Form 524), filed in Reviewing Unit Section.

Supplementary traverse and level records.

Field notes, computations, lists of positions, and tabulations of results of horizontal and vertical accuracy tests.

Reproduction proof.

Correction sheet (copy of quadrangle showing in red changes to be made when next printed.)

Check lists of work performed on each sheet in the Washington Office during review, drafting, edit, and reproduction.

Original celluloid manuscript.

Copies of specifications and all instructions to field parties and field offices.

Filed in Reproduction Branch

Glass negatives of the color separation drawings.

Filed in the Library

~~Special report on field work by Commander K. T. Adams, 1944.~~

Special report on office work by B. G. Jones, 1944.

Season's report on field work by Commander F. L. Gallen, 1944.

~~Season's report on field work by Commander R. L. Schoppe, 1944.~~

Delivered to the Army Map Service in accordance with the contract

Film negatives and film positives of the color separation drawings.

All color separation drawings.

~~Original celluloid manuscript.~~

A correction sheet consisting of a copy of the first edition of the quadrangle with notes in red indicating changes desirable at the next printing.

DIVISION OF CHARTS

SURVEYS BRANCH

REVIEW OF AIR PHOTOGRAPHIC SURVEY T-8225

NORTH ISLAND QUADRANGLE

This quadrangle manuscript has been examined for completeness, accuracy, and conformity with the specifications. It is adequate for smooth drafting, reproduction and publication. Revisions found to be necessary in this office are discussed on the next page.

Horizontal and Vertical Accuracy

The nearest horizontal and vertical accuracy tests were run in Quad. T-8227.

Previous Surveys

This manuscript has been compared with the following previous topographic surveys of this Bureau and other agencies. This map is satisfactory to supersede the previous surveys over the common area.

Refer to comparisons made in reviews for the 1935 air photographic surveys.

Comparison with Nautical Charts Nos.

The manuscript has not been applied to the charts at the date of this review. The following comments are pertinent to the compilation and correction of nautical charts:

T-8225 was reported to the Nautical Chart standards upon receipt in this office. Shoreline changes have been made during this review, however, which affect the charts. T-8225 has not been applied to the charts up to the date of this review.

The following revisions of the map manuscript were found to be necessary and were accomplished as a part of this review:

As stated under General Procedure at the front of the descriptive report, field work consisted of planetable contouring on the planimetric base sheet and planetable corrections and additions to planimetry. The new photographs were not available at the time and were not used by the field party.

The office review of this quadrangle included the revision of a celluloid print of the planimetric base by additions and corrections from the field planetable sheet and from the new photographs which were available and were used in the office.

Shoreline. - Examination of the photographs showed that the planetable revision of the shoreline was not complete and additional changes were made from the photographs in this office. These were made without field inspection and so are somewhat approximate, but show the existing conditions much better than the planetable revision.

Wooded Areas. - The classification and delineation of wooded areas in accordance with the topographic mapping specifications were not covered specifically in the instructions for 275 and were not completed in the field. This work was accomplished in the office by stereoscopic examination of the photographs.

Reviewed Sept. 10, 1942 By F. H. McBeth
under direction of D. H. Benson (per D.M.)

Inspected by B. G. Jones *B. G. Jones 6/46*

Examined and approved:

K. T. Adams
Chief, Surveys Branch
Division of Photogrammetry

Chief, Topography Section

Robert W. Knox
Chief, Div. of Charts
Nautical Chart Branch
Raymond E. Egan
Chief, Div. of Coastal
Surveys