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Form 504 Ed. June, 1928

## DEPARTMENT OF COMMERCE

u. s. coast and geodetic survey R.S.Patton Director

State: N.Carolina

# DESCRIPTIVE REPORT

Aero-Topographic Mydrographic

Sheet No. 5044

LOCALITY 5044

Atlantic Coast

Alligator Bay to Virginia Creek

19.33

CHIEF OF PARTY

0.S.Reading

## DESCRIPTIVE REPORT to Accompany Air Photo Topographic Sheet No. 5044

#### 1. General Information.

- (a) This sheet is a compilation of Army Air Corps five-lens photographs taken with type T-3A camera from an altitude of approximately 10,000 feet. A fairchild F-lA plane was used, piloted by Lieutenant Goodrich with Sergeant Matos as photographer.
- (b) Statistics 34.0 square statute miles of area, 14.4 miles of shoreline and 14.6 miles of intracoastal waterway. 48 miles of inside shoreline.
- (c) The description of this area, as noted from the descriptive report for topographic sheet No. 4279, is as follows: "The general description of this locality follows that of all this coast; a wide, flat, straight beach with low sand dunes rising abruptly at high water line and behind these dunes about a mile of low marshy land, cut up with sloughs and creeks, extends back to the mainland."
- (d) The photographs Nos. 301 to 324, inclusive, which embrace this sheet are part of a single strip taken between 10:30 A.M. and 1:30 P.M. January 29, 1933. At this time the tide was 1.7 feet (approximately) above mean low water.

#### 2. Control.

(a) The control consists of second order triangulation by R. P. Strough in 1914; third order triangulation by J. A. Bond in 1933, All control is adjusted to the N.A. 1927 datum. (Topo Control Sheet #T-4760).

Control (a) and (c) - Only the radial line method of compilation was used. The field inspection covered only the B prints of the flight used in plotting this sheet. Since all the control points along the beach fell cutside the center pictures they were therefore left unspotted by the field inspection party. For better comparison with previous surveys, it was desirable that this control be located on the photographs. In order to accomplish this, the radial line method of locating a control point on the celluloid was reversed in order to locate the control point on the photograph. A well controlled photo showing the area in which some of the points are located was oriented to the sheet and azimuth lines through the points in question were transferred to the photograph. This was repeated on other photos until direction lines to all control points not spotted by the field inspection party were obtained. Where possible these were collected on one photograph to give an intersection at the desired point.

The following stations were located on the photographs by this method: Ped, Banks, High, Garat, Bluff, Bee, and Bumble:

The "C" wing print was missing in all photographs covering this sheet, and for this reason it was somewhat difficult to obtain good intersections on the inshore areas.

Field inspection was complete and satisfactory. However, much was left to the judgment of the compiler in areas covered by the wing prints.

## 3. Comparison with Other Surveys

- (a) Junction on the north with sheet No. 5049 is good.
- (b) No discrepancy with field topographic sheet No. 4279 noted. This latter sheet, however, covers the coastline only.

Respectfully submitted.

HEMas Ewen Conard W. Melanu

D	Posit	Remarks	
Description -	Lat. D.W.	Long. D.P.	2022
Bn. No. 3	34° 30' 683 (1166),	77 <sup>0</sup> 24' 748 (782) <sub>:</sub>	
Bn. No. 9	34° 29' 404 (1445)	77 <b>° 27' 1352 (178)</b>	
Bn. No. 11	34° 28' 1828 (21)	77 <sup>0</sup> 28' 628 (903)	
Bn. No. 13	34 <sup>0</sup> 28: 1399 (450)	77 <sup>0</sup> 28' 1430 (101)	
Bn. No. 15	34° 28' 971 (878)	77° 29'       745 (786)	
Bn. No. 17	34° 28' 548 (1301)	77 <sup>0</sup> 30' 6 (1525)	
Bn. No. 21	34° 27' 1346 (503)	77° 30' 1365 (166)	
Bn. No. 23	34° 27' 615 (1234)	77° 31' 516 (1015)	
Bn. No. 27	34° 26' 998 (851)	77 <b>°</b> 32†       347 (1185)	
Bn. No. 29	34° 26' 275 (1574)	77° 32' 1010 (522)	
Bn. No. 14	34° 25' 1066 (783)	77° <b>3</b> 3; 1011 (521)	
Bn. No. 16	34° 25' 699 (1150)	77 <sup>0</sup> 341 1303 (12.29)	
Bn. No. 18	34° 25' 336 (1513)	77° 34' (1108 (424)	
Bn. No. 20	34° 24' 1223 (626)	77 <sup>0</sup> 35' 1082 (450)	
Bn. No. 22	34° 24' 518 (1331)	77° 36' 401 (1131)	
	* These stations were	transpure grom 7-476	o to T-5044

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	GEOGRAPHIC NAMES			Silve	et Stor	* /			Mag	KINOS /	ž /
•	Survey No. 15044	/or	No. Or	TO OL	S. Wag.	St. John St. J. C.	Total Made	Country of	Med Williams	7.5. True	
i	Name on Survey	<u> </u>	B,	<u> C,</u>	<u> D</u>	/ E_	<u> </u>	G	/ H	<u>/ K</u>	<del>(                                     </del>
~	Virginia creek										1
L	Bishop Creek						.,		<u> </u>		2
i-	-Edens Landing		<u> </u>								3
V	Sears Lunding		-				_		-		4
,	Waters Bay		ļ					_			5
	Barlow Creek		ļ			-			-		6 _
;zz	Hollow Pt. Landin					<u> </u>			<u> </u>		7
<b>/</b>	Permudu I.						<del></del>				8
Jan Jan	Moll I.	<u></u>							<u>                                     </u>		9
/	King creek	-									10
L	- Spicer Bay					ļ <u> </u>		<u> </u>	<del> </del>		11
<u>v</u>	Asha I.		<u> </u>						<del>  .</del>	-	12
	Turkey Creek		-				<u> </u>				13
		-				<u> </u>					14
/	Roger Bay	_			_			-			15
<b>/</b>	Roger Bay		140	ers.	Ba	<del> </del>		-			16
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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.5044

REGISTER NO. 5044

State North Carolina
General locality Atlantic Coast
Locality Alligator Bay to Virginia Greek Photographs - Jan. 29, 1933
Compilation - July-Oct., 1933 Scale 1:20,000 Date of Entrey 19
Airplane Fairchild, F - 1A. Lieut. Goodrich, Pilot
compilation Sgt. Matos, Photographer Chief of Party O. S. Reading O. K.
Photos plotted by Surveyed by H. E. MacEven, July 22, 1933
Inked by H. E. MacEwen, L. A. McGenn, Oct. 8, 1933 Heur, C.C. W.
Heights in feet above to ground to tops of trees
Contour, Approximate contour, Form line intervalfeet
Instructions dated, 19, 19
Remarks: Compilation of 5-lens aerial photographs printed by
photo-lithographic process
Polyconic Proj. by - H. E. MacEwen, July 15, 1933 Hell. Projection verified by - F. G. Erskine, July 17, 1933 FEE Control plotted by - H. E. MacEwen, July 17, 1933 FEEE Control verified by F. G. Erskine, July 18, 1933 FEE

Title (Par. 56) Atlantic Crost, Allegate Boy to bugina Creek, Mich Carolina

Chief of Party O. S. Reading

Compiled by H. & Mac Even and La. Mr. Yam

Project Mich Carolina

Instructions dated

- 1. The survey and preparation for it conform to the requirements of the Topographic Manual. (Par. 8; and 16, a, b, c, d, e, g and i.)
- 2. The character and scope of the compilation satisfy the instructions and the "Notes on the Compilation of Planimetric Line Maps from Five Lens Aerial Photographs".
- 3. The control and adjustment of the radial plot were adequate. (Par. 12. 29.)
- 4. There is sufficient control on maps from other sources that were transmitted by the field party for their application to the charts. (Par. 28.)
- 5. High water line on marshy and mangiple coast is clear and adequate for chart compilation. (Par. 16a, 43, 44.)
- 6. The representation of low water lines, reefs, coral reefs and rocks, and legends pertaining to them is satisfactory. (Par. 36, 37, 38, 39, 40, 41.)
- 7. Important details shown on previous surveys and on the chart have been compared with this sheet and a statement has been entered in the report regarding the removal from the chart or change in position of important detail such as rocks, lights, beacons, prominent objects, bridges, docks, and structures along the water front.
- 8. The span, draw and clearance of bridges are shown. (Par. 16c.)
- 9. The data furnished by the Field Inspection is adequate. Tuld inspection was furnished in B prints no.

NOTE: Strike out paragraphs, words or phrases not applicable and modify those requiring it. Paragraph numbers refer to those in the Topographic Manual. Use reverse side for extending remarks.

(17) a list of recoverable datums was mot submitted m form 52H with photo entire that T-4760, however a list is entire that T-4760, however a list is entire that the marks trateg MT-4760 and transferred to this shall (T-5044) is submitted in the supple

- 10. The descriptive report covers all details listed in the Manual, so far as they apply to this survey. (Par. 64, 65 and 66.)
- 11. The descriptive report also contains all additional information required in photo topography as prescribed in the instructions and in the "Notes on the Compilation of Planimetric Line Maps from Five Lens Aerial Photographs".
- 12. The descriptions of recoverable stations and references to shore line were accomplished on Form 524, and scaling of positions checked. (Par. 29, 30 and 57.) see appose proje
- 13. A list of landmarks for charts was furnished on Form 567, and sealing of positions checked. (Par. 16d, e, 60.) Bescripting report 7-4760
  states that no landmarks in charts y value fell with The
  annual The plant.

  14. The geographic datum of the sheet is N.A. 1927
  and
  the reference station is account.

the reference station is correctly noted. (Par. 34.)

15. Junctions with contemporary surveys are adequate.

- Geographic names are shown on the sheet and are covered by the Descriptive Report. (Par. 64, 66k.) field impletion notes and parts control sheet # 7. 4760.
- 17. The quality of the drafting is good. (Par. 31, 32, 33, 35, 36, 37, 38, 39, 40, 41, 42, 45, 46.)
- 18. No additional surveying is recommended.

19. Remarks: This del was comfiled in the clashing me of

Chief of Party

21. Remarks after review in office:

Reviewed in office by: Frank Lesline, Feb. 15, 1434

Examined and approved:

ams Chief, Section of Field Records

Chief. Division of Charts

tude Chief, Division of

Hydrography and Topography.

applied & Cht. 1235 - Oct. 1934. Dr. D. Bank