5049

U. S. COAST & GEODETIC SURVEY T

JUN 2 1934

Acc. No.

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

Sheet No. 5049-7

LOCALITY 5049

Atlantic Coast

Bear Inlet to Alligator Bay

19.33.

CHIEF OF PARTY

O.S.Reading

U. S. GOVERNMENT PRINTING OFFICE: 193

77 .37 + 1 N	randa series de la companya de la c Esta de la companya d
34 V. A.	
ing State (1997) The state of the state of t	
	applied to chart 833 Sept 15, 1936 Alle
10.2	applied to ovar 833 Suft 13, 1926 XILLE.
A T	
4.7	
<i>*</i> .	
Array Array	
A	Godar Point N.A. 1927 Traffic
* C	34 33 06.627 (204.2) 27 20 16.248 (414.2)
	77 20 16.248 (414.2)
25	
/	
	, 1
L	
en in de la companya	

DESCRIPTIVE REPORT to Accompany AIR PHOTO TOPOGRAPHIC SHEET NO. 5049

1. General Information:

(a) This sheet is a compilation of Army Air Corps five lens photographs taken with a type T-3A camera from an altitude of approximately 10,000 feet. A Fairchild plane was used piloted by Lieutenant Goodrich with Sergeant Matos as photographer.

The photographs which embrace this sheet consist of a single strip, Nos. 210 to 232 inclusive, in addition to Nos. 233 to 236 of a strip along the New River. The sheet was compiled without the use of the "C" wing print, which is missing. The photographs were taken during the morning of January 29, 1933, and at this time the stage of tide was 1.7 feet above mean low water.

- (b) Included in this compilation are 27 square miles of area, 15.9 miles of shoreline, and 16.2 miles of intracoastal waterway, 30 miles of inside shoreline.
- (c) For a detailed description of the area, there are available descriptive reports Nos. 14721-4725, inclusive (under one cover).

2. Control:

(a) The control consists of second-order triangulation established by A. P. Ratti in 1932, 1933, and H. Odessey in 1933. Control is adjusted to the North American, 1927, datum, (from field Computations)

With the exception of triangulation stations Hatch U.S.E., Northbase U.S.E., Southbase U.S.E., and Swamp, all stations were used for control purposes. These, however, could not be identified on the photographs and for this reason could not be used.

- 3. (a and b). The radial line method of compilation was used. Considerable tilt was present in photographs Nos. 211 and 212; in 227 and 228 at the mouth of the New River. In this latter area the water line around the sport banks was traced from splanetable sheet No. 14721. The area covered by photos Nos. 211 and 212 was adjusted by selecting and intersecting additional control points.
- (c) Field inspection notes were satisfactory. All roads in this area are unimproved and, for the sake of clarity, are shown with full lines. Unless otherwise shown, all blank areas are fields or cultivated areas. The hackures along the canal denote spoil banks.
- (d) Aluminum field sheets Nos., B and, E were used in the compilation and all detail shown thereon was traced on this sheet.

4.(a) The junction with sheet No. 5044 (aerial) on the south is satisfactory. Sheet No. 5048 will adjoin on the north.

Respectfully submitted,

Leonard A. McGann

Leonard Windsauce

APPROVED:

Revisions:

A revision of New River Inlet and a section of the Intra Coastal Waterway at Beacon No. 3\$, near the entrance to New River was made January 30, 1934. This revision was applied before sheet was printed.

Photographs No. (M74 - 844J - 8) and (M75 - 844J - 8) taken at 12:50 P. M., January 14, 1934, cover these areas. At the time these photographs were taken the height of tide was approximately one foot below mean low water.

Lemando Mulsum.

RECOVERABLE TOPOGRAPHIC STATIONS *

Description .	Position				Remarks
	Lat.	D.M.	Long.	D.P.	
Bn. 👆. 29A	34° 371	675 (1173)	770 121	1063 (469)	,
n. No. 29B	34° 36'	888 (960)	77° 13'	1152 (377)	ŧ
n. No. 290	34° 351	1460 (388)	77° 141	887 (642)	•
. Bn. No. 31	34° 32'	1271 (578)	77° 19'	69 (1460)	
. Bn. No. 31B	34 ⁰ 32'	1609 (240)	77° 191	1166 (363)	,
t. Bn. No. 33	34° 33'	425 (1423)	77° 21'	178 (1351)	
a. No. 10	34° 31'	1124 (724)	77° 21'	1505 (24)	
5. Bn. No. 1	34° 31'	95 (1753)	77° 22'	453 (1076)	
	* Hus T.600	4 to 7-504	one hausfen	, o from T- 600	3 and
		;			

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
REGISTER NO. 5049
State North Carolina
General locality Atlantic Coast
Locality Bear Inlet to Alligator Bay photographs - Jan. 29, 1933 compilation - Sept.
Scale 1:20,000 Date of sourcey 1933
Plane Wester Fairchild, type F-1A. Lieut. Goodroch, Pilot; Sgt. Matos,
compilation 0. S. Reading photographer
Photos plotted L. A. McGenn, Sept., 1933 Lamesauce
Inked by L. A. McGann, Sept., 1933 Ca. Indjanu.
Heights in feet aboveto ground to tops of trees
Contour, Approximate contour, Form line intervalfeet
Instructions dated, 19, 19
Remarks: Compilation of 5-lens aerial photographs Nos. 210-
236, incl.
Polyconic projection by L. A. McGann, August 31, 1933. Lam.
Projection verified by F. G. Erskine, Sept. 1, 1933 4-9.6.
Control plotted by L. A. McGann, Sept. 1, 1933 Lam
Control verified by J. H. Walbern, Sept. 1, 1933.

M-10

Title (Par. 56) Atlantic Coast, Bear fulch to Allegator Bay, N.C. Chief of Party O. S. Rading Compiled by L. a. M. Ganne Project With 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.)
- 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 mangrove coast is clear and adequate for chart compilation. (Par. 16a, 43, 44.)
- 6. The representation of low water lines, reefs, coral reefs and rooks, 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. See reverse side
- 8. The span, draw and clearance of bridges are shown. (Par. 16c.)
- 9. The data furnished by the Field Inspection to adequate. was for the "B" (or custer) prints only. The data furnished was good!

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.

(7) A comparison of this sheet with T-4721 indicates several differences, most of them being of minor importance. These differences were checked and it is believed that the photo topographic sheet is correct. New River Inlet was revised with photographs taken January 14, 1934, and is naturally different from T-4721. At the time of the Intra Coastal Waterway at Beacon #31 (34-32\frac{1}{2}, 77-19) another difference was verified by these photographs taken January 14, 1934. Was crown by Tulk to the following the following the first several difference was several system by Tulk to the first day with the first that the first several day Tulk to the first day with the first several day Tulk to the first day with the first day with the first day with the first day of the first day of the several option on the photographs and are shown on the sheet by broken lines and labeled.

At New River Inlet Lat. 34.32+, Long. 77-20\frac{1}{4}, T-4721 shows a shoal spot by means of sanding and two low water lines. The hydrographic sheet, H-5277, shows an island with a low water line around it. Revision partograph (M 74 - 844 J-8) taken at about low water shows the shoal spot clearly, but does not give any indications of an island. The shoal spot is not shown on T-5049.

On T-4721 \odot BAT (Light #8) is really \bigtriangleup Light #8, 1932. The position as plotted on T-4721 is some fifteen meters north of the position according to the 1932 triangulation. There are several other lights and beacons shown by red circles for which triangulation is available, but these were not checked, (on 7-4721)

- (12) A list of recoverable stations was not submitted on form 524 however, There is a list of plain table positions in descriptive report T-6003. Attached to this report (T-5049) is a list of beacons located on T-6003 and T-6004 and transferred to this sheet.
- (16) Names appearing on this sheet are from charts 1234, 1235 and 422 with the exception of Mile Hammock Bay, Salliers Bay, and Halover Creek. These three names are from T-4721, (see Descriptions Report T-4721). These names have been accepted because of local usage. Mile Hammock Bay is shown as "Salliers Bay" on the present chart. Salliers Bay is the first large bay east of "Salliers Bay" on the chart. Halover Creek is the largest creek emptying into this bay.

10. The descriptive report covers all details listed in the Manual, so far as they apply to this survey. (Par. 64, 65 and 66.)

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.) Lee office page
- 13. A list of landmarks for charts was furnished on Form 567 and scaling of positions checked. (Par. 16d, e, 60.) with T-6003 and T-6004.
- 14. The geographic datum of the sheet is N.A. 1927 and and the reference station is correctly noted. (Par. 34.)

 The Morth answers valen is induated by interestime.
- 15. Junctions with contemporary surveys are adequate.
- 16. Geographic names are shown on the sheet and are covered by the Descriptive Report. (Par. 64, 66k.) he think the
- 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.
- Remarks: This sheet was compeled in the Washington
- 20. Examined and approved:

٠,

Chief of Party

Remarks after review in office:

Reviewed in office by: Frank 4. Enkine - May 15, 1934

Examined and approved:

Chief, Section of Field Work

Chief, Division of

Hydrography and Topography.

applied to chr. 1234 - Oct 9-1934 - N. G. Gamble