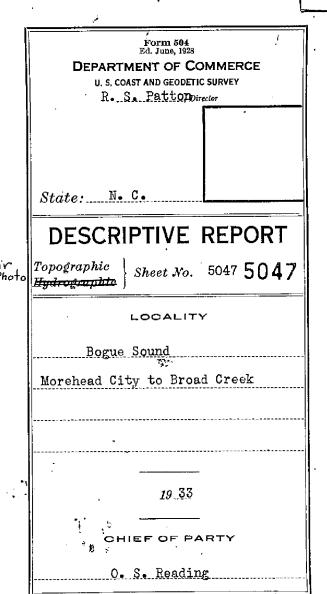
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DESCRIPTIVE REPORT to Accompany AIR PHOTO-TOPOGRAPHIC SHEET NO. 5047 BOCHE SOUND, N. C.

BOGUE SOUND, N. C. 1933

GENERAL INFORMATION

Statistics (Statute	miles):		j		
a. Square statu	te miles of area	berevo			. 51.0
b. Length of she	oreline along outs	side coast .			. 15.0
c. Length of she	oreline more than	200 m. from (opposite sh	ore	· 52.0
	ghs and islands le				•
	include narrow che				

Additional Reports:

T.6001 and

T-6002 Descriptive reports for aluminum mounted topographic sheets B and O (field letter) executed by the party of H. Odessey, Ship GILBERT, Jamuary to April, 1933. The above mentioned sheets were executed primarily to furnish photo control and the location of aids to navigation not located by triangulation.

Photographs:

This sheet was plotted from one continuous flight; photographs No. 87 at Morehead City to No. 117 in the vicinity of Broad Creek. The center line of the "B" prints follows the north shore of Bogue Sound. All photographs were taken at dead low water.

CONTROL

Sources:

Third order triangulation executed in 1908, 1914, and 1927 and second order revision control, H. Odessey, Ship GILBERT, 1933.

Errors:

The triangulation used for control had been checked and revised at the time of the field inspection and no plottable errors were discovered. Additional points located on the topographic sheets were used to supplement the triangulation control.

Datum:

Datum corrections were applied to all control on this sheet bringing the projection to the N.A. 1927 datum. This operation was necessary because the second and third order triangulation for this area is as yet unadjusted.

COMPILATION

Method:

Standard radial-line plot.

Orginal

6001,6002

Adjustment:

The control in this area is so intense that the radial line plot never deviated far from the true position. Small errors that developed between fixed pictures were carefully investigated and corrected as the plot progressed.

Interpretation:

Having made the field inspection myself, I found no difficulty in interpreting the different topographic features. The high water line along the outer beach and in the vicinity of the inlets was often so indefinite as to be difficult of location within 10 meters by field inspection. A few definite locations of high and low water were made on the topographic sheets and were used as a guide in determining these features elsewhere on the sheet.

Information from Other Sources:

Such features as high and low water line, docks, edges of dredged cut, etc., which were located on the topographic sheets (H. Odessey, 1933) covering this area were used as supplemental control for plotting the sheet and determining features not clearly shown in the photographs.

COMPARISON WITH OTHER SURVEYS

to the west

A perfect junction was made with sheet No. 5048 because the radial plots for the two sheets were made at the same time and carried through the junction by securing the sheets together at the overlap. Sheet No. 5046 has not yet been plotted.

Landmarks:

A complete list of landmarks for charts covering this area was compiled from the 1933 triangulation and forwarded to the office by H. Odessey, commanding Ship GILBERT.

Recommendations:

It is believed that there is no plottable error in the position of well defined detail of importance for charting and a possible error of not more than ten meters for other detail.

Respectfully submitted,

S. B. Grenell

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Jr. H. & G. Engineer U.S.C. & G. Survey.

Orginal

Reflight Photos.

Single lens photographs Nos. M1-855B to M24-855B taken January 18, 1934, were supplied to make any revision necessary in the outer coast due to storms in the Fall of 1933. No revision was necessary.

Lionard a. Mulsame. aug. 29. 1934.

escription	Position					Remarks	
· · · · · · · · · · · · · · · · · · ·	Lat D.M.		Long.		.P.		
Beacon.	340 421	1764 (85)	770 431	496 (1029) S	o. of Morehead	
. No. 1A	34 43'	491 (1358)	77 46'	1056 (4	470)		
Bn. No. 3A	34 43'	677 (1172)	77 49'	505 (1022		
Bn. No. 5A	34 43	811 (1038)	77 51'	204 (1323)		
Bn. No. 7A	34 431	523 (1326)	77 52'	1447 (80)		
Bn. No. 9A	34 431	1838 (11)	77 54'	1212 (315)		
Bn. No.11A	34 42'	1202 (647)	77 561	773 (754)		
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	T-60	001 and T-60	02.				
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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. XXXX 5047

REGISTER NO. 5047

State North Carolina
General locality Bogue Sound
Locality Morehead City to Broad Creek
Aerial Photographs 1:00 p.m. Scale 1:20,000 Date of survey Jan. 24 , 1933 Date of Compilation Nov. 1933
Vessel Army Air Corps Plane
Chief of party O. S. Reading, Washington Office.
Surveyed by (Plotted by) S. B. Grenell
Inked by S. B. Gfenell
Heights in feet aboveto ground to tops of trees
Contour, Approximate contour, Form line intervalfeet
Instructions dated Washington Office , 1933.
Remarks: Compilation from aerial photographs No. 87 to No. 117
Compilation by standard Radial Plot Method
Polyconic projection by S.B.G. Sept. 26, 1933 by E.H.K. " " " Checked by E.H.K. " " " " " " " " " " " " " " " " " "
Control plotted By S.B.G. Sept. 27, 1933 Control checked by E.H.K. " " "



Title (Par. 56) Morehead City to Broad Creek, Boque Sound, N. C. Chief of Party O. S. Reading Compiled by S. B. Grenell

Project North 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 mangrove 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. See reverse side of this sheet
- 8. The span, draw and clearance of bridges are shown. (Par. 16c.)
- 9. The data furnished by the Field Inspection is adequate.

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.

A comparison was made between this sheet and the following surveys: T-315(1851), T-438(1854), T-874(1862), T-1110(1867), T-1328(1873), T-3387(1913), T-4267(1927), T-4267A(1928) and T-4295(1927).

The outer coast has been constantly shifting back and forth. Generally speaking the present coastline is seaward from the surveys made prior to 1900 and inshore from the surveys made after 1900.

The general features of the topography have remained the same since the earliest survey but the details have naturally changed. Evidence of White Rock and Cross Rock (in Newport River) appears as sanding on T-1328(1873). Several small islands appearing as late as the 1913 survey have disappeared. The pier near the Beach Hotel extending into Money Island Bay is not as large as it was in 1927.

The road paralleling the beach on the south side of Bogue Sound (Lat. 34°-42', Long. 77°-43' to 77°-44') was built after the photographs used in the compilation were taken. It was applied to this sheet from re-flight single lens photo No. M-19-855 F-8.

The road and pier shown on chart 1234 and on T-4267 and T-4267A at Lat. $34^{\circ}-42^{\circ}$, Long. $76^{\circ}-42^{\circ}$ are not shown on this sheet. The photographs were examined and it is apparent that the photographs are no longer in existence.

There are three docks (Lat. $34^{\circ}-43\frac{1}{2}$, Long. $76^{\circ}-47\frac{1}{2}$, $76^{\circ}-50\frac{1}{2}$, $76^{\circ}-50\frac{1}{2}$) on the north shore of Bogue Sound shown on chart 1234 which are not shown on this sheet, T-5247. There is no evidence of them in the photographs and the photo control sheets T-6001 and T-6002 do not show them. It is believed that these docks are no longer in existence.

There are two docks shown on chart 1234 (Lat. $34^{\circ}-43\frac{1}{2}$), Long. $76^{\circ}-51$ 3/4', $76^{\circ}-53$) that appear on this sheet as ruins of docks. This information was obtained from the photo control sheets T-6001 and T-6002.

At Lat. 34° - 43° 2/3' Long., 76° - $55\frac{1}{2}$ ' the chart shows a small pond (from T-1110). An examination of the photographs indicates that this pond has dried up.

In Newport River rock awash symbols are shown on the chart to mark "White Rock", "Turtle Rock", and "Cross Rock". This was applied to the chart from blue print #20961 (1926). These rocks are cyster beds and are indicated on this sheet by the sanding symbol.

10.	The descriptive	report covers	all details	listed in	the Manual,
	so far as they a	pply to this a	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.) A list of recoverable to make the statement which were transfer of the T-book and the source transfer of the statement of the statemen
- 13. A list of landmarks for charts was furnished on Form 567 and scaling of positions checked, (Par. 16d, e, 60.) with T-600 fand T-6000.

 The mention was made y some of the landwards appearing on the chart
- 14. The geographic datum of the sheet is N.A. 1937 and the reference station is correctly noted. (Par. 34.)
- 15. Junctions with contemporary surveys are adequate.

16. Geographic names are shown on the sheet and are govered by the Descriptive Report. (Par. 64, 66k.)

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 sheet was compiled in the Washington office.

20. Examined and approved:

Chief of Party

21. Remarks after review in office:

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Trank y. Eskine

Examined and approved:

Reviewed in office by:

Chief, Section of Field Records

Chief, Division of Charts

Chief. Section of Field Work

Chief, Division of

Hydrography and Topography.

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