

5560

Form 504  
Rev. Dec. 1933  
DEPARTMENT OF COMMERCE  
U.S. COAST AND GEODETIC SURVEY  
R. S. PATTON, DIRECTOR

## DESCRIPTIVE REPORT

Topographic } Sheet No. T - 5560  
~~Hydrographic~~

State North Carolina.

### LOCALITY

Pamlico River

Jones Bay.

~~1934~~  
Date of photos. Oct 20, 1934.

CHIEF OF PARTY

S. B. Grenell.

Applied to chart No. 832 Jan 21, 1937 R.L.J.  
Applied to Chart Correction 1231, Feb. 25, 1937. H.S. MacEwen

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. T - 5560

REGISTER NO.

State North Carolina.

General locality Pamlico River

Locality Jones Bay

Scale 1:10,000<sup>\*</sup> Date of survey April - July, 19 35

Vessel Air Photo Compilation Party # 18.

Chief of party S. B. Grenell. *S. B. Grenell*

Surveyed by

Inked by J. B. Williams, Jr.

Heights in feet above to ground to tops of trees

Contour, Approximate contour, Form line interval feet

Instructions dated December 14, 19 34

Remarks:

<sup>\*</sup> *Blueprint scale 1/9708.*

# NOTES ON COMPILATION

One copy of this form must accompany each chart from beginning to completion. The last draftsman, whose name appears on this form, is responsible for it and all personnel will endeavor to keep these forms up to date and correctly posted. This form is very important inasmuch as the final Descriptive Report of the Chart compiled is based upon the information contained herein.

SHEET NO. 5560  
 PHOTO NO. 1140-37 70 54 ✓  
 PHOTO NO. 1140-75 70 88

	BY	START	FINISH
ROUGH RADIAL PLOT	<u>J. B. Hickman</u>	<u>4/24/35</u>	<u>4/30/35</u>
SCALE FACTOR ( <u>1.03</u> )	<u>J. B. Hickman</u>	<u>4/24/35</u>	<u>4/30/35</u>
SCALE FACTOR CHECKED _____			
PROJECTION	<u>A. M. Gruber</u>	<u>5/4/35</u>	<u>5/4/35</u>
PROJECTION CHECKED	<u>S. B. Grenell</u>	<u>5/4/35</u>	<u>5/4/35</u>
CONTROL PLOTTED	<u>J. W. Griffith</u>	<u>5/6/35</u>	<u>5/6/35</u>
CONTROL CHECKED	<u>A. M. Gruber</u>	<u>5/6/35</u>	<u>5/6/35</u>
TOPOGRAPHY TRANSFERRED _____			
TOPOGRAPHY CHECKED _____			
SMOOTH RADIAL LINE PLOT	<u>J. B. Hickman</u>	<u>5/10/35</u>	<u>5/18/35</u>
RADIAL LINE PLOT CHECKED _____			
DETAIL INKED	<u>J. Williams Jr.</u>	<u>5-29-35</u>	<u>7/17/35</u>
AREA DETAIL INKED	<u>14.1</u>	sq. Statute Miles ✓	
LENGTH OF SHORELINE OVER <u>200</u> m.	<u>27.9</u>	Statute Miles ✓	
LENGTH OF SHORELINE UNDER <u>200</u> m.	<u>9.2</u>	Statute Miles	
GENERAL LOCATION	<u>North Carolina, Pamlico River.</u>		
LOCATION	<u>Jones Bay.</u>		
DATUM STATION	<u>SOW - 1933-85</u>	Latitude <u>35° 13' 10.06"</u>	<u>(310.1 m)</u> ✓
	<u>N.A. 1927</u>	Longitude <u>76° 29' 28.86"</u>	<u>(729.9)</u>

REPORT OF COMPILATION:RADIAL LINE PLOT:

*The general report for compilations T-5550 to T-5566, incl. is filed with report T-5550. Lam.*

The standard radial line plot method was used in compiling this sheet; with no particular difficulties encountered except for scale differences in some prints. This difficulty was overcome by using the same methods previously resorted to in connection with other prints for this project.

All control stations on this compilation were held in running through the radial plot.

Common points to adjacent flights were well selected and held throughout the plot.

The scale factor for this and adjoining compilations T-5558 on the North, and T-5559 and T-5561 on the West, was the same, 1.03, and the radial plot was carried through sheet junctions by sticking the sheets together.

ADJUSTMENT OF PHOTOGRAPHS:

The photographs in general showed no excessive amount of tilt, and radial points were well selected and distributed. In a few areas where tilt was noticeable, additional points were established by interlacing.

No unusual difficulties in adjustment were encountered.

INTERPRETATION:

The photographs are clear, showing topographic detail well and sharply defined except on extremities of wing prints. In any doubtful areas the stereoscope was used to bring out detail.

Standard Topographic symbols were used to indicate topographic detail except for the cultivated areas, which are clearly outlined on the compilation by intricate systems of drainage ditches easily discernable on the photographs.

COMPARISONS WITH CONTEMPORARY SURVEYS:

*T-6403a., T-6403b.*

Junctions with adjoining sheets were made in this office and are complete and satisfactory.

Compilation shoreline along Bay River common to field topographic sheets "A" and "B", executed in 1935 by the party of J. C. Bose, was checked against the topographic sheets and the following discrepancies noted:

(1) Compilation shoreline along the marshy point on the west side of Rock Hole Bay failed to check the topographic sheet by from 10 to 15 meters in Longitude, while shoreline on either side of the point checked nicely. The radial plot was excellently controlled in this area, and the shoreline in question was traced from "B" prints absolutely free from tilt. After a thorough examination, it was decided that the error lay in the field topographic sheet; probably due to a faulty 3 point fix worked by the topographer on the tip of the marshy point.

(2) Compilation shoreline in the immediate vicinity of triangulation station "Bay 2", 1935 checked the field topographic sheet, but was consistently off to the northeastward of the station after rounding Bay River Point. After a careful examination of the compiled shoreline, it was decided that the topographic sheet was in error, probably due to the topographer being off in azimuth after rounding Bay River Point.

The field topographic sheets in question had already been inked when checked against this compilation, so the discrepancies were taken up and discussed with J. A. Bond, who took over the field sheets from J. C. Bose.

REPORT OF COMPILATION (CONTINUED):

## COMPARISONS WITH OTHER SURVEYS:

This compilation was compared with U. S. C. & G. S. Chart #1231, covering the same area, and the compiled detail was found to agree in general with the charted detail. There were no other charts or old topographic sheets available with which to check the compilation further.

## ACCURACY AND COMPLETENESS:

The area covered on this compilation is complete in every detail in so far as can be determined from the photographs. The compilation should have a probable error in well defined detail of not more than 10 meters and in less well defined detail of not more than 20 meters.

## PHOTOGRAPHS:

Photo. Nos.	Time	Date	Tide
(M 80) 37 -- 54	2:00 P.M.	10/20/34	No tide.
(M 80) 75 -- 88	2:15 P. M.	10/20/34	No tide.

See following pages for "Place Names".



N A M E S

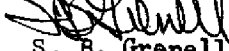
LEGEND:

- W. E. -- Well established local name known throughout large area.  
 L. N. -- Local name known in immediate area only.  
 O. S. -- Appears on old Topographic Sheet.  
 C. ----- Charted.

NAME	LEGEND	REMARKS
✓ <u>Big Porpoise Bay.</u>	C., O. S. (T095)	
✓ <u>Sage Point.</u>	W. E.	
✓ <u>Middle Bay Point.</u>	W. E.	
✓ <u>Deep Point.</u>	W. E.	
✓ <u>Big Oyster Creek.</u>	W. E.	
✓ <u>Oyster Creek Point.</u>	W. E.	
✓ <u>Little Oyster Creek.</u>	W. E.	
✓ <u>Rocky Point.</u>	W. E.	
✓ <u>Capp Creek.</u>	W. E.	
✓ <u>Boat Passage.</u>	W. E. — not a geographic name	
✓ <u>Lone Tree Creek.</u>	W. E.	
✓ <u>Ragged Point.</u>	W. E.	
✓ <u>Middle Bay.</u>	C., O. S. (T1095)	
✓ <u>Preston Bay.</u>	W. E.	
✓ <u>Flower Bay.</u>	W. E.	
✓ <u>Roundabout Bay.</u>	W. E.	
✓ <u>Big Fishing Point.</u>	W. E.	
✓ <u>Fishing Bay.</u>	W. E.	
✓ <u>Little Fishing Point.</u>	W. E.	
✓ <u>The Old Sow Island.</u>	C., O. S. (T1095)	
✓ <u>Sow Island Point.</u>	W. E.	
✓ <u>Coot Creek.</u>	L. N.	
✓ <u>Mink Trap Point.</u>	W. E.	
✓ <u>Taylor Ditch.</u>	W. E.	
✓ <u>Drum Creek.</u>	C., O. S. (T1095)	
✓ <u>Drum Creek Point.</u>	W. E.	
✓ <u>Beef Creek.</u>	W. E. reject	duplication of names (see T5561)
✓ <u>Dowdy Creek.</u>	W. E.	
✓ <u>Maiden Point.</u>	W. E., C. (1095)	
✓ <u>Little Eve Creek.</u>	W. E.	
✓ <u>Little Drum Creek.</u>	W. E.	
✓ <u>Boar Point.</u>	W. E.	
✓ <u>Sound Bay.</u>	W. E.	
✓ <u>Bay River Point.</u>	W. E.	Charted as "Bay Point"
✓ <u>Rock Hole Bay. (one word)</u>	W. E.	
✓ <u>Dump Creek.</u>	W. E.	Sometimes called "Dump Bay".

Field Review by: John Tassapoulos,  
 Draftsman.

Respectfully submitted:  
 J. B. Williams, Jr.,  
 Draftsman.

Examined and Approved:   
 S. B. Grenell,  
 Chief of Party.

names checked are approved for this compilation  
 but are not intended for charting

✓ JONES BAY  
 ✓ BAY RIVER  
 ✓ GOOSE CREEK ISLAND

Names underlined in red approved  
 by K.T.A on 1/9/36

REVIEW OF AIR PHOTO COMPILATION NO. T 5560 (1934)  
Scale 1:10,000

Comparison with Graphic Control Surveys

T-6403a (1935), 1:10,000

The discrepancies between shoreline on this compilation and T 6403a in Rockhole Bay and vicinity are ~~discussed~~ on page / of the preceding report T 5560. The photo plot of this shoreline is accepted after examination of the photographs in this office. This area was traced from near the center of well controlled photographs. The Field Party has adjusted the Hydrographic Signals located on T 6403a to fit the airphoto compilation shoreline.

T 6403b (1935), 1:10,000

There are no discrepancies between T 6403b and this compilation.

All detail on T 6403a, T 6403b within this area is shown on this compilation except non-recoverable plane table positions and the magnetic declination.

Comparison with Previous Topographic Surveys

T 1094 (1869), 1:20,000

Survey T 1094 covers Bay River and vicinity. Fisherman Islands and the Old Boar Islands shown on T 1094 near Bay Point are no longer in existence. Survey T 1094 is superseded by this compilation over the common area.

T 1095 (1869), 1:20,000

Survey T 1095 covers the western shore of Pamlico Sound from Pamlico Point to Bay River including Jones Bay. The Old Boar Island shown on T 1095 near the entrance to Jones Bay is no longer in existence. The small high ground area covered with pines as shown on T 1095 at  $35^{\circ} 13.5/76^{\circ} 30.5$  appears on the photos as a marsh area. Terrapin Island and Brant Island shown on T 1095 fall outside the limits of this compilation. ~~even the common area.~~ T 1095 is superseded by this compilation *over the common area*

Comparison with New Hydrographic Surveys

H 5926 (1935), 1:10,000

There are no conflicts between the hydrography of H 5926 and the shoreline of this compilation.



Comparison with the ChartsCharts No. 1231, 3253

The report for this compilation does not mention landmarks. According to the graphic control surveys T 6403a, T 6403b there are no landmarks of importance for charting in the area covered by them. In the marsh area not covered by graphic control surveys no objects appear prominent on the photographs.

All lights in this area have been located by triangulation. The number but not the position of Beacon No. 42 has been changed since its position was determined by triangulation according to information furnished by the U. S. Lighthouse Service. The new number is shown on the compilation in parenthesis after the station name. The changes of numbers have been reported in Notice to Mariners, January, 1936, but the new numbers are not shown in the Light List for 1936.

Fisherman Islands at  $35^{\circ} 11' / 76^{\circ} 31.4'$  and The Old Boar at  $35^{\circ} 12' 2 / 76^{\circ} 31'$  are no longer in existence.

*Terrapin Island and Brant Island are not shown on this compilation for they fall without the limits of this compilation. ~~There was no evidence that they had been discovered.~~*  
Remarks: *Terrapin Island shows on the photographs. Brant Island is off the limit of the photographs.*

Pages 5 to 8a of report T 5550 discussed camera errors and the need for more than the usual amount of control on this project. Considering this condition the estimate of accuracy of 10 to 20 meters given on page 2 of the preceding report T 5560 may be exceeded particularly in the area east of longitude  $76^{\circ} 31'$ .

Comparison with the old surveys gives a sufficient check to show that there are no large errors and the compilation is accepted as of sufficient accuracy for application to the charts.

The portion of this compilation affecting the differences with T 6403 as listed on the preceding page has adequate control.

May 23, 1936

*Leonard A. McGowan*  
*B.G. Jones*

## REVIEW OF AIR PHOTO COMPILATION NO. T-5560

Chief of Party: *S. B. Grene II*Compiled by: *J. B. Williams Jr.*Project: *North Carolina Coast* Instructions dated: *Dec. 14, 1934*

1. The charts of this area have been examined and topographic information necessary to bring the charts up to date is shown on this compilation. (Par. 16a, b, c, d, e, g and i; 26; and 64) ✓
2. Change in position, or non-existence of wharfs, lights, and other topographic detail of particular importance to navigation which affect the chart, is discussed in the descriptive report. (Par. 26; and 66 g, n) ✓
3. Ground surveys by plane table, sextant, or theodolite have been used to supplement the photographic plot where necessary to obtain complete information, and all such surveys are discussed in the descriptive report. (Par. 65; and 66 d, e) *None* ✓  
*Graphic control surveys T-6403 a, and T-6403 b*  
*Cover a portion of this compilation. Run.*
4. ~~Blue prints and maps from other sources which were transmitted by the field party contain sufficient control for their application to the charts. (Par. 28)~~ *None*  
*None transmitted.*
5. Differences between this compilation and contemporary plane table and hydrographic surveys have been examined and rectified in the field before forwarding the compilations to the office and are discussed in the descriptive report. ✓
6. The control and adjustment of the photo plot are discussed in the descriptive report. Unusual or large adjustments are discussed in detail and limits of the area affected are stated. (Par. 12b; 44; and 66 c, h, i) ✓
7. High water line on marshy ~~and mangrove~~ coast is clear and adequate for chart compilation. (Par. 16a, 43, and 44) ✓  
*No sand beach in this area*

NOTE: Strike out paragraphs, words or phrases not applicable and modify those requiring it. Paragraph numbers refer to those in the Topographic Manual. Refer also to the pamphlet "Notes on the Compilation of Planimetric Line Maps from Five Lens Air Photographs."

8. ~~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)~~ ✓  
*No low water lines etc to be shown ✓*
9. Recoverable objects have been located and described on Form 524 in accordance with circular 30, 1933, circular letter of March 3, 1933, and circular 31, 1934. (Par. 29, 30, and 57)  
*No recoverable objects located and described ✓*
10. A list of landmarks was furnished on Form 567 and instructions in the Director's letter of July 16, 1934, Landmarks for Charts, complied with. (Par. 16d, e; and 60)  
*No landmarks in this area except non-floating aids to navigation ✓*
11. ~~All bridges shown on the compilation are accompanied by a note stating whether fixed or draw, clearance, and width of draw if a draw bridge. Additional information of importance to navigation is given in the descriptive report. (Par. 16c)~~ ✓  
*None ✓*  
*No bridges on this compilation ✓*
12. Geographic names are shown on the overlay tracing. The accepted local usage of new names has been determined and they are listed in the report, together with a general statement as to source of information and a specific statement when advisable. Complete discussion of place names differing from the charts and from the U. S. G. S. Quadrangles is given in the descriptive report, together with reasons for recommendations made. (Par. 64, and 66k) ✓
13. The geographic datum of the compilation is *NA 1927* and the reference station is correctly noted. ✓
14. Junctions with adjoining compilations have been examined and are in agreement. (Par. 66j) ✓
15. The drafting is satisfactory and particular attention has been given the following:
  1. Standard symbols authorized by the Board of Surveys and Maps have been used throughout except as noted in the report. ✓
  2. The degrees and minutes of Latitude and Longitude are correctly marked. ✓

3. All station points are exactly marked by fine black dots. ✓
4. Closely spaced lines are drawn sharp and clear for printing. ✓
5. Topographic symbols for similar features are of uniform weight. ✓
6. All drawing has been retouched where partially rubbed off. ✓
7. Buildings are drawn with clear straight lines and square corners where such is the case on the ground. ✓

(Par. 34, 35, 36, 37, 38, 39, 40, 41, 42, 43, 44, 45, 46, 48)

16. No additional surveying is recommended at this time. ✓

17. Remarks:

18. Examined and approved; 12/17/35

*[Signature]*

Chief of Party

19. Remarks after review in office:

Reviewed in office by: *Lionard A. McGowan* May 23, 1936.  
*V.B.G. Jones*

Examined and approved:

*K.T. Adams*  
Asst Chief, Section of Field Records  
*L.O. Solbut*  
Chief, Division of Charts

*Fred. L. Peacock*  
Chief, Section of Field Work  
*[Signature]*  
Acting Chief, Division of Hydrography  
and Topography.