

8726

Diag. Cht. No. 1231-2

Form 504

U. S. COAST AND GEODETIC SURVEY

DEPARTMENT OF COMMERCE

DESCRIPTIVE REPORT

Type of Survey TOPOGRAPHIC

Field No. _____ Office No. T-8726

LOCALITY

State North Carolina

General locality Pamlico Sound *N. - 87*

Locality Hunting Island to Swan Point

194 6-'48

CHIEF OF PARTY

R.J.Sipe, Chief of Field Party

R.A.Gilmore, Tampa Photo. Office

LIBRARY & ARCHIVES

DATE April 19, 1950

8-1870-1 (1)

8726

DATA RECORD

T- 8726

Quadrangle (II): *North Bay*

Project No. (II): Ph-5(45)C

Field Office: Morehead City, N.C. Chief of Party: Lieut. Comdr. Riley J. Sipe

Compilation Office: Tampa, Fla. Chief of Party: Lieut. Comdr. Ross A. Gilmore

Instructions dated (II III): Undated

Copy filed in Descriptive *Office Files*
Report No. T- ~~(VI)~~ *Dir of Photog.*Completed survey received in office: *4-19-48*Reported to Nautical Chart Section: *4-26-48*Reviewed: *2/17/50**Partially*
Applied to chart No. *1233* Date: *2/25/49*

Redrafting Completed:

Registered: *4/11/50*

Published:

Compilation Scale: 1:20,000

Published Scale: *1:24,000*

Scale Factor (III): None

Geographic Datum (III): N.A. 1927

Datum Plane (III): M. S. L.

Reference Station (III): NORTH, 1920

Lat.: 35° 02' 08.671" (267.2m) Long.: 76° 21' 37.901" (960.7m) *Adjusted*
~~Unadjusted~~State Plane Coordinates (VI): *North Carolina State Grid*

X =

Y =

Military Grid Zone (VI)

PHOTOGRAPHS (III)

| <u>Number</u> | <u>Date</u> | <u>Time</u> | <u>Scale</u> | <u>Stage of Tide</u> |
|---------------|--------------|-------------|--------------|----------------------|
| 15962 | 5 April 1946 | 13:27 | 1: 20,000 | Tide negligible |
| 15963 | 5 April 1946 | 13:28 | 1: 20,000 | in Pamlico Sound |

Tide from (III): None

Mean Range: Negligible

Spring Range:

Camera: (Kind or source) U. S. Coast and Geodetic Survey 8.24" focal length

Field Inspection by: S.J. Hathorn
R.A. Horn
E.L. Williams

date: March- Aug. 1947

Field Edit by: John D. Weiler

date: Oct. 8, 1948

Date of Mean High-Water Line Location (III):
March and August 1947

Projection and Grids ruled by (III) T.L.J. (Wash. O.) date: 30 Oct. 1947

" " " checked by: H. D. W. " date: 30 Oct. 1947

Control plotted by: R. Dossett date: 25 Nov. 1947

Control checked by: B. F. Lampton date: 25 Nov. 1947

Radial-Plot by: M. M. Slavney date: 1 March 1948

Detailed by: William H. Shearouse date: March 1948

Reviewed in compilation office by: J. A. Giles date: March 1948

Map manuscript
Elevations on Field Edit Sheet
checked by: J. A. Giles date: March 1948

STATISTICS (III)

Land Area (Sq. Statute Miles): 3.8

Shoreline (More than 200 meters to opposite shore): 10.3 Statute miles

Shoreline (Less than 200 meters to opposite shore): 5.3 Statute miles

Number of Recoverable Topographic Stations established: 3

Number of Temporary Hydrographic Stations located by radial plot: None

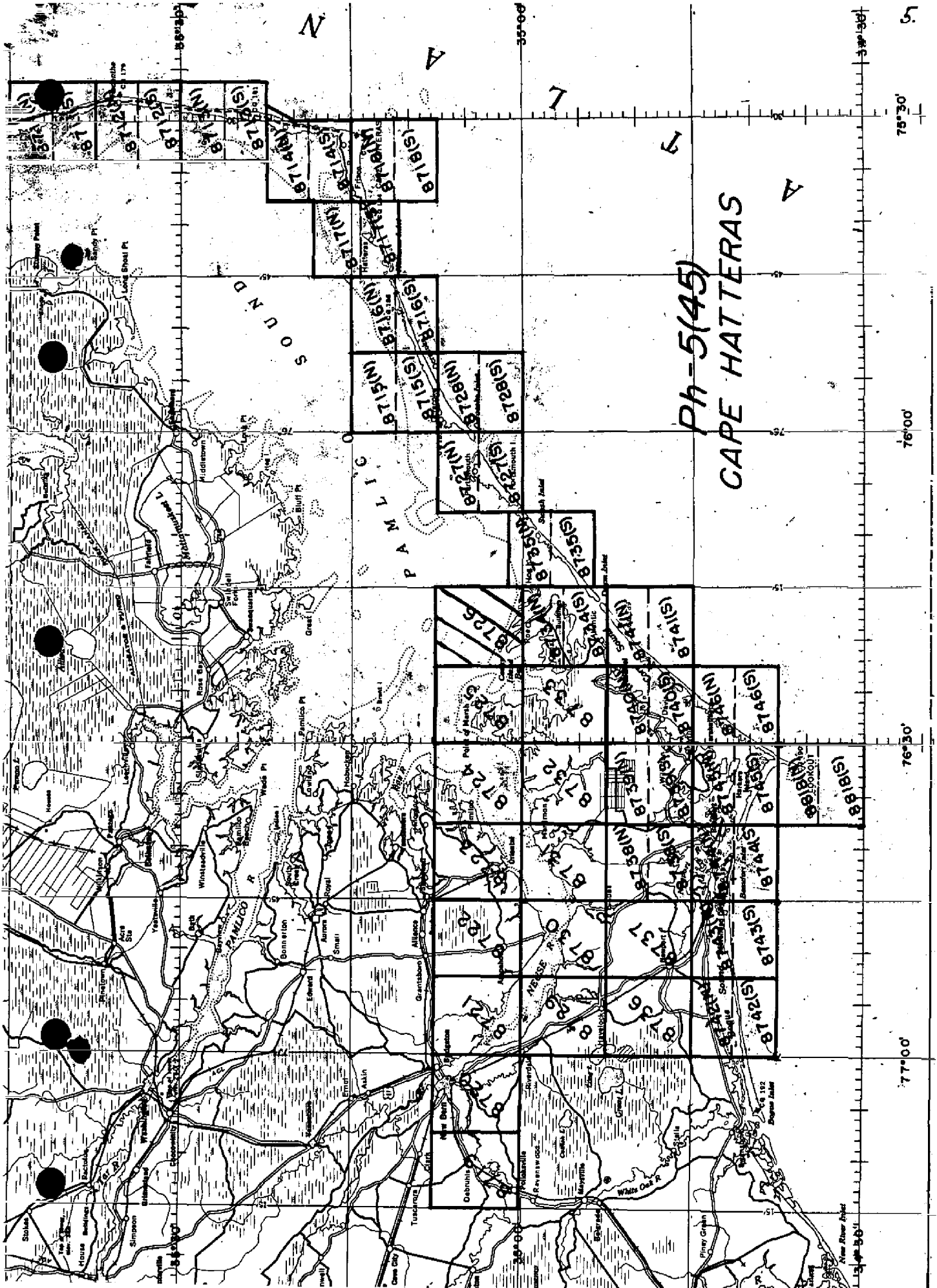
Leveling (to control contours) - miles: None

Roman numerals indicate whether the item is to be entered by, (II) Field Party, (III) Compilation Party, or, (VI) the Washington Office.

When entering names of personnel on this record give the surname and initials (not initials only).

Remarks:

PH-5(45)
CAPE HATTERAS



Summary Report to Accompany T-8726

Topographic map T-8726 is one of 37 standard 7½ minute maps in Project Ph-5(45) and is located along the northern limits of the project. It covers a large water area, part of Pamlico Sound, and the northern tip of Cedar Island and also part of Hog Island.

This is a planetable contouring project.

The several mapping operations were:

- (a) Nine-lens aerial photography and laboratory processing, 1:20,000 scale.
- (b) The field survey including identification of shoreline, planetable contouring, identification and establishment of horizontal and vertical control, classification of photographic detail and geographic names investigation.
- (c) Compilation by graphic methods
- (d) Preliminary office inspection
- (e) Field edit
- (f) Final review of the map manuscript to ensure completeness and conformance with specifications and to include correction in accordance with the field edit survey.
- (g) Processing - A 1:20,000 scale glass plate negative will be prepared for transmittal to the Geological Survey.

T-8726 will be published and distributed by the Geological Survey at a scale of 1:24,000 as a standard topographic quadrangle in accordance with an agreement of March 25, 1947.

Data pertaining to T-8726 will be filed and may be obtained as follows:

- (a) Filed in the Division of Photogrammetry
 - (1) T-8726 map manuscript, scale 1:20,000, field edit and final review corrections applied.
- (b) Filed in the Coast and Geodetic Survey Archives

- (1) Descriptive Report
- (2) 1:20,000 scale, cloth backed lithographic print of map manuscript T-8726.
- (3) The above print is to be permanently registered under T-8726 and when T-8726 is published, a cloth backed copy of the published map at a scale of 1:24,000 will also be registered.

FIELD INSPECTION REPORT
T-8726 (34° 35 / 76° 15)
PROJECT Ph-5(45)
SUB-PROJECT C

Riley J. Sipe, Chief of Party

All phases of the field work were done in accordance with the Directors Instructions, Project Ph-5(45), Field, undated, and supplement 1 to the above, dated 11 November, 1946, except for deviations noted herein.

The field work on this quadrangle was performed by the following personnel on the dates indicated:

| <u>Name & Title</u> | <u>Field Work</u> | <u>Dates</u> |
|-------------------------|----------------------|--------------|
| M. A. Stewart | Vertical Control | 1 - 9 - 47 |
| Engr. Aid | | 2 - 27 - 47 |
| S. J. Hathorn | Shoreline Inspection | 3 - 12 - 47 |
| Photogrammetrist | | 3 - 18 - 47 |
| R. A. Horn | Shoreline Inspection | 8 - 15 - 47 |
| Photogrammetrist | | |
| E. L. Williams | Contours | 8 - 1 - 47 |
| Engr. Aid | Interior Inspection | 8 - 7 - 47 |

1. Description of the Area

The land area of the quadrangle consists of the north ends of Hog and Cedar Islands. Pamlico Sound occupies most of the quadrangle area. The north end of the fishing village of Roe is in the quadrangle.

2. Completeness of Field Inspection

Field inspection is completely and adequately covered on the photographs.

3. Interpretation of the Photographs

No difficulty was encountered in the interpretation of the photographs.

4. Horizontal Control

All horizontal control stations were searched for but none were recovered.

5. Vertical Control

A third order level line was established along the main road on Cedar Island. This was the only vertical control necessary in the quadrangle.

6. Contours and Drainage

Contouring was done on 9 lens 1:20,000 scale photographs.

On Cedar Island the general orientation of the drainage is in a north-westerly direction from the swamps on the fast land to North and West Bay.

7. Mean High Water

The mean high water line was located by measurements from identifiable points of detail where possible.

No average range of the tide was determined for any of the quadrangle.

8. Low Water Line

The approximate low water line of part of the shores in the quadrangle was indicated by the standard symbol.

9. Wharves and Shoreline Structures

All wharves and shoreline structures are discernible on the photographs and have been inspected, and explained on the photographs.

10. Details Offshore from Mean High Water Line

All detail offshore are discernible on the photographs and have been labeled.

11. Landmarks and Aids to Navigation

There are no landmarks or aids to navigation in the quadrangle.

12. Hydrographic Control

Topographic Stations were located throughout the quadrangle in accordance with the instructions for this project.

13. Landing Fields and Aeronautical Aids

There are no landing fields or aeronautical aids in this quadrangle.

14. Roads

The roads and trails were classified according to photogrammetry instructions No. 10 dated 14 April, 1947.

15. Bridges

No bridges over navigable water exist in the quadrangle.

16. Builgings and Structures

Adequately shown on 1:20,000 photographs.

17. Boundary Monuments and Lines

No boundary monuments or lines exist in the quadrangle.

18. Geographic Names

Geographic names were investigated in the field and will be the subject of a special report by Mr. A. J. Wraight, Topographic Engr.

Submitted:

Date 2 Sept. 1947

E. L. Williams

E. L. Williams

Engr, Aid

R. A. Horn

R. A. Horn

Photogrammetrist

Approved:

Dated 3 Sept. 1947

Riley J. Sipe

Riley J. Sipe
Chief of Party

SCALE FACTOR

[illegible]

1 FT. = 3048006 METER

COMPUTED BY: W.H. Shearouse

DATE 2 April 1947

CHECKED BY: M.M. Slavney

DATE 18 June 1947

M-2388-12

COMPILATION REPORT
TO ACCOMPANY
QUADRANGLE T-8726
TOPOGRAPHIC MANUSCRIPT

26 AND 27. CONTROL AND RADIAL PLOT:

This will be the subject of a special report to be submitted by Milton M. Slavney, Photogrammetric Engineer.

28. DELINEATION:

Photographs 15962, 15963, 15995 and 15996 were used for delineation. The centers of 15995 and 15996 fall on quadrangle T-8734 to the south of this quadrangle; but, they were used of necessity in establishing detail points and transferring detail to the map manuscript. These four photographs provided satisfactory coverage of the area to be delineated and were clear enough to be easily interpreted. The scale was reasonably good.

Field inspection of the shoreline and inland areas was satisfactory.

29. SUPPLEMENTAL DATA:

None used.

30. MEAN HIGH-WATER LINE:

The mean high-water line was delineated as indicated by the field inspector.

31 LOW WATER AND SHOAL LINES:

The low-water line is shown in only a few places, as noted by the field inspector. The tide is negligible in Pamlico Sound. A shoal line has been drawn across the quadrangle approximately 200 meters offshore from the mean high-water line.

32. DETAILS OFFSHORE FROM THE HIGH-WATER LINE:

There are no offshore details visible on the photographs or noted by the field inspector; however, there is a sunken wreck shown on nautical chart 419, just southwest of Western Point and on the one fathom curve, which should be called to the attention of the hydrographic party.

33. WHARVES AND SHORELINE STRUCTURES:

None

34. LANDMARKS AND AIDS TO NAVIGATION:

None within the quadrangle.

35. HYDROGRAPHIC CONTROL:

No hydrographic control was required in the area.

Three topographic stations were identified in the field and were located by the compiler by radial plot methods.

36. LANDING FIELDS AND AERONAUTICAL AIDS:

None

37. CONTOURS:

Contours and spot elevations were transferred from field print 15963 to the map manuscript using detail and detail points to control adjustments. ~~Two five-foot depression contours were added in the area of Latitude 35° 00.2', Longitude 76° 19.8' in order to effect a more complete portrayal of the terrain.~~ Deleted. BTA

38. GEOGRAPHIC NAMES:

Geographic names have been applied to the map manuscript.

44. COMPARISON WITH EXISTING TOPOGRAPHIC QUADRANGLES:

None available for comparison.

45. COMPARISON WITH NAUTICAL CHART:

Comparison was made with nautical chart No. 419 (scale 1:40,000), having a print date of 19 October, 1946. Visual comparison indicates excellent agreement with no discrepancies worthy of note.

A wreck, charted just southwest of Western Point, is discussed under item 32 of this report.

Respectfully submitted,
William H. Shearouse
William H. Shearouse,
Cartographer

Approved and forwarded:

Ross A. Gilmore
Ross A. Gilmore,
Chief of Party.

FIELD EDIT REPORT
Quadrangle T-8726
35°00' - 76°15'7.5
Project Ph-5(45)C
Riley J. Sipe, Chief of Party

Field edit of this quadrangle was completed during October 1948 by John D. Weiler, Photogrammetrist.

46. METHODS

In field edit the map manuscript, all roads were traversed by truck. Inaccessible areas where discrepancies were specifically noted, were reached on foot, except where the information could be obtained with unquestionable accuracy from local fishermen.

All data added to the map manuscript were either plotted from topographic features, visible on the aerial photographs; or cut in by planetable methods.

47. ADEQUACY OF THE MAP MANUSCRIPT

The map manuscript was basically adequate and complete, except for a few minor details.

There is no definite low water line along Pamlico Sound. Changes due to periodic tides are negligible. Irregular wind tides have considerable effect on the interpretation of the shoreline, but make any accurate and fixed delineation impossible. *

Geographic names were checked with local fishermen. The name BEACH MARSH is recommended for addition to the map manuscript. The name SOUTH POINT has been deleted, and the name SOUTH ISLAND added to the map manuscript.

48. ACCURACY TESTS

No accuracy tests were specified for the quadrangle. Visually, the contours adequately depict the terrain.

The map manuscript was reviewed by Mr. Calvin Mason, local fisherman, and life long resident of Davis, N. C. Highly familiar

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with the area, he was of invaluable assistance in checking the map manuscript.

Submitted:
8 October 1948

John D. Weiler
John D. Weiler
Photogrammetrist

Approved:
8 October 1948
Riley J. Sipe
Riley J. Sipe
Chief of Party

GEOGRAPHIC NAMES

Back Bay -
 - Beach I.
 Beach Marsh -
 Beach Reef -
 Cedar I. -
~~Cedar I. ME Church~~
 Cedar I. Road -
 Deep Slough -
 End of Island Slough -
 Fullers Ditch -
 Goodwin Hills -
 Great Pond* -
 Head of Bay (locality) -
 Hog I. -
 - Hog I. Reef
 Hunting I. -
 Noras Cove -
 North Bay -
 - North Bay Ditch
 North Carolina* -
 Pamlico Sound -
 Point of Grass -
 Raymond Sand -
 Sandy Ldg. -
 Ship Pt. -
 Ship Shoal I. -
 South I. -
 Snake Gut -
 Swan Pt.
 Waterbush Pt. -
 West Bay* -
 Western Pt. -

* - Decis. BGN

Names approved

2-15-50

A.J.W.

Review Report T-8726
 Topographic Map
 17 February 1950

62. Comparison with Registered Topographic Surveys

| | | |
|-------|--------|----------|
| 1277a | 1872 | 1:20,000 |
| 8043 | 1942-5 | 1:20,000 |

The above topographic surveys are superseded for the purpose of nautical charting by T-8726

63. Comparison with Maps of other Agencies:- None

64. Comparison with Contemporary Hydrographic Surveys:- None

65. Comparison with Nautical Charts

| | | |
|-----|------|----------|
| 419 | 1946 | 1:40,000 |
|-----|------|----------|

66. Adequacy of Results and Future Surveys

This map complies with the project instructions and Bureau Policy. There are no inadequacies. The map complies with the National Standards of Accuracy.

Reviewed by:

B. Thomas Hynson
 B. Thomas Hynson

Approved by:

S. V. Griffith
 Chief, Review Section B 4-13-50
 Division of Photogrammetry

A. Edmonstone
 Chief, Nautical Chart Branch
 Division of Charts

O. S. Reading
 Chief, Div. of Photogrammetry

W. M. Scaife
 Chief, Div. of Coastal Surveys