**Type of Survey**  
Topographic

**Field No.** Ph-58 (49)  
**Office No.** T-9400

**Locality**

<table>
<thead>
<tr>
<th>State</th>
<th>North Carolina</th>
</tr>
</thead>
<tbody>
<tr>
<td>General locality</td>
<td>Atlantic Coast</td>
</tr>
<tr>
<td>Locality</td>
<td>Browns Inlet</td>
</tr>
</tbody>
</table>

**Date**  
JULY 19, 1955
PROJECT NO. (II): Ph-58(49)  
QUADRANGLE NAME (IV):  

FIELD OFFICE (II): Holly Ridge, N.C.  
Chief of Party: Harry F. Garber  

PHOTOGRAMMETRIC OFFICE (III): Baltimore, Maryland  
Officer-in-Charge: Hubert A. Paton  

INSTRUCTIONS DATED (II) (III):  
27 February 1950  
28 April 1950, Supplement 1  
26 April 1951, Supplement 2  
15 May 1951, Supplement 3  

COPY FILED IN DIVISION OF 
PHOTOGRAMMETRY (IV)  

METHOD OF COMPILATION (III): Air Photograph (Multiplax) Planimetry  
(Graphic) Contours, see item 34  

MANUSCRIPT SCALE (III): 1:10,000  
STEREOSCOPIC PLOTTING INSTRUMENT SCALE (III): 1:10,000  

SCALE FACTOR (III): 1.000  

DATE RECEIVED IN WASHINGTON OFFICE (IV): 
Date reported to Nautical Chart Branch (IV):  
Applied to Chart No. 
Date: Date registered (IV): 21 June, 1955  

PUBLICATION SCALE (IV): 1:24,000  
PUBLICATION DATE (IV):  

GEODETIC DATUM (III): N.A. 1927  
VERTICAL DATUM (III): 
Mean sea level except as follows: Elevations shown as (25) refer to mean high water Elevations shown as (3) refer to sounding datum i.e., mean low water or mean lower low water  

REFERENCE STATION (III): EAGLE, 1914  

LAT.: 34° 36' 35.088"  
LONG.: 77° 14' 01.293  

PLANE COORDINATES (IV):  
STATE:  
ZONE: 

Y= X=  

Roman numerals indicate whether the item is to be entered by (II) Field Party, (III) Photogrammetric Office, or (IV) Washington Office.  
When entering names of personnel on this record give the surname and initials, not initials only.
Note: The island between Bear Inlet and Browns Inlet was contoured by multiplex.
DATA RECORD

Field Inspection by (II): E. T. Jenkins  Date: May, 1950

Planetary contouring by (II): H. G. Murphy , except as shown under item 34.  Date: May, 1951

Completion Surveys by (II): H.R. Cravat  Date: Feb. 1952

Mean High Water Location (III) (State date and method of location): 15 November 1949 (Photogrammetric) Except as noted under item 1 December 1949 7 of field inspection report.

Projection and Grids ruled by (IV): T.L.J.  Date: March 1950

Projection and Grids checked by (IV): J.S.B.  Date: March 1950

Control plotted by (III): Bernice Wilson  Date: April 1950

Control checked by (III): Albert K. Heywood  Date: April 1950

Control extension by (III): Albert K. Heywood  Date: June 1950

Planimetry Albert K. Heywood  Date: June 1950

Stereoscopic Instrument compilation (III):  

Manuscript delineated by (III): L. A. Senasack  Date: June 1950*

Photogrammetric Office Review by (III): D.M. Brant  Date: July 1950

Elevations on Manuscript checked by (II) (III): J. A. Clear, Jr.  Date: June, 1951

Albert C. Rauck, Jr.  Date: March 1952

Form T-Page 3
From tables of predicted tides

Reference Station: HAMPTON ROADS, VA.
Subordinate Station: New River Inlet

Washington Office Review by (IV): Charles Hanover
Final Drafting by (IV): John H. Frazier
Drafting verified for reproduction by (IV): R. D. Shellman
Proof Edit by (IV):

Land Area (Sq. Statute Miles) (III): 6
Shoreline (More than 200 meters to opposite shore) (III): 10
Shoreline (Less than 200 meters to opposite shore) (III): 22
Control Leveling - Miles (II): 1.3
* Number of Triangulation Stations searched for (II): 11
** Number of BMs searched for (II): 2
Number of Recoverable Photo Stations established (III): 3
Number of Temporary Photo Hydro Stations established (III): None

Remarks:

* III Refer to item 3 of field inspection report. Not in agreement.
** III One B.M. reported "lost". Only B.M. data received in compilation office.
Project Ph-58(49), a topographic mapping survey, consists of 8 quadrangles numbered T-9394 to T-9401, inclusive. The area of the project is located in the vicinity of the town of Swansboro and New River, N.C., and extends from the coastline between longitudes 77° 00' and 77° 30' northward to latitude 34° 46'. To the east it junctions with Ph-5(45) - a topographic and shoreline mapping project.

The field operations included complete field inspection and the establishment of some additional horizontal control. Contouring was accomplished by planetable at 5-foot intervals. Compilation of planimetry was done by the multiplex; planetable contours were later applied by graphic methods. The compilation scale was at 1:10,000. Except for T-9400N and T-9401N, each map manuscript is comprised of 2 sheets and is identified as the N (North) or S(South) sheet. Each sheet of the map manuscript - including T-9400N and T-9401N - is 3 3/4' in latitude by 7 1/2' in longitude; the exception to this is in the northern tier of 4 sheets (T-9344N to T-9397N inclusive) which are 4 3/4' in latitude.

For information on other phases of the work concerning the project, such as the project instructions, special reports, official correspondence, and other supplementary information, reference should be made to the project completion report, which will be compiled and submitted upon completion of the review of all the surveys on this project.

These maps are to be published by the Geological Survey at a scale of 1:24,000 as a standard topographic quadrangle. Cloth-backed lithographic prints of the original map manuscripts at compilation scale and the descriptive reports for all maps in this project will be filed in the Bureau Archives. Cloth-backed copies of the published topographic quadrangles will also be filed.
FIELD INSPECTION REPORT
Quadrangle T-9400
Project Ph-58

Harry F. Gerber, Chief of Party

2. AREAL FIELD INSPECTION

The land area is six square miles and is located in the northwest corner. Of this, about one third is marsh through which the Intracoastal Waterway runs. The ocean fronts a narrow sand island which is used as a bombardment area by the U.S. Marine Corps. This island, known as Browns Island is formed by Browns Inlet on the west and Bear Inlet on the east.

The land area lies within U.S. Marine Corps Reservation, Camp Lejeune. The mainland part is utilized as a firing range area from which practice firing is done toward Browns Island.

Photographic coverage is adequate and the photographs are of good quality.

Field inspection is complete, notes being made on the photographs regarding vegetation, shoreline, etc.

3. HORIZONTAL CONTROL

Eleven stations were searched for. Three were recovered and identified.

The eight not recovered were reported as "Lost" on Form 526. They are:

- Bogue Sound Beacon No. 29, 1933
- Bogue Sound Beacon No. 29B, 1933
- Brown, 1914
- Camp, 1914
- Camp 2, 1933
- Inlet, 1914
- Inlet 2, 1933
- Pig, 1914

Of these, Camp 2, 1914 was identified for photogrammetric plot control as the monument was found broken off but the base was still in position.
4. **VERTICAL CONTROL**

One U.S. Marine Corps third-order bench mark was recovered. It is Mon. 119 (USMC). From it, contouring was controlled on the mainland; 1.3 miles of fly-levels were run on the beach. These levels originated and were closed on a checked spot elevation in quadrangle T-9399.

5. **CONTOURS AND DRAINAGE**

Contouring was done by standard plane-table methods on the 1:10,000 scale photographs.

In accordance with Supplement 3, dated 15 May 1951, of the Project Instructions, Brown's Island was not contoured. This island is an impact area for firing ranges of Camp Lejeune. The Marine Corps officials could not accept responsibility for the safety of personnel and strongly advised against going on the island due to the existence of duds. See Section 54, paragraph 2. Brown's Island is largely made up of shifting sand dunes.

Drainage as compiled on the planimetric maps was checked against the contoured photographs and corrections made on a film positive of the map manuscript.

6. **WOODLAND COVER**

The high ground is covered with pine, brush and oak, the swamps with deciduous and scattered cypress.

7. **SHORELINE AND ALONGSHORE FEATURES**

Shoreline in the Intracoastal Waterway and adjacent marsh area was inspected from a small boat and classified on the photographs. The high-water line on the ocean side of Brown's Island was determined by measuring from identifiable topographic features. At Brown's Inlet the high-water line was too changeable to identify and was shown on the photographs as approximate or indefinite.

The foreshore is sand and shells at the ocean front and mud and sand in the marsh areas.

8. **OFFSHORE FEATURES**

The low-water line was shown on the ocean side of Brown's Island only, as approximate.
9. **LANDMARKS AND AIDS**

There are no landmarks worthy of charting.

Non-floating aids were submitted on Form 567 which covered the project.

10. **BOUNDARIES, MONUMENTS AND LINES**

This subject is covered in a special report for the project.

11. **OTHER CONTROL**

None established.

12. **OTHER INTERIOR FEATURES**

Roads and buildings were classified in accordance with current instructions. There are no bridges.

13. **GEOGRAPHIC NAMES**

Submitted to the Washington Office in a special report in June, 1950.

14. **SPECIAL REPORTS AND SUPPLEMENTAL DATA**

Special project reports were submitted for Boundaries, Geographic Names, Landmarks and Non-floating Aids.

Field Inspection and Field Edit of Planimetry Data were submitted to the Baltimore Photogrammetric Office under Transmittals No. 8, dated 29 April 1950; No. 12, dated 24 May 1950; and No. 21, dated 6 July 1950.

22 June 1951
Submitted by:

William H. Shearouse
Cartographer

13 July 1951
Approved by:

Harry F. Carver
Commander, USGCGS
Chief of Party
<table>
<thead>
<tr>
<th>STATION</th>
<th>SOURCE OF INFORMATION (INDEX)</th>
<th>LATITUDE OR ( y )-COORDINATE</th>
<th>LONGITUDE OR ( x )-COORDINATE</th>
<th>DISTANCE FROM GRID IN FEET, OR PROJECTION LINE IN METERS</th>
<th>DATUM CORRECTION</th>
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<td>CEDAR, 1914</td>
<td>G-5297</td>
<td>34</td>
<td>35</td>
<td>21754</td>
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<td>P.494</td>
<td>77</td>
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<td>STILL, 1914</td>
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<td>&quot; &quot;</td>
<td>77</td>
<td>13</td>
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<td></td>
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<td>77</td>
<td>14</td>
<td>01293</td>
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<td>BROWN 2, 1932</td>
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<td>77</td>
<td>13</td>
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<td>314</td>
<td>924</td>
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</table>

Note: The stations have been designated by the surveyor, and their location also noted on the map manuscript. Additional information can be found in the plot. See side heading for additional information.
COMPILATION REPORT
T-9400

Photogrammetric Plot Report

Refer to Descriptive Report T-9401 for Photogrammetric Plot Report.

31. **DELINEATION**

Refer to item 22 of Photogrammetric Plot Report, and Field Edit Notes dated 6 July 1950 which is attached to this report.

32. **CONTROL**

See items 3 and 4 of Field Inspection Report and Photogrammetric Plot Report.

33. **SUPPLEMENTAL DATA**

Reservation Boundary Map, Camp LeJeune, N.C., sheet 1 of 2, dated 9 April 1945. This map was used to obtain the horizontal positions of Boundary Markers, and also to supplement field inspection of the boundary line.

Map showing the Right of Way of the Intracoastal Waterway, section II, scale 1:10,000, dated February 1932.

34. **CONTOURS AND DRAINAGE**

Refer to item 5 of Field Inspection Report and Field Completion and Contour Revision Report attached.

The area called Browns Island under item 2 of the field inspection report was contoured by multiplex as per recommendation of the Washington Office. It is not believed that these contours are within the required standard of accuracy but under the adverse conditions of contouring at a 5 foot interval at this manuscript scale, it is believed that the contours presented in this area will at least show the general configuration of sand dunes interspersed with trees.

Drainage, not in agreement with contours and all intermittent drainage has been removed from the manuscript.

35. **SHORELINE AND ALONGSHORE DETAILS**

Shoreline inspection was adequate. All low water lines and shoal lines are approximate and delineated from photo examination and field inspection data.

Continuous change in shoreline at Bear Inlet and Browns Inlet are noted on the manuscript.

Refer to item 7 of Field Inspection Report, and item 22 of Photogrammetric Plot Report.
36. **OFFSHORE DETAILS**

None, other than that noted under item 8 of Field Inspection Report.

37. **LANDMARKS AND AIDS**

Refer to item 9 of Field Inspection Report and Field Edit Notes attached.

Form 567 is submitted for three non-floating aids along the Intra-coastal Waterway.

38. **CONTROL FOR FUTURE SURVEYS**

Refer to item 11 of Field Inspection Report.

Forms 524 are submitted for three recoverable topographic stations. These will be found listed under item 49 of this report.

39. **JUNCTIONS**

To the south and east is the Atlantic Ocean.

A satisfactory junction is complete:
- to the north with Survey No. T-9396
- to the west with Survey No. T-9399

40. **HORIZONTAL AND VERTICAL ACCURACY**

Refer to Field Completion and Contour Revision Report for this survey attached. The planetable revision surveys are substituted for vertical accuracy tests.

41. **BOUNDARIES, MONUMENTS, AND LINES**

Refer to Boundary Report Ph-58(49)

U.S.M.C. Camp LeJeune boundary markers are plotted on the manuscript. A discrepancy exists between the reported positions of Boundary Markers V thru X inclusive, in U.S.M. C. Publication, pages 10-12 and U.S.M.C. Reservation Boundary Map., sheet 1 of 2.

The plotted boundary markers are from positions as given in sheet 1 of the Reservation Boundary Map. The location of these monuments has been noted as approximate on the map manuscript.
41. **BOUNDARIES, MONUMENTS AND LINES (continued)**

Refer to letter dated 10 July 1950 attached to Descriptive Report T-9397, concerning right of way of Intracoastal Waterway. These were plotted from azimuths and distances to turning points on centerline. Right of way is not shown on map manuscript.

42-45
Inapplicable.

46. **COMPARISON WITH EXISTING MAPS**

Comparison was made with the following:

- War Department, Corps of Engineers, 15 minute Samsboro quadrangle, dated 1942, scale 1:62,500.


The area called Browns Island in the field inspection report is shown on the Samsboro 15 minute quadrangle as two islands separated at Shacklefoot Channel. This is the most prominent of the shoreline and inlet features that are subject to continuous change.

The comparison with the other features on this 15 minute quadrangle and with features on Air-photo Compilation No. T-5049 are in good general agreement.

47. **COMPARISON WITH NAUTICAL CHARTS**

The manuscript was compared with the following USCGS charts:

- Coast Chart No. 1234, scale 1:80,000, published March 1940 (7th edition) (10-3-49)

Comparison with these charts showed good general agreement.

The island noted in item 46 is in good agreement with both charts.

**Items to be Applied to Nautical Charts Immediately**
None.

**Items to be Carried Forward**
None.

Approved and forwarded

Respectfully submitted
14 April 1952

[Signatures]

Hubert A. Paton,  
Comr., C&GS  
Officer in Charge

Albert C. Rauck, Jr.  
Cartographer
PHOTOMGRAMMETRIC OFFICE REVIEW

T. 9400


CONTROL STATIONS

5. Horizontal control stations of third-order or higher accuracy  DMB  6. Recoverable horizontal stations of less than third-order accuracy (topographic stations)  DMB  7. Photo hydro stations  DMB  8. Bench marks  DMB


ALONGSHORE AREAS

(Nautical Chart Data)


PHYSICAL FEATURES


CULTURAL FEATURES


BOUNDARIES

31. Boundary lines  DMB  32. Public land lines  DMB

MISCELLANEOUS


40. Donald M. Brant  
   Reviewer

41. Remarks (see attached sheet)

FIELD COMPLETION ADDITIONS AND CORRECTIONS TO THE MANUSCRIPT

42. Additions and corrections furnished by the field completion survey have been applied to the manuscript. The manuscript is now complete except as noted under item 43.

43. Remarks: Second Field Completion and Contour Revision complete.

Albert L. Branch
48. GEOGRAPHIC NAMES

Atlantic Ocean
Banks Channel *
Bear Creek
Bear Inlet
Browns Creek
Browns Inlet
Freeman Creek
Intracoastal Waterway *
N.C. 172
Onslow County ***
Saunders Creek ** a/f
Saunders Island a/f
Shacklefoot Channel
Sneads Ferry Road
Swansboro Township ***

* From U.S.C.& G.S. chart No. 833
** From U.S.C.& G.S. Planimetric Compilation No. T-5048 and Chart No. 833
*** From photostat copy of Map of Onslow County, showing townships.

Names underlined in red are approved.
12-5-52. L. Heck

Browns Island (sec 8.7)
NOTES FOR THE HYDROGRAPHER

Three recoverable topographic stations are within this survey. These are non-floating aids to navigation as follows:

New River Daybeacon 59, 1950
Browns Inlet Light 61, 1950
Freeman Creek Daybeacon 63, 1950
Field edit notes, T-9400

Two observation towers have been recommended to be mapped, but not as landmarks for Charts. These are features valuable to this particular area, i.e. U. S. M. C., Camp LeJeune.

Field edit information appears on the Discrepancy Print, Field Edit Sheet and field photographs LEJ-2-153, 154 and 205.

No edit of Geographic Names was made. Official names should be taken from special report submitted to Washington 22 June.

Camp LeJeune boundary line does not appear on the Map Manuscript copy. 

Mean high-water line along the ocean front is stable except at the inlets. There it should be shown as indicated on the photographs.

After application of field edit corrections compilation of planimetry will be adequate.

William H. Shearouse
William H. Shearouse, 
Cartographer

Jacksonville, N. C. 
6 July 1950
Field Completion
and
Contour Revision Report T 9400

The planimetry of this map was field edited in the spring and summer of 1950. This report particularly includes the field edit of contours, drainage and the planimetric changes occurring subsequent to the field edit of the planimetry.

Methods:

Prior to field work the original field contour photographs were examined. Areas in which the original planimetric control appeared to be weak, were examined in the field, either visually or by planimetric methods.

The planimetric work was done on a double weight photographic print of the map manuscript. All additions and changes that are to be made on the map manuscript have been indicated on this print.

No attempt was made to complete the omitted contours on the outer banks. The compiler noted several places for contour completion. These areas are shifting sand dunes and should be shown by symbol.

Geographic Names:

The geographic name Shacklefoot Channel is recommended instead of Marsh Branch. Local Residents have no knowledge of the name Marsh Branch. Messrs. E. B. Yeomans, and Victor Bell, both of R. F. D. Hubert, North Carolina, firmly agree that Shacklefoot Channel is the correct name.

Vertical Accuracy:

The vertical accuracy of this map as corrected on the field edit sheet, complies with National Map Accuracy Requirements, except on Browns Island. The contours in this area were obtained by multiflex and have been shown with the approximate symbol.

Submitted 26 February 1952

Harland R. Cravat
Cartographer
I recommend that the following objects which have (not) been inspected from seaward to determine their value as landmarks becharted on the charts indicated.

The positions given have been checked after listing by

Albert C. Rauck, Jr.

Hubert A. Paton

Chief of Party.

<table>
<thead>
<tr>
<th>CHARTING NAME</th>
<th>DESCRIPTION</th>
<th>SIGNAL NAME</th>
<th>LATITUDE</th>
<th>LONGITUDE</th>
<th>DATUM</th>
<th>METHOD OF LOCATION AND SURVEY NO.</th>
<th>DATE OF LOCATION</th>
<th>HARBOR CHART</th>
<th>IMBUE CHART</th>
<th>OFFSHORE CHART</th>
<th>CHARTS AFFECTED</th>
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</thead>
<tbody>
<tr>
<td>Daybn 59</td>
<td>New River Daybn 59. Black square daymark with yellow border on pile</td>
<td></td>
<td>34 37</td>
<td>667</td>
<td>77 12</td>
<td>1052</td>
<td>N.A. 1927</td>
<td>Air-photo</td>
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<td></td>
<td>833</td>
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<td>LT. 61</td>
<td>Browns Inlet Lt. 61, white pile structure, black tankhouse</td>
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<td>77 13</td>
<td>1216</td>
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<td>a</td>
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<td>x</td>
<td></td>
<td>777,833</td>
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</table>

This form shall be prepared in accordance with Hydrographic Manual, pages 800 to 804. Positions of charted landmarks and nonfloating aids to navigation, if redetermined, shall be reported on this form. The data should be considered for the charts of the area and not by individual field survey sheets. Information under each column heading should be given.
15 May 1951

To: Comdr. Harry F. Garber
U. S. Coast and Geodetic Survey
P. O. Box 271
Edenton, North Carolina

Subject: Instructions - Project Ph-58(49) Field,
Supplement 3

Reference: Instructions - Project Ph-58(49) Field and
Office, dated 27 February 1950

This instruction is to authorize the omission of planable contouring of the outer bank in quadrangle 3-9490 between Browns Inlet and Bear Inlet. No attempt will be made to do planable contouring in the area because of the hazard to personnel and the Marine Corps restrictions.

Approximate contours will be drawn on the multiplex and Kelsh plotter as suggested in your letter of 9 May 1951. The approximate contours will be adequate since the area is limited and consists mostly of sand dunes.

(Signed) R.F.A. Stodd

Director
62. **Comparison with Registered Topographic Surveys.**

<table>
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<tr>
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<th>Date</th>
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</tr>
<tr>
<td>T-4294</td>
<td>1927</td>
<td>1:20,000</td>
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<tr>
<td>T-5048, Supp.</td>
<td>1933</td>
<td>1:20,000</td>
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<td>T-5049</td>
<td>1933</td>
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<td>T-6003</td>
<td>1933</td>
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<tr>
<td>T-6004</td>
<td>1933</td>
<td>1:20,000</td>
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</table>

Except for the Intracoastal Waterway, which is not indicated on some of the older surveys, no radical changes were noted.

For nautical charting purposes the old surveys are superseded by the new map (T-94/00).

63. **Comparison with Maps of Other Agencies.**

- Swansboro Quadrangle; AMS, Edition 1948, 1:50,000
- H.O. Misc. 15, O42-50-N1; Edition 1948, 1:50,000

The break-through indicated on the Swansboro Quadrangle about midway on Browns Island is closed off on the new map; 20-foot contours on this Island also are not shown on the old quadrangle.

64. **Comparison with Contemporary Hydrographic Surveys.** None

65. **Comparison with Nautical Charts.**

- Chart No. 833; 21 January 1952, 1:40,000
- Chart No. 1234; 27 October 1952; 1:80,000

The location of channels and shallow areas, which were delineated on the map manuscript by the reviewer, differs in some instances from their location on the charts. However, it should be noted that the channels and the shallow areas are subject to change.

66. **Adequacy of Results and Future Surveys.** Except for the approximate contours shown on Browns Island (danger area), this map complies with the project instructions and the National Map Accuracy Standards. For instructions authorizing approximate contours on Browns Island refer to Instructions - Supplement 3, dated 15 May 1951.

Reviewed by:

Charles Hanavich

Charles Hanavich
L. C. Lucas
Chief, Review Section
Div. of Photogrammetry

W. B. Anderson
Chief, Nautical Chart Branch
Div. of Charts

Lee Driscoll
Chief, Div. of Photogrammetry
June 16, 1955

Earl D. Watson
Chief, Div. of Coastal Surveys
History of Hydrographic Information
T-9400 - North Carolina

Hydrography was applied to the map manuscript in accordance with general specifications of 18 May 1949.

Depth curves and soundings are in feet at MLW and originate with the following surveys and charts:

H-4767  1:40,000  1927
H-4696   "    "    "
NC-833   "    "    1952

Hydrography was compiled by C. Theurer and checked by O. Svendsen.

Charles Theurer
C. Theurer
Feb. 4, 1954