

9399

N & S

\*

Diag. Cht. Nos. 1234-2 & 1235-2

Form 504

U. S. COAST AND GEODETIC SURVEY

DEPARTMENT OF COMMERCE

DESCRIPTIVE REPORT

Type of Survey Topographic

Field No. Ph-58 (49) Office No. T-9399

LOCALITY

State North Carolina

General locality Atlantic Coast

Locality New River

194 52

CHIEF OF PARTY

H. F. Garber, Chief of Party

H. A. Paton, Baltimore Photogrammetric Office

LIBRARY & ARCHIVES

DATE JULY 19, 1955

B-1870-1 (1)

9399

## DATA RECORD

Page 1

T - 9399

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, Md.

Officer-in-Charge: H. A. Paton

Instructions dated (II) (III): 27 February 1950  
28 April 1950, Supplement 1  
26 April 1951, Supplement 2

Copy filed in Division of  
Photogrammetry (IV)

Office Files

Method of Compilation (III): Air Photographic (Multiplex) Planimetry  
(Graphic) Contours

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):

FEB 19 1953

Date reported to Nautical Chart Branch (IV):

MAR 3 1953

Applied to Chart No.

Date:

Date registered (IV): 19 May 1955

Publication Scale (IV):

Publication date (IV):

Geographic Datum (III): N.A. 1927

Vertical Datum (III):

MSL

Mean sea level except as follows:

Elevations shown as (25) refer to mean high water

Elevations shown as (5) refer to sounding datum

i.e., mean low water or mean lower low water

Reference Station (III): DUCK CREEK, 1932

Lat.: 34° 35' 01.282"

Long.: 77° 17' 56.046"

Adjusted

~~Unadjusted~~

Plane Coordinates (IV):

State: N. Car.

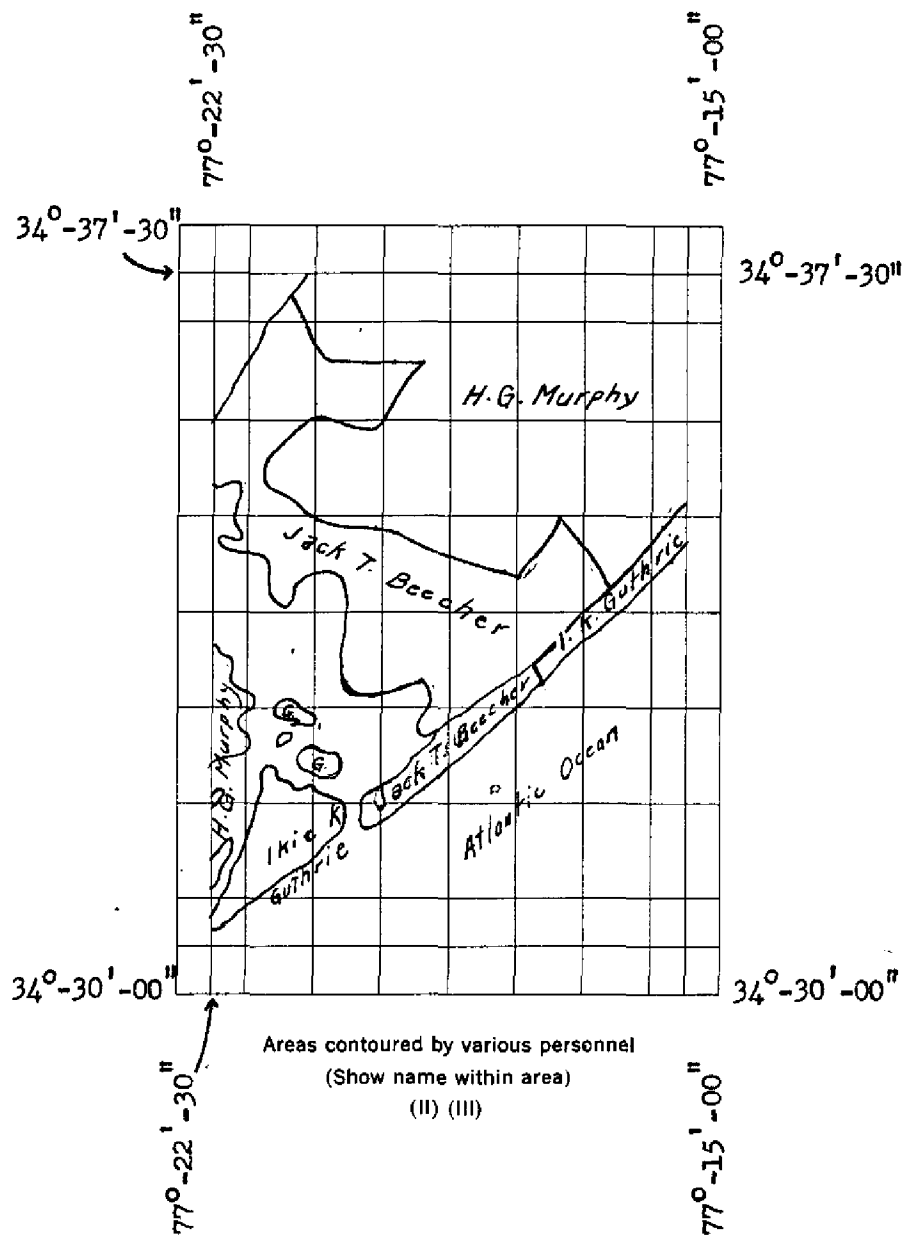
Zone:

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.



# DATA RECORD

Page 3

Field Inspection by (II): J. A. Clear, Jr.  
J. T. Beecher

Date: May, 1950

Planetable contouring by (II): J. T. Beecher  
T. K. Guthrie  
H. G. Murphy

Date: May, 1951

Completion Surveys by (II): H. R. Cravat  
R. L. McGlinchey

Date: July 1952  
May 1952

Mean High Water Location (III) (State date and method of location):  
Feb. 10, 1952, (Photogrammetric)

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

Date: 3/50

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

Date: 3/50

Control plotted by (III): A. C. Rauck

Date: 4/50

Control checked by (III): A. K. Heywood

Date: 4/50

Radial Plot or Stereoscopic  
Control extension by (III): A. K. Keywood

Date: 5/50

Stereoscopic Instrument compilation (III):  
Planimetry A. K. Heywood  
D. M. Brant  
~~CONTOUR~~

Date: 5/50

Date:

Manuscript delineated by (III): L. A. Senasack - N/2  
B. A. Dew - S/2  
B. Wilson (contours)

Date: 6/50

Date: 9/52

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

Date: 7/50

Elevations on Manuscript  
checked by (II) (III): J. A. Clear, Jr.  
D. M. Brant

Date: June, 1951  
Dec. 1952



Camera (kind or source) (III): 6" focal length cameras used. 1952 photography taken with US C&GS Type O camera.

## PHOTOGRAPHS (III)

Number	Date	Time	Scale	Stage of Tide
LEJ 2-56 thru 2-61	11/15/49	13:52	1:24,000	2.8 above MLW
" 2-67 " 2-71	11/15/49	12:55	"	2.2 " "
" 2-114 " 2-118	11/15/49	12:33	"	2.0 " "
" 2-122 " 2-126	11/15/49	12:10	"	1.7 " "
52-0-87 " 52-0-93	2/9/52	10:18	1:10,000	1.3 " "
52-0-95 " 52-0-102	2/9/52	10:29	"	1.4 " "
52-0-145 " 52-0-153	2/10/52	10:46	"	1.1 " "
52-0-156 " 52-0-166	2/10/52	10:56	"	0.9 " "
52-0-207 " 52-0-218	2/10/52	11:21	"	0.8 " "
52-0-220 " 52-0-223	2/10/52	11:28	"	0.7 " "
52-0-275 " 52-0-288	2/10/52	11:54	"	0.4 " "

## Tide (III)

Reference Station: HAMPTON ROADS  
Subordinate Station: NEW RIVER INLET  
Subordinate Station:

Ratio of Ranges	Mean Range	Spring Range
1.0	2.5	3.0
1.2	3.0	3.6

Washington Office Review by (IV): C. Theurer

Date: 7-1-53

Final Drafting by (IV): J.H.Frazier 9399-N  
J.H.Frazier 9398-5

Date: 11-16-54  
11-23-54

Drafting verified for reproduction by (IV): W.O. Hallum T-9399 N  
W.O. Hallum T-9398 S

Date: 12-8-54  
12-6-54

Proof Edit by (IV):

Date:

Land Area (Sq. Statute Miles) (III): 37

Shoreline (More than 200 meters to opposite shore) (III):

24

Shoreline (Less than 200 meters to opposite shore) (III):

25

Control Leveling - Miles (II): 10.5

Number of Triangulation Stations searched for (II): 71

Recovered: 30

Identified: 16

Number of BMs searched for (II): 17

Recovered: 16

Identified: 7

Number of Recoverable Photo Stations established (III): 19

Number of Temporary Photo Hydro Stations established (III):

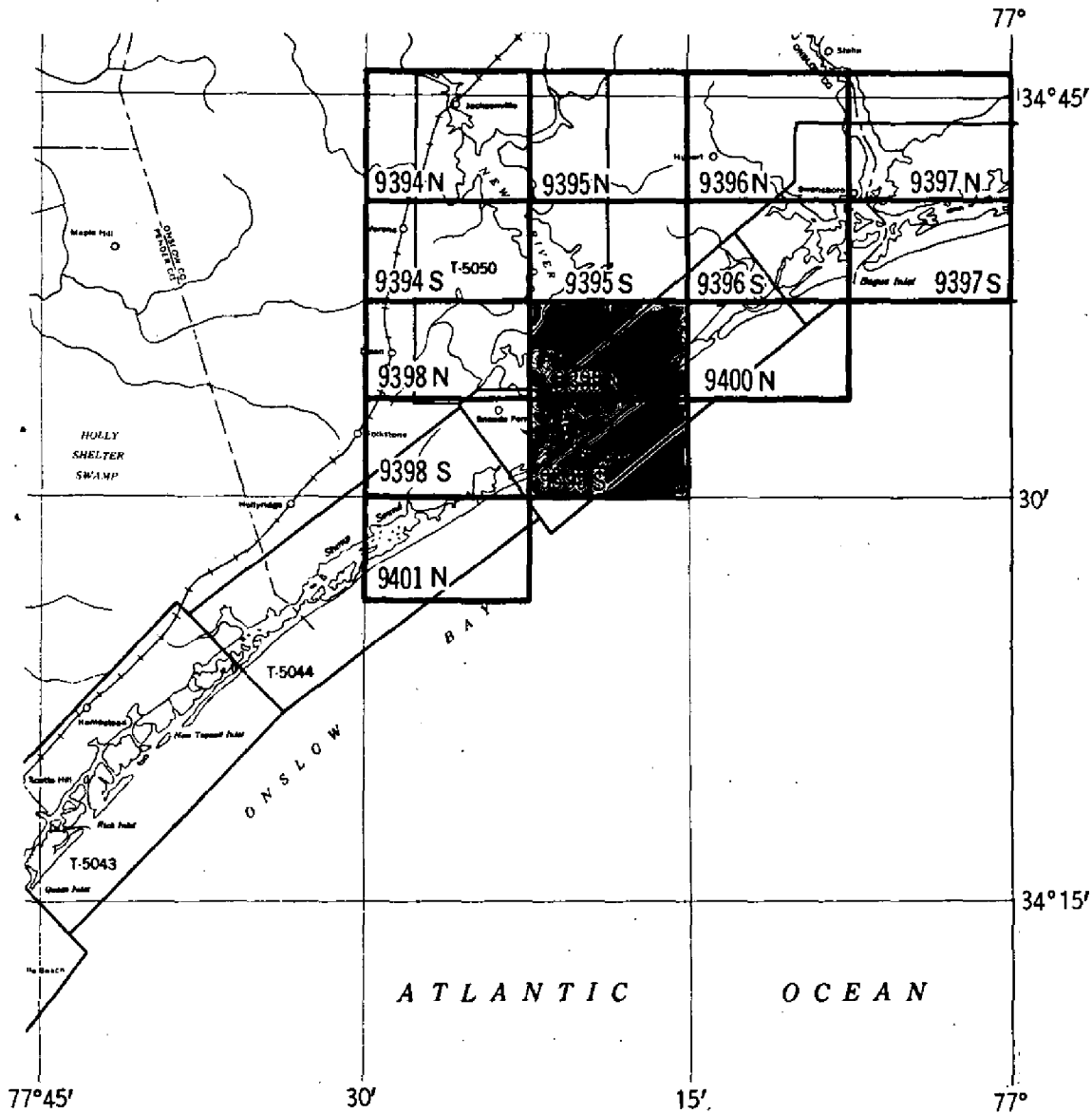
Remarks:

# TOPOGRAPHIC MAPPING PROJECT

PH-58 (49)

NORTH CAROLINA New River

Scale 1:10,000



## Summary

Project Ph-58(49) consists of eight topographic quadrangles numbered T-9394 to T-9401. The project area extends along the coast of North Carolina from White Oak River to New River and includes the towns of Swainsboro and Jacksonville. Camp Lajeune, Bogue Airfield U.S.M.C. and parts of the Croatan National Forest and the Intercoastal Waterway are included in the project area.

Field operations included complete field inspection and the establishment of some additional horizontal control. Contouring was accomplished by planetable at a five foot interval on 1:10,000 scale. Navy photographs taken in 1949. Compilation of planimetry at a scale of 1:10,000 was done by multiplex and the planetable contours added by graphic methods. This project was field edited in 1950 and re-checked in 1952 with USC&GS single lens photographs taken in 1952 to aid in the necessary contour revision accomplished in that year. The northern tier of quadrangles cover  $8\frac{1}{2}$  minutes of latitude. The remainder are standard  $7\frac{1}{2}$  minute quadrangles.

*\* 1:24000 scale related to 1:10000. <sup>SNR</sup>*

For information on other phases of the work concerning the project such as; project instructions, special reports, correspondence, and other supplementary information refer to the Project Completion Report which will be compiled and submitted upon completion of the review of all surveys in this Project.

These maps are to be published by the Geological Survey at a scale of 1:24,000 as standard topographic quadrangles. Cloth-backed lithographic prints of the map manuscripts at compilation scale before the addition of hydrographic information and the Descriptive Reports will be registered and filed in the Bureau Archives. Cloth-backed copies of the published quadrangles with hydrographic information will also be filed.

FIELD INSPECTION REPORT  
Quadrangle T-9399  
Project Ph-58

Harry F. Garber, Chief of Party

2. AREAL FIELD INSPECTION

About 60% of the area is land and 40% water. The water features are the Atlantic Ocean on the south, New River on the west, and the Intracoastal Waterway running across the southern part in an northeast-southwest direction.

The land on the eastern side of New River is a Government Reservation and is used by the Marine Corps as a part of the amphibious base at Camp Lejeune. A barracks area or sub-camp is located here and is known as Courthouse Bay.

N. C. State Highway No. 172 crosses the northern half in an east-west direction. There are numerous Marine Corps access and training roads.

Terrain near the water is cut up with drainage features. Inland, it flattens out and is made up of small depressions and large flat Pocosin-like areas.

No difficulty was encountered in photographic interpretation. Appropriate notes were made as to vegetation. Photographic coverage is adequate.

Field inspection is believed to be complete.

3. HORIZONTAL CONTROL

All known stations of the U.S. Coast and Geodetic Survey and the Corps of Engineers were searched for and reported on Form 526.

Five U.S. Marine Corps third-order traverse stations were recovered as supplemental control. They are:

Fire Observation Tower (USMC)  
Mon. 122 (USMC)  
Mon. 158 (USMC)  
Mon. 160 (USMC)  
100,000 Gal. Water Tank (USMC)



Thirty nine U.S. Coast and Geodetic Survey stations were reported as lost on Form 526. A list of them is as follows:

Beacon 4, 1932  
Beacon 6, (USE) 1932  
Beacon 8 (USE), 1932  
Beacon 10 (USE), 1932  
Brier, 1914  
Chadwick Bay, Day-  
Chief, 1927  
Cross, 1914  
Gap, 1914  
Gilletts Creek, 1855  
Hall (USE), 1932  
Hatch (USE), 1932  
Henderson, 1914  
High, 1914  
Hilt, 1927  
Horsehead, 1914  
Hurst, 1914  
Lighter, 1855  
Low, 1914  
Northeast Base, 1914  
Pass, 1914  
Pavilion, 1914  
Peak, 1927  
Point, 1927  
Rick, 1927  
Shell, 1914  
Smith's House, Cupola, 1914  
South Base (USE), 1932  
Southwest Base, 1914  
Swamp, 1914  
Swan Point eccentric, 1932  
Swan Point (USE), 1932  
Snag, 1914  
Tie, 1914  
Tile, 1914  
Windy, 1914  
Wreck, 1914  
Wright Island (USE), 1914  
Swan Point 2, 1888

Also, two C. of E. third-order traverse stations:

Mon. 18, 1941  
Mon. 19, 1941

#### 4. VERTICAL CONTROL

Coast and Geodetic Survey, and Corps of Engineers bench marks were searched for and reported on Form 685A. Those recovered were identified on the photographs. Following is a list:

- ✓ Cedar Point - U.S.E. - third-order
- Duck Creek - U.S.E. - fourth-order (*shown as checked elevation*)
- ✓ Fish - C & G S - second-order
- ✓ Point - U.S.E. - third-order
- ✓ Range Three - C & G S - second-order
- ✓ Tower Nine - C & G S - second-order
- Tower Nine, B.M. 1, C & G S - second-order
- ✓ View - C & G S - second-order
- ✓ View RM 1 - C & G S - second-order
- ✓ View RM 2 - C & G S - second-order

Also, tidal bench marks as follows:

New River Inlet, Tidal Bench Marks 1, 2, & 3  
 " " " , Peru " " 1, 2, & 3

The following third-order bench marks, established by the U.S. Marine Corps, were recovered and used during contouring: *These elev. are shown as checked elev.*

Mon. 64 (USMC)  
 Mon. 75 (USMC)  
 Mon. 403 (USMC)  
 Mon. 404 (USMC)

*It cannot be definitely established that they are bench marks of third order accuracy.*

Of these, Mon. 75 (USMC) has been destroyed.

These are traverse stations but were recovered and used for vertical control only. Recovery notes are submitted on Form 526 with the elevations recorded thereon.

Approximately 10.5 miles of fly-levels were run to supplement the vertical control for contouring; also, ties were made to several temporary U.S. Marine Corps bench marks.

#### 5. CONTOURS AND DRAINAGE

Standard plane-table methods were used in contouring. In areas that were open enough to see a considerable distance, shots were taken on or near the contours and sketching done in the field. The densely wooded areas were crossed with planetable traverse lines and the contours sketches mostly with the stereoscope. The lines began and closed at fly-level points, bench marks or U.S. Navy Public Works temporary bench marks. The work was done on the Navy Hydrographic Office photographs.

The beach area is composed of sand dunes. Those considered stable were contoured. Those of a shifting nature were shown with dashed lines and labeled "Shifting Sand".

Drainage was delineated at the time the planimetric map manuscripts were compiled. Corrections were made by the field party after contouring by tracing the streams on a film positive of the planimetric manuscript, which was labeled "Drainage Overlay".

*See Notes to Compiler, Contour Revisions in this report.*

#### 6. WOODLAND COVER

Pine trees predominate the high ground with scattered oak on the ridges. Land which originally was tilled has been allowed to cover with pine and in many instances is very densely wooded with young trees.

The low ground is wooded with deciduous trees and brush.

#### 7. SHORELINE AND ALONGSHORE FEATURES

The high-water line was indicated on the ocean front by measuring from topographic features and by delineating the visible line on the photographs. At the same time the approximate low-water line was indicated.

In the marsh areas the apparent high-water line was delineated.

A small boat, running close to shore, was used to inspect and label high water line in New River.

Shoreline structures were visited and labeled.

The foreshore is sand and shell on the ocean beach, sand in New River, and mud in the marsh.

#### 8. OFFSHORE FEATURES

None except low-water line which was located as approximate.

#### 9. LANDMARKS AND AIDS

Form 567 was submitted for Landmarks and Non-floating Aids as reports covering the project.

#### 10. BOUNDARIES, MONUMENTS AND LINES

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

#### 11. OTHER CONTROL

Three recoverable topographic stations were established. They are: ALAS, 1950; BALM, 1950; And, COCK, 1950. No other control was required.



12. OTHER INTERIOR FEATURES

Roads and buildings were inspected and labeled in accordance with current instructions.

There is one bridge. It is a pontoon bridge across the Intracoastal Waterway and is owned and operated by the Marine Corps. The horizontal clearance of this bridge is 87.5 feet. The bridge book supplement lists it as 80 feet. The discrepancy was reported by letter to the District Engineer, Corps of Engineers, U.S.A., Wilmington, N. C. A copy of the letter is a part of this report.

*bridge card collected*

13. GEOGRAPHIC NAMES

*Report on file 6044*

A special project report was sent to the Washington Office on this subject in June, 1950.

14. SPECIAL REPORTS AND SUPPLEMENTAL DATA

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

Field inspection and field edit data were forwarded to the Baltimore Photogrammetric Office under Transmittals No. 1, dated 27 March 1950; No. 14, dated 29 May 1950; No. 15, dated 30 May 1950; No. 23, dated 14 July 1950; and, No. 24, dated 20 July 1950.

22 June 1951  
Submitted by:

*William H. Shearouse*  
William H. Shearouse *H.F.S.*  
Cartographer

13 July 1951  
Approved by:

*Harry F. Garber*  
Harry F. Garber  
Commander, USC&GS  
Chief of Party



PHOTOGRAMMETRIC PLOT REPORT

for T-9399

Filed as part of  
the  
Descriptive Report for T-9401



MAP T-9399

PROJECT NO. Ph-58(42)

SCALE OF MAP 1:10,000

SCALE FACTOR 1.000

STATION	SOURCE OF INFORMATION (INDEX)	DATUM	LATITUDE OR $\psi$ -COORDINATE LONGITUDE OR $\alpha$ -COORDINATE	DISTANCE FROM GRID IN FEET. OR PROJECTION LINE IN METERS FORWARD (BACK)	DATUM CORRECTION	N.A. 1927 - DATUM DISTANCE FROM GRID OR PROJECTION LINE IN METERS FORWARD (BACK)	FACTOR DISTANCE FROM GRID OR PROJECTION LINE IN METERS FORWARD (BACK)
DUCK CREEK, 1932	G.P. p. 11	N.A. 1927	34 35 01.282	39.5 (1809.3)			
			77 17 56.046	1428.4 (100.87)		(105.9) C.F.K. 5-6-57	
SANDY, 1914	G-5297 p. 495	"	34 34 27.802	856.7 (992.1)			
			77 15 50.506	1287.3 (242.0)			
FISH, 1932	G-1654 p. 128A	"	34 30 51.421	1584.5 (264.3)			
			77 22 18.283	466.4 (1064.2)			
VIEW, 1932	G-1654 p. 128A	"	34 31 22.213	684.5 (1164.3)			
			77 21 19.000	484.6 (1045.7)			
AMOS, 1932	G-1654 p. 122	"	34 32 01.539	47.4 (1801.4)			
			77 19 40.792	1040.2 (489.8)			
SEA, 1914	Spec. pub. 192 p. 102	"	34 33 15.303	471.5 (1377.3)			
			77 17 36.975	942.6 (587.0)			
FREE, 1914	Spec. pub. 192 p. 33	"	34 35 55.336	1705.1 (143.7)			
			77 15 00.474	12.1 (1516.8)			
SAMWORTH, 1932	G.P. p. 122	"	34 34 15.284	471.0 (1377.8)			
			77 21 38.667	985.6 (543.8)			
*CHADWICK BAY LT 2 BEACON NO. 2 (USE), 1932	G-1654 p. 125	"	34 32 57.16	1761.3 (87.5)			
			77 21 35.93	916.1 (613.7)			
100,000 GAL WATER TANK USMC	USMC p. 14	"	302,298.77	700.7 (823.3)			
			2,519,521.37	1378.1 (145.9)			
FIRE OBSERVATION TOWER USMC	USMC p. 12	"	317,698.57	822.5 (701.5)			
			2,514,557.64	1389.2 (134.8)			
MARINES, USN-1, 1941 USMC	USMC	"	305,267.91	81.7 (1442.3)			
			2,491,782.86	543.4 (980.6)			

1 FT. = 3048006 METER

COMPUTED BY: H. P. Eichert

\*Position same as Intracoastal Water Way Lt. 2, 1950

DATE 3/50

CHECKED BY: A. K. Heywood

DATE 3/50

(12)

M-2388-12



MAP T-2399

PROJECT NO. Ph-58(49)

SCALE OF MAP 1:10,000

SCALE FACTOR 1.000

STATION	SOURCE OF INFORMATION (INDEX)	DATUM	LATITUDE OR $\mu$ -COORDINATE LONGITUDE OR $x$ -COORDINATE	DISTANCE FROM GRID IN FEET, OR PROJECTION LINE IN METERS FORWARD (BACK)	DATUM CORRECTION	N.A. 1927 - DATUM DISTANCE FROM GRID OR PROJECTION LINE IN METERS FORWARD (BACK)	FACTOR DISTANCE FROM GRID OR PROJECTION LINE IN METERS FORWARD (BACK)
WILLIAMS, 1914	G-1654 p. 126	N.A. 1927	34 33 31.381 77 17 52.948	967.0 1349.8	(419.6) (881.8) CHA 5-6-57		
BAY, 1914	"	"	34 33 23.580 77 18 33.851	726.6 863.0	(660.0) (666.6)		
PASSET, 1932	"	"	34 32 37.126 77 18 34.395	1144.0 877.0	(704.8) (652.9)		
PINE, 1914	G-5297 p. 495	"	34 34 28.091 77 16 19.293	865.6 491.8	(983.2) (1037.6)		
PIVER, 1914	G-5297 p. 494	"	34 34 57.847 77 15 05.910	1782.5 150.6	(66.3) (1378.5)		
WEEK, 1914	G-5297 p. 495	"	34 34 39.562 77 16 02.886	1219.1 73.6	(629.7) (1455.7)		
BAKER, 1914	G-5297 p. 495	"	34 34 16.712 77 16 39.487	515.0 1006.5	(1333.8) (522.9)		
CEDAR POINT, 1914	G.P. p. 122	"	34 33 06.627 77 20 16.248	204.2 414.2	(1182.4) (1115.5)		
CRAG, 1914	G-1654 p. 126	"	34 33 09.692 77 19 06.233	298.6 158.9	(1088.0) (1370.9)		
FISH, 1932 (USE)	G.P. p. 123	"	34 37 10.245 77 21 36.785	315.7 937.1	(608.7) (591.4)		
100,000 Gal. WATER TANK, BARRAGE BALLOON BATTALION USMC	USMC	"	306,221.00 2,492.388.00	372.2 727.9	(1151.8) (796.1)		

1 FT. = 3048006 METER

COMPUTED BY: W. L. Lineweaver

DATE 6/50

CHECKED BY: A. L. Rauck

DATE 6/50

M-2388-12

(13)



MAP T. 9399

PROJECT NO. Ph-58(49)

SCALE OF MAP 1:10,000

SCALE FACTOR 1.000

STATION	SOURCE OF INFORMATION (INDEX)	DATUM	LATITUDE OR $\psi$ -COORDINATE LONGITUDE OR $\chi$ -COORDINATE	DISTANCE FROM GRID IN FEET. OR PROJECTION LINE IN METERS FORWARD (BACK)	DATUM CORRECTION	N.A. 1927 - DATUM DISTANCE FROM GRID OR PROJECTION LINE IN METERS FORWARD (BACK)	FACTOR DISTANCE FROM GRID OR PROJECTION LINE IN METERS FORWARD (BACK)
MON. 160 USMC	USMC p. 11	N.A. 1927	314,638.76 2,493,580.53	143.9 (110.1) 1091.3 (432.7)			
TOWER NINE, 1947	G-7163 p. 606	"	34 31 31.008 77 20 46.019	955.5 (893.4) 1173.7 (356.6)			
VIM, 1932	Spec. Pub. 192 p. 102	"	34 33 01.042 77 18 03.359	32.1 (1816.7) 85.6 (1444.1)			
RANGE THREE, 1947	G-7163 p. 608	"	34 31 31.318 77 20 50.116	965.0 (883.8) 1278.2 (252.1)			
MON. 158 USMC	USMC p. 11	"	315,025.34 2,493,815.45	7.7 (1516.3) 1162.9 (361.1)			
NORTH BASE (USE) 1932	G-1654 p. 125	"	34 33 02.173 77 21 01.661	67.0 (1781.8) 42.3 (1487.5)			
POINT, 1914	G-5297 p. 494	"	34 34 57.292 77 15 39.214	1765.4 (83.4) 999.4 (529.8)			
MON 122 USMC	USMC p. 10	"	322,306.58 2,512,870.62	703.0 (821.0) 875.0 (649.0)			
MON. 64 USMC	USMC p. 12	"	314,430.96 2,515,479.50	1350.6 (173.4) 146.2 (1377.8)			
MON 403 USMC	USMC p. 15	"	306,225.48 2,524,476.83	373.5 (1150.5) 1364.5 (159.5)			
MON 404 USMC	USMC p. 15	"	307,117.68 2,525,615.81	645.5 (878.5) 187.7 (1336.3)			

1 FT. = 3048006 METER

COMPUTED BY: H. P. Eichert

DATE 3/50

CHECKED BY: A. K. Heywood

DATE 3/50

(14)

M. 2388.12



MAP T. 9399 PROJECT NO. Ph-58(49) SCALE OF MAP 1:10,000 SCALE FACTOR 1.000

MAP T. 9399 PROJECT NO. Ph-58(49) SCALE OF MAP 1:10,000 SCALE FACTOR 1.000

MAP T. 9399 PROJECT NO. Ph-58(49) SCALE OF MAP 1:10,000 SCALE FACTOR 1.000

[illegible]

1 FT. = 3048006 METER

COMPUTED BY: B. Wilson

DATE 11/50

H. P. Eichert

DATE \_\_\_\_\_

05/11

W-2388-12

(15)



## COMPILATION REPORT, T-9399

PHOTOGRAMMETRIC PLOT REPORT

Refer to Descriptive Report T-9401 for photogrammetric plot report.

31. DELINEATION

Refer to item 22 of the photogrammetric plot report. All planimetric details were plotted by multiplex and planetable contours were transferred by field photographs and overlays to the manuscript by graphic methods.

32. CONTROL

Item 23 of Photogrammetric Plot Report discusses this adequately.

33. SUPPLEMENTAL DATA

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

Map of Onslow County showing township boundaries.

"North Carolina State Highway and Public Works Commission", 1944 scale 1" = 1 mile.

Map showing the Right of Way of the Intracoastal Waterway, section II, scale 1:10,000 dated February 1952. *This Right-of-way not mapped*

34. CONTOURS AND DRAINAGE

With the exception of the area along the southern coast of this survey the contours were transferred to the manuscript from vinylite overlays prepared by the Field Editor as a revision of the original contours. The original survey along the southern coast was not revised.

Drainage, previously delineated that was in poor agreement with the contours was removed from the manuscript as per instructions dated 28 November, 1951. (Refer to No. 711-mkl)

See Contour Revision and Field Completion Report bound with Descriptive Report for T-9394.

35. SHORELINE AND ALONGSHORE DETAILS

Shoreline inspection was adequate. All low water lines are approximate and are delineated from photo examination and field inspection data. The M. H. W. line was revised in the compilation office to agree with new photography taken Feb. 10, 1952.



36. OFFSHORE DETAILS

Offshore data are complete.

37. LANDMARKS AND AIDS

There are <sup>three</sup> ~~twenty-two~~ nonfloating aids and landmarks within this survey. Twenty <sup>one</sup> ~~of~~ these are non-floating aids, <sup>three</sup> ~~fifteen~~ of which were located by multiplex and five by triangulation in New River. (See Special Report on Triangulation Along New River, North Carolina). There are two landmarks which are triangulation stations.

*See Copies of Forms 567 in this Report.*

38. CONTROL FOR FUTURE SURVEYS

In addition to the three recoverable topographic stations reported in item 11 of the field report, fifteen Forms 524 are herewith submitted for non-floating aids, also one Form 524 for DUCK CREEK AZ. MK., 1932, originating in the Baltimore office is submitted. All stations were plotted by multiplex.

A list of Recoverable Topographic Stations is included under item 49 of this report.

39. JUNCTIONS

Complete and satisfactory junctions have been made to the north with Survey No. T-9395; to the west with Survey No. T-9398; to the east with Survey No. T-9400. To the south is the Atlantic Ocean.

40. HORIZONTAL AND VERTICAL ACCURACY

~~Inapplicable~~ *See Review Report.*

41. BOUNDARIES, MONUMENTS AND LINES

Boundary lines shown are as follows:

U. S. Marine Corp. Reservation Boundary  
Swansboro - Stump Sound Townships

~~Intracoastal Waterway Right of Way. (Refer to letter in this report)~~

42 thru 45 Inapplicable.

46. COMPARISON WITH EXISTING MAPS

The manuscript No. T-9399 has been compared with the following maps:

1. Army Map Service, New River 15-minute quadrangle, scale 1:50,000, dated 1948.
2. U.S.C. & G. S., Air Photo Compilation No. T-5049, Bear Inlet to Alligator Bay, dated Jan. 29, 1933, revision Jan. 14, 1934, scale 1:20,000.

47. COMPARISON WITH NAUTICAL CHARTS

1. Harbor Chart No. 777, scale 1:40,000, published July 1940 (2nd edition) (9/22/52).
2. Inshore Chart No. 833, scale 1:40,000, published June 1946 (2nd edition) (11/22/48).
3. Inshore Chart No. 834, scale 1:40,000, published Sept. 1942 (2nd edition) (4/18/49).

Items to be Applied to Nautical Charts Immediately:

None

Items to be Carried Forward:

None

Respectfully submitted  
27 January 1953

*Donald M. Brant*

Donald M. Brant  
Cartographer

Approved and forwarded

*Jack C. Sammons*  
Jack C. Sammons,  
Capt. U.S.C. & G. S.  
Officer in Charge



## PHOTOGRAMMETRIC OFFICE REVIEW

T. 7399

1. Projection and grids DMB 2. Title DMB 3. Manuscript numbers DMB 4. Manuscript size DMB

## 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 \_\_\_\_\_ 8. Bench marks DMB  
9. Plotting of sextant fixes \_\_\_\_\_ 10. Photogrammetric plot report DMB 11. Detail points DMB

## ALONGSHORE AREAS

(Nautical Chart Data)

12. Shoreline DMB 13. Low-water line DMB 14. Rocks, shoals, etc. DMB 15. Bridges DMB 16. Aids to navigation DMB 17. Landmarks DMB 18. Other alongshore physical features DMB 19. Other along-shore cultural features DMB

## PHYSICAL FEATURES

20. Water features DMB 21. Natural ground cover DMB 22. Planetable contours DMB 23. Stereoscopic instrument contours \_\_\_\_\_ 24. Contours in general DMB 25. Spot elevations DMB 26. Other physical features DMB

## CULTURAL FEATURES

27. Roads DMB 28. Buildings DMB 29. Railroads DMB 30. Other cultural features DMB

## BOUNDARIES

31. Boundary lines DMB 32. Public land lines \_\_\_\_\_

## MISCELLANEOUS

33. Geographic names DMB 34. Junctions DMB 35. Legibility of the manuscript DMB 36. Discrepancy overlay \_\_\_\_\_ 37. Descriptive Report DMB 38. Field inspection photographs DMB 39. Forms DMB  
40. Ronald M. Brant \_\_\_\_\_ Kerry P. Fisher \_\_\_\_\_  
Reviewer Supervisor, Review Section or Unit

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.

Brenda Wilson  
Compiler

Kerry P. Fisher  
Supervisor

43. Remarks:

48. GEOGRAPHIC NAMESAtlantic OceanBig Hammock Pt.Browns SwampBumps Cr.Camp LeJeune USMC Reservation (a)Cedar Pt.Chadwick BayClay Bank Branch (a)Courthouse BayCraig Pt.Creels Pt.Corn Landing (d)Duck CreekDuck Creek (d) (village)Freeman Cr.Fullard Cr.Gillets Creek (as on map)Goose Creek (a)Hall Pt.Harveys Ft.Hatch Pt.Hatch RkHell Gate CrHolover CrHoward BayHurst BeachIntracoastal WaterwayLong RkMarines (village no longer exists: site used only forMarines Road (a)Mile Hammock BayMirey BranchMockup Road (a)New RiverNew River InletN. C. 172Onslow Beach (b)Onslow Beach Road (c)Onslow CountyPeruPeru RoadRaisin RockRoses Pt. (d)

← omit (not approved in project names report)

training purposes (Project names Report)

Hurst } Hurst Beach is oldest name, and is approved by Project Names Report (there was formerly Hurst Ferry in vicinity). Also called Atlantic Beach on one map.

49. NOTES FOR THE HYDROGRAPHER

The following recoverable topographic stations are within this survey:

ALAS, 1950  
BALM, 1950  
COCK, 1950  
DUCK CREEK AZ. MK (1932), 1950  
NEW RIVER DAYBEACON 72, 1950  
NEW RIVER DAYBEACON 74, 1950  
CHADWICK BAY DAYBEACON 4, 1950  
CHADWICK BAY DAYBEACON 6, 1950  
CHADWICK BAY DAYBEACON 10, 1950  
CHADWICK BAY DAYBEACON 12, 1950  
CHADWICK BAY DAYBEACON 14, 1950  
NEW RIVER LIGHT 4, 1950  
CHADWICK BAY LIGHT 9, 1950  
ALLIGATOR BAY LIGHT 15, 1950  
NEW RIVER DAYBEACON, 69, 1950  
CRAIG POINT LIGHT 65, 1950  
NEW RIVER LIGHT 5, 1950  
COURTHOUSE BAY CHANNEL LIGHT, 1950  
NEW RIVER DAYBEACON 67, 1950

~~Check the position of New River Daybeacon 67 located along the Intracoastal Waterway.~~

Check the position of Raisin Rock at the mouth of Chadwick Bay.

Check obstructions shown with 1.3mm circle labeled <sup>"Obstruction"</sup>~~"Elevated object."~~

Check New River Inlet Lights 2A & 2B for proper identification.

48. GEOGRAPHIC NAMES (Continued)

Salliers Bay

Shell Pt. (c)

Sneads Ferry Road (a)

Stump Sound Township (f)

Swan Pt.

Swansboro Township (f)

Toms Cr. (a)

Traps Bay

Traps Creek

Two Pole Branch (a)

Wards Channel

Wilkins Bluff

*Names approved  
5-14-53.*

Source of Names

- (a) From Reservation Boundary map of Camp LeJeune N. C., Sheet 1 of 2 (drawing No. 102), Public Works Dept. 4/9/45.
- (b) There seems to be a discrepancy between "Hurst Beach" and "Onslow Beach." The Geographic Names Sheet calls it "Hurst Beach" while descriptions of triangulation stations and ex-marines refer to this area as "Onslow Beach." Both names are shown on the manuscript.
- (c) The name "Onslow Beach Road" was taken from field photo. LEJ-2-123.
- (d) AMS, New River Quad., scale 1:50,000, dated 1948.
- (e) The name "Shell Pt" was taken from recovery card for CEDAR POINT, 1914.
- (f) From map of Onslow County "North Carolina State Highway and Public Works Commission," scale 1:50,000, 1944.

Field Edit Notes, T-9399 N/2

The compilation of this half quadrangle appears adequate and will be complete after field edit information has been applied.

Drainage has been indicated in detail in black ink on the photographs. It is believed enough notes have been shown on the photographs to aid the compiler in accurately delimiting the flooded areas. ~~limits~~.

Form 524 is being submitted for the three Courthouse Bay Channel lights, as requested.

Field edit information appears on the Discrepancy Print, Field Edit Sheet and the following photographs: LEJ-2-56, 57, 69, 70, 71, 114, 115, 116, 124, 125, and 126.

Geographic names were not checked. A special report for the project has been submitted to the Washington Office.

*William H. Shearouse*  
William H. Shearouse,  
Cartographer

Jacksonville, N. C.  
14 July 1950



Field Edit Notes, T-9399 S/2

The compilation of this half quadrangle is adequate and will be complete after field edit information has been applied.

New River daybeacon 9 was located by theodolite method and the records were forwarded to the Washington Office, consequently no Form 524 was submitted. Form 524 is submitted for New River Light 5.

Additional drainage has been indicated on the photographs in black ink. See Discrepancy Print for references.

No systematic check was made of geographic names. A special report covering the project was forwarded to the Washington Office June 22, 1950.

Field edit information appears on the Discrepancy Print, Field Edit Sheet and photographs LEJ-2-59, 61, 67, 68, 117.

*William H. Shearouse*  
William H. Shearouse,  
Cartographer

Jacksonville, N. C.  
20 July 1950



DEPARTMENT OF COMMERCE  
U. S. COAST AND GEODETIC SURVEY

POST-OFFICE ADDRESS: P. O. Box 824  
Holly Ridge, N. C.

TELEGRAPH ADDRESS:

EXPRESS ADDRESS:

16 June 1951

District Engineer  
Wilmington District  
Corps of Engineers, U. S. A.  
Wilmington, North Carolina

Dear Sir:

Please be advised of the following discrepancy between the data published in the Supplement to 1941 Edition of List of Bridges Over Navigable Waters of the United States and the field measurements, for the U. S. Marine Corps pontoon bridge over the Intracoastal Waterway at Camp Lejeune, N. C.

We have measured and remeasured this bridge with steel tape and find the correct horizontal clearance to be 87.5 feet. The published clearance is 80 feet.

Yours very truly,

William H. Shearouse,  
Cartographer  
for: H. F. Garber,  
Commander, US C & GS,  
Chief of Party

## NONFLOATING AIDS OR LANDMARKS FOR CHARTS

TO BE CHARTED  
~~TO BE OBTAINED~~

STRIKE OUT ONE

Baltimore, Maryland

Jan. 26

1953

I recommend that the following objects which have (~~been~~ *been*) been inspected from seaward to determine their value as landmarks be charted on (~~be charted~~ *be charted*) the charts indicated.

The positions given have been checked after listing by Donald H. Bryant

Chart Letter 545(53)

STATE		NORTH CAROLINA		POSITION				METHOD OF LOCATION AND SURVEY NO.	DATE OF LOCATION	CHARTS AFFECTED		
CHARTING NAME	DESCRIPTION	SIGNAL NAME	LATITUDE		LONGITUDE		DATUM			HARBOR CHART	INSHORE CHART	OFFSHORE CHART
			°	'	°	'						
DAYBN 72	New River Daybn. 72. Red triangular daymk with yellow border on pile		34	33	77	21	N.A. 1927	Air Photo Multiplex T-9399	1950	X	X	777, 833, 834
DAYBN 74	New River Daybn. 74. Red triangular daymk with yellow border on pile	✓	34	33	77	21	"	"	"	X	X	"
DAYBN 4	Chadwick Bay Daybn. 4. Red triangular daymk with yel. bor. on pile.	✓	34	32	77	21	"	"	"	X	X	777, 834
DAYBN 6	Chadwick Bay Daybn. 6. Red triangular daymk with yel. bor. on pile.	✓	34	32	77	21	"	"	"	X	X	"
DAYBN 10	Chadwick Bay Daybn. 10. Red triangular daymk with yel. bor. on pile.	✓	34	31	77	21	"	"	"	X	X	"
DAYBN 12	Chadwick Bay Daybn. 12. Red triangular daymk with yel. bor. on pile.	✓	34	31	77	21	"	"	"	X	X	"
DAYBN 14	Chadwick Bay Daybn. 14. Red triangular daymk with yel. bor. on pile.	✓	34	31	77	22	"	"	"	X	X	"
LT. 4	New River Light 4. Red triangular daymark on pile		34	32	77	20	"	"	"	X	X	777, 833, 834
LT. 9	Chadwick Bay Lt. 9. Black Square daymk with yellow bor. on piles.	✓	34	32	77	21	"	"	"	X	X	777, 834
LT. 15	Alligator Bay Lt. 15. Black square daymk with yellow border on pile.	✓	34	31	77	22	"	"	"	X	X	"
DAYBN 69	New River Daybn 69. Black square daymk with border on pile.		34	33	77	20	"	"	"	X	X	777, 833, 834
LT. 65	Craig Pt. Lt. 65. White pile structure, black tankhouse		34	32	77	19	"	"	"	X	X	"
LT. 5	New River Lt. 5. Black square daymark on pile		34	33	77	21	"	"	"	X	X	"
LT	Courthouse Bay Channel Light. White square daymk on piles.		34	35	77	22	"	"	"	X	X	777

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. In order each column heading should be given.

## NONFLOATING AIDS OBTAINED MARKS FOR CHARTS

TO BE CHARTED  
TO BE EXCHANGED  
STRIKE OUT ONE  
Baltimore, Maryland  
26 January, 1953

I recommend that the following objects which have ~~(been inspected)~~ been inspected from seaward to determine their value as landmarks be charted on ~~(charts indicated)~~ the charts indicated.

The positions given have been checked after listing by David M. Grant

**Jack C. Sammons** *Chief of Party.*

[illegible]

DEPARTMENT OF COMMERCE  
U. S. COAST AND GEODETIC SURVEY

## NONFLOATING AIDS OR LANDMARKS FOR CHARTS

TO BE CHARTED

## TO BE OBTAINED

I recommend that the following objects which have (has) been charted on (~~deleted from~~) the charts indicated, be listed by

The positions given have been checked after listing by

C.I.:

**Washington, D. C.** June 19, 1953

value as landmarks be  
**June 19**

Chief of Party.

STATE		NORTH CAROLINA		POSITION						S. V. Griffith				HARBOR CHART			INSHORE CHART			OFFSHORE CHART			CHARTS AFFECTED																																																																																																																																																																																																																																																					
CHARTING NAME	DESCRIPTION	SIGNAL NAME	LATITUDE*		LONGITUDE*		DATUM	METHOD OF LOCATION AND SURVEY NO.	DATE OF LOCATION	METHOD OF LOCATION AND SURVEY NO.	DATE OF LOCATION	METHOD OF LOCATION AND SURVEY NO.	DATE OF LOCATION	METHOD OF LOCATION AND SURVEY NO.	DATE OF LOCATION	METHOD OF LOCATION AND SURVEY NO.	DATE OF LOCATION	METHOD OF LOCATION AND SURVEY NO.	DATE OF LOCATION	METHOD OF LOCATION AND SURVEY NO.	DATE OF LOCATION	METHOD OF LOCATION AND SURVEY NO.	DATE OF LOCATION	METHOD OF LOCATION AND SURVEY NO.	DATE OF LOCATION	METHOD OF LOCATION AND SURVEY NO.	DATE OF LOCATION	METHOD OF LOCATION AND SURVEY NO.	DATE OF LOCATION	METHOD OF LOCATION AND SURVEY NO.	DATE OF LOCATION	METHOD OF LOCATION AND SURVEY NO.	DATE OF LOCATION	METHOD OF LOCATION AND SURVEY NO.	DATE OF LOCATION	METHOD OF LOCATION AND SURVEY NO.	DATE OF LOCATION	METHOD OF LOCATION AND SURVEY NO.	DATE OF LOCATION	METHOD OF LOCATION AND SURVEY NO.	DATE OF LOCATION	METHOD OF LOCATION AND SURVEY NO.	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**DEPARTMENT OF COMMERCE**  
**U. S. COAST AND GEODETIC SURVEY**

U. S. COAST AND GEODETIC SURVEY

# NON-FLOATING AIDS FOR CHARTS

TO BE CHARTED } STRIKE OUT ONE

Baltimore, Maryland

26 Jan. 1953

I recommend that the following objects which have ~~(not been)~~ been inspected from seaward to determine their value as landmarks be charted on ~~(not been)~~ the charts indicated.

The positions given have been checked after listing by

**Donald H. Brant**

Chart Letter 545 (55)

**Jack O. Carmona**

Chief of Party.

[illegible]

NOTES TO COMPILER  
Project Ph-58(49) T-9399  
Contour Revisions

Notes to compiler, T-9399, are submitted in lieu of a contour revision report. A report including the revision of contours for the entire project will be submitted at the close of field work.

The purpose of these notes is to inform the compiler of:

1. Why the contours were revised.
2. Methods.

1. Why the contours were revised. The planimetry of this map was field edited in the spring and summer of 1950. The contouring as described on page 9 of this report followed the field edit.

These contours were examined in the Washington office during the summer of 1951 and tested in the field later in the year. As the result of this, it was concluded that considerable contour revision would be required.

2. Methods. New photographs were taken in February 1952, at approximately 1:10,000 scale with the Bureau's 6-inch focal length cartographic camera. These photographs were superior to the original 1949 Hydrographic Office photographs for stereoscopic examination.

Before attempting any field work all visible drainage was outlined on the 1952 photographs. Overlays were prepared using the original contour photographs as a base sheet. The drainage was then drawn on the overlays and compared with the original contours. Areas where extensive sketching had occurred, areas where control was weak and areas where drains were omitted or conflict with the drainage on the overlays were selected for field checks. These areas were given a thorough stereoscopic examination prior to field work.

The field work was done on the original contour photographs, by standard planetable methods. The revision survey elevations are shown in red ink; checked elevations are indicated by a circle around the point and unchecked elevations by an X.

Upon completion of the field work the contours were revised on acetate overlays to agree with the revised drainage and field elevations.

#### Vertical Accuracy.

The vertical accuracy of this map as corrected on the acetate overlays complies with National Map Accuracy standards.

In addition to the numerous planetable traverses run throughout the quadrangle, one vertical accuracy test was made. Ninety-five per cent of the points tested were within one-half contour interval. These elevations are shown on the original contour photograph No. LEJ 2-69 in violet ink. No attempt was made to correct the contours on the overlay as the result of this test.

T-9399  
Page 2

Misc. Some new roads and buildings have been constructed since the 1950 field edit. These are properly classified on the 1952 photographs and are referenced on the acetate overlays. Tank and jeep roads on the Marine reservation were ignored.

Both perennial and intermittent drainage and swamp limits are indicated on the overlay sheets by the conventional symbol.

Submitted 15 May 1952

*R L McGlinchey*  
Richard L. McGlinchey  
Cartographic Survey Aid

Approved  
27 May 1952

*H R Cravat*  
Harland R Cravat



Review Report T-9399  
Topographic Map  
July 1, 1953

62. Comparison with Registered Topographic Surveys

T- 558	1:10,000	1856
T-1291	1:20,000	1872
T-4294	"	1927
T-4721	1:10,000	1932-33
T-4722	"	1933
T-5049	1:20,000	1933
T-5050	"	1933
T-6004	"	1933

These surveys are superseded by the map manuscript for nautical charting purposes.

63. Comparison with Maps of Other Agencies

AMS New River Quad	1:50,000	1948
HO Misc. 15 042-5D-N1	1:50,000	1948

The Army Quadrangle does not show the spoil banks along the Intracoastal Waterway.

There have been considerable shoreline changes around New River Inlet.

The H.O. Chart does not show all the fixed aids to navigation in the area.

64. Comparison with Contemporary Hydrographic Surveys

None.

65. Comparison with Nautical Charts

Nautical Chart 777	1:40,000	1940 Corr. 1952
Nautical Chart 834	1:40,000	1952

Two images on the 1952 photographs in New River Inlet were mapped as elevated objects. A comparison with the Nautical Charts indicates that these objects are probably New River Inlet Lights 2A and 2B. A Form 567 has been submitted listing the positions obtained by photogrammetric methods. These lights were not field identified.

An elevated tank north of Wilkins Bluff should be charted. See Chart Letter 545 (53).

66. Adequacy of Results

This map conforms with project instructions and  
National Map Accuracy Standards.

Reviewed by:

Charles Theurer  
C. Theurer

Approved by:

L. C. Lande  
Chief, Review Branch  
Division of Photogrammetry

H. C. Edmonstone  
Chief, Nautical Chart Branch  
Division of Charts *GR*

W. J. Sauron  
Chief, Div. of Photogrammetry  
*13 July 1955* *WJS*

Carl O. Hartman  
Chief, Division of Coastal  
Surveys

## History of Hydrographic Information

T-9399 - North Carolina

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

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

H-4696	1:40,000	1926-27
H-5277	1:10,000	1933
NC-834	1:40,000	1952
NC-777	"	1940

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

*Charles Theurer*  
C. Theurer  
Feb. 4, 1954