

6368a  
6368b

U. S. COAST & GEODETIC SURVEY  
LIBRARY AND ARCHIVES

OCT 31 1935

Acc. No. \_\_\_\_\_

Form 504  
Ed. June, 1928

DEPARTMENT OF COMMERCE

U. S. COAST AND GEODETIC SURVEY

R. S. Patton, Director

State: North Carolina

DESCRIPTIVE REPORT

*Topographic* } Sheet No. M  
*Hydrographic* }

LOCALITY

Albemarle Sound

Powell Pt. and Vicinity

1935

CHIEF OF PARTY

Raymond P. Eymann, H. & G. E.

U. S. GOVERNMENT PRINTING OFFICE: 1921

6368a  
6368b

Applied to Chart. 1228 - Mar - '35

H. S. Bond

Applied to drawing of Chart 1229 - May 1936 - A.B.M.

OCT 16 1935

REG. NO.

TOPOGRAPHIC TITLE SHEET

Acc. No.

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. "M" T6368a

REGISTER NO.

State North Carolina

General locality Albemarle Sound

Locality West Shore of Powell Point and Vicinity

Scale 1/10,000 Date of survey April, 1935

Vessel M.V. Natoma

Chief of Party R.P. Eymen

Surveyed by E. L. Jones

Inked by E. L. Jones

Heights in feet above \_\_\_\_\_ to ground to tops of trees

Contour, Approximate contour, Form line interval \_\_\_\_\_ feet

Instructions dated August 31, 1934

Remarks: \_\_\_\_\_

Descriptive Report to accompany  
Topographic Sheet "M" Albemarle Sound  
North Carolina.

Instructions

This work is a part of Project HT- 189, M.V. Natoma instructions for which are dated Aug. 31, 1934. ✓

Limits and Scale

Surveyed on a scale of 1-10,000, the sheet covers the shoreline of Albemarle Sound from Newbern Landing southward to a point about halfway to Powells Pt. or 150 meters SE of  $\Delta$  Snake (1933). ✓

This sheet is joined on the north by sheet "L" and on the south by "N". ✓

Control and Survey Methods

The control consisted of 7 triangulation stations, 5 of which are on the north edge of the sheet.

Plane-table positions from Newbern2 to the north were obtained entirely by resections and three-point fixes.

The shoreline from  $\Delta$  Snake to  $\Delta$  Newbern2 was traversed. At  $\Delta$  Snake with an orientation on  $\Delta$  Entrance Beacon the traverse was run to  $\Delta$  Newbern2 with a closing error of 9 meters, which was adjusted by standard methods.

The set-ups were nearly all in the water due to the foul condition of the shoreline, and trouble was experienced in keeping the table level and properly orientated.

The tree line was sketched in from a few cuts and estimated distances.

The declinator with Alidade H218 was used for magnetic meridians.

Description of Topographic Features

The entire shoreline is very foul with stumps, cypress knees and fallen trees. From  $\Delta$  Newbern2 to the north it is very irregular and marshy. The marsh grass is from 5 to 6 ft. tall and extends out to the water's edge.

The shoreline south of  $\Delta$  Newbern2 is more regular and is sandy.

The outer limits of the water areas foul with stumps and knees are shown by a dashed line. Wherever a rod shot was taken to delineate this line on the sheet it is shown by a small black circle.

The three wrecked wharfs at Newbern Landing have been stripped of their flooring. <sup>all</sup>

Statistics

Shoreline - - - - - 4.9 mi. (stat.)  
Area surveyed - - - - - 0.5 sq. mi.  
Traverse - - - - - 2.1 mi.

New Names

The only new name appearing on this sheet is Newbern Landing which is well established in local usage.

Signals

A list of hydrographic signals is attached in the appendix.

Landmarks

There are no additional landmarks on this sheet.

*approved & prepared  
Raymond E. Egan  
Chief of Party*

Respectfully submitted.  
*Edmund L. Jones, Aid. C. & G. S.*

List of Signals for Sheet "M"

<u>Name</u>	<u>Latitude</u>		<u>Longitude</u>	
- Mar	36	09 <del>1113</del> (738)	75	51 <del>1292</del> (208)
Up	36	08 738 (1111)	75	51 1438 ( 62)
Bly	36	08 1537 (312)	75	52 513 (987)
Cap	36	08 361 (1488)	75	52 108 (1392)
Clem	36	07 1306 ( 543)	75	52 55 (1445)
Ax	36	07 1004 ( 845)	75	51 84 (1416)
Bob	36	07 672 (1177)	75	51 1267 ( 233)
Cad	36	07 317 (1532)	75	51 1079 (421)
Dot	36	07 47 (1802)	75	51 952 ( 548)
Eli	36	06 <del>1477</del> ( 372)	75	51 632 ( 869)
Fan	36	06 <del>808</del> (1041)	75	51 262 (1239)

DEPARTMENT OF COMMERCE  
U. S. COAST AND GEODETIC SURVEY

U. S. COAST & GEODETIC SURVEY  
LIBRARY AND ARCHIVES

OCT 16 1935

REG. NO.

TOPOGRAPHIC TITLE SHEET Acc. No.

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. "N" & "K" **T6368 b**

REGISTER NO.

State North Carolina.

General locality ~~North River and Albemarle Sound.~~

Locality ~~Broad Creek and Powell Point.~~ and Vicinity

Scale 1/10,000 Date of survey March, 1935

Vessel M.V. Natoma

Chief of Party R. P. Eyma

Surveyed by E. L. Jones

Inked by E. L. Jones

Heights in feet above.....to ground to tops of trees

Contour, Approximate contour, Form line interval.....feet

Instructions dated August 31, 1934

Remarks:.....

Descriptive Report to accompany  
Topographic Sheet "N" Albemarle Sound, N.C.  
and subplan "K", Broad Creek.

Instructions

This work was done in accordance with instructions dated Aug. 31, 1934  
for Project HT-189, M.V. Natoma. ✓

Limits and Scale

Surveyed on a scale of 1-10,000 the sheet covers the shoreline of  
Albemarle Sound from Lat. 36 06.1, Long. 75 50.9 southward around Powell  
Pt. to the Wright Memorial Bridge. The subplan covers Broad Creek from its  
junction with North River westward to Long. 75 59; it joins with sheet K ✓  
on the east. Sheet N joins with sheet "M" on the northwest and is the last ✓  
sheet in this area on this project.

Control and Survey Methods

Sheet "N": Positions were obtained in the vicinity of Point Harbor  
by resection and three point fixes. A set-up was made in the center of the ✓  
Wright Memorial Bridge at a point near the west abutment from a rodded distance  
from  $\Delta$  Harbor; from this position an orientation was made on  $\Delta$  Beacon and  
a cut was taken down the center line of the bridge.

The following two traverses were run on this sheet:

- (1)  $\Delta$  Powell -  $\Delta$  Tall 2.1 mi. - 9 meters closure - adjusted.
- (2)  $\Delta$  Tall -  $\Delta$  Snake 1.6 " - 4 " " - "

Most of the set-ups on both traverses were in the water where trouble ✓  
was experienced in keeping the table level and in proper orientation.

Magnetic meridians were obtained with the declinoire with Alidade  
H 236. A small discrepancy was noted between the 3 meridians. The one  
taken at  $\Delta$  Tall was obtained from the top of a 40 ft. stand and is probably ✓  
subject to some small error.

Sheet "K": The control consisted of two triangulation stations  
just outside the mouth of Broad Creek. From these two stations  $\odot$  Del was  
located by cuts. A traverse was run from  $\odot$  Del to the west limits of the  
sheet and back to a closure on  $\odot$  Del again, establishing intermediate  
stations enroute; the traverse was run 4.2 miles by way of  $\odot$  Min,  $\odot$  Mex,  
 $\odot$  Ill,  $\odot$  Doc,  $\odot$  Tik,  $\odot$  Neb, and  $\odot$  Wis; the back traverse was run from an  
assumed point on the sheet 20 meters south of  $\odot$  Wis and closed 3 meters in error  
from a point 20 meters south of  $\odot$  Del; the same set-up points were used on both  
runs.

Stations Feb and  $\odot$  Ida were established from  $\odot$  Wis by traverse, both  
forward and back distances being read on the rod in each case.

The shoreline was rodded from the above traverse stations.

Alidade #218 was used on this work, which was later thoroly checked  
by the topographer and Ensign J.C. Bull with the following results:

<u>Rod Distance</u>	<u>Correction to be applied</u>
100 meters	-0.8 meter
200 "	-1.6 "
300 "	-2.2 "
400 "	-2.5 "

No stadia corrections were applied to the traverses run in the field,  
however the adjustment was made by plotting corrections to the stadia  
distances on a scale of 100:1, and holding to the original directions  
between traverse stations. The plotting was made directly on the sheet,

The corrections were scaled and applied. The rod shots on the shoreline were adjusted the same amount as the traverse stations from which taken.

#### General Description and Topographic Features

Sheet "N": The shoreline on this sheet is nearly all sandy and regular except for the stretch between @ Hit and ΔSnake, which is very ragged and marshy. The marsh area is covered with a scattered growth of cypress and black gum.

SE of @ Hit there is an occasional heavy stand of southern pine.

Point Harbor affords good protection for small boats. Many fishermen use the harbor for an anchorage and the docks for loading purposes.

The Wright Memorial Bridge was purchased by the State and opened to the public toll free on July 4, 1935.

The shoreline from Powell Pt. to ΔSnake is covered with stumps and cypress trees, many of which extend out into the water. The outside limits are shown by a dashed line, small black circles indicating rod shots and black dots inside the dashed line indicate stumps and knees.

Sheet "K": The entire shoreline is very irregular and marshy. The marsh grass is about 5 to 6 ft. tall and extends down to the water's edge.

The wooded area is thickly covered with cypress and black gum with a sprinkling of southern pine. Wherever the trees make out to the water's edge the shoreline is very foul with fallen trees, stumps, and cypress knees.

#### Statistics

	Sheet "N"	Sheet "K"
Stat. miles of shoreline -	4.8	6.9
Area surveyed sq. mi. -	0.5	0.9
Traverses stat. mi. -	3.6	4.2

#### New Names

The only new name is the Wright Memorial Bridge on sheet "N". This name was given by the former owners and still known by the State as such; it was dedicated to the Wright Brothers in recognition of their first successful airplane flights on the nearby sand hills and beach which is connected to the mainland by this bridge, and is widely known throughout the state by this name.

#### Landmarks

The only landmarks on either sheet are the beacon off Powell Pt. and the above bridge, both of which are on sheet "N".

#### Signals

A list of positions of signals for each sheet is attached.

Respectfully submitted,

Approved and forwarded

*Raymond P. Eymann*  
Raymond P. Eymann,  
Chief of Party.

*Edmund L. Jones*  
Edmund L. Jones,  
Aid, Topographer.



List of Signal Positions

<u>Name</u>	<u>Sheet "N"</u>		-	<u>Longitude</u>	
	<u>Latitude</u>				
Gus	36 05 1704	( 145)	-	75 50 1009	( 492)
Sid	05 1447	( 402)	-	50 671	( 830)
Him	05 998	( 851)	-	50 162	(1339)
Hit	05 809	(1040)	-	49 1302	( 199)
Ros	05 275	(1574)	-	49 668	( 833)
Haw	04 86	(1763)	-	49 103	(1399)
Mut	04 1269	( 580)	-	48 969	( 533)
Git	04 1052	( 797)	-	48 567	( 935)

	<u>Sheet "K"</u>		-		
Del	36 12 198	(1651)	-	75 57 665	( 834)
Ark	11 1834	( 15)	-	57 893	( 606)
Min	12 459	(1400)	-	57 1136	( 363)
Ore	12 703	(1146)	-	57 1262	( 237)
Mex	12 864	( 985)	-	57 1360	( 139)
Ill	12 1376	( 473)	-	58 43	(1456)
Tex	12 1245	( 604)	-	58 222	(1277)
Doc	12 1356	( 493)	-	58 518	( 981)
Sep	12 1029	( 820)	-	58 450	(1049)
Tik	12 866	( 983)	-	58 764	( 735)
Neb	12 1210	( 639)	-	58 904	( 595)
Pod	12 1077	( 772)	-	58 1037	( 462)
Ida	12 742	(1107)	-	59 18	(1481)
Tom	12 1137	( 712)	-	59 34	(1465)
Wis	12 1420	( 429)	-	58 1371	( 128)
Jan	12 1609	( 240)	-	58 1356	( 143)
May	13 111	(1738)	-	58 1392	( 107)
Feb	13 136	(1713)	-	58 1197	( 302)

DEPARTMENT OF COMMERCE  
U. S. COAST AND GEODETIC SURVEY

LANDMARKS FOR CHARTS

M.V. Natoma, Elizabeth City, N.C.

October 16, 1935, 193

DIRECTOR, U. S. COAST AND GEODETIC SURVEY:

The following determined objects are prominent, can be readily distinguished from seaward from the description given below, and should be charted.

*Raymond P. Eyma*  
Raymond P. Eyma

Chief of Party.

DESCRIPTION	POSITION					METHOD OF DETERMINATION	CHARTS AFFECTED	
	LATITUDE		LONGITUDE		DATUM			
	°	'	°	'				
Beacon, lighted	36	03	873.5	75	47	73.5	N.A.1927 Tria.	1229, 3252

A list of objects which are of sufficient prominence for use on the charts, together with a description of the same, must be furnished in a special report on this form, and a copy of such report must be attached by the Chief of Party to his descriptive report. The selection, determination, and description of these points are of primary importance. The description of each object should be short, but such as will identify it; for example, standpipe, water tower, church spire, tank, tall stack, red chimney, radio mast, etc. Generally, flagstaves and like objects are not sufficiently permanent to chart.

Date. Nov. 20, 1935.

GEOGRAPHIC NAMES

Survey No. 6368a M  
6368b N

Chart No. 1229, 1228

Diagram No. 1228-2, 1229-2

Approved by the Division of Geographic Names, Department of Interior. ✕

Referred to the Division of Geographic Names, Department of Interior. R

Under investigation. Q

Status	Name on Survey	Name on Chart	New Names in local use	Names assigned by Field	Location
	<u>Albermarle Sound</u> ✓	1229			
	<del>NEWBERN</del> <u>Newbern Landing</u> ✓		✓		
	<u>Powell Pt.</u> ✓				
	<u>Sampson Pt.</u> ✓				
	<u>Point Harbor</u> ✓				
	<u>Broad Cr.</u> ✓				
	<u>WRIGHT MEMORIAL BRIDGE</u> ✓		✓		
Names approved Dec. 13 1935					
C. E. Ogden					

REVIEW OF TOPOGRAPHIC SURVEY No. 6368 a, H  
 ALBEMARLE SOUND  
 POWELL POINT AND VICINITY  
 FIELD "M", "E"

Title (Par. 56) ~~R.P. EYMAN~~  
 R.P. EYMAN

Chief of Party ~~R.P. EYMAN~~. Surveyed by E.L. JONES Inked by E.L. JONES.

Ship NATOMA Instructions dated AUG. 31 '34 Surveyed in APRIL, 1935.

- ✓ 1. The survey and preparation for it conform to the requirements of the Topographic Manual. (Par. 7, 8, 9, 13, 16.)  
*reference stations - by C.H.* ✓
- ✓ 2. The character and scope of the survey satisfy the instructions. ✓
- ✓ 3. The control and closures of traverses were adequate. (Par. 12, 29.) ✓
4. ~~The amount of vertical control that the Manual specifies for contours-formlines was accomplished.~~ (Par. 18, 19, 20, 21, 22, 23.)
5. ~~The delineation of contours-formlines is satisfactory.~~ (Par. 49, 50.)
6. ~~There is sufficient control on maps from other sources that were transmitted by the field party to enable their application to the charts.~~ (Par. 28.)
- ✓ 7. High water line on marshy and mangrove coast is clear and adequate for chart compilation. (Par. 16a, 43, 44.) ✓
- ✓ 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.) ✓
9. Rocks and other important details shown on previous surveys and on the chart were verified. (Par. 25, 26, 27.)  
~~SHEET 45902~~  
~~POWELL PT. TO NEWBORN~~  
~~BANDING EXAMINED.~~  
~~C.H. 2-14-36.~~
10. ~~The span, draw and clearance of bridges are shown.~~ (Par. 16c.)
11. ~~Locations and elevations of summits are given.~~ (Par. 19, 51.)
12. ~~The tree line was shown on mountains.~~ (Par. 16g.)

NOTE: Strike out paragraphs, words or phrases not applicable and modify those requiring it. Paragraph numbers refer to those in the Topographic Manual. Use reverse side for extending remarks.

- ✓ 13. The descriptive report covers all details listed in the Manual, in so far as they apply to this survey. (Par. 64, 65, 66, 67.) ✓
14. ~~The descriptive report also contains additional information required in aero-topography relative to type of photographs, method of compilation and type of ground control.~~
- ✓ 15. The descriptions of recoverable stations and references to shore line were accomplished on Form 524. (Par. 29, 30, 57, 67 except scaling of DMs and DPs, 68.) ✓
- ✓ 16. A list of landmarks for charts was furnished on Form 567 and plotting checked. (Par. 16d, e, 60.) ✓
- ✓ 17. The magnetic meridian was shown and declination was checked. (Par. 17, 52.) ✓
- ✓ 18. The geographic datum of the sheet is N.A. 1927 (UNADJUSTED) and the reference station is correctly noted. (Par. 34.) ✓
- ✓ 19. Junctions with contemporary surveys are adequate. ✓
- ✓ 20. Geographic names are shown on the sheet and are covered by the Descriptive report. (Par. 64, 66k.) ✓
- ✓ 21. The quality of the drafting is <sup>EXCELLENT</sup> good. (Par. 31, 32, 33, 35, 36, 37, 38, 39, 40, 41, 42, 45, 46, 47, 48, 49, 50.) ✓
- ✓ 22. No additional surveying is recommended.
- ✓ 23. The Chief of Party inspected and approved the sheet and the descriptive report. ~~after review by~~ *by R. P. EYMAN.*
- ✓ 24. Remarks: *No additional work required.*

Reviewed in office by *C. H. Green*

Examined and approved:

*C. H. Green*  
Chief, Section of Field Records

*L. O. Lobnitz*  
Chief, Division of Charts

*Fred. L. Peacock*  
Chief, Section of Field Work

*G. W. Hude*  
Chief, Division of Hyd. and Top.

## REVIEW OF TOPOGRAPHIC SURVEY No. 6368 6 (IN PART)

ALBEMARLE

Title (Par. 56) POWELL POINT + VICINITY

Chief of Party R.P. EYMAN Surveyed by E.L. JONES Inked by E.L. JONES.

Ship NATOMIA Instructions dated AUG. 31, '34 Surveyed in MARCH 1935.

1. The survey and preparation for it conform to the requirements of the Topographic Manual. (Par. 7, 8, 9, 13, 16.) ✓

*Reference Stations checked by G.H.G.*

2. The character and scope of the survey satisfy the instructions. ✓

3. The control and closures of traverses were adequate. (Par. 12, 29.) ✓

4. ~~The amount of vertical control that the Manual specifies for contours-formlines was accomplished.~~ (Par. 18, 19, 20, 21, 22, 23.)

5. ~~The delineation of contours-formlines is satisfactory.~~ (Par. 49, 50.)

6. ~~There is sufficient control on maps from other sources that were transmitted by the field party to enable their application to the charts.~~ (Par. 28.)

7. High water line on marshy and mangrove coast is clear and adequate for chart compilation. (Par. 16a, 43, 44.) ✓

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.) ✓

9. Rocks and other important details shown on previous surveys and on the chart were verified. (Par. 25, 26, 27.)

*Sheet H 5902*

*Powell Pt. to Newbern*

*landing examined*

*See Note A*

*G.H.G. 2-14-36*

INSERT OF BROAD CREEK  
AWAITS REVIEW PENDING  
RECEIPT OF HYDRO. SHEET.  
completion

*Compared with H-5701 (1935)  
[Broad Creek] and completed  
determination, R.F.G. Apr. 1st 1936.*

10. ~~The span, draw and clearance of bridges are shown.~~ (Par. 16c.)

11. ~~Locations and elevations of summits are given.~~ (Par. 19, 51.)

12. ~~The tree line was shown on mountains.~~ (Par. 16g.)

NOTE: Strike out paragraphs, words or phrases not applicable and modify those requiring it. Paragraph numbers refer to those in the Topographic Manual. Use reverse side for extending remarks.

*(over)*

Note A  
8

The remains of an old dock extending from shore in Lat.:  $36^{\circ}-05.5'$ ; Long:  $79^{\circ}-50.0'$  disagrees with location noted by sextant fix on sheet H 5902.

~~4~~  
Investigation fails to disclose the source of error and after consultation in the office with the Chief of Party (R.P. EYMAN) it is considered advisable to hold the matter up until receipt of the aerial compilation sheet.

Comparison with the air photos shows that the sextant fix is the correct location for the dock. The dock on T-6368 b (1935) has been changed to conform to the air photos. RJB, Apr. 10, 1936

13. The descriptive report covers all details listed in the Manual, in so far as they apply to this survey. (Par. 64, 65, 66, 67.) ✓
14. ~~The descriptive report also contains additional information required in aero-topography relative to type of photographs, method of compilation and type of ground control.~~
15. The descriptions of recoverable stations and references to shore line were accomplished on Form 524. (Par. 29, 30, 57, 67 except scaling of IMs and DPs, 68.) ✓
16. A list of landmarks for charts was furnished on Form 567 and plotting checked. (Par. 16d, e, 60.) ✓
17. The magnetic meridian was shown and declination was checked. (Par. 17, 52.) ✓
18. The geographic datum of the sheet is *N.A. 1927 (unadjusted)* and the reference station is correctly noted. (Par. 34.) ✓
19. Junctions with contemporary surveys are adequate. ✓
20. Geographic names are shown on the sheet and are covered by the Descriptive report. (Par. 64, 66k.) ✓
21. The quality of the drafting is good. (Par. 31, 32, 33, 35, 36, 37, 38, 39, 40, 41, 42, 45, 46, 47, 48, 49, 50.) ✓
22. No additional surveying is recommended. ✓
23. The Chief of Party inspected and approved the sheet and the descriptive report. ~~after review by~~ *R.P. EMMETT.*
24. Remarks: *No additional work required.*

Reviewed in office by

*E. H. Green*  
*Inspected by G. L. Schalauß*

Examined and approved:

*E. H. Green*  
Chief, Section of Field Records*L. O. Lobert*  
Chief, Division of Charts*Fred. L. Pearson*  
Chief, Section of Field Work*G. H. Hude*  
Chief, Division of Hyd. and Top.