Diag. Cht. No. 528 & 1232-2 & 1110

Form 504

U. S. COAST AND GEODETIC SURVEY
DEPARTMENT OF COMMERCE

DESCRIPTIVE REPORT

Type of Survey  TOPOGRAPHIC

Field No. Ph-5(45)  Office No. T-8724

LOCALITY

State  NORTH CAROLINA

General locality  PAVILLO-COUNTY

Locality  NEUSE RIVER

1948

CHIEF OF PARTY

R. J. Sipe, Chief of Field Party.
R. A. Gilmore, Tampa Photogrammetric Office

LIBRARY & ARCHIVES

DATE  March 4, 1952
DATA RECORD

T - T-8724

Quadrangle (II): Project No. (II): Ph-(545)


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

Instructions dated (II III): Undated Copy filed in Descriptive Report No. T-

Completed survey received in office: Division of Survey. Review Sec. Files.

Reported to Nautical Chart Section: 11-30-48

Reviewed: Aug. 24, 1950 Applied to chart No. Date:

Redrafting Completed:

Registered: 5 Feb 1952 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): Neuse River Env., 1933

Lat.: 35° 05' 20.009" (616.6m) Long.: 76° 32' 56.165" (1422.7m) Adjusted

State Plane Coordinates (VI):

North Carolina State Grid

X = 

Y = 

Military Grid Zone (VI)
### PHOTOGRAPHS (III)

<table>
<thead>
<tr>
<th>Number</th>
<th>Date</th>
<th>Time</th>
<th>Scale</th>
<th>Stage of Tide</th>
</tr>
</thead>
<tbody>
<tr>
<td>15919</td>
<td>Apr. 1, 1946</td>
<td>12:39</td>
<td>1:20,000</td>
<td>No perceptible tide</td>
</tr>
<tr>
<td>15920</td>
<td></td>
<td>12:40</td>
<td>&quot;</td>
<td>in this area</td>
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<tr>
<td>15957*</td>
<td>Apr. 5, 1946</td>
<td>13:21</td>
<td>&quot;</td>
<td></td>
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<tr>
<td>15958</td>
<td></td>
<td>&quot;</td>
<td>&quot;</td>
<td></td>
</tr>
<tr>
<td>15966</td>
<td></td>
<td>13:30</td>
<td>&quot;</td>
<td></td>
</tr>
</tbody>
</table>

Tide from (III): No tide

Mean Range: No tide

Camera: (Kind or source) U.S. C. & G.S. 9-lens 8½" focal length

Field Inspection by: M.A. Stewart  
Field Edit by: Cecil Navin  
Elevations on Field Edit Sheet checked by: J.A. Giles

Date of Mean High-Water Line Location (III): April 12, 1948

Projection and Grids ruled by (III) H.K. (N.O.)  
Control plotted by: R.A. Reece  
Control checked by: I.I. Saperstein  
Radial Plot by: M.M. Slavney  
Detailed by: R.A. Reece  
Reviewed in compilation office by: J.A. Giles

Date of Field Edit Sheet: Aug. 22, 1947

Date of Mean Range: June 16-30, 1948

Aug. 22, 1947

Aug. 22, 1947

date: Nov. 17, 1947

date: Nov. 17, 1947

date: Dec. 8, 1947

date: Dec. 18, 1947

date: Sept. 15, 1948

date: Oct. 1948

date: Oct. 1948
STATISTICS (III)

Land Area (Sq. Statute Miles):  8.4  

Shoreline (more than 200 meters to opposite shore):  17 Statute miles

Shoreline (less than 200 meters to opposite shore):  16 " "

Number of Recoverable Topographic Stations established:  5

Number of Temporary Hydrographic Stations located by radial plot: None

Leveling (to control contours) - miles:  4

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:
Summary Report to Accompany T-8724
Topographic Map

T-8724 is one of a series of 37 7½-minute quadrangles in project Ph-5(45) in North Carolina, and covers an area in the vicinity of Broad Creek and Turnagain Bay on the Neuse River. T-8724 falls almost entirely on the northwest side of the Neuse River with a small portion near Turnagain Bay.

The land area is on low ground and is marsh for the most part with the highest elevation near 7½ feet. Cultivation is confined to the higher ground and is drained by numerous small ditches which empty into the many small creeks and tributaries of Broad Creek.

The field work was accomplished in the summer of 1948 by personnel under the direction of Riley J. Sipe, the radial plot and compilation in Tampa in the fall of 1948, and field edit in May 1950.

The several mapping operations were:

(a) Nine-lens aerial photography and laboratory processing at 1:20,000 scale.

(b) The field survey included shoreline inspection, recovery of horizontal control, establishment of supplemental vertical and horizontal control, plan-able contouring annotation of the field photographs and geographic names investigation.

(c) Compilation by graphic methods

(d) Preliminary office inspection (W.O.)

(e) Field check and edit of finished manuscript.

(f) Final review of the map manuscript to ensure completeness of and conformance with specifications, and to include corrections and additions by the field check and completion survey.

(g) Processing - a 1:20,000 scale glass plate negative will be prepared for transmittal to the Geological Survey.

T-8724 will be published and distributed by the Geological Survey at 1:24,000 scale as a standard topographic quadrangle in accordance with an Agreement of March 25, 1947.

Data pertaining to T-8724 will be filed and may be obtained as follows:
(a) Filed in the Division of Photogrammetry.

1. T-8724, 1:20,000 scale manuscript (acetate original) field edit and final review corrections applied.
2. Duplicate descriptive report.
3. Form 524 topo station description cards (5).
4. Form M-2226-12, pricking cards for photo identification of horizontal control used in the radial plot (2).
5. Field edit sheet.
6. One set each of field and office photographs.

(b) Filed in the Coast and Geodetic Survey Archives.

1. One 1:20,000 scale cloth-backed lithographic print of map manuscript T-8724 and the original descriptive report will be registered.
2. When T-8724 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-5724
Project Ph-5(45)
(35-00/76-30/7.5)
Riley J. Sipe, Chief of Party

All phases of field work were done in accordance with the Director's Instructions, Project Ph-5(45), Field, undated; Supplement No. 1 to the above, dated 11 November 1946; and other applicable instructions as herein noted.

The various phases of the field work were done by the following personnel:

<table>
<thead>
<tr>
<th>Name &amp; Title</th>
<th>Phase</th>
<th>Dates</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td></td>
<td>8/22/47 - 4/12/48</td>
</tr>
</tbody>
</table>

1. DESCRIPTION OF THE AREA

The area covered by this quadrangle is located in Pamlico County, N. C. There are no villages in this quadrangle. The Neuse River covers the greater portion of the quadrangle.

The land area is mostly wooded, with pines predominating. The northern section of the quadrangle is swampy, and this area is the source of several of the larger streams.

Transportation facilities consist of two roads in the quadrangle. One is on the west of the quadrangle and is passable at all times. One road in southeastern section of the quadrangle is impassable in wet weather.

2. COMPLETENESS OF FIELD INSPECTION

The field inspection is believed to be adequate and complete to date.

Woodland cover was classified in accordance with Photogrammetry Instructions, No. 15, dated 16 June 1947.
3. **INTERPRETATION OF THE PHOTOGRAPHS**

Little difficulty in interpretation of the photographs was encountered.

4. **HORIZONTAL CONTROL**

All horizontal control was recovered or searched for and a sufficient number of stations were identified for the control of the radial plot.

5. **VERTICAL CONTROL**

There are no existing bench marks in this quadrangle. Four miles of fly levels were run to furnish supplemental control for contouring.

6. **CONTOURS AND DRAINAGE**

Contouring was done on photographs of 1:20,000 scale by planetable. Heavy woods and swampy ground hindered contouring in many places. *See item 56* north.

The highest ground exists along the west side of the quadrangle. This ground, with the exception of a few sand ridges, is swampy. The water level recedes during the dry summer months.

Broad Creek and Spring Creek are the largest streams draining this area. Broad Creek flows southeast to the Neuse River and Spring Creek flows northeast to the Bay River.

Minor drainage was located by planetable and in some places delineated under the stereoscope.

7. **MEAN HIGH WATER LINE**

There is no perceptible periodic tide in the Neuse River. Perceptible changes in water level are caused by wind.

8. **LOW WATER LINE**

The mean low water line is coincident with the M.H.W.L. because of there being no periodic tide.

9. **WHARVES AND SHORELINE STRUCTURES**

Adequately covered by the photographs.
10. DETAILS OFF SHORE FROM THE N.H.- I.
   Adequately covered by the photographs.

11. LANDMARKS AND AIDS TO NAVIGATION
   All fixed aids to navigation were either identified on the
   photographs or located by cuts with a theodolite and reported on
   Form 567.

12. HYDROGRAPHIC CONTROL
   Existing horizontal control was supplemented with recoverable
   topographic stations at the desired interval.

13. LANDING FIELD AND AERONAUTICAL AIDS
   There are no landing fields or aeronautical aids in this
   quadrangle.

14. ROAD CLASSIFICATION
   All roads were classified in accordance with Photogrammetry
   Instructions No. 10, dated 14 April 1947.

15. BRIDGES
   There were no bridges in this quadrangle.

16. BUILDINGS AND STRUCTURES
   Adequately covered on the photographs.

17. BOUNDARY MONUMENTS AND LINES
   See Special Report on Boundaries for Project Ph-5(45)
   which was forwarded to the Washington Office on 20 October 1947 by
   A. J. Wright, Topographic Engineer.

18. GEOGRAPHIC NAMES
   See Special Report on Geographic Names for Project Ph-5(45)
   which was forwarded to the Washington Office on 13 October 1947.
by A. J. Waight, Topographic Engineer. Filed in Geographic Names Section.

Date:
Submitted:

Matthew A. Stewart
Engineering Aid
Matthew A. Stewart

Date:
Approved

Riley J. Cole
Chief of Party
<table>
<thead>
<tr>
<th>STATION</th>
<th>SOURCE OF INFORMATION</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>
<th>N.A. 1927 DAMU DISTANCE FROM GRID OR PROJECTION LINE IN METERS</th>
<th>FACTOR DISTANCE FROM GRID OR PROJECTION LINE IN METERS</th>
</tr>
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<tbody>
<tr>
<td>BROAD CR. EN.</td>
<td>G.Ps. P.479</td>
<td>35 05</td>
<td>28.522</td>
<td>878.9 (970.1)</td>
<td></td>
<td></td>
<td></td>
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<tr>
<td>1920</td>
<td></td>
<td>76 35</td>
<td>00.023</td>
<td>0.5 (1519.4)</td>
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<td></td>
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<tr>
<td>NEUSE RIVER</td>
<td>&quot;</td>
<td>35 05</td>
<td>20.009</td>
<td>616.6 (1232.4)</td>
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<td></td>
<td></td>
</tr>
<tr>
<td>EN. 1933</td>
<td>P. 448</td>
<td>76 32</td>
<td>56.165</td>
<td>1422.7 (97.2)</td>
<td></td>
<td></td>
<td></td>
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<tr>
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<td>&quot;</td>
<td>35 07</td>
<td>09.316</td>
<td>287.1 (1561.9)</td>
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<td></td>
<td></td>
</tr>
<tr>
<td>&quot;</td>
<td>P. 377</td>
<td>76 36</td>
<td>54.953</td>
<td>1391.5 (127.8)</td>
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<td></td>
<td></td>
</tr>
<tr>
<td>NEUSE RIVER</td>
<td>&quot;</td>
<td>35 05</td>
<td>20.009</td>
<td>Position superseded by 1933 location above</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>L H 1920</td>
<td>P.477-</td>
<td>76 32</td>
<td>56.163</td>
<td>1422.7 (-97.2)</td>
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<tr>
<td>PINERY PT. E.</td>
<td>P.630</td>
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<td>55.818</td>
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<td></td>
<td></td>
</tr>
<tr>
<td>2, 1948</td>
<td>476-16</td>
<td>76 34</td>
<td>09.227</td>
<td>233.7 (1286.1)</td>
<td></td>
<td></td>
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</table>

1 FT. = 0.048006 METER

COMPUTED BY: W.H. Shearouse DATE: April 2, 1947
CHECKED BY: H.M. Slavney DATE: July 3, 1947
26. AND 27. CONTROL AND RADIAL PLOT:

These are the subject of a special report (plot number 7) submitted by M.M. Slavney, Photogrammetric Engineer, on November 13, 1948.

28. DELINEATION:

Nine-lens photographs 15899 to 15901 inclusive 15919, 15920; 15965 to 15967 inclusive and 15992 were used in establishing detail points.

Photographs 15919, 15920 and 15966 were used for delineation.

The scale of the photographs was fair. They were clear enough for the areas encompassed.

Field inspection was adequate for delineation of the manuscript.

29. SUPPLEMENTAL DATA:

None used.

30. AND 31. MEAN HIGH-WATER, LOW-WATER AND SHOAL LINES:

These were delineated according to field inspector's notes and photo interpretation of the compiler.

32. DETAILS OFFSHORE FROM THE HIGH WATER LINE:

There are no offshore details that need investigation by the hydrographic party.

33. WHARVES AND SHORELINE STRUCTURES:

There are none within the limits of this quadrangle.

34. LANDMARKS AND AIDS TO NAVIGATION:

No landmarks were recovered or recommended for charting by the field party. Aids to navigation are reported on form number 567.
35. HYDROGRAPHIC CONTROL:

No hydrographic control required. Five (5) recoverable topographic stations were established which may be used by the hydrographic party.

36. LANDING FIELDS AND AERONAUTICAL AIDS:

None exist within the limits of this quadrangle.

37. GEOGRAPHIC NAMES:

The names on the geographic name sheet furnished by the Washington Office have been applied to the map manuscript.

38. BOUNDARIES:

Boundary lines have been shown on the map manuscript as indicated on the boundary maps submitted by A.J. Waight.

This quadrangle falls within Pamlico and Carteret counties. It is noted that the Field Inspection Report states that this quadrangle falls in Pamlico County which is in error.

44. COMPARISON WITH EXISTING TOPOGRAPHIC QUADRANGLES:

A comparison was made with planimetric maps numbers 5563 and 5564 dated April 1935. They are in good agreement except for a few minor discrepancies. See the Review Report.

45. COMPARISON WITH NAUTICAL CHARTS:

A comparison was made with Nautical Chart 1231 bearing a print date of October 5, 1946. The two are in good agreement. Note that Swan Island is now connected with the mainland by a narrow neck of land.

Respectfully submitted,

Richard A. Reece
Photo. Aid

Approved and Forwarded:

Ross A. Gilmore, 10/7/48
Chief of Party.
FIELD EDIT REPORT
Quadrangle T-8724
35° 00.0' / 76° 30.0' / 7.5'
Ph-5 (45)
Harry F. Gerber, Chief of Party

The field edit of this quadrangle was accomplished during the period from May 11 to May 22, 1950 by Mr. Cecil A. Nevin, Topographic Engineer. All work was performed in accordance with Field Edit Instructions, dated August 1945; Supplement I, dated February 1946; and Topographic Manual—Part II, dated June 1949.

51. METHODS

All features were checked by visual inspection augmented by handlevel elevations. No corrections were made on either the field edit sheet or the field photographs. Any corrections made on the photographs have been labeled on the field edit sheet.

A legend, describing the colored inks used, is shown on both the field edit sheet and the photographs.

The field edit information is shown on one (1) field edit sheet; one (1) discrepancy sheet; one (1) geographic names sheet; and one (1) nine-lens photograph (1:20,000 scale) number 18957.

52. ADEQUACY OF COMPILATION

The compilation appears very satisfactory.

53. MAP ACCURACY

The map accuracy appears very good. No acute horizontal displacement was found during the inspection; however, a few contours adjacent to marsh indentations were corrected to conform to the inshore marsh limits.

No vertical accuracy test was required.

54. RECOMMENDATIONS

No comment.
55. EXAMINATION OF THE PROOF COPY

The field edit sheet was examined by Mr. Lloyd Lupton, Whartonsville, N. C. who could recommend no further changes.

Three corrections and one addition to the geographic names sheet were made according to local usage, verified by numerous interviews, prompted the corrections. Changes and additions were resolved by the Geographic Names Section. See Form M 234 with this report.

56. REFERENCE TO ITEM 5. FIELD INSPECTION REPORT

All true swamp has been identified on the field edit sheet. In general, all terrain lying between the 2 and 4 foot contour, is flooded after heavy rains but drains off, and with the exception of bottom lands, is dry the greater part of the year.

Submitted,
22 May 1950

Cecil A. Navin
Topograph Engineer

Approved:

Harry H. Garber
Chief of Party
I recommend that the following objects which have been inspected from seaward to determine their value as landmarks be charted on (date) the charts indicated.

The positions given have been checked after listing by [Name].

Riley J. Sipe
Chief of Party.

<table>
<thead>
<tr>
<th>STATE</th>
<th>NORTH CAROLINA</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>CHARTING NAME</strong></td>
<td><strong>DESCRIPTION</strong></td>
</tr>
<tr>
<td>Turnagain Bay Daybeacon &quot;1&quot;</td>
<td>35 00 738</td>
</tr>
<tr>
<td>&quot; &quot; &quot; &quot; 2&quot;</td>
<td>35 00 370</td>
</tr>
<tr>
<td>Lower Broad Creek Light</td>
<td>35 05 878.9</td>
</tr>
<tr>
<td>Neuse River Daybeacon</td>
<td>35 05 616.5</td>
</tr>
</tbody>
</table>

This form shall be prepared in accordance with Hydrographic Manual, pages 800 to 804. Positions of charted landmarks and non-floating 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.
<table>
<thead>
<tr>
<th>Name on Survey</th>
<th>A</th>
<th>B</th>
<th>C</th>
<th>D</th>
<th>E</th>
<th>F</th>
<th>G</th>
<th>H</th>
<th>K</th>
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<tbody>
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<td>North Carolina</td>
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<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td>1</td>
</tr>
<tr>
<td>Carteret County ✓</td>
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<td>2</td>
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<tr>
<td>Merrimon Township</td>
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<td>Pamlico County ✓</td>
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<td>Pamlico Sound ✓</td>
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<td>USGB</td>
<td>4</td>
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<td>Neuse River ✓</td>
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<td>Turnagain Bay ✓</td>
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<td>6</td>
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<tr>
<td>Turnagain Bay Spit □</td>
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<tr>
<td>Gum Thicket Shoal ✓</td>
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<td>Gum Thicket ✓ (area)</td>
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<td>11</td>
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<td>Cedar Creek ✓</td>
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<td>19</td>
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<td>Burton Creek ✓ (Decis. B.G.N.)</td>
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<td>21</td>
</tr>
<tr>
<td>Dowdy Point ✓</td>
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Above names underlined in red are approved, subject to a final check by Field Edit. 1/5/49 L. Hack.

Checked and approved after F.E. 8-22-50.

A. J. W.
62. Comparison with Registered Topographic Surveys:

1073  1:20,000  1868
1074  1:20,000  1868
1094  1:20,000  1869
3822  1:20,000  1922
3823  1:20,000  1922
5563  1:10,000  1934
5564  1:10,000  1934
6404b  1:10,000  1935 (planetable graphic control)

The photo compilation of T-5563 shows a trail across the marsh and several abandoned tramways in the woods north of Swan Creek, and additional trails and a woods road (rd.7) at the head of Green Creek, and at Pitman Creek. They are not visible on the photographs.

T-5564 has numerous field ditches shown which are incidental to cultivation in the low areas peculiar to this locality. The complete network is not shown on T-8724, but the ditches that appear to be of a reasonable permanent nature have been indicated.

The above listed surveys are superseded by T-8724 for nautical charting purposes.

63. Comparison with Maps of Other Agencies: None

64. Comparison with Contemporary Hydrographic Surveys: None

65. Comparison with Nautical Charts:

1231  1:80,000  50 2/20
1233  1:80,000  50 7/17

No change pertinent to nautical charts has been made during review. (See item 45).

66. Adequacy of Results and Future Surveys. - No horizontal or vertical accuracy tests were made for this survey.

This survey fulfills the project instructions and Bureau Policy and complies with the National Standards of Accuracy.

It unqualifiedly supersedes all other surveys except for the features mentioned in 62 above and should be used for subsequent nautical chart compilation.
Reviewed by:

Roscoe J. French
Roscoe J. French

Approved by:

S. Griffith 2/19/54
Chief, Review Section
Division of Photogrammetry

Carl M. Almester
Chief, Nautical Chart Branch
Division of Charts

O. S. Reedy
Chief, Division of Photogrammetry

Carl D. Hluska
Chief, Div. Coastal Surveys
# Nautical Charts Branch

**Survey No. 7-8724**

**Record of Application to Charts**

<table>
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<th>Date</th>
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<td>538</td>
<td>Adert W. Bell</td>
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<td>1231</td>
<td>Eric Ruby</td>
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A basic hydrographic or topographic survey supersedes all information of like nature on the uncorrected chart. Give reasons for deviations, if any, from recommendations made under "Comparison with Charts" in the Review.