
U. S. COAST AND GEODETIC SURVEY
DEPARTMENT OF COMMERCE

DESCRIPTIVE REPORT

Type of Survey: TOPOGRAPHIC
Field No., Ph-45 (49); Office No.: T-9275

LOCALITY
State: NORTH CAROLINA
General locality: DARE COUNTY
Locality: BUFFALO CITY

1953

CHIEF OF PARTY
Harry F. Garber, Chief of Field Party
J. E. Waugh, Tampa Photogrammetric Office

LIBRARY & ARCHIVES
DATE: JUL 19, 1955
Project No. (II):  Ph-45(49)  Quadrangle Name (IV):

Field Office (II):  Edenton, N. C.  Chief of Party:  Harry F. Garber

Photogrammetric Office (III):  Tampa, Florida  Officer-in-Charge:  J. E. Waugh

Instructions dated (II) (III):  15 September 1949  
19 January 1950 (Supplement One)  
15 May 1951 (Supplement Two)

Method of Compilation (III):  Graphic  

Manuscript Scale (III):  1:20,000  
Stereoscopic Plotting Instrument Scale (III):  Inapplicable

Scale Factor (III):  None

Date received in Washington Office (IV):  JUL 2 2 1952  
Date reported to Nautical Chart Branch (IV):  JUL 2 8 1952

Applied to Chart No.  

Date:

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 (±) refer to mean high water
Elevations shown as (±) refer to sounding datum
i.e., mean low water or mean lower low water

Reference Station (III):  CYPRESS, 1914

Lat.:  35° 48' 44.181 (1361.7M)  Long.:  75° 59' 38.102 (959.1M)  

Adjusted

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.
Matthew A. Stewart
Cartographic Survey Aid

Areas contoured by various personnel
(Show name within area)
(H) (III)
DATA RECORD

Field Inspection by (II): H. R. Spies,
Cartographic Survey Aid
George E. Varnadoe,
Cartographic Engineer

Planetable contouring by (II): Matthew A. Stewart,
Cartographic Survey Aid

Completion Surveys by (II): James E. Hundley

Mean High Water Location (III) (State date and method of location):
Air Photo

Projection and Grids ruled by (IV): (W.O.) J. A.

Projection and Grids checked by (IV): (W.O.) H. D. W.

Control plotted by (III): I. I. Saperstein

Control checked by (III): R. J. Patte

Radial Plot stereoscopy

Geodascope by (III): M. M. Slavney

Stereoscopic Instrument compilation (III):

Planeimetry

Inapplicable

Contours

Manuscript delineated by (III): C. J. Downing

Photogrammetric Office Review by (III):

R. Dossett
J. A. Giles

Elevations on Manuscript
checked by (III): R. Dossett

Date: April, 1951
Date: June, 1951
Date: May, 1951
Date: March 1953
Date: 5 Dec. 1949
Date: 13 Nov. 1951
Date: 14 Nov. 1951
Date: 19 Sept. 1951
Date: 26 Sept. 1951
Date: 18 Oct. 1951
Date: 10 April 1952
Date: 23 April 1952
Date: 26 May 1952
Date: 23 April 1952
<table>
<thead>
<tr>
<th>Number</th>
<th>Date</th>
<th>Time</th>
<th>Scale</th>
<th>Stage of Tide</th>
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</thead>
<tbody>
<tr>
<td>1735-1736</td>
<td>Dec. 1949</td>
<td>12:17</td>
<td>1:20,000</td>
<td>No periodic tide</td>
</tr>
<tr>
<td>1737-1738</td>
<td></td>
<td>12:18</td>
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<td>1739</td>
<td></td>
<td>12:19</td>
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<td>1751</td>
<td></td>
<td>12:11</td>
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<tr>
<td>1752</td>
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<td>12:14</td>
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<tr>
<td>1753</td>
<td></td>
<td>12:16</td>
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<tr>
<td>1754</td>
<td></td>
<td>12:17</td>
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<td></td>
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<td>1779-1781</td>
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<td>13:17</td>
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<td></td>
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<tr>
<td>1782-1783</td>
<td></td>
<td>13:18</td>
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</table>

Tide (III)

Reference Station: Washington Office Review by (IV): *Everett H. Ramey*
Subordinate Station: Final Drafting by (IV): *Patricia C. Ladeh -*
Subordinate Station: Drafting verified for reproduction by (IV): *C. Allin*

Proof Edit by (IV): *Date: 11/12/54*

Land Area (Sq. Statute Miles) (III): 52
Shoreline (More than 200 meters to opposite shore) (III): 26. mi.
Shoreline (Less than 200 meters to opposite shore) (III): 8.7 mi.
Control Leveling - Miles (II): 7.0
Number of Triangulation Stations searched for (II): 7
   Recovered: 1
Number of BMs searched for (II): 3
Number of Recoverable Photo Stations established (III): 4
Number of Temporary Photo Hydro Stations established (III): 0
Number of Bench Marks established (II): 4
Remarks:

<table>
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<tr>
<th>Ratio of Ranges</th>
<th>Mean Range</th>
<th>Spring Range</th>
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<tr>
<td>Date: 11/12/54</td>
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<tr>
<td>Date: 10/27/54</td>
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<td></td>
</tr>
<tr>
<td>Date: 12-13-54</td>
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</tr>
</tbody>
</table>
NORTH CAROLINA, VICINITY OF ALBEMARLE SOUND

PH-45 (49)

TOPOGRAPHIC MAPPING PROJECT
Summary to Accompany Topographic Map T-9275

Map T-9275 is one of 18 topographic maps in project Ph-45(49). It covers some shoreline of the Alligator River and the land area to the eastward. It falls in Dare County, North Carolina.

Project Ph-45(49) is a graphic compilation project. Field work in advance of compilation included the establishment of additional horizontal and vertical control complete field inspection, contouring by planetable methods and the investigation of boundaries and geographic names.

Map T-9275 was compiled at a scale of 1:20,000 from single-lens photographs taken in 1949. The map was field edited. After the addition of hydrography the map will be forwarded to the Geological Survey for publication as a standard 7 1/2' topographic map.

Items registered under T-9275 will include a lithographic copy of the map manuscript at a scale of 1:20,000, a color copy of the published map at a scale of 1:24,000 and the Descriptive Report.
FIELD INSPECTION REPORT
Quadrangle T-9275
Project Ph-45(49)

Harry F. Garber, Chief of Party

The field work for this quadrangle was done in accordance with instructions as listed on page 1. In addition to the phases shown on pages 2 and 3, the work was accomplished by the following personnel:

<table>
<thead>
<tr>
<th>Name and Title</th>
<th>Phase</th>
<th>Date</th>
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</thead>
<tbody>
<tr>
<td>Richard L. McClintock</td>
<td>Vertical Control</td>
<td>Jan., 1950</td>
</tr>
<tr>
<td>Cartographic Survey Aid</td>
<td>Horizontal Control</td>
<td>May, 1951</td>
</tr>
<tr>
<td></td>
<td>Shoreline Inspection</td>
<td>May, 1951</td>
</tr>
<tr>
<td>Allen L. Powell</td>
<td>Horizontal Control</td>
<td>June, 1951</td>
</tr>
<tr>
<td>Lieut. (jg), USC&amp;GS</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Matthew A. Stewart</td>
<td>Vertical Control</td>
<td>May, 1951</td>
</tr>
<tr>
<td>Cartographic Survey Aid</td>
<td>(fly levels)</td>
<td></td>
</tr>
</tbody>
</table>

2. AREAL FIELD INSPECTION

Except for a few small open fields in the northwestern corner, the entire area is in its natural state (marsh, swamp, and woodland).

A short stretch of U.S. Highway No. 64 touches the northeastern part of the quadrangle. This, and a dirt road approximately 3 miles long, leading south from it, are the only roads. A sawmill site, known as Buffalo City, is situated near the end of the dirt road.

East Lake School* and two churches are within the quadrangle, but the Village of East Lake is west of the area.

* See 555

3. HORIZONTAL CONTROL

All known control stations were searched for and reported on Form 526.

Practically all of the stations have been lost or destroyed, therefore supplemental control was established, along Alligator River, in this and adjacent quadrangles. "Additional Horizontal Control, Ph-45", is the subject of a special report, dated 27 June 1951, a copy of which is a part of the Descriptive Report for quadrangle T-9274.

This control is less than third-order in accuracy.
The stations reported lost are:

BAY POINT 2, 1935
BAY POINT, PROMINENT PINE, 1914
GUS, 1935
MILLTAIL, 1935
MILLTAIL CREEK BEACON, 1914
STUMPY, 1914

Reference Mark No. 2 for STUMPY, 1914, was identified for use of the plot.

4. VERTICAL CONTROL

Control consists of four third-order bench marks, whose designations are E-248, C-248, D-248 and E-248, which are located along U. S. Highway No. 64, and points on a fly level line along the dirt road. All were established by this party.

The first and last designated level points are 75-1 and 75-14. The greatest error of closure was 0.25 foot and no adjustments were made.

5. CONTOURS AND DRAINAGE

In accordance with Bureau Letter No. 711 rs dated 4 October 1950, no attempt was made to establish elevations in the dismal swamps that are so inaccessible. It is recommended that this map be published as a quadrangle type map. Elevations along the roads that are slightly higher than the adjoining land, and elevations in the cultivated areas corroborated by photo interpretation and a visual inspection conclusively prove that none of the land is above five feet, and no five-foot contour exists. (A copy of Bureau letter 711 rs dated 4 October 1950 is attached to Field Inspection Report T-9274.)

Drainage is toward South Lake in the north and Milltail Creek and Alligator River in the south.

6. WOODLAND COVER

This is the subject of a special report covering four quadrangles: T-9275, T-9276, T-9281 and T-9282, submitted by the writer of this report, dated 22 June 1951. [File with descriptive report for T-9282.]

7. SHORELINE AND ALONGSHORE FEATURES

The shoreline is apparent. That part along Alligator River is foul for a considerable distance offshore with snags, stumps and trees in water. These foul areas have been indicated on the photographs.
The mean high-water line and the low-water line are synonymous. There are no bluffs, cliffs, docks, wharves, piers, landings, submarine cables or other salient shoreline features.

8. OFFSHORE FEATURES

Non-existent.

9. LANDMARKS AND AIDS

There are no landmarks for charts. The location of non-floating Aids to Navigation is covered by a special report "Special Report on the Location of Non-Floating Aids to Navigation, Alligator River, North Carolina", a copy of which is a part of the report for quadrangle T-9157.  

No aids on this map.

There is a steel fire tower, 130 feet high, near the East Lake School, but due to the surrounding tall pine trees, it is visible for only a short distance.

10. BOUNDARIES, MONUMENTS AND LINES

This is the subject of a special report submitted by Mr. Richard L. McClintchey, Cartographic Survey Aid, dated June, 1950.  

Filed in Div. of Photogrammetry under project data.

11. OTHER CONTROL

In accordance with Supplement Two to the Instructions, no other control was established, except as discussed under item 3.

12. OTHER INTERIOR FEATURES

Roads and buildings were classified in accordance with the Topographic Manual.

13. GEOGRAPHIC NAMES

This will be the subject of a special report for the project to be submitted at a later date. Report by Mark W. Smith and is filed in the Geographic Names Section, Div. of Charts.

14. SPECIAL REPORTS AND SUPPLEMENTAL DATA

See items 3, 6, 9, 10 and 13.

7 August 1951
Submitted by:  
George E. Varnadoe
Cartographic Engineer

8 August 1951
Approved by:  
Harry F. Sanborn
Commander, USC&GS
Chief of Party
Photogrammetric Plot Report

This report covers surveys T-9154 through T-9158, T-9273 through T-9276 and T-9279 through T-9283. It is filed as part of the Descriptive Report for T-9158.
<table>
<thead>
<tr>
<th>STATION</th>
<th>SOURCE OF INFORMATION (INDEX)</th>
<th>DATUM</th>
<th>LATITUDE OR y-COORDINATE</th>
<th>LONGITUDE OR x-COORDINATE</th>
<th>DISTANCE FROM GRID OR PROJECTION LINE IN METERS</th>
<th>DATUM CORRECTION</th>
<th>N.A. 1927-DATUM DISTANCE FROM GRID OR PROJECTION LINE IN METERS</th>
<th>FACTOR DISTANCE FROM GRID OR PROJECTION LINE IN METERS</th>
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<tr>
<td>CYPRESS, 191h</td>
<td>East Lake Quad</td>
<td>N.A. 1927</td>
<td>35</td>
<td>48</td>
<td>14.181</td>
<td></td>
<td>1,361.7 (1,487.5)</td>
<td>959.1 (547.2)</td>
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<td>STUMP RM 2, 191h</td>
<td>Comp</td>
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<td>35</td>
<td>45</td>
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<td>783.8 (1,065.1)</td>
<td>646.6 (860.8)</td>
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<td>GLAD, 1951</td>
<td>Photostat P.C.</td>
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<td>771.791.07</td>
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<td>1,791.67 (8,208.33)</td>
<td>Topo Sta.</td>
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<td>2,894.994.78</td>
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<td>4,994.78 (5,005.22)</td>
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<td>LUCK, 1951</td>
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<td>785.876.64</td>
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<td>5,876.64 (4,123.36)</td>
<td>Topo Sta.</td>
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<td>&quot;</td>
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<td>2,894.119.57</td>
<td></td>
<td>4,119.57 (5,850.14)</td>
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<tr>
<td>BURN, 1951</td>
<td>&quot;</td>
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<td>748.261.07</td>
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<td>8,261.07 (1,738.93)</td>
<td>Topo Sta.</td>
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<td>&quot;</td>
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<td>2,894.000.19</td>
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<td>4,000.19 (5,999.81)</td>
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</table>
PHOTOGRAMMETRIC PLOT REPORT.

Submitted with T-9158.

31. DELINEATION.

Compiled by graphic methods.

32. CONTROL.

Horizontal control was adequate. Identification, placement and density were satisfactory.

33. SUPPLEMENTAL DATA.

None used.

34. CONTOURS AND DRAINAGE.

Reference Item 5.

35. SHORELINE AND ALONGSHORE DETAILS.

The shoreline inspection was adequate.

36. OFFSHORE DETAILS.

No statement.

37. LANDMARKS AND AIDS.

Reference Item 9. None.
38. CONTROL FOR FUTURE SURVEYS.

Forms 524, are submitted for four (4) recoverable topographic stations. Those useful to the hydrographer are listed under Item 49. Stations BURN-1951, GLAD-1951 and LUCK-1951 were plotted from plane coordinates furnished by the Washington Office. Their geographic positions were scaled, not computed.

39. JUNCTIONS.

Junction was made with T-9157 on the north.
Junction was made with T-9176 on the east.
Junction was made with T-9281 on the south.
Junction was made with T-9274 on the west.

40. HORIZONTAL AND VERTICAL ACCURACY.

No statement. See 524

46. COMPARISON WITH EXISTING MAPS.

Comparison was made with USGS Planimetric Map T-5570, MILLTAIL CREEK, scale 1:20,000, edition of May 1935. Agreement was fair. See 524

47. COMPARISON WITH NAUTICAL CHARTS.

Comparison was made with Nautical Chart 1228, scale 1:80,000, dated May 1937, corrected to 31 August 1951, and Chart 831, scale 1:40,000, dated May 1937, corrected to 4 December 1950. Agreement was fair. See 524

ITEMS TO BE APPLIED TO NAUTICAL CHARTS IMMEDIATELY.

None.

ITEMS TO BE CARRIED FORWARD.

None.

APPROVED AND FORWARDED:

Chas. J. Downing, Carto. Photo. Aid

J. E. Waugh, Chief of Party
49. **NOTES FOR THE HYDROGRAPHER.**

Following is a list of recoverable topographic stations which may be useful to the hydrographer:

**BURN** - 1951

**GLAD** - 1951

**LUCK** - 1951

These stations are near the shoreline, on the east bank of the Alligator River, and are fronted by an area, approximately one hundred and fifty meters wide, which is foul with stumps and logs. This foul area extends the entire length of the quadrangle, (Register Number T-9275).
51. METHODS

The field edit of this area was accomplished by standard surveying methods in conjunction with visual inspection. The actual field work was completed in March, 1959.

Field edit data appears on the field edit sheet, discrepancy print, and in this report.

A legend, self-explanatory, appears on the field edit sheet.

52. ADEQUACY OF COMPILATION

The map compilation is adequate and will be complete after field edit revisions have been applied.

53. MAP ACCURACY

The horizontal accuracy of the map detail is relatively good. Refer to item 5 - Descriptive Report - relative to vertical accuracy.

54. RECOMMENDATIONS

None.

55. EXAMINATION OF PROOF COPY

It is believed that Mr. G. W. Tatem, registered surveyor, of Columbia, N. C. is best qualified to examine a proof copy of this work.

GEOGRAPHIC NAMES

Refer to item 48 - Compilation Report.

1. EAST LAKE SCHOOL has been abandoned. The building remains. Delete the name.

2. SANDY RIDGE should be added to the names list. See the field edit sheet for proper placement of name.

56. OTHER INTERIOR FEATURES

All features labeled "Dismantled R.R." have been deleted. These features are of a temporary nature only. After these tram lines
(dismantled railroads) have served the purpose of the lumber companies who build them, the rails are removed and the lines soon become covered with vegetation.

57. JUNCTIONS

Satisfactory junctions have been made with all adjacent contemporary quadrangles.

11 March 1953
Submitted by:

James E. Hundley
Cartographer

25 March 1953
Approved by:

Paul Taylor
Lt. Comdr., USCGS
Chief of Party
PHOTOGRAMMETRIC OFFICE REVIEW
T-9275


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


ALONGSHORE AREAS
(Nautical Chart Data)

PHYSICAL FEATURES

CULTURAL FEATURES

BOUNDARIES
31. Boundary lines  RD  32. Public land lines  XX

MISCELLANEOUS

Rudolph Langhorne, Reviewer
Jesse A. Giles

Milton M. Slavney, Supervisor, Review Section or Unit

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.

Remarks (see attached sheet)

Compiler
Supervisor

43. Remarks:
T-9275.

Geographic Names.

- North Carolina
- Dare County
- East Lake Township
- U.S. 64
- Alligator River
- Stumpy Point
- Cypress Point
- Milltail Creek
- Bay Point
- East Lake Church
- East Lake School
- Buffalo City
- Sawyer Lake
- Buzzard Roost
- Sandy Ridge Gut
- Raccoon Point
- Boat Bay
- Halfway Point
- Long Stretch
- Beach Land Landing
- Sandy Ridge

(locality, not a settlement)

Names underlined in red are approved. 9-9-52
History of Hydrographic Information

for T-9275

Hydrography was added to the map manuscript for T-9275 in accordance with the general specifications of 18 May 1949.

Depth curves and soundings are in feet at mean low water datum and originate with the following hydrographic surveys:

<table>
<thead>
<tr>
<th>H-5913</th>
<th>1:20,000</th>
<th>1935</th>
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<tbody>
<tr>
<td>H-5914</td>
<td>1:10,000</td>
<td>1935</td>
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Comparison was also made with Nautical Chart 831, 1:40,000, 1952, corrected to 52-1/14.

Hydrography was compiled by Everett H. Ramey on 1 March 1954 and verified by O. Svendsen.

Everett H. Ramey
### NAUTICAL CHARTS BRANCH

**SURVEY NO. 9275**

**Record of Application to Charts**

<table>
<thead>
<tr>
<th>DATE</th>
<th>CHART</th>
<th>CARTOGRAPHER</th>
<th>REMARKS</th>
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</thead>
<tbody>
<tr>
<td>6-20-62</td>
<td>831</td>
<td>Knoep</td>
<td>Complete Application before after verification and review</td>
</tr>
<tr>
<td>6-20-62</td>
<td>1238</td>
<td>Knoep</td>
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<td>Before after verification and review</td>
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</tbody>
</table>

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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.