U. S. COAST AND GEODETIC SURVEY
DEPARTMENT OF COMMERCE

DESCRIPTIVE REPORT

Type of Survey: TOPOGRAPHIC

Field No.: Project Ph-35(48)C
Office No.: T-9199

LOCALITY
State: TEXAS
General locality: BAFFIN BAY
Locality: LA PARRA RANCH

1955

CHIEF OF PARTY
George E. Morris, Jr., Chief of Party
Hubert A. Patton, Baltimore Photo. Office

LIBRARY & ARCHIVES

DATE: Apr. 5, 1955
DATA RECORD

T - 9199

Project No. (II): Ph-36(48)C  Quadrangle Name (IV): Sarita No 4, NW

Field Office (II): Brownsville, Texas  Chief of Party: George E. Morris, Jr.
Photogrammetric Office (III): Baltimore, Md.  Officer-in-Charge: Hubert A. Paton
Instructions dated (II) (III): 14 February 1949  Copy filed in Division of
8 June 1949  Photogrammetry (IV)
26 July 1949  Office Files
28 July 1949
24 Feb. 1950

Method of Compilation (III): Graphic

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

Scale Factor (III): None

Date received in Washington Office (IV): 1:29.50  Date reported to Nautical Chart Branch (IV): 1:19.50
Applied to Chart No. 1117  Date: Nov 1951  Date registered (IV): 10-9-52

Publication Scale (IV):

Geographic Datum (III): N. A. 1927  Publication date (IV):

Vertical Datum (III): MSL
Mean sea level except as follows:
Elevations shown as (29) refer to mean high water
Elevations shown as (2) refer to sounding datum
i.e., mean low water or mean lower low water

Reference Station (III): SARITA, 1913

Lat.: 27° 09' 20.521" (631.6m)  Long.: 97° 43' 57.442" (1581.6m)  Adjusted
Plane Coordinates (IV):
State: Texas  Zone: South

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

Field Inspection by (II):  L. F. Beugnet  
                        J. H. Clark  
                        Date: Oct to Dec 1949 
                        Dec 1949 to Mar 1950

Planetable contouring by (II):  L. F. Beugnet  
                              J. H. Clark  
                              Date: Oct to Dec 1949 
                              Dec 1949 to Mar 1950

Completion Surveys by (II):  W. H. Shearouse  
                            Date: 2-7-52

Mean High Water Location (III) (State date and method of location):  Field Inspection, August 1949

Projection and Grids ruled by (IV):  T.L.J.  
                                    Date: 4-16-50

Projection and Grids checked by (IV):  H.D.W.  
                                     Date: 4-25-50

Control plotted by (III):  F.J.Tarcza  
                          Date: 5-31-50

Control checked by (III):  M.F.Kirk  
                       Date: 5-31-50

Radial Plot:  

Stereoscopic Instrument compilation (III):  F.J.Tarcza  
                                         Planimetry  
                                         Stereoscopes

Manuscript delineated by (III):  B. Kurs  
                                G.S.Torbert  
                                Date: 10-5-50 
                                11-3-50

Photogrammetric Office Review by (III):  R. Glaser  
                                         Date: 11-20-50

Elevations on Manuscript checked by (II) (III):  R.Glaser  
                                               Date: 11-20-50
Camera (kind or source) (III): USC&GS single lens camera, focal length 6"

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Tide (III)

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<th>Spring Range</th>
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Reference Station: The mean range of tide in Baffin Bay is less than ½ foot

Subordinate Station:

Washington Office Review by (IV): G. B. Willey Date: 28 May 1952

Final Drafting by (IV): none

Drafting verified for reproduction by (IV): _

Proof Edit by (IV): _

Date: 7/10/52

Land Area (Sq. Statute Miles) (III): 65

Shoreline (More than 200 meters to opposite shore) (III): 1 mi

Shoreline (Less than 200 meters to opposite shore) (III): none

Control Leveling - Miles (II): 90.0

Number of Triangulation Stations searched for (II): 13 Recovered: 11 Identified: 10

Number of BMs searched for (II): * recovered: 15 Identified: 15

Number of Recoverable Photo Stations established (III): 2

Number of Temporary Photo Hydro Stations established (III): none

Remarks:

* Two of these BMs fall to the west of the project
Project Ph-36(48) consists of fifty-two quadrangles at 1:20,000, each 7.5 minutes in latitude and longitude, covering the Gulf Coast of Texas and the Intracoastal Waterway from Aransas Bay to Brenhamville and the Mexican Gulf. Adjoining the project to the north is a series of shoreline surveys in Part XV of Project Ph-14(46).

Information concerning Ph-36(48) in its broader aspect will be included in a project completion report to be compiled at the conclusion of the survey of all surveys in this project.

Twenty-six of the quadrangles in this project are topographic surveys and are to be published at 1:24,000 scale by the Geological Survey. The other twenty-six quadrangles are planimetric surveys. Of these, nineteen are to be used as bases by the Geological Survey for the compilation of 7.5 minute topographic quadrangles and will not be published as planimetric maps. The remaining surveys, T-9175, T-9176, T-9177, T-9181, T-9189, T-9201, and T-9209, will be published as planimetric maps.

Cloth-backed lithographic prints of the original map manuscripts at compilation scale and the descriptive reports for all maps in this project will be filed in the Bureau archives. Cloth-backed copies of the published topographic quadrangles at 1:20,000 scale will also be filed.

All special reports except Geog. Names Report will be filed in the Project Completion Report.
2. **AREAL FIELD INSPECTION**

This quadrangle lies a few miles due east of the town of Sarita, Texas, and at the extreme southwest corner of Baffin Bay. It includes a portion of the Kenedy Ranch, along with the main group of buildings on the ranch. The quality of the photography showed some room for improvement, particularly where cloud formations were in evidence. Variable photographic scale necessitated some movement of contour elevations. The area was thoroughly covered by the field inspector. Field inspection was done on contact prints 48-0-171ular and 48-0-1712; ratio prints 48-0-2125 to 48-0-2128 inclusive, and 48-0-2168 to 48-0-2170 inclusive.

3. **HORIZONTAL CONTROL**

Considerable supplemental control was established in and near the area. See "Special Report, Supplemental Control and Aids to Navigation, Baffin Bay to Arroyo Colorado, Project Ph-36(48)." One station, KENEDY RANCH OIL WELL DERRICK 1913, was located very close to the north limit of this quadrangle as a topographic station and was identified on photograph submitted with quadrangle T-9195( ). The derrick is gone, eliminating itself as a triangulation station, but the casing remains and was established as the topographic station. Another station, AIRWAY BEACON SITE NO. 9 1931, was lost due to relocation of the aid. One station recently established, HUMBLE OIL CO KENEDY LEASE WELL NO. 35 1950, was not identified on the photographs due to the proximity of other stations already identified. Identification of horizontal control was done on contact print 48-0-1711, and on the following ratio prints: 48-0-2125, 48-0-2169, 48-0-2171, 48-0-2172, 48-0-2177, 48-0-2178, 48-0-2181, and 48-0-2182.

4. **VERTICAL CONTROL**

The following fifteen USGS bench marks were recovered and used in contouring the quadrangle: W 636, X 636, Y 636, Z 636, A 637, B 637, C 637, D 637, E 637, F 637, G 637, H 637, J 637, K 637, and L 637. Numerous supplemental elevations were established by wye leveling, these points being numbered consecutively from 99-01 to 99-125 inclusive. Closures were fairly good. One line was rerun, and the largest remaining closure for the area being 0.53 ft. Errors of closure of 0.30 ft. or more were prorated along the lines and elevations were adjusted accordingly.

5. **CONTOURS AND DRAINAGE**

All contouring was done directly on the following seven ratio prints: 48-0-2125 to 48-0-2128 inclusive, 48-0-2168 to 48-0-2170 inclusive.

A vertical accuracy check was run on photograph 48-0-2168 to check the work of the topographer. Check elevations and corrections to contours are shown in violet ink.
For contouring, this is the most difficult area yet encountered by this topographer. The more open areas were contoured normally, simultaneously with the field work of securing spot elevations. The entire area was examined carefully with the stereoscope, both before and after field operations. A few hand level elevations were used in strategic locations. A few areas of shifting sand were not fully contoured, although numerous elevations were taken. Other areas of former shifting sand were being held in place by grass and trees, and after carefully checking the photographic position, were fully contoured. Not all elevations taken are shown on the photographs due to the lack of area for legibility. In fact, in such minutely rough terrain as this, it might be advantageous to have a larger working scale of photograph.

In the northeast part of the quadrangle it might be interesting to note a depression zero contour, and a depression five foot contour. This is an extremely low area, sealed off from Baffin Bay, in which evaporation action keeps the water level actually below sea level. There is no real drainage pattern in the area. Over much of the quadrangle there will be found innumerable small ridges, running from northwest to southeast.

This area shown as an intermittent Ford.

6. WOODLAND COVER

The major part of the area is covered with live oak trees. These show up fairly dark on the photographs, are to be noted in the higher areas, and along the top portion of the ridges. There is also a dense live-oak scrub, varying in height from knee-high on up to the height of the full fledged trees. These areas show on the photographs as somewhat lighter in tone than the trees. In the lower areas, and in the small valleys between the ridges, will be found the deciduous mesquite scrub, in varying density, and is characterized by a mottled gray appearance. Any smooth areas in the midst of the mesquite scrub are grass, and can be classified as "open". Representative areas have been classified in red ink, "T" for trees, "S" for scrub, and occasionally even open areas have been labeled for clarification.

7. SHORELINE AND ALONGSHORE FEATURES

The one mile of shoreline inspection in this quadrangle is shown on contact print 48-0-1714. The mean high water line is indicated and shows sharply on the photograph. The mean low water line and also the storm water line have not been indicated on the photograph since both are parallel and very close to the mean high water line. A fence extending out into the water of Baffin Bay has been indicated on the photograph.

8. OFFSHORE FEATURES

There are no offshore features worthy of note in this area.

9. LANDMARKS AND AIDS

There are no aids to navigation within the area. There is, however, one landmark worthy of note since it is visible from the entire western portion of
Baffin Bay. This is the Kenedy Ranch Water Tank, which has a position established in 1931. Form 567 is submitted for this tank.

10. BOUNDARIES, MONUMENTS, AND LINES

See "Special Report, Boundaries, Baffin Bay to the Rio Grande, Project Ph-36(48)."

11. OTHER CONTROL

Bench mark L 637 1942 has been identified on contact print 48-0-1714 for a topographic station.

12. OTHER INTERIOR FEATURES

All roads in the area have been classified according to Photogrammetry Instructions No. 10, dated 14 April 1947. All roads are private.

Buildings have been classified according to Photogrammetry Instructions No. 29, dated 1 October 1948. Both Class I and Class II buildings have been designated due to the relatively few buildings in the area. There is one very small area cleared as a private airplane landing strip, shown on ratio print 48-0-2169. However, this small strip has not been used by aircraft for some time. Due to the scarcity of other topographic features, fences in the quadrangle have been designated by the field inspector. For the same reason the survey lines indicated on the photographs should be shown. A road 8 symbol is suggested. These lines are shown on photographs 48-0-2125, 48-0-2126, 48-0-2127, and 48-0-2170.

All windmills and flowing wells in the area have been designated. Cabillo's Windmill and Well are abandoned at present, being dry. Erebia Windmill is still standing, but is disconnected from the flowing well. Otherwise, throughout the area the term "windmill" includes a well which requires pumping. All well and windmill names have been verified with Mr. Francis French, of the Kenedy Ranch Office, and are given on the photographs.

13. GEOGRAPHIC NAMES

See "Special Report, Geographic Names, Project Ph-36(48), Baffin Bay to Port Mansfield (Red Fish Landing)."
14. SPECIAL REPORTS AND SUPPLEMENTAL DATA


"Special Report, Boundaries, Project Ph-36(48), Baffin Bay to the Rio Grande," to be submitted at a later date.

"Special Report, Geographic Names, Project Ph-36(48), Baffin Bay to Port Mansfield (Red Fish Landing)," forwarded to Washington Office 6 December 1949.

Data, Quadrangle T-9199( ), letter of transmittal Ph-36 Field 60, forwarded to Baltimore Office 21 April 1950.

Submitted
14 April 1950

James H. Clark
Cartographic Survey Aid

Approved
21 April 1950

George E. Morris, Jr.
Chief of Party
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1 ft = 304.8008 meters

COMPUTED BY: H.R. Rudolph
DATE: 5-1-50

CHECKED BY: D.A. Maskell
DATE: 5-11-50

M-238612
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1 FT = 0.304808 METER

COMPUTED BY: H.R. Rudolph   DATE: 5-1-50
CHECked BY: D.A. Maskell    DATE: 5-11-50
COMPILATION REPORT

T-9129

The photogrammetric plot report covering the area of which this manuscript is a part, has been submitted with the descriptive report for Survey T-9200.

31. DELINEATION

This manuscript was compiled graphically.

Due to the density of contours and the coincidence of the tree lines with these contours, it was considered advisable to compile the tree lines on a separate sheet of acetate for clarity. Projection line intersections around the edge of the survey, photo centers, pass points, and detail points were transferred to the acetate sheeting for registration purposes before the woodland symbols were compiled.

32. CONTROL

The identification of KENEDY RANCH WINDMILL near WHITE TANK, 1950, does not agree with the geographic position for this station. (See radial plot report, item No. 23). See Field Edit Report

The density and placement of horizontal control was satisfactory.

33. SUPPLEMENTAL DATA

The following data was used to supplement the photographs during the compilation of this survey.

1. C of E Sarita quadrangle—used for geographic names and for comparison with existing maps.

2. General land office Kenedy County map—used for precinct boundary data.

34. CONTOURS AND DRAINAGE

The project instructions require no contours to be shown in areas of shifting sand dunes. Since several small areas of shifting sand dunes have been contoured however, the contours have been compiled and are subject to deletion by the Washington Office Review Section.

35. SHORELINE AND ALONGSHORE DETAILS

No comment.

36. OFFSHORE DETAILS

No comment
37. **LANDMARKS AND AIDS**

Form 567 for one landmark for charts is being forwarded with this report.

38. **CONTROL FOR FUTURE SURVEYS**

Forms 524 for two recoverable topographic stations are being forwarded with this report. These stations are listed in item No. 49.

39. **JUNCTIONS**

This survey joins T-9195 on the north and T-9200 on the east. The junctions are in agreement.

There are no contemporary surveys to the south and west.

40. **HORIZONTAL AND VERTICAL ACCURACY**

No comment.

41 through 45

Inapplicable.

46. **COMPARISON WITH EXISTING MAPS**

Comparison was made with the C. of E. Sarita quadrangle, scale 1:125,000, dated 1920-8-1928. Worthy of note is the difference in the location of the shoreline of Baffin Bay and Laguna Saluda directly south of the Kleberg-Kenedy County boundary.

47. **COMPARISON WITH NAUTICAL CHARTS**

The only charts covering this area are very small scale sailing charts which have no common detail with the manuscript for comparison.

Respectfully submitted
20 November 1950

Raymond Glaser
Cartographic Aid

Approved and forwarded
November 1950

Hubert A. Paton, Comdr., C&GS
Officer in Charge
48. GEOGRAPHIC NAME LIST

* Alto de la Cruz (Hill)
  Atravesada Artesian Well

  Baffin Bay
  Bordas Artesian Well

* Cabillos Windmill (abandoned)
  Commissioner Precinct 1
  Commissioner Precinct 2
  Cosas Well (* Cobas Windmill)

* Eberia Windmill and Well (Windmill)
  Kenedy County
  Labores Windmill Well
  La Parra Ranch
  La Parra School (name o.k. if it exists)

* Los Flores Artesian Well
* Mesquite Cattle Pens
  Miralejos, Well Artesian

* Padre Alejos Artesian Well
  Pete Artesian Well
  Riskin Well and Windmill (RISKEN)

*Tecolote Artesian Well
  Tomas Artesian Well (Windmill)

* Names from field inspection photographs

The following names are applied to the area of this survey on the geographic names standard, but could not be located on the manuscript:

  Mistle Well
  Motal Redonda Well
  Frieta Well

Names underlined in red are approved
5-28-57. L. Heck
5-27-52 A. L. H. L.
49. NOTES FOR THE HYDROGRAPHER

Forms 524 have been submitted for the following recoverable topographic stations:

KENEDY RANCH OIL WELL DERRICK, 1913
EM L 637, 1942
**DEPARTMENT OF COMMERCE**  
**U.S. COAST AND ATOMIC SURVEY**

**NONFLOATING AIDS OR LANDMARKS FOR CHARTS**

TO BE CHARTED  
STRIKE OUT ONE

Brownsville, Texas  
27 March 1950

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

The positions given have been checked after listing by James H. Clark

George E. Morris, Jr.  
Chief of Party

<table>
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<th>STATE</th>
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<tr>
<td>CHARTING NAME</td>
<td>DESCRIPTION</td>
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<tr>
<td>TANK</td>
<td>Kenedy Ranch Water Tank</td>
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<td>(70 ft. above ground.) (103 ft. above NHW)</td>
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<th>DATUM</th>
<th>METHOD OF LOCATION AND SURVEY</th>
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<td>97 41</td>
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CH Left 921 (50)

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
PHOTOGRAMMETRIC OFFICE REVIEW
T. 9157

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

CONTROL STATIONS
5. Horizontal control stations of third-order or higher accuracy  
6. Recoverable horizontal stations of less than third-order accuracy (topographic stations)  
7. Photo hydro stations  
8. Bench marks  
9. Plotting of contour lines  
10. Photogrammetric plot report  
11. Detail points  

ALONGSHORE AREAS
(Nautical Chart Data)
12. Shoreline  
13. Low water line  
14. Rocks, shoals, etc.  
15. Bridges  
16. Air navigation  
17. Landmarks  
18. Other alongshore physical features  
19. Other alongshore cultural features  

PHYSICAL FEATURES
20. Water features  
21. Natural ground cover  
22. Planetary contours  
23. Stereoscopic instrument contours  
24. Contours in general  
25. Spot elevations  
26. Other physical features  

CULTURAL FEATURES
27. Roads  
28. Buildings  
29. Railroads  
30. Other cultural features  

BOUNDARIES
31. Boundary lines  
32. Public land lines  

MISCELLANEOUS
33. Geographic names  
34. Junctions  
35. Legibility of the manuscript  
36. Discrepancy overlay  
37. Descriptive Report  
38. Field inspection photographs  
39. Forms  
40. Reviewer  
41. 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.

Compiler  

Supervisor  

43. Remarks:
51. **Methods.**—The Jeep was used to ride out all roads, trails and fence lines. The shoreline was walked over and a thorough investigation of the storm water line made. Limits of woodland cover, as delineated on the acetate overlay, were checked visually. These methods enabled the field editor to inspect all topographic and planimetric details and answer questions asked by the reviewer.

Violet ink was used for additions and corrections, and green for deletions.

Field edit information will be found on Field Edit Sheets No. 1 and 2, the Discrepancy Print and the following photographs: 48-0-2125, 2127 and 2128.

52. **Accuracy of compilation.**—The compilation of map details is adequate and will be complete after application of field edit information.

53. **Map accuracy.**—No horizontal accuracy test was specified, but from visual inspection and points tested by planimetric method, such as fence and road intersections used while locating new roads and testing contours, the accuracy appears good.

Field edit instructions on the Discrepancy Print called for "several short vertical accuracy tests". After it was discovered that a new road extended across the quadrangle from east to west near the center of the south half, it was decided to test the contours while locating the road. Fifty-two points were tested from the east side approximately two-thirds across the quadrangle by standard planimetric methods. The test began and ended vertically at fly-level points. Error of closure was 0.3 foot. No adjustment was made. It began horizontally at the centerline of fence and road and ended at the centerline intersection of a fence and road. Error of closure was negligible. The test proved the contours to be well within standard accuracy requirements. A few corrections have been made on the Field Edit Sheet.

54. **Recommendations.**—A glossy double weight matte print was furnished for field edit purposes. It is believed the glossy print was sent in error as it does not take ink well. The dull finish is more practical and is recommended.

55. **Examination of proof copy.**—It is recommended that the proof copy of the map be sent to Mr. Francis G. French, Sarita, Texas, for examination. He is Kenedy County Surveyor and a Kenedy Ranch employee. He has agreed to make the examination.

**Geographic names.**—A discrepancy in the spelling and location of a geographic name was noted. ERESIA WINDMILL should be EBERTA WINDMILL.
It is located at approximate latitude 27 degrees 14.9 minutes, longitude 97 degrees, 41.7 minutes and not at the location shown on the map manuscript.

The name of the windmill shown as KEBBA on the map manuscript at latitude 27 degrees, 13.8 minutes, longitude 97 degrees, 42.9 minutes should be TOMAS WINDMILL.

56. Horizontal control.—KENEDY RANCH WINDMILL NEAR WHITE TANK, 1950, is plotted at the wrong location. Mr. W. M. Reynolds, Cartographic Survey Aid, now on this field edit party, did the observing and says only two cuts were taken. As the error in its position is so great, it is recommended it be deleted from the geodetic records and the name and symbol removed from the map manuscript.

Respectfully submitted,
7 February 1952
William H. Shearouse,
Cartographer
62. **Comparison with Registered Topographic Surveys:**

- T-1624
  - 1:20,000
  - 1881

T-9195 supersedes this survey for nautical charting purposes.

For a discussion of the special treatment of shoreline interpretation and delineation by this survey as compared to the above survey, see item 66 below.

Minor shoreline erosion is in evidence from a comparison with this survey.

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

- Sarita, Tex. (U.S.E.)
  - 1:125,000
  - 1909 Revised 1928

No significant differences are to be noted.

64. **Comparison with Contemporary Hydrographic Surveys:**

None.

65. **Comparison with Nautical Charts:**

- Chart 1117
  - 1:460,732
  - 5 Edition (1941)
  - 52-1/17.

See Item 66 below for a discussion of the special treatment of shoreline interpretation and delineation in this area.

66. **Shoreline Interpretation and delineation:** Water stages in this area vary widely with meteorological conditions. The high-water line has been omitted where it is indefinite and is not marked by visible evidence on the ground. The broken line indicates the approximate inshore limits of areas subject to inundation. The dotted line represents the approximate low-water line. See Review Report 9192.

67. **Adequacy of Manuscript:** This topographic map complies with Bureau standards, project instructions and with National Map Accuracy standards.

Reviewed by:

[Signature]

Gordon B. Willey
Approved:

LeSaulx 27 Dec 1954
Chief, Review Section
Division of Photogrammetry

Chief, Div. of Photogrammetry

Chief, Nautical Chart Branch
Division of Charts

Chief, Div. of Coastal Surveys
NAUTICAL CHARTS BRANCH

SURVEY NO. 7\textsuperscript{9}1699

Record of Application to Charts

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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.