**Diag. Cht. No. 1205.**

Form 696

U. S. COAST AND GEODETIC SURVEY
DEPARTMENT OF COMMERCE

**DESCRIPTIVE REPORT**

<table>
<thead>
<tr>
<th>Type of Survey</th>
<th>Shoreline</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>T-11573 and</td>
</tr>
<tr>
<td>Field No.</td>
<td>Ph-114</td>
</tr>
<tr>
<td>Office No.</td>
<td>T-11574.</td>
</tr>
</tbody>
</table>

**LOCALITY**

<table>
<thead>
<tr>
<th>State</th>
<th>Maine</th>
</tr>
</thead>
<tbody>
<tr>
<td>General locality</td>
<td>Saco</td>
</tr>
<tr>
<td>Locality</td>
<td>Saco River</td>
</tr>
</tbody>
</table>

1954

CHIEF OF PARTY

E.H. Kirsch, Balto. Photo. Office

**LIBRARY & ARCHIVES**

DATE       June 10, 1958
DATA RECORD

T-11573 and T-11574

Project No. (II): Ph-114  Quadrangle Name (IV):

Field Office (II): York, Maine  Chief of Party: E. H. Kirsch

Instructions dated (II) (III):
20 Feb. 1953
13 Mar. 1953
29 Jan. 1954

Supplement 3  6 May 1953  Supplement 7  5 Aug. 1954
Supplement 6  3 June 1954  Supplement 8  1 Feb. 1955

Method of Compilation (III): Air Photographic (Kelsh Plotter)

Manuscript Scale (III): 1:5000  Stereoscopic Plotting Instrument Scale (III): 1:4000
Scale Factor (III): 1.000

Date received in Washington Office (IV): APR 11 1955  Date reported to Nautical Chart Branch (IV):

Applied to Chart No.  Date:  Date registered (IV): 5-8-58

Publication Scale (IV):  Publication date (IV):

Geographic Datum (III): NA 1927  Vertical Datum (III):
Mean sea level except as follows:
Elevations shown as (f) refer to mean high water
Elevations shown as (l) refer to sounding datum
i.e., mean low water or mean lower low water

Reference Station (III): FLETCHERS NECK 156, 1941

Lat.: 43° 26' 55.921"  Long.: 70° 20' 30.066"

Plane Coordinates (IV):

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

Inapplicable
DATA RECORD

Field Inspection by (II): George E. Varnadore
Photo. Engr.
Date: July 1954

Planetable contouring by (II): Inapplicable
Date:

Completion Surveys by (II):
Date:

Mean High Water Location (III) (State date and method of location):
Photogrammetric (Kelsh Plotter) 29 April 1954

Projection and Grids ruled by (IV): A. R.
Date: 10 Feb. 1955

Projection and Grids checked by (IV): H. D. Wolfe
Date: 11 Feb. 1955

Control plotted by (III): J. C. Richter
Date: 17 Feb. 1955

Control checked by (III): A. K. Heywood
Date: 17 Feb. 1955

Radial Plot or Stereoscopic Control extension by (III):
J. C. Richter
Date: 17 Feb. 1955

Stereoscopic Instrument compilation (III):

Planimetry J. C. Richter
Date: 21 Feb. 1955

Contours

Manuscript delineated by (III):

J. C. Richter
Date: 18 Mar. 1955

Photogrammetric Office Review by (III): A. K. Heywood
Date: 1 April 1955

Elevations on Manuscript
checked by (II) (III):
Date:
### PHOTOGRAFPHS (III)

<table>
<thead>
<tr>
<th>Number</th>
<th>Date</th>
<th>Time (EST)</th>
<th>Scale</th>
<th>Stage of Tide</th>
</tr>
</thead>
<tbody>
<tr>
<td>54-4-1350</td>
<td>4/29/54</td>
<td>15:18</td>
<td>1:20,000</td>
<td>1.9' above MLW</td>
</tr>
<tr>
<td>1351</td>
<td>n</td>
<td>15:18</td>
<td>n</td>
<td>n</td>
</tr>
<tr>
<td>1352</td>
<td>n</td>
<td>15:19</td>
<td>n</td>
<td>n</td>
</tr>
<tr>
<td>1353</td>
<td>n</td>
<td>15:19</td>
<td>n</td>
<td>n</td>
</tr>
<tr>
<td>1354</td>
<td>n</td>
<td>15:20</td>
<td>n</td>
<td>n</td>
</tr>
</tbody>
</table>

### Tide (III)

(From Predicted tables)

<table>
<thead>
<tr>
<th>Ratio of Ranges</th>
<th>Mean Range</th>
<th>Spring Range</th>
</tr>
</thead>
<tbody>
<tr>
<td>8.9</td>
<td>10.2</td>
<td></td>
</tr>
<tr>
<td>1.0</td>
<td>8.7</td>
<td>9.9</td>
</tr>
</tbody>
</table>

Reference Station: Portland, Maine
Subordinate Station: Wood I. Harbor

Washington Office Review by (IV): [Signature]

Final Drafting by (IV): [Signature]

Drafting verified for reproduction by (IV): [Signature]

Proof Edit by (IV): [Signature]

Land Area (Sq. Statute Miles) (III): 16
Shoreline (More than 200 meters to opposite shore) (III): 16
Shoreline (Less than 200 meters to opposite shore) (III): 16
Control Leveling - Miles (II): [Details]
Number of Triangulation Stations searched for (II): 10
Recovered: 8
Identified: 8
Number of BMs searched for (II): [Details]
Recovered: [Details]
Identified: [Details]
Number of Recoverable Photo Stations established (III): [Details]
Number of Temporary Photo Hydro Stations established (III): 32

Remarks: [Details]
Summary to Accompany T-11573, T-11574

Field instructions were issued for Ph-11$\frac{1}{4}$ to provide shoreline and control for inshore hydrographic surveys and to provide standard shoreline manuscripts for chart compilation.

The hydrographic phase of survey was accomplished under instructions for CS-355, 6 March 1953, 29 January 1954, and 16 February 1955, Gloucester Harbor, Mass. to Biddeford, Saco River, Maine.

A cloth-backed lithographic print of each map at manuscript scale and the descriptive report will be registered and permanently filed in the Bureau Archives.
Field Inspection Report
Project Ph-114
Sheet MABEN T-11573 & 11574

2. Areal field inspection.

Near its northern limit this shoreline survey includes a part of the towns of Biddeford and Saco, Maine. The shoreline here is highly developed with dams, factories and plants. Southeast and down the river the shoreline consists of tree covered bluffs interspersed with mud flats which continue to the mouth of the river where sand beaches are found.

The Photography is excellent. It is believed that the field inspection is complete and adequate.

3. Horizontal control.

Three U S C & G S intersection stations (natural objects) near the northern limit of the sheet and five U S G S temporary stations (road intersections) along the southwest shore of the river, were identified on the photographs.

The temporary stations are listed as Transit Traverse stations and the order of accuracy is not shown.

One U S C & G S intersection station "Johnsons House, East Chimney, 1868" was reported destroyed in 1943 and was not identified.

4. Vertical Control.
Inapplicable

5. Contours and Drainage.
Inapplicable

6. Woodland cover.

Representative areas have been classified.

7. Shoreline and alongshore features.

The photographs were made at near mean low water therefore all these features are discernible on the photographs and have been labeled.
The shoreline was inspected at mean high water and at mean low water. Where these lines are not obvious on the photographs, as along the sand beaches, measurements were made to them from topographic features. Both lines were delineated in their entirety along questionable areas.

The foreshore, bluffs, piers etc. have been classified and labeled.

One submarine cable exists near the northern limit of the sheet. The ends have been identified and labeled.

8. Offshore features.

A tide curve was constructed from predicted tides and the low water line and offshore features were inspected at or very near mean low water, therefore the accuracy with which these were located is very good.

9. Landmarks and aids.

One fixed aid to navigation exists. It was identified directly on the photographs and reported on form 567.

10. Boundaries, monuments and lines.

Inapplicable

11. Other control.

One topographic station established in 1943 was recovered and identified on the photographs.

Thirty two photo-hydro stations were established, all of which are semi-permanent in nature.

12. Other interior features.

Roads, buildings and other cultural features within the limits of the survey have been classified.

The ends of an overhead power line which is located near the northern limit of the sheet have been located and identified. The vertical clearance of which was furnished by the Central Maine Power Co.
All bridges are beyond the limits of navigation.

13 Geographic Names.

No discrepancies were noted during this inspection.

14. Special reports and supplemental data.

None

Submitted by,

George E. Varnadore
George E. Varnadore
Photo. Engr.
29 July 1954
21. AREA COVERED

T-11573, T-11574 and T-11575.

22. METHOD

Models were set and compiled without benefit of the usual photo plot or bridge. The Kelsh Plotter was used holding to the horizontal control points in each model. Pass points common to adjoining models were dropped and also held when these models were set. Only the 1954 photography, 54-W-1350 thru 1356, was used. Models 1350-51 and 1353-54, having the most control, were set before those adjoining. Photographs 53-J-345 thru 352 were those used in the radial plot for the previous compilation of T-1159.

Work sheets of a scale of 1:4,000 were used for the Kelsh compilation. These were reduced on film positive to a scale of 1:5,000 for transfer to the map manuscripts.

This office had planned at first to run a bridge or plot for this strip but since the Washington office felt that there was sufficient control, they advised compiling each model as it was set. This appears to have worked out well. Pass points between models could be held to well within 0.5 mm.

23. ADEQUACY OF CONTROL

Horizontal control requirements to the field are not available. Nevertheless, horizontal control was adequate.

TEMP. STA. NO. 2370+ (USGS), 1940 and TEMP. STA. 2365+ (USGS), 1940 (not held) were off 0.8 mm. and 2.0 mm., respectively, east of their plotted geographic positions. It was not possible to hold either of these points and tie with the adjoining models.

In addition to identified control, these stations were identified in the office from published descriptions. Two of these appeared to hold and one did not. The plotted geographic position of BIDDEFORD ORTHODOX CH. SPIRE, 1850 was held on the front gable of the church, but not where the present spire appears to be. Refer to sketch of control, attached.

24. SUPPLEMENTAL DATA

None.
25. **PHOTOGRAPHY**

Photography and dispositions were of excellent quality. Coverage for the east tip of Wood I. and Fletcher Neck was monoscopic, otherwise coverage and overlap were adequate.

Respectfully submitted
25 March 1955

Henry P. Eichert
Super. Carto.
<table>
<thead>
<tr>
<th>STATION</th>
<th>SOURCE OF INFORMATION</th>
<th>LATITUDE OR $y$-COORDINATE</th>
<th>DISTANCE FROM GRID IN FEET. 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>
</tr>
</thead>
<tbody>
<tr>
<td>BIDDEFORD ST. JOSEPH</td>
<td>G.P. p-398</td>
<td>43 29 37.383</td>
<td>1153.7 (698.0)</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>CATH. CH. SPIRE, 1941</td>
<td></td>
<td>70 27 40.756</td>
<td>915.7 (432.4)</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>BIDDEFORD PEPPERELL</td>
<td>n</td>
<td>43 29 35.978</td>
<td>1110.3 (741.4)</td>
<td></td>
<td></td>
<td></td>
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<tr>
<td>CATH. ST. ORTHODOX</td>
<td></td>
<td>70 27 02.514</td>
<td>56.5 (1291.7)</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>CH. SPIRE, 1850</td>
<td>p. 66</td>
<td>43 30 02.351</td>
<td>72.6 (1779.1)</td>
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<tr>
<td>TEMP. STA. NO. 2360*(USGS)</td>
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<td>43 28 47.09</td>
<td>1453.2 (398.5)</td>
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<tr>
<td>TEMP. STA. NO. 2365*(USGS)</td>
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<td>70 25 28.39</td>
<td>638.0 (710.4)</td>
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<tr>
<td>TEMP. STA. NO. 2370*(USGS)</td>
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<td>43 29 59.87</td>
<td>1817.6 (4.1)</td>
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<tr>
<td>TEMP. STA. NO. 2370*(USGS)</td>
<td>n</td>
<td>70 26 03.74</td>
<td>84.1 (1264.4)</td>
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<td></td>
<td></td>
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<tr>
<td>BIDDEFORD BAPTIST</td>
<td>USGS BIDDEFORD</td>
<td>43 29 13.05</td>
<td>1022.7 (1149.0)</td>
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<td></td>
<td></td>
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<tr>
<td>CH. SP., 1868</td>
<td>G.P. p-91</td>
<td>70 26 33.25</td>
<td>747.2 (601.1)</td>
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<tr>
<td>BIDDEFORD CONG. CH. SP.</td>
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<td>43 29 33.51</td>
<td>1034.2 (817.5)</td>
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<tr>
<td>1868</td>
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<td>70 27 30.54</td>
<td>686.2 (661.9)</td>
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<tr>
<td>BIDDEFORD ORTHODOX CH.</td>
<td>p. 348</td>
<td>43 29 31.19</td>
<td>962.6 (889.1)</td>
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<td></td>
<td></td>
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<tr>
<td>SPIRE, 1890</td>
<td></td>
<td>70 27 32.55</td>
<td>731.4 (616.8)</td>
<td></td>
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<tr>
<td>STATION</td>
<td>SOURCE OF INFORMATION (INDEX)</td>
<td>DATUM</td>
<td>LATITUDE OR Y-COORDINATE</td>
<td>LONGITUDE OR X-COORDINATE</td>
<td>DISTANCE FROM GRID IN FEET. OR PROJECTION LINE IN METERS</td>
<td>N.A. 1927 - DATUM DISTANCE FROM GRID OR PROJECTION LINE IN METERS</td>
</tr>
<tr>
<td>---------</td>
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<td>-------</td>
<td>--------------------------</td>
<td>---------------------------</td>
<td>---------------------------------------------------------</td>
<td>--------------------------------------------------------</td>
</tr>
<tr>
<td>FER, 1943</td>
<td>Form 524</td>
<td>N.A. 1927</td>
<td>43</td>
<td>29</td>
<td>130.0</td>
<td>(1721.7)</td>
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<td>TEMP. STA. NO. 2337+(USGS), 1940</td>
<td>USGS BIUDE-HORD</td>
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<tr>
<td>TEMP. STA. NO. 2334+(USGS), 1940</td>
<td>USGS BIUDE-HORD</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

1 ft. = 0.3048000 meter

COMPUTED BY: H. P. Eichert DATE: 20 January 1955
CHECKED BY: J. C. Richter DATE: 1 February 1955
31. **DELINEATION**

All detail including shoreline was delineated by the Kelsh instrument. Delineating shoreline directly from the Kelsh model proved successful except in areas of poor contrast i.e., areas with no well defined line to follow such as mud in front of and back of the MHWL, apparent shoreline etc. The model scale was 1:4000 which aided in the operator's ability to see small differences in contrast. At a much smaller scale it is doubtful that this would be apparent.

32. **CONTROL**

Refer to Photogrammetric Plot Report, paragraph No. 23.

33. **SUPPLEMENTAL DATA**

None.

34. **CONTOURS AND DRAINAGE**

Contours are inapplicable and drainage is complete.

35. **SHORELINE AND ALONGSHORE DETAILS**

Shoreline inspection was complete and well done.

A low water line was furnished by the field inspector.

36. **OFFSHORE DETAILS**

Data complete.

37. **LANDMARKS AND AIDS**

Data complete.
38. **CONTROL FOR FUTURE SURVEYS**

No topographic stations were established during this survey.

A list of recoverable photo-hydro stations complete with descriptions has been prepared and included in paragraph No. 49.

39. **JUNCTIONS**

Junction was made to the east with Survey T-11575. There were no other contemporary surveys.

40. **HORIZONTAL AND VERTICAL ACCURACY**

Refer to Photogrammetric Plot Report, item No. 23.

46. **COMPARISON WITH EXISTING MAPS**

USGS quadrangle Biddeford, Me., scale 1:62,500, published 1941.

47. **COMPARISON WITH NAUTICAL CHARTS**


Items to be applied to Nautical Charts immediately: None.

Items to be carried forward: None.

---

Approved and forwarded

E. H. Kirson, COMDR USCG
Officer in Charge
Balto. Photo. Office

Respectfully submitted

5 April 1955

A. K. Heywood
Carto. (Photo.)
PHOTOGRAMMETRIC OFFICE REVIEW
T- 1153-74

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 sextant fixes  
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. Aids to 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  

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.

Compiler  
Supervisor  

43. Remarks:
62. **Comparison with Registered Surveys**

<table>
<thead>
<tr>
<th>T-1188</th>
<th>1:10,000</th>
<th>1870 Mouth of Saco River and Biddeford Pool</th>
</tr>
</thead>
<tbody>
<tr>
<td>T-1188a</td>
<td></td>
<td>1912-13 Biddeford Pool</td>
</tr>
<tr>
<td>T-1225</td>
<td></td>
<td>1871 Towns of Biddeford</td>
</tr>
<tr>
<td>T-1225a</td>
<td></td>
<td>1912 and Saco</td>
</tr>
</tbody>
</table>

Because of extensive cultural changes T-11573-74 supersedes the older surveys for charting purposes.

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

USE Biddeford 1:25,000 1949

The present surveys supersedes the quadrangle for charting shoreline and near-shore features.

64. **Comparison with Contemporary Hydrographic Surveys**

Hydrography up the Saco River to Biddeford was accomplished in 1955 but no prints or boat sheets were available for comparison. The surveys are being processed at the Norfolk Office H5257, 1:5,000 H5158 1:5,000 have been reviewed and compared. No important differences exist.

Some shoreline changes were made during review from field inspection photograph information.

65. **Comparison with Nautical Charts**


No marked difference in shoreline exists between the chart and the survey. These surveys have not been applied to charts.

66. **Accuracy**

These maps comply with project instructions and meet the National Standards of Accuracy.

Reviewed by:

[Signature]

for Lena T. Stevens

APPROVED BY:

[Signature]  
L. E. Laude  
Chief, Review & Drafting Sec.  
Photogrammetry Division

[Signature]  
F. E. Bulle  
Chief, Photogrammetry Division

[Signature]  
May Stuckett  
Chief, Nautical Chart Branch  
Charts Division

[Signature]  
J. F. Bowie  
Chief, Coastal Surveys
48. **GEOGRAPHIC NAMES**

**T-11573**

Biddeford  
Boston & Maine RR

Cow Island

Factory Island

Gordon Point

Maine 9 & 208  
Mouse Island

Saco  
Saco River

U.S. 1

**T-11574**

Bayview

Camp Ellis  
Chandler Point  
Chase Point

Ferry Beach

Maine 9  
Maine 9 & 208

Saco Bay  
Saco River  
St Francis College  
Stella Maris School

Windmill Point
NOTES FOR THE HYDROGRAPHER

Recoverable topographic station:

FER, 1943  \( \tau \int \xi \eta \) 

Photo-hydro stations:

27-01 Weather vane top of large tank.
02 Water gab white bldg
03 Corner of blkhd
04 Transmission tower (skeleton steel)
05 Highest rock, end of breakwater (awash MHW)
06 S. gab barn (attached to house)
07 Water gab yellow barn
08 Largest Chy on hospital
\( \tau \int \xi \eta \) 09 Crib work of logs (about 6 ft square)
10 End small pier
11 Lone white boulder (covered MHW)
12 Chimney on hospital
13 Large chimney 2 story white house
14 Chimney center small house
15 N W Gab bldg, tin roof
16 N E Cor bldg
17 Water gab white cottage, green roof
18 Water gab brown shingle cottage, red roof
19 S. gab black roof shed
20 End small dark gray pier
21 Water gab barn
22 Flagpole on end small pier
23 Steeple atop barn
24 Peak of blue roof, 2 story white house
25 Chimney at peak of roof, 2 story white house, tin roof
26 Large gray chimney atop college
27 T of pipe at S W corner cement platform
28 Center 6 x 6 ft house on piles
29 S E corner abandoned pier
30 Water gab small yellow bldg, green trim.
31 E gable easternmost house, white, red roof
32 N. gab of northernmost cottage
I recommend that the following objects which **have not** 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 A. E. Heywood.

<table>
<thead>
<tr>
<th>STATE</th>
<th>MAINE</th>
</tr>
</thead>
<tbody>
<tr>
<td>CHARTING NAME</td>
<td>DESCRIPTION</td>
</tr>
<tr>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Cow Island Ledge Daybeacon,</td>
</tr>
</tbody>
</table>

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
### Nautical Charts Branch

**Survey No. T-11573 & T-11574**

**Record of Application to Charts**

<table>
<thead>
<tr>
<th>Date</th>
<th>Chart</th>
<th>Cartographer</th>
<th>Remarks</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td></td>
<td></td>
<td>Before After Verification and Review</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.