U. S. COAST AND GEODETIC SURVEY  
DEPARTMENT OF COMMERCE

DESCRIPTIVE REPORT

<table>
<thead>
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<th>Type of Survey</th>
<th>TOPOGRAPHIC</th>
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<tr>
<td>Field No.</td>
<td>T-8807</td>
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LOCALITY

<table>
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<tr>
<td>General locality</td>
<td>MONROE COUNTY</td>
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<tr>
<td>Locality</td>
<td>KEY LARGO</td>
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</table>

"GARDEN COVE NE"

1947

CHIEF OF PARTY


LIBRARY & ARCHIVES

DATE       June 7, 1948
RECORD SHEET

GENERAL LOCALITY. Florida SE Coast
LOCALITY. Key Largo

PHOTOS ORDERED. REC'D 9 Jan. 1947
PROJECTION ORDERED. REC'D 16 Dec. 1946

CONTROL:
COMPUTED R. J. Pate VERIFIED R. Dossett
PLOTTED R. J. Pate VERIFIED R. Dossett and M. M. Slavney

PHOTO PREPARATION:
CONTROL R. J. Pate
AZIMUTHS R. J. Pate and M. M. Slavney
PASS POINTS M. M. Slavney
TEMPLETS R. J. Pate VERIFIED M. M. Slavney

RADIAL PLOT:
PLOTTED BY M. M. Slavney DATE 14 May 1947
VERIFIED M. M. Slavney DATE 22 May 1947

COMPILATION:
DETAIL POINTS R. R. Wagner DATE 23 May 1947
DETAIL BY R. R. Wagner DATE May-July 1947
VERIFIED BY J. A. Giles DATE July 1947

COMPARISON WITH PREVIOUS SURVEYS; TOPO., HYDRO., AND CHARTS:
No topographic quadrangle available for comparison. Comparison was made
with Nautical Charts No. 349 and No. 1249 dated 27 October 1945 and 26 January
1946 respectively. No discrepancies were noted in the shoreline.

REMARKS

FORWARDED TO ........................................ DATE  

M-2305:12
DATA RECORD

T- 3807

Quadrangle (II): Garden Cove, N.E. Florida  Project No. (II): Ph-10(46)


Instructions dated (II III): 21 Oct. 1946  Copy filed in Descriptive Office Files

Report No. T- (VI)

Completed survey received in office: 1-26-48

Reported to Nautical Chart Section:

Reviewed: 5-4-48  Applied to chart No. 1249  Date: 10-17-47

Redrafting Completed:

Registered: 5-4-48  Published:

Compilation Scale: 1:20,000  Published Scale:

Scale Factor (III): None

Geographic Datum (III): N.A. 1927  Datum Plane (III): M.S.L.

Reference Station (III): Baker, 1934

Lat.: 25° 10' 55.560" (1709.6m)  Long.: 80° 21' 13.440" (376.3m)  Adjusted

State Plane Coordinates (VI): Florida, East Zone

X = 713,721  Y = 708,936

Military Grid Zone (VI)
PHOTOGRAPHS (III)

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<th>Scale</th>
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<td>16313</td>
<td>27 April '46</td>
<td>0845 EST</td>
<td>1:20,000</td>
<td>0.6 Outside; Q3 Largo Sound</td>
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<td>&quot;</td>
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Tide from (III): Mayport, Florida

Mean Range: 2.2  Spring Range: 2.6

Camera: (kind or source) U.S.C. & G.S. 9-Lens 8 1/2" focal length

Field Inspection by: J.D. Weiler; E.H. Taylor  date: May 1947

L.V. Evans, III

Field Edit by: J. D. Weiler  date: Nov. 1947

Date of Mean High-Water Line Location (III): April 1947

Projection and Grids ruled by (III) Washington Office  date: 11 Dec. 1946

" " " checked by: Washington Office  date: 11 Dec. 1946

Control plotted by: R.J. Pate  date: 6 Feb. 1947

Control checked by: R. Dossett  date: 7 February, 1947

Radial Plot by: M.M. Slavney  date: 23 May, 1947

Detailed by: Robert R. Wagner  date: July 1947

Reviewed in compilation office by: J.A. Giles  date: July 1947

Elevations on Map Manuscript  date: July 1947

checked by: J.A. Giles
Land Area (Sq. Statute Miles): 5.5

Shoreline (More than 200 meters to opposite shore): 16.7 Statute Miles

Shoreline (Less than 200 meters to opposite shore): 9.8 Statute miles

Number of Recoverable Topographic Stations established: 12

Number of Temporary Hydrographic Stations located by radial plot: None

Leveling (to control contours) - miles: 6.5 Statute miles

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:
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<th>STATION</th>
<th>SOURCE OF INFORMATION (INDEX)</th>
<th>DATE</th>
<th>LATITUDE OR y-COORDINATE</th>
<th>LONGITUDE OR x-COORDINATE</th>
<th>DISTANCE FROM GRID IN FEET. OR PROJECTION LINE IN METERS BACKWARD</th>
<th>DATUM CORRECTION FORWARD</th>
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<td>05.180</td>
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<td>365</td>
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<td>28.597</td>
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<td>TOM'S SHIP 1934</td>
<td>379</td>
<td></td>
<td>25° 12'</td>
<td>23.983</td>
<td></td>
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<td>738.0 (1108.2)</td>
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1 FT = 304.8000 METER

COMPUTED BY: R.J. Pate
DATE: 21 Jan. 1947

CHECKED BY: R. Dossett
DATE: 31 January 1947
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<th>STATION</th>
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<td>80 12 84.927</td>
<td>532.5 (1313.7)</td>
<td>1173.6 (505.9)</td>
<td>Outside limits of quadrangle.</td>
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<td>L.H. 1893</td>
<td>AP 203</td>
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<td>K NOWLSON</td>
<td>1935</td>
<td>25 12 03.092</td>
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<td>210.3 (1635.9)</td>
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<td>378</td>
<td>25 09 10.499</td>
<td>80 21 30.582</td>
<td>323.1 (1523.1)</td>
<td>856.5 (824.0)</td>
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<td>* wreck 1934</td>
<td>378</td>
<td>25 08 49.549</td>
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<td>810.2 (840.2)</td>
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* Stations reported lost or destroyed and do not appear on map manuscript.

COMPUTED BY: R.J. Pate
DATE: 21 Jan. 1947
CHECKED BY: R. Dossett
DATE: 31 Jan. 1947
FIELD INSPECTION REPORT

TO ACCOMPANY
QUADRANGLE T^3S07
"GARDEN COVE X"
PROJECT Ph-10(46)
19 May 1947

1. DESCRIPTION OF THE AREA

This standard, 7½-minute quadrangle (N2507.5-W8015/7.5) lies in the northern part of Monroe County, Florida, near the middle of Key Largo, the largest of the Florida Keys. There are about 5½ square statute miles of land area, principally on Key Largo and the north end of Julia Island; the rest of the quadrangle falls in Barnes Sound and the Atlantic Ocean.

Key Largo is accessible from the Florida mainland via U.S. Hwy. 1, although that highway does not pass through this quadrangle. However, there is a surfaced road running the length of Key Largo, linking the northern part of the island with U.S. Hwy. 1.

There are several lime groves on Key Largo; no other cultivation appears within the quadrangle.

There are no communities nor population centers in this area.

Charter boats and other facilities for sport fishing are available at Garden Cove and at the fishing lodge just north of Garden Cove.

The shoreline in general is mangrove covered marl or mangrove growing in the water. The fast land on the shoreline is mainly coral with an occasional stretch of sand.

2. COMPLETENESS OF FIELD INSPECTION

Field inspection was done as a part of the plane table contouring and it is believed to be adequate. New buildings and clearings have been added to the photographs. There are numerous lime orchards in the quadrangle that are grown up and appear almost as brush on the photos. However they are not abandoned.

3. INTERPRETATION OF PHOTOGRAPHS

The light phase of the photo, directly offshore, with darker spots, is due entirely to the differentiation in depth and composition of the ocean floor. The vegetation and related photograph tones are similar to that of the part of Key Largo falling in Quadrangle 8804. Report filed in Div. of Photogrammetry, General File.
4. **HORIZONTAL CONTROL:**

The only known horizontal control is U.S.C. & G.S. triangulation; a search was made for all stations, and all land stations recovered were identified on the photographs except for BARNES, 1934, which could not be identified because of lack of well-defined details in the vicinity. It is believed that sufficient control has been recovered and identified to control the radial plot.

5. **VERTICAL CONTROL:**

The only permanent vertical control within this quadrangle is the group of tidal bench marks at Garden Cove; these were recovered and identified.

A wye level line was run from the tidal bench mark at Pumpkin Key (Quadrangle 8804) to Garden Cove to establish temporary level point for control of contouring. The closure on this line was 0.14 feet, hence no adjustment was necessary.

Level notes are recorded in Vol. 4, Wye Leveling, Project Ph-10(46) File in Div. of Photogrammetry - General Files

6. **CONTOURS AND DRAINAGE:**

There is no discernible drainage pattern on the keys. The topography consists of an irregular coral ridge running down the northwestern side of Key Largo. It rises rapidly from the edge of the mangrove and the five foot contour is usually within 100 to 200 ft. from the edge of the hard land.

Contouring was done by plane table methods with cross sections run across the key at intervals and contours sketched with the aid of a stereoscope.

Contouring was done during May, 1947 by John D. Weiler, Photogrammetrist.

7. **MEAN HIGH-WATER LINE:**

The apparent shoreline was delineated on mangrove shoreline, fast land is delineated as actual shoreline. Ticks marks were used marking the differentiation between the hard and fast land and the apparent shoreline. In general a small boat was used and run as close inshore as possible to delineate the mean high water line.

Shoreline inspection is on photographs Nos. 16313 (print 2), 16314 (print 2) and 16315 (print 2).

8. **LOW-WATER LINE:**

The small range of the tide and the very gradual slope of the bottom made it practically impossible to delineate the low-water mark. Therefore the delination of low water is spotty due to not being in the area at or near low water. In most cases the low-water line coincides with apparent shoreline in as much as the water comes to and flows through the mangrove. Wherever possible the low-water line has been marked with the approximate low-water symbol.
9. **WHARVES AND SHORELINE STRUCTURES:**

All docks and buildings along the waterfront have been noted on the shoreline photographs. They are the Gulfstream Fishing Lodge pier and A.V. Peacock's pier at Garden Cove.

10. **DETAILS OFFSHORE FROM HIGH-WATER LINE:**

A small wreck about 7100 feet southwest of Upper Sound Pt., 600 feet offshore, lies in approximately 3 feet of water and is bared at half tide. A small house (shack) sets on piles 4000 feet easterly from the dock of A.V. Peacock at Garden Cove, near the entrance to the Garden Cove Channel. Both are identified on the shoreline photographs.

A wreck, bare 6 ft. at MHW, in approximate Lat. 25-09.2, Long. 80-18.2, was located by sextant fix. The wreck, charted in Lat. 25-12.4, Long. 80-15.9, was located by sextant and found to have moved to present position at approximate Lat. 25-12.5, Long. 80-14.9. Three poles, one just east of Basin Hill Lt., and two just southwest of Elbow Reef Daybeacon B, were located by sextant fixes. These are included in the list of dangers, submitted in conjunction with the report on nonfloating aids.

No additional details requiring investigation by a hydrographic party were observed during this field inspection.

11. **LANDMARKS AND AIDS TO NAVIGATION:**

All fixed aids to navigation within the limits of the quad were located. Refer to project report for list and methods of location and a generalized map showing all aids to navigation.

One new landmark, **WHITE HOUSE** (Gulfstream Lodge), is recommended on the Report on Landmarks for the project.

Chard as House, S. Cove.

12. **HYDROGRAPHIC CONTROL:**

No hydrographic signals were required for this project.

13. **LANDING FIELDS AND AERONAUTICAL AIDS:**

There are no landing fields nor aeronautical aids within the quadrangle.

14. **ROAD CLASSIFICATION:**

All roads were classified according to instructions dated 30 June, 1945. Roads were reclassified by the Field Editor.

15. **BRIDGES:**

There are no bridges within the quadrangle limits.
16. BUILDINGS AND STRUCTURES

All buildings to be shown were circled in red, small buildings and shacks to be omitted were deleted in green.

17. BOUNDARY MONUMENTS AND LINES

This quadrangle lies entirely within Precinct No. 7, Monroe County, Florida. There are no incorporated villages and no boundary lines within the quadrangle.

18. GEOGRAPHIC NAMES Report Filed in Div of Charts, Geographic Names Section.

See Special Report on Geographic Names, Project Ph-10(46), submitted by Lowell I. Bass, Engineering Aid.

19. TOPOGRAPHIC STATIONS

Permanent, recoverable topographic stations were established using standard topographic disks or natural objects. Stations were spaced so that, with the triangulation previously established and recovered, control points are available at about one-mile intervals.

Forms filed in Div of Photogrammetry, General Files.

20. SYMBOLS

Symbols used in the field inspection have been shown on the reverse of photograph 16313 (#2).

21. PUBLIC LAND LINES Sec Review Report for T 8806

No section corners were recovered in this quadrangle because of lack of adequate information at the time of field inspection and the very dense under growth covering most of the area.

A print of "Survey Showing Location of Test Well in Barnes Sound, Sec. 29, T58S-R14E, Key Largo, Monroe County, Florida" by the Biscayne Engineering Co. is submitted with the field records for this quadrangle. The section line information on this plan is rather sketchy for the area of Quadrangle 8807, and did not lead to the recovery of any of the corners.

However, section line data is slightly better in the adjoining Quadrangles 8804 and 8806. It is recommended that the section lines in this area be compiled as well as available data permit, and further investigation by the field edit party be requested, using the compilation as a guide.
SUBMITTED BY:

E. H. Taylor
Engineering Aid
(Shoreline Inspection and Control Recovery)

John D. Weiler
Photogrammetrist
(Topography and Interior Inspection)

SUPERVISED:

Lewis V. Evans, III
Lieut. (JG)

APPROVED AND FORWARDED:

Ross A. Gilmore
Chief of Party
Homestead, Fla.

25 April 1947

To: Commander, 7th Coast Guard District
    Miami, Fla.

From: Officer in Charge
      Coast and Geodetic Survey
      Homestead, Fla.

Subject: Wreck VIGOROUS; present position

1. The present position of subject wreck, now approximately 6
   feet above mean high water, has been found to be 6.42 nautical miles,
   bearing 230° 15' true, from Carysfort Reef Lighthouse.

2. Subject wreck has moved inshore from the location at which it
   originally grounded, according to Capt. A. V. Peacock, charter boat
   operator out of Cannes Cove. Its present position near the east side
   of Hawk Channel presents a danger to navigation; further inshore
   movement of the wreck is a potential menace to Hawk Channel traffic.

      See Chart Letter 78, 1948

Lewis V. Bass, III

cc: Director, Coast and Geodetic Survey

Chief of Party
    Coast and Geodetic Survey
    Stuart, Fla.
26 AND 27. CONTROL AND RADIAL PLOT:

A special report was prepared and submitted to the Washington Office 29 May, 1947 by M.M. Slavney, Photogrammetric Engineer.

28. DELINEATING:

The nine lens photographs covering this quadrangle were of good scale.

The field inspection was adequate leaving only a few discrepancies which are pointed out on the discrepancy overlay.

29. SUPPLEMENTAL DATA:

None was used.

30. MEAN HIGH WATER LINE:

See field inspection report item No. 7.

31. LOW WATER AND SHOAL LINES:

See field inspection report item No. 8.

The approximate shoal limits were put on the map manuscript in some places where they could be seen.

32. DETAILS OFFSHORE FROM THE HIGH WATER LINE:

See field inspection report.

33. WHARVES AND SHORELINE STRUCTURES:

See field inspection report item No. 9.

34. LANDMARKS AND AIDS TO NAVIGATION:

See field inspection report item No. 11.

One position could not be plotted with the information received. See discrepancy overlay. Station is triangulation station Beacon, 1934.

The project report covering landmarks and non-floating aids to navigation will be submitted with final map manuscript of the project.

Chart Letter: 591, 1947
35. **HYDROGRAPHIC CONTROL:**

No hydrographic control was required.

36. **LANDING FIELDS AND AERONAUTICAL AIDS:**

See field inspection report item No. 13

37. **SECTION CORNERS:** See Review Report for T-8804

No attempt has been made to construct section lines on this quadrangle. See a special report on the subject by William A. Hasure, Photogrammetric Engineer, 9 July, 1947, which was submitted with quadrangle No. T-8803 9 July, 1947.

44. **COMPARISON WITH EXISTING TOPOGRAPHIC QUADRANGLE:**

None available for comparison.

45. **COMPARISON WITH NAUTICAL CHARTS:**

Comparison was made with charts No. 849 dated 27 October, 1945 and No. 1249 dated 26 January, 1946. No discrepancies were noted in the shoreline. See Review Report

Respectfully submitted,

[Signature]

Robert H. Wagner,
Engineering Draftsman

Approved and Forwarded:

[Signature]

George E. Morris, Jr.
Chief of Party.
FIELD EDIT REPORT

QUADRANGLE T-8807

"GARDEN COVE"

PROJECT Ph-10 (46)

The field edit of this quadrangle was completed during November 1947 by John D. Weiler, Photogrammist.

46. METHODS

In field editing the map manuscript all inshore features were checked by truck, traversing all roads. The shoreline was checked by small launch keeping as close to the shore as possible. All data added to the map were plotted from topographic features or cut in by planetable methods. All aids to navigation were visually verified.

47. ADEQUACY OF THE MAP MANUSCRIPT

The map manuscript was adequate and correct except for a few minor changes.

The only major discrepancy noted was in woodland classification along the east side of Key Largo. The mangrove classification was shown inshore to the edge of the woods. However, between the mangrove and woods is a strip of flat coral rock which has grown up with sagebrush and cactus. It is easily seen on the photographs and has been shown in random spots on photograph 16315. The line between the mangrove and brush should be added to the map manuscript.

All roads were reclassified according to Photogrammetry Instructions No. 10 and amendment dated 24 October 1947.

The wreck "Toms Ship" is in the location shown on the map manuscript. Outside the limits of the Quadrangle.

The wreck "Vicente" has broken up and shifted to deeper water and should be deleted. Chart letter 74, 1948.

48. VERTICAL ACCURACY TEST

No vertical accuracy tests were specified for Project Ph-10 (46). From a visual inspection, the contours appear in good placement.

49. PUBLIC LAND LINES

See field edit report for quadrangle T-8804, relative to this item.

The map manuscript was reviewed by Capt. A.V. Peacock, charter boat boat fisherman at Garden Cove. A resident of the locality over
60 years and very familiar with the area within the quadrangle, he was a great help in the field edit. He could find no errors.

John D. Weiler
Photogrammetrist

Supervised:

William A. Rasure
William A. Rasure
Photogrammetric Engineer

APPROVED AND forwarded

Ross A. Gilmore
Chief of Party
Subject numbers not used in this report have been adequately covered in other parts of the descriptive report.

26. **Control.**—The triangulation station Largo North 3, 1930, classified as lost by the field inspection party, has been removed from the map manuscript. Largo North 3, Reference Mark 1 has been shown as a triangulation station.

The light list names of triangulation stations that are also Aids to Navigation, have been added to the map manuscript.

28. **Detailing.**—The symbolization of spot elevations was changed to conform with paragraph 69 of Photogrammetry Instructions No. 17.

31. **Low-Water and Shoal Lines.**—The shoal lines were removed from the map manuscript in accordance with paragraph 34 of Photogrammetric Instructions No. 17. They did not indicate an abrupt change in depth nor follow a depth curve.

Because no limits were shown on the low water area south of Rattlesnake Key, the depth note and shoal line were removed. Nautical Chart 1249 shows soundings from 3\frac{1}{2} to 5 feet in the area.

34. **Landmarks and Aids to Navigation.**—Forms 524 and 567 have been submitted for nine (9) Aids to Navigation and one (1) landmark within the limits of the quadrangle. See Chart Letter 591, 1947. The wreck, Vicente, has broken up since the time of the field inspection. See Chart Letter 78, 1948. Copies of the Forms 567 are filed in the Division of Photogrammetry, General Files in a special report for the project.

The position for Garden Cove Tidal Benchmark 3 was corrected on the Form 524.

The topographic station, Pile, 1947, charted as Pile, is triangulation station Beacon, 1934. The Form 524 card has been destroyed.

38. **Section Lines.**—See Review Report for T-8806.

40. **Geographic Names.**—Names were added to the map manuscript from the approved list submitted by the Geographic Names Section.
44. Comparison with Existing Topographic Surveys.--

<table>
<thead>
<tr>
<th>Survey Number</th>
<th>Scale</th>
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<tbody>
<tr>
<td>574</td>
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<td>6361</td>
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These surveys are superseded in common areas and detail by T-8807.

45. Comparison with Nautical Charts.--

<table>
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<tr>
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<td>1937 Corr. 1947</td>
</tr>
<tr>
<td>849</td>
<td>1:40,000</td>
<td>1939 Corr. 1948</td>
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</table>

The map manuscript has been partially applied to the nautical charts. The following discrepancies were noted.

The pier at Garden Cove is not shown on Chart No. 1249.

The wreck shown at latitude 25°09.1', longitude 80°13.1' on Chart No. 1249 has broken up. See Chart Letter 78, 1948.

The shoreline at Pt. Mary and at latitude 25°13', longitude 80°20' on the map manuscript is considerably different on the charts.


49. Overlays.--An overlay was prepared indicating the marginal data, road classifications and route numbers, road destinations and distances, selected spot elevations, triangulation stations, aids to navigation and landmarks that are to be shown by the smooth draftsman.

Reviewed by:

[Signature]

C. Theurer
5-4-48
APPROVED:

S. V. Griffith  
Chief, Review Section  
Div. of Photogrammetry

Chief, Nautical Chart Branch  
Division of Charts

K. T. Adams  
Chief, Div. of Photogrammetry

Chief, Div. of Coastal Surveys
## Record of Application to Charts

<table>
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<th>Date</th>
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<th>Cartographer</th>
<th>Remarks</th>
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<tbody>
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<td>10/17/47</td>
<td>1249</td>
<td>Richardson</td>
<td>Before After Verification and Review</td>
</tr>
<tr>
<td>10/21/49</td>
<td>849</td>
<td>John M. Alden</td>
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<td>3-25-50</td>
<td>3261</td>
<td>Staggard</td>
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<td>10-31-74</td>
<td>1230</td>
<td>E. Bodenweck</td>
<td>No core Superseded by TP 00447 TP 00449</td>
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</table>

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.