

11246

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Diag. Cht. No. 1222-2.

Form 504

U. S. DEPARTMENT OF COMMERCE
COAST AND GEODETIC SURVEY

DESCRIPTIVE REPORT

Type of Survey PlanimetricField No. Ph-119 Office No. T-11246

LOCALITY

State VirginiaGeneral locality Chesapeake BayLocality Old Plantation Creek to Pick-
etts Harbor and Mockhorn Channel19 53-55

CHIEF OF PARTY

E.H.Kirsch, Chief of Field Party
E.H.Kirsch, Balto. District Officer

LIBRARY & ARCHIVES

DATE September 1961

USCOMM-DC 5087

11246

DESCRIPTIVE REPORT - DATA RECORD

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T - 11246

Project No. (II): ~~25050(6119)~~ ^{PH-119} Quadrangle Name (IV):

Field Office (II): ~~Exmore~~, Virginia

Chief of Party: E. H. Kirsch

Photogrammetric Office (III): Baltimore, Md.

Officer-in-Charge: E. H. Kirsch

Instructions dated (II) (III): 6 July 1953
15 February 1956

Copy filed in Division of
Photogrammetry (IV)

Method of Compilation (III): Graphic

Manuscript Scale (III): 1:10,000

Stereoscopic Plotting Instrument Scale (III):

Scale Factor (III): 1.000

Date received in Washington Office (IV):

Date reported to Nautical Chart Branch (IV):

Applied to Chart No.

Date:

Date registered (IV): 3/20/61

Publication Scale (IV):

Publication date (IV):

Geographic Datum (III): N.A. 1927

Vertical Datum (III): M.H.W.

Mean sea level except as follows:
Elevations shown as (25) refer to mean high water
Elevations shown as (5) refer to sounding datum
i.e., mean low water or mean lower low water

Reference Station (III): WILLIS, 1932

Lat.: 37° 12' 11.956" (368.6m)

Long.: 76° 00' 31.375" (773.7m)

Adjusted

~~XXXXXX~~

Plane Coordinates (IV):

State: Virginia

Zone: South

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.

DESCRIPTIVE REPORT - DATA RECORD

| | | | | | | | | | |
|--|--|--|--|--|--|--|--|--|--|
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| | | | | | | | | | |

Not applicable

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

DESCRIPTIVE REPORT - DATA RECORD

Field Inspection by (II): R. L. McGlinchey

Date: Jan. 1954

Planetable contouring by (II):

Date:

Completion Surveys by (II):

Date:

Mean High Water Location (III) (State date and method of location): 1955 date of photography
(Supplemented by field inspection on 1953 photographs)

Projection and Grids ruled by (IV): A. Riley

Date: 1/21/54

Projection and Grids checked by (IV): C. Hanavich

Date: 1/22/54

Control plotted by (III): A. Queen

Date: 2/25/54

Control checked by (III): H. R. Rudolph

Date: 2/25/54

Radial Plot ~~of Stereoscopic~~

Date: 5/3/55

~~Control checked~~ by (III): H. R. Rudolph

Planimetry

Date:

Stereoscopic Instrument compilation (III):

Contours

Date:

Manuscript delineated by (III): A. Queen

Date: 7/2/56

Photogrammetric Office Review by (III): R. Glaser

Date: 7/11/56

Elevations on Manuscript
checked by (II) (III):

Date:

DESCRIPTIVE REPORT - DATA RECORD

Camera (kind or source) (III): USC&GS nine-lens and single lens camera "W" (4)

PHOTOGRAPHS (III)

| Number | Date | Time | Scale | Stage of Tide |
|---------------------|---------|------|----------|----------------|
| 40315 & 40316 | 5/29/53 | 0908 | 1:10,000 | 2.2' above MLW |
| 40542 & 40543 | 5/30/53 | 1346 | " | 0.8' " " |
| 40550 and 40551 | " | 1355 | " | 0.3' " " |
| 55-W-4310 thru 4313 | 3/10/55 | 1356 | " | 0.3' " " |
| 55-W-4327 thru 4330 | " | 1405 | " | 0.3' " " |

Tide (III)
From predicted tables

Reference Station: Hampton Roads
Subordinate Station: Old Plantation Flats
Subordinate Station:

| Ratio of Ranges | Mean Range | Spring Range |
|--------------------|---------------|-----------------|
| | 2.5 | 3.0 |
| 1.0 | 2.4 | 2.9 |
| | | |

Washington Office Review by (IV): S.G. Blankenbaker

Date: MAR-13-1961

Final Drafting by (IV): Baltimore Office

Date:

Drafting verified for reproduction by (IV): S.G. Blankenbaker

Date: MAR-13-1961

Proof Edit by (IV):

Date:

Land Area (Sq. Statute Miles) (III): 12

Shoreline (More than 200 meters to opposite shore) (III): 24.4 mi

Shoreline (Less than 200 meters to opposite shore) (III): 14.2 mi

Control Leveling - Miles (II):

Number of Triangulation Stations searched for (II): 11

Recovered: 5

Identified: 5

Number of BMs searched for (II): 1

Recovered: 1

Identified: 1

Number of Recoverable Photo Stations established (III): 3*

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

Number of triangulation stations established: 2

Identified: 2

Number of traverse stations established: 4

Identified: 4

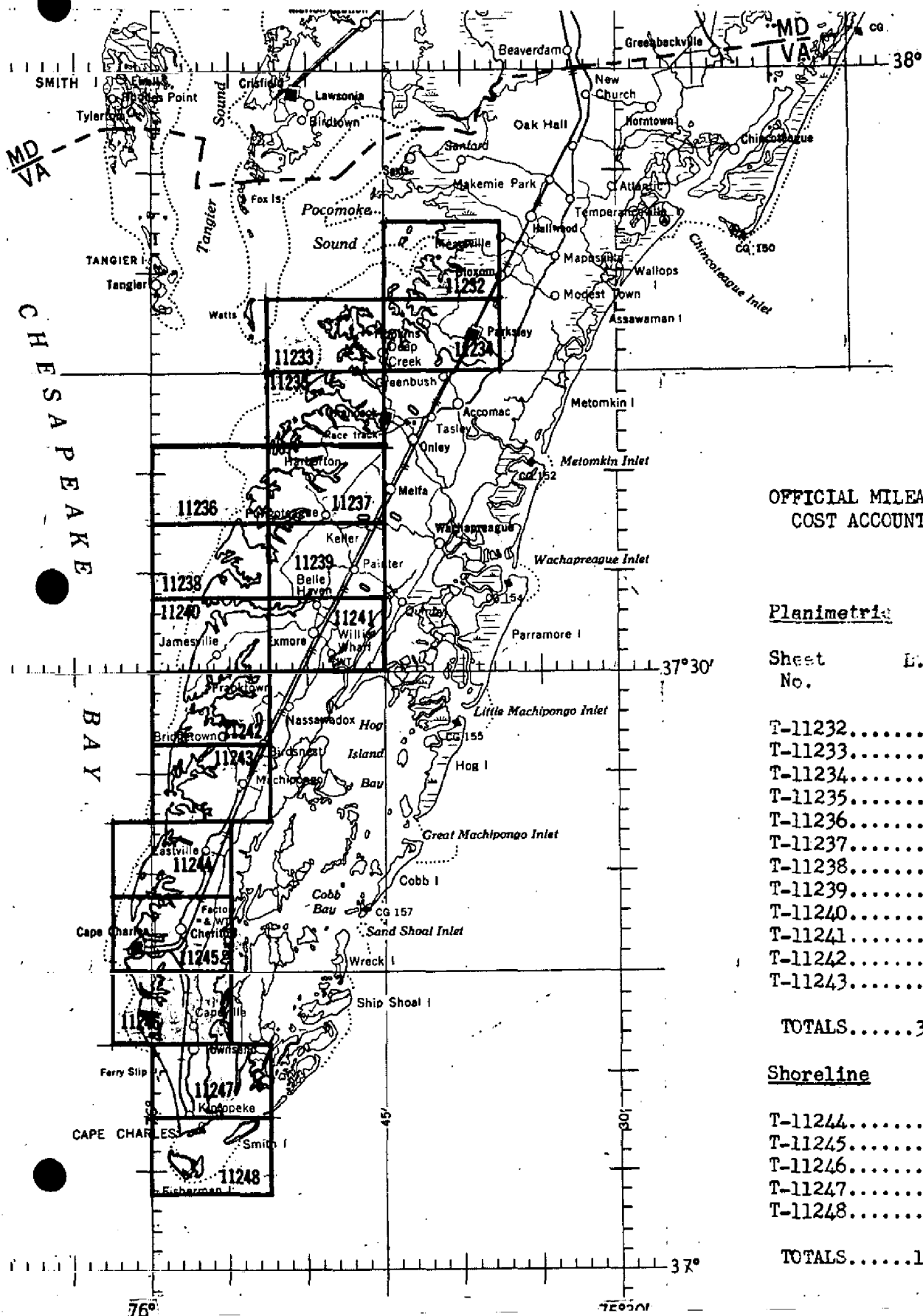
Remarks:

*These are recovered stations with new positions.

(5)

PLANIMETRIC and SHORELINE MAPPING PROJECT PH-119

CAPE CHARLES TO POCOMOKE SOUND, VIRGINIA



OFFICIAL MILEAGE FOR COST ACCOUNTS

Planimetric

| Sheet No. | L.M.S. | Sq. Miles |
|-----------|--------|-----------|
|-----------|--------|-----------|

| | | |
|--------------|---------|----|
| T-11232..... | 32..... | 18 |
| T-11233..... | 30..... | 7 |
| T-11234..... | 20..... | 26 |
| T-11235..... | 38..... | 17 |
| T-11236..... | 8..... | 2 |
| T-11237..... | 21..... | 25 |
| T-11238..... | 25..... | 9 |
| T-11239..... | 4..... | 27 |
| T-11240..... | 27..... | 15 |
| T-11241..... | 27..... | 26 |
| T-11242..... | 39..... | 19 |
| T-11243..... | 32..... | 22 |

TOTALS.....303....213

Shoreline

| | | |
|--------------|---------|----|
| T-11244..... | 20..... | 8 |
| T-11245..... | 30..... | 5 |
| T-11246..... | 27..... | 5 |
| T-11247..... | 37..... | 10 |
| T-11248..... | 16..... | 4 |

TOTALS.....130.....32

SUMMARY TO ACCOMPANY DESCRIPTIVE REPORT

T-11246 is one of seventeen 1:10,000 scale maps in Project PH-119. The project covers the eastern shore of the Chesapeake Bay in Virginia from Beasley Bay (Lat. 37° 52' 45") southerly to Cape Charles (Lat. 37° 03' 45").

The project is subdivided into two sections. Section "A" comprised of planimetric surveys T-11232 to T-11243 covers the northern part of the project. Section "B" is comprised of shoreline surveys T-11244 through T-11248.

The principal purpose of the project was to provide shoreline and control for hydrographic surveys. In addition, contour revisions were required in section "A" for the purpose of revising Bureau War Mapping Quadrangles produced for the War Department (1943). In checking contours during field inspection no changes were found over the entire area that warranted changing the original contours.

Field work was accomplished in 1953. Radial plotting and graphic compilation were accomplished in the Baltimore Office. Nine-lens photographs taken in 1953 were used in radial plotting. The nine-lens photographs and single-lens photographs taken in 1955 were used in compilation.

Maps T-11232 through T-11237 were field edited in 1956. The remainder of the maps in the project will be registered as correct to the date of field inspection (1953).

A coronaflex positive of advance manuscript T-11246 was furnished the hydrographic survey party prior to sounding. Items registered under T-11246 will include a Descriptive Report and a positive impression on coronaflex of the scribbled copy of the manuscript.

FIELD INSPECTION REPORT
Quadrangles 11246, 11247, 11248
PROJECT PH-119 (Section B) (Part)

The field work for these quadrangles was done in accordance with instructions dated 2 July 1953. All phases of field work was accomplished by Richard L. McGlinchey, Carto. Survey Aid. It includes:

| | |
|--|----------------------|
| Horizontal Recovery and Identification | Dec. 1953, Jan. 1954 |
| Shoreline Inspection | " " |
| Interior Inspection | " " |
| Locating Fixed Aids to Navigation | " " |
| Third order Traverse (assisting) | Aug. 1953 |

2. AREAL FIELD INSPECTION

These quadrangles lie in Northampton County, covering the southern most tip of the peninsula including the Lower Chesapeake Bay Eastern Shore, Fisherman Island and a section of Smith Island.

There are no incorporated towns, but the area is moderately developed with small communities and farms. The U. S. Air Force operates a base at the south tip of the mainland - FORT JOHN CUSTIS. The U. S. Navy maintains a small base on Fisherman Island, and the U. S. Coast Guard has a maintenance crew based on Smith Island to service CAPE CHARLES LIGHT. About midway between Cape Charles(city)and Fisherman Island, Kiptopeke Beach Ferry Terminal has recently been constructed. Steamers provide passenger and car service between the eastern shore and Little Creek, Virginia. The inland areas of these quadrangles are adequately served with primary and secondary roads.

Farming and fishing are the only industries.

Photography for the area was good and the tone detail clear. The field inspection is believed to be complete.

3. HORIZONTAL CONTROL

(a) To establish additional control in 11246, a six mile traverse was run from station WILLIS, 1932 to SEAVIEW, 1939. One pair of monuments, CUSTIS, 1953 and PARSONS, 1953 was set and third-order accuracy was obtained. Picture points were selected at approximate one-half mile intervals and their positions computed. Computations and adjustments for this traverse were accomplished in the field.

All known horizontal control in the area was searched for and reported on Form 526.

Third-order positions were obtained for WISE, R.M. 6, MAGOTHY BAY MIDDLE GROUND LT. 2, MAGOTHY BAY CHANNEL LT. 6 and CAPE CHARLES CITY RANGE FRONT LT. For method used, see paragraph 9.

3. HORIZONTAL CONTROL (cont'd)

(c) Stations not established by this bureau include:

| | | |
|------------------------|--------|-----------|
| SLATS, 1913 | U.S.E. | Lost |
| ENGINEERS CAGING, 1913 | U.S.E. | Lost |
| END, 1913 | U.S.E. | Lost |
| CHEAPSIDE, 1939 | U.S.E. | Recovered |
| MOCKHORN, 1939 | U.S.E. | Recovered |

(e) Lost stations in the area include:

| | |
|--------------------------------|--------------------------------------|
| OUTER OF FOUR POLES, 1914 | LIGHT, 1929 |
| ELLIOT, 1913 | FISH, 1929 |
| COSTIN, 1913 | FISH HYDRO, 1913 |
| BUTLER, 1913 | ADAMS, 1929 |
| CAMP, 1914 | C.G. BOAT HO. CENTER, 1934 |
| CAPE CHARLES LT. HO. OLD, 1867 | SHACK ON SMITH I., N. E. GABLE, 1934 |
| SMITH 3, 1934 | SMITH I. EAST 3, 1911 |
| KETCHAM 2, (R.M. 2 Recovered) | |

(f) Positive identification of OLD PLANTATION FLATS LIGHT HOUSE 2, 1939 could not be made. The structure is very hazy on the photograph due to the distance off center.

4. VERTICAL CONTROL

Seven tidal bench marks were recovered and identified on the photographs. Two were reported lost. No other vertical control was searched for.

5. CONTOURS AND DRAINAGE

Not applicable.

6. WOODLAND COVER

Woodland cover along the shoreline, applicable to shoreline surveys, and as required in project instructions, was classified on the field photographs.

7. SHORELINE AND ALONGSHORE FEATURES

(a) The shoreline along the Chesapeake Bay is entirely fast shoreline. The MHWL was established by visual inspection, measurements from identifiable points and planetable traverse.

Generally all of the shoreline along the southern sides of Fisherman Island and Smith Island is fast shoreline and subject to extensive erosion with shifting sand bars. MHWL here was established entirely by planetable traverse.

The shoreline around Magothy Bay is all apparant shoreline with large areas of salt marsh. In many areas, this line of apparant shoreline is very difficult to establish. The very prominent 'marsh bank'

7. SHORELINE AND ALONGSHORE FEATURES (cont'd)

that usually prevails in these areas, does not exist here. The Bay is very shallow and the ascent to high ground is very gradual. At MHW, grass in water will project from three to six inches and gradually become taller going inland towards fast land. The entire area is flooded at MHW. These areas are labeled on the photographs with sufficient notes to assist the compiler.

(b) No attempt was made to establish the MLWL.

(d) A high sand bluff exists on the Chesapeake Bay side in the vicinity of the KIPTOPEKE FERRY TERMINAL. It ranges between 20 and 40 feet in height and very prominent offshore.

(e) All docks, piers, landings etc., are clearly discernable on the photographs and labeled.

(f) Three submerged cables exist within the area. These are active lines and their location is shown on the field photographs.

8. OFFSHORE FEATURES

The ruins of Old Cape Charles Lighthouse, southerly off Smith Island, is awash at MHW.

A wreck, shown on chart 1222 off the southern tip of Cape Charles, could not be found at MLW.

9. LANDMARKS AND AIDS

(a) Three Landmarks for Nautical Charts are recommended.

(b) No interior landmarks are recommended.

(c) No aeronautical aids are recommended.

(d) Twelve fixed aids to navigation are recommended for charting. Ten lights and two daybeacons. The four lights at Kiptopeke Beach breakwater are privately owned and maintained. MAGOTHY BAY CHANNEL DAYBEACON 1, (Chart 1222) has not been in evidence during these field operations.

Three lights of three pile structure were established as third-order triangulation stations. MAGOTHY BAY MIDDLE GROUND LT. 2 and MAGOTHY BAY CHANNEL LT. 6 were established by four theodolite cuts of strong intersection from existing stations. CAPE CHARLES CITY RANGE FRONT LT. was established by the following method: An eccentric station was established at CHERRYSTONE BAR LT. 1954. Cuts were then taken to the subject light from this eccentric station, CAPE CHARLES JETTY LT., 1954 and CAPE CHARLES, USE, 1939. These cuts form three strong triangles to establish the position of the light. A check on this position was obtained by

9. LANDMARKS AND AIDS (Cont'd)

establishing a temporary station, designated as WILLIS, PT. A, in the vicinity of WILLIS, 1932. A three point fix was taken here using WILLIS, 1932, OLD PLANTATION FLATS LT. HO. 2, 1939 and CAPE CHARLES JETTY LT. 1954. Then a three point fix was taken on the structure of CAPE CHARLES CITY RANGE FRONT LT. at an eccentric station, using OLD PLANTATION FLATS LT. HO. 2, 1939, CAPE CHARLES JETTY LT., 1954 and WILLIS PT., 'A'. An angle and distance to the light from the eccentric station are given. These positions were not computed in the field, but were computed in the Baltimore Photogrammetric office.

For the purpose of obtaining a fourth cut to MAGOTHY BAY MIDDLE GROUND LT. 2, 1954, a four point fix was taken at WISE, 1906, R.M. 6 and a third-order station established. Stations used for this fix were: CAPE CHARLES NEW LT. HO., 1896, QUARANTINE, 1906, OLD PLANTATION FLATS LT. HO. 2, 1939 and WISE, 1906.

(e) No attempt was made to locate floating aids to navigation.

10. BOUNDARIES, MONUMENTS AND LINES

Not applicable.

11. OTHER CONTROL

All existing topographic stations were searched for and reported on Form 524. Stations established of less than third-order accuracy and not reported on Form 567 are: KIPTOPEKE AZIMUTH MARK, 1953. No photo hydro stations were established.

12. OTHER INTERIOR FEATURES

An overhead power line exists between the south tip of Cape Charles and Fisherman Island. It is supported by poles at regular intervals with a 25 foot vertical clearance at M.H.W. Clearance was measured with a steel tape midway between supports.

There are no bridges within the area.

Roads, buildings and other cultural features were all classified on the field photographs.

13. GEOGRAPHIC NAMES

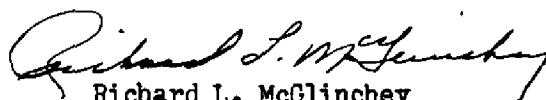
A spot check of geographic names was made throughout the area, using as base sheets, Nautical Chart 1222, A.M.S. quadrangle sheets TOWNSEND, ELLIOTS CREEK and FISHERMANS ISLAND. Names shown on these sheets proved in excellent agreement with local usage and are recommended for mapping with the following additions and deletions:

| | | |
|------------|--------------------------------|----------------|
| New names: | U. S. Highway 13 | See F.P. 40549 |
| | Kiptopeke Beach Ferry Terminal | See F.P. 40549 |
| Deletions: | Mt. Saini Holiness Church | Destroyed |
| | Hopeville Church | Destroyed |


14. SPECIAL REPORTS AND SUPPLEMENTAL DATA

No special reports or maps are submitted other than those listed in the transmittal letter pertaining to the above survey operations. The Coast Pilot Report for those quadrangles will be included in a report covering all of Section B, Project Ph-119, and submitted by James E. Hundley.

Respectfully submitted
29 January 1954


Richard L. McGlinchey
Carto. Sur. Aid

Approved by:


E. H. Kirsch,
Comdr. USC&GS
Officer in Charge

U.S. DEPARTMENT OF COMMERCE
COAST AND GEODETIC SURVEY
DESCRIPTIVE REPORT
CONTROL RECORD

MAP T-11246

PROJECT NO. 25050(6119)

SCALE OF MAP 1:10,000

SCALE FACTOR

| STATION | SOURCE OF INFORMATION (INDEX) | DATUM | LATITUDE OR ψ -COORDINATE LONGITUDE OR λ -COORDINATE | | DISTANCE FROM GRID IN FEET, OR PROJECTION LINE IN METERS | | DATUM CORRECTION | N.A. 1927 - DATUM DISTANCE FROM GRID OR PROJECTION LINE IN METERS | | FACTOR DISTANCE FROM GRID OR PROJECTION LINE IN METERS |
|---|-------------------------------|--------------|--|-----------|---|-----|------------------|---|----------|--|
| | | | ° | ' | ° | ' | | FORWARD | (BACK) | |
| CHEAPSIDE (USE), 1939 | G-4218 p. 290 | N.A. 1927 | 37 | 11 | 19 | 428 | | 598.9 | (1250.7) | |
| | | | 75 | 59 | 54 | 063 | | 1333.5 | (146.4) | |
| WILLIS, 1932 | G-1895 p. 32 | " | 37 | 12 | 11 | 956 | | 368.6 | (1481.0) | |
| | | | 76 | 00 | 31 | 375 | | 773.7 | (705.9) | |
| Sub. Pt. WILLIS, 1932 | | " | 37 | 12 | | | | 373.7 | (1475.9) | |
| | | | 76 | 00 | | | | 811.7 | (667.9) | |
| DALBY, 1887 | G-1800 p. 115 | " | 37 | 12 | 54 | 433 | | 1678.0 | (171.6) | |
| | | | 75 | 56 | 16 | 322 | | 402.4 | (1076.9) | |
| Sub. Pt. DALBY, 1887 | | | 37 | 12 | | | | 1638.3 | (211.3) | |
| | | | 75 | 56 | | | | 418.2 | (1061.1) | |
| MOCKHORN (USE), 1939 | G-4218, p. 290 | " | 37 | 11 | 54 | 088 | | 1667.4 | (182.2) | |
| | | | 75 | 54 | 19 | 060 | | 470.1 | (1009.7) | |
| Sub. Pt. MOCKHORN (USE), 1939 | | | 37 | 11 | | | | 1635.8 | (213.8) | |
| | | | 75 | 54 | | | | 476.7 | (1003.1) | |
| OLD PLANTATION FLATS LIGHTHOUSE 2, 1939 | G-4218 p. 291 | " | 37 | 13 | 43 | 118 | | 1329.2 | (520.4) | |
| | | | 76 | 02 | 50 | 244 | | 1238.6 | (240.5) | |
| CAPE CHARLES CITY RANGE FRONT LT, 1954 | GP Form 28B | | 37 | 14 | 45 | 885 | | 1414.5 | (435.2) | |
| | | | 76 | 01 | 28 | 844 | | 710.9 | (767.9) | 1 |
| CONTROL PT 10 " | Form 709 | | 34 | 4, 251.99 | | | | 1296.0 | (228.0) | 2 |
| | | | 2, 742, 444.81 | | | | | 745.2 | (778.8) | 1 |
| CONTROL PT 9 | " | | 34 | 0, 933.08 | | | | 284.4 | (1239.6) | |
| | | | 2, 741, 420.24 | | | | | 432.9 | (1091.1) | |
| CONTROL PT 8 | " | | 34 | 0, 136.68 | | | | 44.7 | (1482.3) | |
| | | | 2, 738, 464.64 | | | | | 1056.0 | (468.0) | |

1 FT. = 3048006 METER

COMPUTED BY J. Steinberg

DATE 2/1/54

CHECKED BY A. Queen

DATE 2/23/54

CONRAD-DC-578

SCALE FACTOR

| | | | | | |
|------------------------|-------------------------------|--------------|-----------------------------|--------------|---------------|
| 1 FT. = .3048006 METER | COMPUTED BY: Harry R. Rudolph | DATE: 3/4/54 | CHECKED BY: J. S. Steinberg | DATE: 3/4/54 | COMM. DC-5784 |
|------------------------|-------------------------------|--------------|-----------------------------|--------------|---------------|

MAP T 11246

PROJECT NO 25050 (6119)

SCALE OF MAP 1:10,000

SCALE FACTOR

| STATION | SOURCE OF INFORMATION (INDEX) | DATUM | LATITUDE OR ψ -COORDINATE LONGITUDE OR x -COORDINATE | DISTANCE FROM GRID IN FEET, OR PROJECTION LINE IN METERS | | DATUM CORRECTION | N.A. 1927 - DATUM DISTANCE FROM GRID OR PROJECTION LINE IN METERS | | FACTOR DISTANCE FROM GRID OR PROJECTION LINE IN METERS |
|--|-------------------------------|-------|--|---|------------|---------------------|---|--------------------|--|
| | | | | FORWARD | (BACK) | | FORWARD | (BACK) | |
| CONTROL PT 7 - WS-13 | Form 709 | | 340,700.53 | (700.53) | (4299.47) | | 213.5 | (1310.5) | |
| | | | 2,735,826.84 | (826.84) | (4173.16) | | 252.0 | (1272.0) | |
| CONTROL PT 6 | " | | 337,091.79 | (2091.79) | (2908.21) | | 637.6 | (886.4) | |
| | | | 2,735,245.03 | (1245.03) | (3754.97) | | 379.5 | (1144.5) | |
| CONTROL PT 3 | " | | 332,345.65 | (2345.65) | (2654.35) | | 715.0 | (809.0) | |
| | | | 2,732,061.28 | (2061.28) | (2938.72) | | 628.3 | (895.7) | |
| CONTROL PT 2 | " | | 329,016.02 | (4016.02) | (983.98) | | 1224.1 | (299.9) | |
| | | | 2,731,939.29 | (1939.29) | (3060.71) | | 591.1 | (932.9) | |
| CONTROL PT 1 - WS-04 | " | | 326,406.74 | (1406.74) | (3593.26) | | 428.8 | (1095.2) | |
| | | | 2,732,117.45 | (2117.45) | (2882.55) | | 645.4 | (878.6) | |
| RECOVERABLE TOPO STATIONS-- | | | | | | | | | |
| PARSON'S BOAT HOUSE NORTH GABLE, 1942 | Form 524 | | 37° 13' | Pricked direct -- to be cut in. | | | 1526 | (324) | |
| | | | 76 00 | | | | 168 | (1311) | |
| SCOTT CENTER CHIMNEY, 1942 | " | | 37 13 | " " | | | 1544 | (306) | |
| | | | 75 59 | | | | 906 | (573) | |
| CUT, 1942 | " | | 37 13 | To be located from Photo It. 7A | | | 1552 | (298) | |
| | | | 75 55 | | | | 156 | (1323) | |
| LODGE SOUTH GABLE, 1942 | " | | 37 14 | | | | 1536 | (314) | |
| | | | 75 59 | | | | 858 | (623) | |
| HOLLYWOOD WEST GABLE, 1942 | " | | 37 14 | | | | 296 | (1554) | |
| | | | 76 00 | | | | 628 | (851) | |

COMPILATION REPORT

T-11246

The Photogrammetric Plot Report is part of the Descriptive Report for Survey T-11244.

31. DELINEATION

Graphic methods were used to delineate this manuscript. The single lens photographs were used in preference to the nine-lens photographs where coverage was available.

32. CONTROL

Horizontal control was adequate with reference to identification, density, and placement.

33. SUPPLEMENTAL DATA

None

34. CONTOURS AND DRAINAGE

Contours: Inapplicable.

Drainage: No comment.

35. SHORELINE AND ALONGSHORE DETAILS

The shoreline inspection was adequate.

36. OFFSHORE DETAILS

No comment.

37. LANDMARKS AND AIDS

Form 567 is being submitted for three (3) Aids to Navigation. OLD PLANTATION FLATS LIGHT is just west of T-11246, but is on no other survey. CAPE CHARLES CITY RANGE FRONT LIGHT and CAPE CHARLES CITY RANGE REAR were destroyed and rebuilt in 1954. The positions as listed for these lights are the old ones and may now be in error. (See Notice to Mariners 45, 46 and 50, 1954).

38. CONTROL FOR FUTURE SURVEYS

Forms 524 were submitted by the field party for three Topographic Stations recovered and five not recovered.

39. JUNCTIONS

Junctions between T-11245 to the north and T-11247 to the south have been made and are in agreement. There is no contemporary survey to the east.

40. HORIZONTAL AND VERTICAL ACCURACY

No comment.

41 thru 45. Inapplicable.

46. COMPARISON WITH EXISTING MAPS

This manuscript has been compared with the A.M.S. ELLIOTS CREEK quadrangle, scale 1:24,000 published, 1950, and the A.M.S. TOWNSEND quadrangle, scale 1:24,000, published 1950.

47. COMPARISON WITH NAUTICAL CHARTS

Comparison was made with Chart 1222, scale 1:80,000, published January 1953, corrected to 8/30/54.

Items to be applied to nautical charts immediately: None.

Items to be carried forward: None.

Respectfully submitted
2 July 1956

Albert Queen

Albert Queen,
Carto. Photo. Aid

Approved and Forwarded

E. H. Kirsch

E. H. Kirsch,
Capt. C&GS
Baltimore District Officer

PHOTOGRAMMETRIC OFFICE REVIEW

T- 11246

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

CONTROL STATIONS

4a. Classification label ☒

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 along-shore cultural features ☒

PHYSICAL FEATURES

20. Water features ☒ 21. Natural ground cover ☒ 22. Planetable 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. F. G. Olson Reviewer Supervisor, Review Section or Unit

41. Remarks (see attached sheet)

Scribing ✓ H.R.R.

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:

REVIEW REPORT
SHORELINE SURVEY T-11246
March 1961

61. General Statement:

Map features are dated 1953-54 (date of field inspection) or 1955 (date of photography used in part in compilation). The western portion (Mockhorn and Magothy Bays area) of the survey is not covered by 1955 photography. The use made of the 1953 and 1955 photographs in compilation is discussed under side heading No. 31 of the Compilation Report.

Road delineation is incomplete on this map. The existence of Geological Survey quadrangles (Townsend, 1955 and Elliots Creek, 1955) was apparently the reason for the elimination of some roads. A new nautical chart (No. 362 - 1:40,000 scale) covering the area of this survey has been compiled (to be published at a later date). The USGS quadrangles were available as source material (interior details) for the chart. Comparison of the shoreline with the quadrangles is discussed under side heading No. 63 of this report.

In compliance with project instructions woodland was not compiled on this map. The field inspection of drainage in woodland areas was incomplete. The comparison of drainage features on the shoreline survey with quadrangle drainage features is discussed under side heading No. 63 of this report.

62. Comparison with Registered Topographic Surveys:

| | | |
|-------|----------|-----------|
| 495 | 1:20,000 | 1852-1888 |
| 1202a | 1:20,000 | 1869-70 |
| 2676 | 1:20,000 | 1904-05 |
| 8181 | 1:20,000 | 1942 |
| 8182 | 1:20,000 | 1942 |

T-11246 supersedes the prior Bureau surveys for nautical charting purposes in common areas. T-8181 and T-8182 were published by the AMS (Townsend, 1942 and Elliots Creek, 1942 quadrangles).

63. Comparison with Maps of Other Agencies:

| | | | |
|---------------------|------|----------|------|
| Townsend, Va. | USGS | 1:24,000 | 1955 |
| Townsend, Va. | AMS | 1:25,000 | 1942 |
| Elliot's Creek, Va. | USGS | 1:24,000 | 1955 |
| Elliot's Creek, Va. | AMS | 1:25,000 | 1942 |

The AMS quadrangles (Bureau registry Nos. 8181 and 8182) are the source in part of the culture and drainage delineated on the 1955 G. S. quadrangles. Differences exist between the shoreline survey and the quadrangles in the delineation of drainage in wooded areas and "apparent shoreline." The greater part of the drainage delineated on the shoreline survey was compiled from office inspected photographs. Apparent shoreline on the shoreline survey was compiled from field inspected photographs. In the eastern section of the survey the field inspector had difficulty in locating the apparent shoreline on the photographs due to indefinite marsh limits (side heading No. 7 of the field inspection report.)

64. Comparison with Hydrographic Surveys:

| | | | |
|------|----------|------|------------------|
| 7910 | 1:10,000 | 1950 | (Chesapeake Bay) |
|------|----------|------|------------------|

No contemporary hydrographic survey work was accomplished in the area covered by T-11246. There are no recent hydrographic surveys in the Mockhorn and Magothy Bays areas. T-11246 and the hydrographic survey are in good agreement over-all in horizontal position of common details. There are shoreline differences between the surveys resulting from natural changes that occurred during the elapsed time between the surveys and differences in interpretation of apparent shoreline.

65. Comparison with Nautical Charts:

| | | | |
|----------|----------|------|-----------------|
| No. 1222 | 1:80,000 | 1959 | revised 6/20/60 |
|----------|----------|------|-----------------|

The shoreline survey and the chart differ in the location of apparent shoreline. No comparison was made with the new chart (to be published) covering the area.

66. Adequacy of Results and Future Surveys:

The elimination of some roads from this survey is discussed under side heading No. 61 of this report. T-11246 meets the Bureau requirements for shoreline surveys and together with the 1955 USGS quadrangles provides the necessary data for nautical charting. Except for the possibility of errors in the delineation of drainage (side heading No. 63) this map meets the National Standards of Map Accuracy.

Reviewed by:

S. G. Blankenbaker
S. G. Blankenbaker

Approved by:

L. C. Lande
Chief, Review & Drafting Sec.
Photogrammetry Division

J. E. Waugh 10/10/61
Chief, Nautical Chart
Division

L. F. Woodward
Asst. Chief, Photogrammetry Division

J. Bowie
Chief, Operations Division

GEOGRAPHIC NAME LIST

Allegood Pond
Arlington Wharf

Beach Marsh

*Chesapeake Bay
Costin Pond

Dunton Cove

*Elliot's Creek

Hunts Wharf

Magothy Bay
Marion Scott Cove
Mill Creek
Mockhorn Bay
Mockhorn Channel

Picketts Harbor

Old Plantation Creek

Red Bank

*The Thorofare

Walls Landing Creek

* B.G.N. Decision


GEOGRAPHIC NAMES SECTION
15 SEPTEMBER 1960

NONFLOATING AIDS OR LANDMARKS FOR CHARTS

TO BE CHARTED } **STRIKE OUT ONE**

Baltimore, Maryland

1956

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

The positions given have been checked after listing by R. Glaser

Chief of Party.

[illegible]

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 individual field survey sheets. Information under each column heading should be given.

NAUTICAL CHARTS BRANCH

SURVEY NO. T-11246

Record of Application to Charts

[illegible]

M.2168-1

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.