

T-11696

T-11696

NOAA FORM 76-35

U.S. DEPARTMENT OF COMMERCE
NATIONAL OCEANIC AND ATMOSPHERIC ADMINISTRATION
NATIONAL OCEAN SURVEY

DESCRIPTIVE REPORT

Type of Survey SHORELINE

Job No. PH-5907. Map No. .. T-11696

Classification No. II & III Edition No.

(refer to page 6)

LOCALITY

State VIRGINIA

General Locality NORTHAMPTON COUNTY

Locality GREAT MACHIPONGO INLET

1959 TO 1962

REGISTRY IN ARCHIVES

DATE 1 JUL 1975

DESCRIPTIVE REPORT - DATA RECORD

T - 11696

PROJECT NO. (II): PH-5907		
FIELD OFFICE (III): Accomac, Virginia		CHIEF OF PARTY Joseph K. Wilson
PHOTOGRAMMETRIC OFFICE (III): Tampa, Florida		OFFICER-IN-CHARGE V. Ralph Sobieralski
INSTRUCTIONS DATED (II) (III): October 20, 1959 FIELD April 26, 1960 Letter from Asst. Director April 26, 1960 FIELD AMMENDMENT I December 28, 1960 OFFICE August 10, 1961 OFFICE AMMENDMENT I September 29, 1961 OFFICE AMMENDMENT II		
METHOD OF COMPILATION (III): Graphic		
MANUSCRIPT SCALE (III): 1:10,000		STEREOSCOPIC PLOTTING INSTRUMENT SCALE (III): Inapplicable
DATE RECEIVED IN WASHINGTON OFFICE (IV):		DATE REPORTED TO NAUTICAL CHART BRANCH (IV):
APPLIED TO CHART NO.	DATE:	DATE REGISTERED (IV):
GEOGRAPHIC DATUM (III): N. A. 1927		VERTICAL DATUM (III): MHW XXXXXXXXXXXX EXCEPT AS FOLLOWS: <i>Elevations shown as (25) refer to mean high water</i> <i>Elevations shown as (5) refer to sounding datum</i> <i>i.e., mean low water or mean lower low water</i>
REFERENCE STATION (III): FIG 1933		
LAT.: 37° 19' 23.888" (736.4m)	LONG.: 75° 45' 03.789"m(93.3 m.)	<input checked="" type="checkbox"/> ADJUSTED <input type="checkbox"/> UNADJUSTED
PLANE COORDINATES (IV): y = 372,065.76 x = 2,799,233.51		STATE Virginia 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.		

DESCRIPTIVE REPORT - DATA RECORD
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FIELD INSPECTION BY (II): William M. Reynolds		DATE: Sept 1961
MEAN HIGH WATER LOCATION (III) (STATE DATE AND METHOD OF LOCATION): Date of photography and date of field inspection		
PROJECTION AND GRIDS RULED BY (IV): A. R.		DATE Nov. 1961
PROJECTION AND GRIDS CHECKED BY (IV): E. J.		DATE Nov. 1961
CONTROL PLOTTED BY (III): None		DATE
CONTROL CHECKED BY (III): None		DATE
PHOTOGRAPHIC COMPILATION BY (III): Radial Plot by: R. Wagner		DATE Jan. 1962
STEREOSCOPIC INSTRUMENT COMPILATION (III): Inapplicable	PLANIMETRY	DATE
	CONTOURS	DATE
MANUSCRIPT DELINEATED BY (III): P. W. Liekhim		DATE Jan. 1962
SCRIBING BY (III):		DATE
PHOTOGRAMMETRIC OFFICE REVIEW BY (III):		DATE
REMARKS:		

DESCRIPTIVE REPORT - DATA RECORD
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CAMERA (KIND OR SOURCE) (III):

9-lens camera and Wild RC-8 "W"

PHOTOGRAPHS (III)

NUMBER	DATE	TIME	SCALE	STAGE OF TIDE
60398 thru 60401	Oct. 13, 1959	09:38	1:10,000	0.5 ft. above MLW
60403	Oct. 13, 1959	09:40	1:10,000	0.5 ft. above MLW
62 W 3897 thru 3899	Apr. 28, 1962	not known	1:20,000	not known
62 W 3918	"	"	"	"
62 W 3934	"	"	"	"

TIDE (III) Predicted

	RATIO OF RANGES	MEAN RANGE	SPRING RANGE
REFERENCE STATION: SANDY HOOK		4.6	5.6
SUBORDINATE STATION: Sand Shoal Inlet		4.1	4.9
SUBORDINATE STATION:			

Atlantic Marine Center

REVIEW BY (IV):

C. H. Bishop

DATE:

Dec. 1973

PROOF EDIT BY (IV):

DATE:

NUMBER OF TRIANGULATION STATIONS SEARCHED FOR (II):

2

RECOVERED:

0

IDENTIFIED:

0

NUMBER OF BM(S) SEARCHED FOR (II):

0

RECOVERED:

0

IDENTIFIED

0

NUMBER OF RECOVERABLE PHOTO STATIONS ESTABLISHED (III):

3

NUMBER OF TEMPORARY PHOTO HYDRO STATIONS ESTABLISHED (III): None

REMARKS:

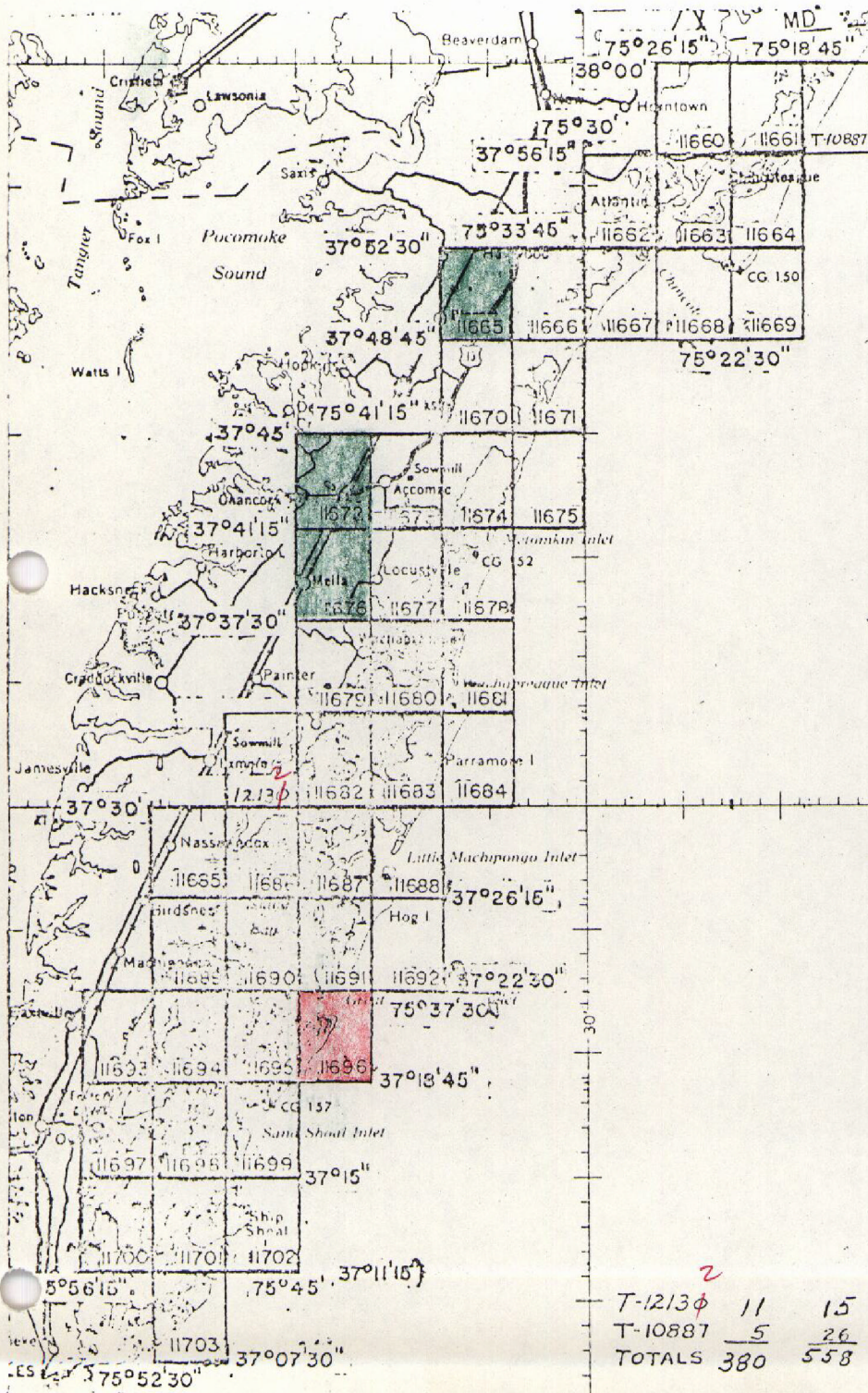
T-11696

COMPILATION RECORD	COMPLETION DATE	REMARKS
Compiled	Jan. 1962	Superseded
Revised from April 1962 photos	July 1962	Superseded
Final review	Dec. 1973	

CAPE CHARLES TO ASSATEAGUE, VA

Planimetric Mapping Scale 1:10,000

OFFICIAL MILEAGE
FOR COST ACCOUNTS



Sheet No.	Area Sq. Mi.	Lin. Mi. Shoreline
11660	6	10
11661	6	15
11662	13	19
11663	7	23
11664	8	16
11665	17	0
11666	16	8
11667	7	8
11668	1	1
11669	1	4
11670	16	1
11671	8	15
11672	17	0
11673	16	5
11674	8	16
11675	1	4
11676	16	0
11677	13	10
11678	8	16
11679	16	8
11680	11	32
11681	4	10
11682	8	15
11683	11	15
11684	2	3
11685	16	4
11686	4	15
11687	6	20
11688	6	15
11689	13	11
11690	4	11
11691	4	16
11692	2	3
11693	11	11
11694	6	16
11695	4	19
11696	4	9
11697	11	20
11698	6	16
11699	4	15
11700	8	16
11701	8	14
11702	4	11
11703	6	23

T-1213 ϕ 11 15
 T-10887 5 26
 TOTALS 380 558

3-22-62

SUMMARY TO ACCOMPANY
DESCRIPTIVE REPORT T-11696

This 1:10,000 scale shoreline manuscript is one of 43 maps that comprise Project PH-5907, Cape Charles to Assateague, VA. The project diagram on page 5 indicates the location of this map in the project.

Field inspection prior to compilation was done in September, 1961.

Compilation was from 9-lens photographs taken in October, 1959. Control was based on a radial plot using the 9-lens photographs. Compilation was revised, using photographs taken in April, 1962, * after the March, 1962 hurricane. The Photogrammetric Plot Report and Compilation Report were not available at the time of final review.

No field edit of this map was accomplished.

Final review was done at the Atlantic Marine Center in December, 1973.

The compilation manuscript was a vinylite sheet 3 minutes 45 seconds in latitude by 3 minutes 45 seconds in longitude.

A cronaflex copy of the final reviewed manuscript and a negative have been forwarded for record and registry.

* The registration map copy is labeled Class II. The extent of the revision with the 1962 photography is unknown. JB

FIELD INSPECTION REPORT
PROJECT PH-5907
MAP T-11696

2. Aerial Field Inspection.

These maps are located along the eastern shore of Virginia, in the vicinity of Great Machipongo Inlet. The land area consists of the northern part of Cobb Island. The island is a narrow stretch of sand and marsh between Great Machipongo Inlet and Sand Shoal Inlet. The island is un-inhabited except for a Coast Guard Life Saving Station, which is located on the south end.

Field inspection was performed on two 1:16000 scale nine-lens photographs, numbered 60399 and 60400. The western side of the island was inspected by skiff running alongshore and is all apparent shoreline. The shoreline along the Atlantic Ocean was located by occasional measurements from identifiable points on the photographs. The shoreline around the north end of Cobb Island has changed considerably since the nine-lens photography. It was located by frequent measurements from photo. points and has been indicated on photograph 60399. Comparison of the nine-lens photographs taken in October 1959 with black and white prints of color photography taken in April 1961 prove the changes around Great Machipongo Inlet. The photographs were of good quality and no difficulty was encountered in their interpretation in the field. The marsh limits along the west side of the island were indicated as photographed although the shifting sand has made the marsh area more narrow than when photographed.

3. Horizontal Control.

All Coast and Geodetic Survey stations were searched for but none were recovered. The project index called for one station, out of a group of three, near the north end of the island to be identified but none of the stations were recovered.

Great Machipongo Inlet Black Beacon 1934, East Shack, East Gable 1934 and West Shack, North Gable 1934 were reported lost.

4. Vertical Control.

No tidal bench marks were located within the area.

5. Contours and Drainage.

Contours are inapplicable.

Drainage is runoff from the island into the bay or ocean except for short tidal streams along the marsh area. These are self-evident from the photographs.

6. Woodland Cover.

There is none.

7. Shoreline and Alongshore Features.

See item 2, PP 2 on location of the mean high water line.

All shoreline features have been clarified on the photographs.

The area along the west side of the island is very shallow and can be navigated at high water only.

8. Offshore Features.

Several lines of stakes have been indicated on the photographs. These were the only features noted during inspection.

9. Landmarks and Aids.

There are no landmarks for nautical charts in the area.

10. Boundaries, Monuments and Lines.

There are none.

11. Other Control.

Three recoverable topographic stations were identified for location by the plot. They are CENT 1961, DENT 1961 and West Gable of House.

12. Other Interior Features.

There are no roads on the island. One building has been indicated on the photographs.

The Coast Guard Telephone Line has been indicated on the photographs. These are the only features on the island.

13. Geographic Names.

A systematic investigation of names was not required. No new names are recommended for charting.

14. Special Reports and Supplemental Data.

Form 567 submitted previously, date is unknown.
Letter of Transmittal submitted with this data.

Submitted,

William M. Reynolds
William M. Reynolds
Sub-unit Photo Party 720

June 22, 1972

GEOGRAPHIC NAMES

FINAL NAME SHEET

PH-5907 (Virginia)

T-11696

Atlantic Ocean

Cobb Island

Great Machipongo Inlet

Hog Island

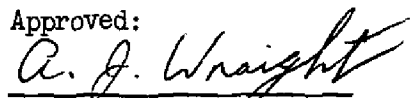
Hog Island Bay

North Channel

Rowes Hole Channel

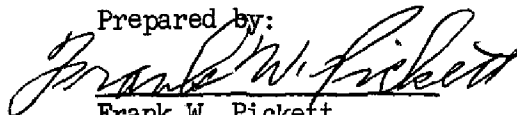
Second Channel

Approved:



A. Joseph Wraight
Chief Geographer

Prepared by:



Frank W. Pickett
Cartographic Technician

NONFLOATING AIDS OR LANDMARKS FOR CHARTS

STRIKE OUT TWO

TO BE CHARTED
TO BE REMOVED
TO BE REDUCED

Tampa District Office, Tampa, Fla. August 23, 1962

I recommend that the following objects which have ~~(never been)~~ been inspected from seaward to determine their value as landmarks be charted on ~~(charted and surveyed)~~ the charts indicated. 12.10.

The positions given have been checked after listing by Paul W. Leickum
Paul W. Leickum

Paul W. Loikith

V. Raimo Sobieralski *Chief of Party.*

V. Ralyn Sobieralski

[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. Revisions shall show both the old and new positions. 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.

* TABULATE SECONDS AND METERS

USCOMM-DC 27126

REVIEW REPORT T-11696

SHORELINE

December 5, 1973

61. GENERAL STATEMENT

See Summary on page 6 of this Descriptive Report.

An ozalid comparison print, showing differences noted in Par. 62, is bound with the original of this report.

Map sources used in Par. 62 and 63 were compared with each other. No differences were found to exist between the two maps.

T-11696 supersedes previous topographic surveys for nautical chart construction purposes.

62. COMPARISON WITH REGISTERED TOPOGRAPHIC SURVEYS

A comparison was made with Survey T-8179, Great Machipongo Inlet, VA, scale 1:20,000, dated 1943. Numerous shoreline differences were shown in blue on the comparison print.

63. COMPARISON WITH MAPS OF OTHER AGENCIES

A comparison was made with USGS Quadrangle GREAT MACHIPONGO INLET, VA., 1:24,000 scale, dated 1942. Differences noted were the same as those noted on T-8179 and were shown on the comparison print with the same blue line.

64. COMPARISON WITH CONTEMPORARY HYDROGRAPHIC SURVEYS

No contemporary hydrographic surveys were available for comparison.

65. COMPARISON WITH NAUTICAL CHARTS

A comparison was made with Chart 1222, 1:80,000 scale, 36th edition, dated June 30, 1973. No significant shoreline differences were noted. A charted wreck at the north end of Cobb Island was not visible on photographs of the area.

66. ADEQUACY OF RESULTS AND FUTURE SURVEYS

The Photogrammetric Plot Report, which usually states the accuracy of control used for compilation, was not available for final review and no accuracy statement was made in the Compilation Report. However, there is no reason to believe that accuracy is substandard.

Reviewed by:

Charles H. Bishop

Charles H. Bishop
Cartographer

Approved for forwarding:

Jeff Carlen

Jeffrey G. Carlen, CDR, NOAA
Chief, Coastal Mapping Division, AMC

Approved:

Alfred C. Holmes

Alfred C. Holmes, RADM, NOAA
Director, Atlantic Marine Center

Approved:

David Hargrove

Chief, Photogrammetric Branch

Laura Latta

Chief, Coastal Mapping Division

4'

$x=2,805,000$ FT $43' 30''$

7543'

14
 $x=2,81$

$37^{\circ}22'30''$

Joins T-11691

Open

Hog Island

sand

Cove (Pt)

GREAT MACHIPONGO INLET

62W3897

$37^{\circ}22'$

COMPARISON PRINT

Blue = T-8179 & USGS

Submerged Comm Cable
(Approximate position)

Great Machipongo Inlet
Entrance Light
1961

AYCOCK

1962

sand

sand

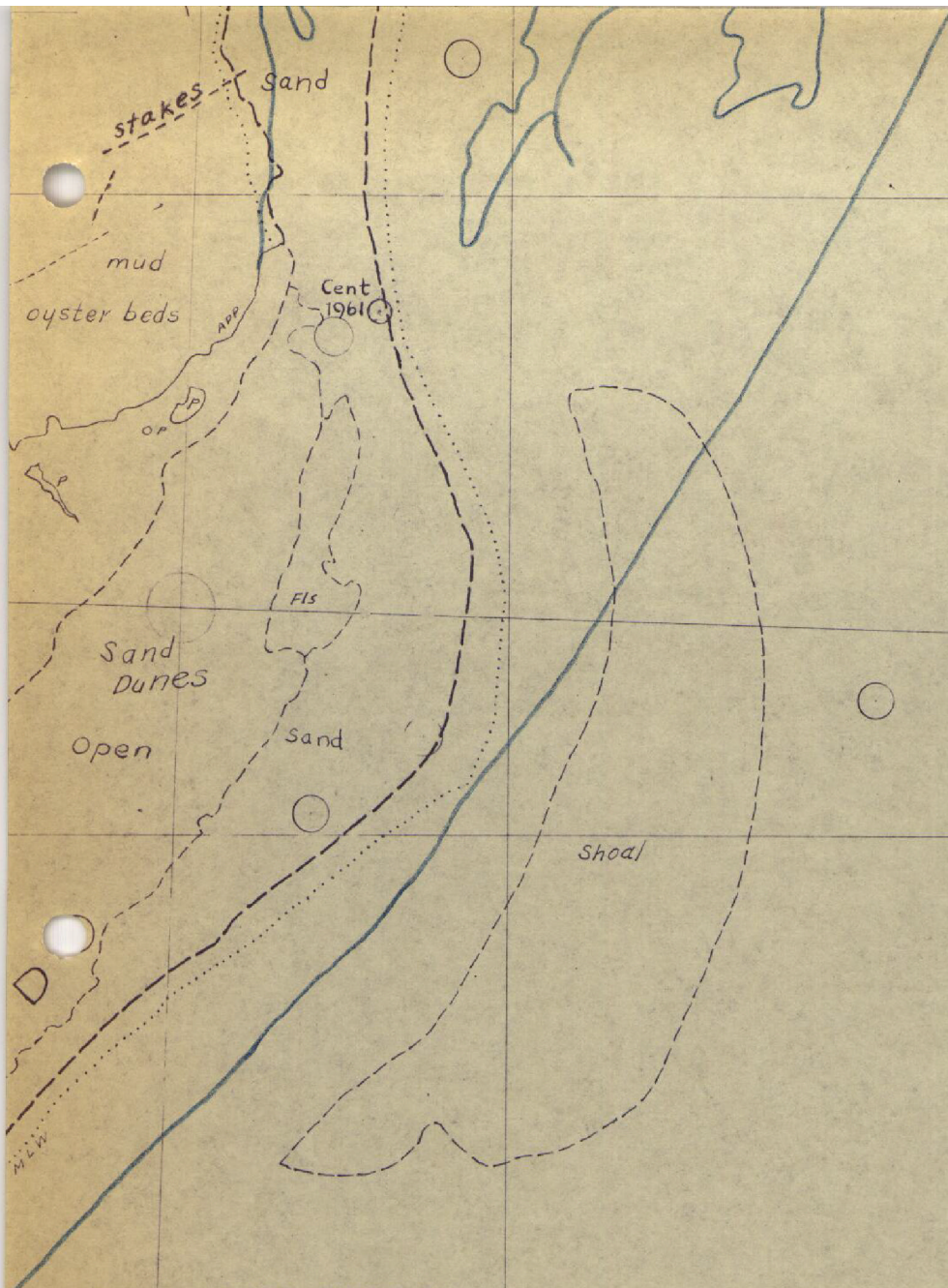
break

62W3935

stakes

62W3896

T-11696
1:10,000



75° 43'

37° 21'

COMPARISON PRINT

Blue = T-8179 & USGS

20° 30'

MHWL is TAMPA OFFICE
retation from April 1962 photographs

T-11696
1:10,000