

# T-11705



T-11705

T-11705

Form 504 U. S. DEPARTMENT OF COMMERCE COAST AND GEODETIC SURVEY  <b>DESCRIPTIVE REPORT</b>	
Type of Survey	SHORELINE
Field No.	Office No. T-11705
<b>LOCALITY</b> State VIRGINIA General locality CAPE HENRY Locality BROAD BAY	
<u>1962 - 1963</u>	
<b>CHIEF OF PARTY</b> Ray M. Sundean, Chief of Field Party V. Ralph Sobieralski, Tampa District Officer	
<b>LIBRARY &amp; ARCHIVES</b>	
DATE _____	

## DESCRIPTIVE REPORT - DATA RECORD

T - 11705

PROJECT NO. (II):

PH-6209

FIELD OFFICE (II):

Bayside, Virginia

CHIEF OF PARTY

R. M. Sundean

PHOTOGRAMMETRIC OFFICE (III):

Tampa, Florida

OFFICER-IN-CHARGE

V. Ralph Sobieralski

INSTRUCTIONS DATED (II) (III):

Field - September 12, 1962  
 Supplement 1, Field - October 16, 1962  
 Office - October 30, 1962

METHOD OF COMPILATION (III):

Kelsh plotter

MANUSCRIPT SCALE (III):

1:10,000

STEREOSCOPIC PLOTTING INSTRUMENT SCALE (III):

1:6,000

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

~~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):

CAPE HENRY LIGHTHOUSE, 1882

LAT.:

36°55'34.335" (1058.4 m.)

LONG.:

76°00'27.216" (673.6m.)

 ADJUSTED UNADJUSTED

PLANE COORDINATES (IV):

y = 225,469.37 Ft.

x = 2,728,490.96 Ft.

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

FIELD INSPECTION BY (II): R. S. Tibbetts		DATE: November 1962
MEAN HIGH WATER LOCATION (III) (STATE DATE AND METHOD OF LOCATION):  Air photo compilation Date of photographs: May 3, 1962  <i>Field Edit Cichy - 1963</i>		
PROJECTION AND GRIDS RULED BY (IV): A.R. (W.O.)		DATE September 1962
PROJECTION AND GRIDS CHECKED BY (IV): L.F.B. (W.O.)		DATE " "
CONTROL PLOTTED BY (III): V. P. Cackowski		DATE January 1963
CONTROL CHECKED BY (III): R. D. Purvis		DATE " "
<del>RADIAL FIELD OF</del> STEREOSCOPIC CONTROL EXTENSION BY (III): W. Heinbaugh (W.O.)		DATE " "
STEREOSCOPIC INSTRUMENT COMPILATION (III):	PLANIMETRY I.I. Saperstein; R.D. Purvis Reviewed: R. E. Smith	DATE " "
	CONTOURS Inapplicable	DATE
MANUSCRIPT DELINEATED BY (III): J. Honick Reviewed by: W. H. Shearouse		DATE " "
SCRIBING BY (III): P. W. Leikhim Reviewed by: W. H. Shearouse		DATE June 1963
PHOTOGRAMMETRIC OFFICE REVIEW BY (III): W. H. Shearouse		DATE July 1963

REMARKS:

DESCRIPTIVE REPORT - DATA RECORD

CAMERA (KIND OR SOURCE) (III):  
Wild single lens "W"

PHOTOGRAPHS (III)

NUMBER	DATE	TIME	SCALE	STAGE OF TIDE
62-W-4036	May 3, 1962	12:30	1:30,000 Dia-	- 0.2 in Broad Bay
" 4037	" " "	"	" positioned	& - 0.2 at Cape Henry

Predicted TIDE (III)

	RATIO OF RANGES	MEAN RANGE	SPRING RANGE
REFERENCE STATION: Hampton Roads		2.5	3.0
SUBORDINATE STATION: Lynnhaven Inlet (R.R. Bridge)	HW - 0.5		
	LW 0.0	2.0	2.4
SUBORDINATE STATION: Cape Henry	HW + 0.3		
	LW 0.0	2.8	3.4

WASHINGTON OFFICE REVIEW BY (IV): W.H.Shearouse (Tampa District Office) DATE: December 1963

PROOF EDIT BY (IV): DATE:

NUMBER OF TRIANGULATION STATIONS SEARCHED FOR (II): 3\* RECOVERED: 3 IDENTIFIED: 3

NUMBER OF BM(S) SEARCHED FOR (II): 0 RECOVERED: IDENTIFIED:

NUMBER OF RECOVERABLE PHOTO STATIONS ESTABLISHED (III): 0

NUMBER OF TEMPORARY PHOTO HYDRO STATIONS ESTABLISHED (III): 0

REMARKS:  
  
\* No Form 526 submitted for station CAPE HENRY WEATHER BUREAU SIGNAL MAST 1939.

COMPILATION RECORD

COMPLETION DATE

REMARKS

COMPILATION RECORD	COMPLETION DATE	REMARKS
Compiled	January 1963	superseded
Alongshore area revised from field edit. Manuscript complete	May 1963	

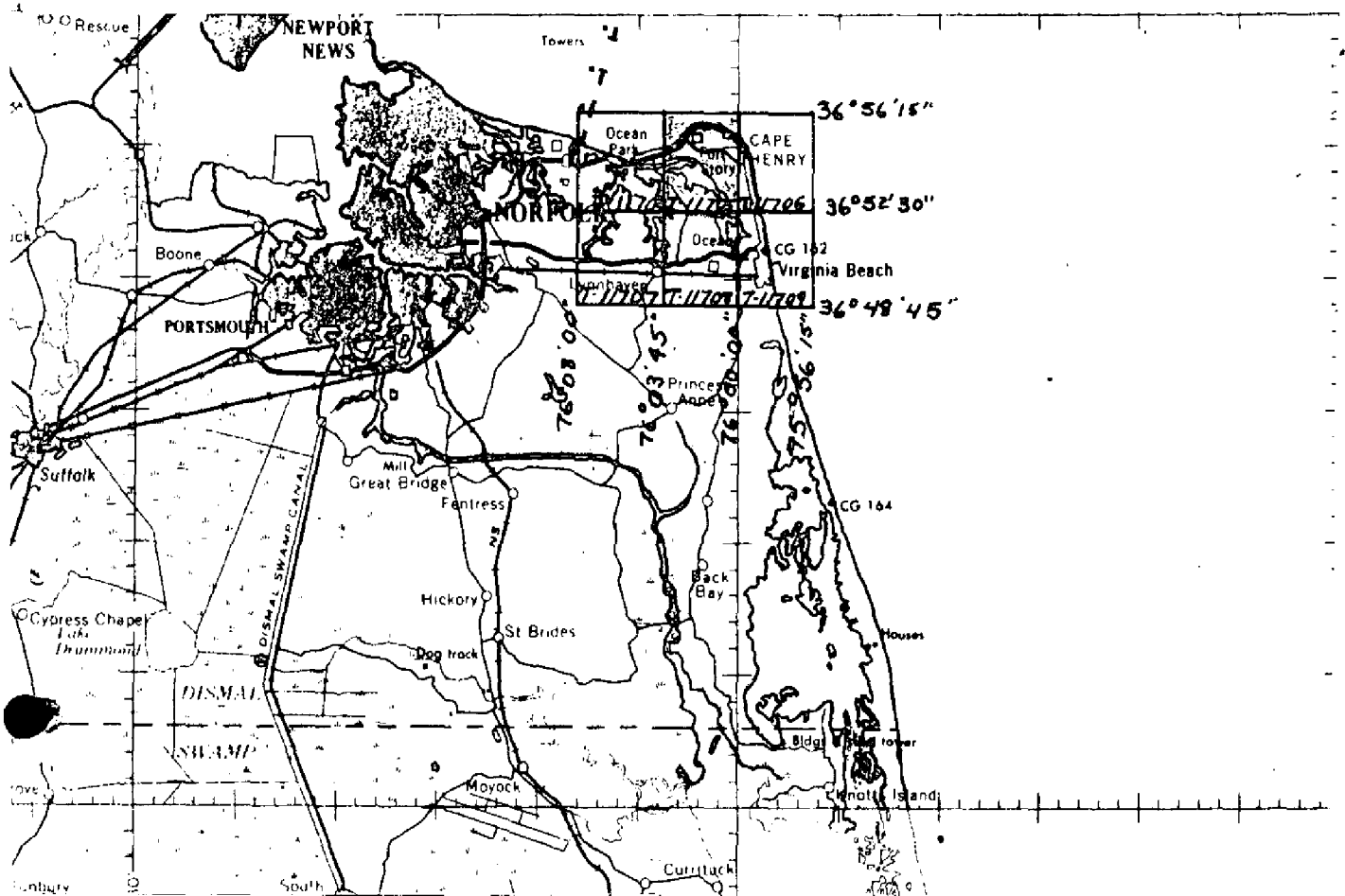
# PROJECT PH-6209

LYNNHAVEN BAY VA.

SHORELINE MAPPING

SCALE 1:10,000

SHEET NO.	LINEAR MILES SHORELINE	AREA SQ. MILES
11704	18	5
11705	13	6
11706	4	15
11707	10	14
11708	5	14
11709	6	6



SUMMARY TO ACCOMPANY  
DESCRIPTIVE REPORT T-11705

Shoreline map T-11705 is one of six similar maps in project 21051 (Ph-6209) and is the center one of three maps forming the northern tier. It covers most of the shoreline of Cape Henry, Virginia at the entrance to Chesapeake Bay. This is a Kelsh project in advance of hydrographic surveys which are being made in the same area. The field operations preceding compilation included field inspection and recovery and identification of horizontal control and landmarks. The Kelsh compilation was at a scale of 1:10,000 from which a film negative showing shoreline and alongshore features was furnished for preparation of the hydrographer's boat sheet. 1:30,000 scale single lens contact photographs, taken May 3, 1962, were used for compilation. Ratio (1:10,000) scale photographs were subsequently provided for field edit and hydro support purposes. The manuscript is a vinylite sheet 3 3/4' in latitude by 3 3/4' in longitude which was scribed and reproduced on cronaflex following photogrammetric office review. One cronar positive and one cronar film negative of the final reviewed manuscript was provided for record and registry.

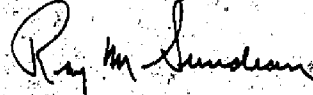
7

- 14 -

FIELD INSPECTION REPORT  
T-11705

For all data pertaining to this sheet  
please refer to the Field Inspection Report  
for T-11704.

Respectfully Submitted:



LT Ray M. Sundean  
Chief of Party



MAP T. 11705 PROJECT NO. PH-6209 SCALE OF MAP 1:10,000 SCALE FACTOR

STATION	SOURCE OF INFORMATION (INDEX)	DATUM	LATITUDE OR $\psi$ -COORDINATE LONGITUDE OR $\chi$ -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)		FORWARD	(BACK)	FORWARD	(BACK)
CAPE HENRY LIGHTHOUSE 1882	P.C. Pg 18	NA 1927	225, 469.37 FT								
"	G.P.'s Pg 44	"	2, 728, 490.96 FT					1058.4			
			76 00 27.216					673.6			
CAPE HENRY LIGHTHOUSE (OLD) 1869	P.C. Pg 76	"	225, 259.60 FT.								
			2, 728, 228.46 FT.								
"	G.P.'s Pg 292	"	36 55 32.330					996.6			
			76 00 30.516					755.3			
CAPE HENRY WEATHER BUREAU SIGNAL MAST, 1939	P.C. Pg. 76	"	226, 672.84 FT.								
			2, 727, 244.01 FT.								
"	G.P.'s Pg. 296	"	36 55 46.556					1435.1			
			76 00 42.177					1043.8			

## COMPILATION REPORT T-11705

The Photogrammetric Plot Report is bound with T-11704.

31. DELINEATION

The Kelsh plotter was used.

The field inspection was generally adequate. The diapositives 62-W-4036 and 62-W-4037 were not of usual standard. Delineation of the high-water line, especially in some marsh areas, was made more difficult by the relatively dark and grayish diapositives. Delineation was checked by viewing the cronapaque ratio prints on the light table.

No roads were shown in accordance with the layout submitted by the Washington Office showing limits of delineation. Notation on layout states "This area has been revised by the Chart Division for a new chart by updating quadrangles (1952-1954) with 1960-1962 photographs. Compile back to red line (i.e. 1/2" or so) only, for tie purposes."

32. CONTROL

See Photogrammetric Plot Report.

33. SUPPLEMENTAL DATA

None.

34. CONTOURS AND DRAINAGE

Inapplicable.

35. SHORELINE AND ALONGSHORE DETAILS

The shoreline inspection was generally adequate and delineation was done accordingly. The mean high-water line at Cape Henry was not inspected due to construction (see addendum to Field Inspection Report) but was delineated nevertheless. No definite berm could be seen and this coupled with the construction noted calls for shoreline location by the field editor.

The low-water and shallow lines were delineated by office interpretation of the photographs. All alongshore details, such as piers indicated by the field inspection, have been shown.

36. OFFSHORE DETAILS

None.

37. LANDMARKS AND AIDS

Six landmarks are recommended for charting and one for deletion. All are reported on form 567. One aid to navigation is reported on Form 567.

There are five nonfloating aids noted by the field inspector, one of which was pricked direct but could not be seen by the compiler. Theodolite cuts were furnished from photo points for the other four but acceptable intersections could not be obtained. Location of these aids has been referred to the field editor.

38. CONTROL FOR FUTURE SURVEYS

No control was established, but numerous shoreline pass points were located by the Kelsh plotter as an aid to the photo-hydro support party.

39. JUNCTIONS

Junctions have been made with T-11704 to the west, T-11706 to the east and T-11708 to the south. Project limits to the north.

40. HORIZONTAL AND VERTICAL ACCURACY

No statement.

46. COMPARISON WITH EXISTING MAPS

Comparison has been made with USGS CAPE HENRY quadrangle, scale 1:24,000, edition of 1955. The comparison is generally favorable.

47. COMPARISON WITH NAUTICAL CHARTS

Comparison has been made with chart 481, scale 1:20,000, 11th edition, December 3, 1962 and chart 1222, scale 1:80,000, 19th edition, December 25, 1961 revised July 16, 1962. The charts appear to be in good agreement with the manuscript.

ITEMS TO BE APPLIED TO NAUTICAL CHARTS IMMEDIATELY

None.

ITEMS TO BE CARRIED FORWARD

None.

*Irving I. Saperstein*  
Irving I. Saperstein  
Cartographer (Photo)

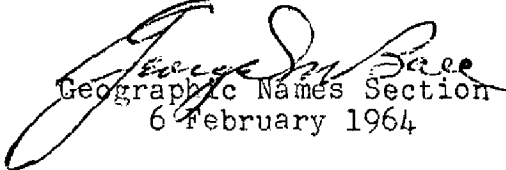
APPROVED AND FORWARDED 25 JUL 1963

*V. Ralph Sobieralski*  
V. Ralph Sobieralski  
Tampa District Officer

T-11705

48. Geographic Names List

Broad Bay  
Broad Bay (settlement)  
Broad Bay Colony  
Cape Henry  
Dey Cove  
Hog Pen Neck  
Linkhorn Bay  
Long Creek  
Mill Dam Creek  
Rainey Cut  
The Narrows  
White Hill  
White Hill Lake

  
Geographic Names Section  
6 February 1964

49. NOTES FOR THE HYDROGRAPHER

Numerous shoreline pass points were located by the Kelsh plotter as an aid to the photo-hydro support party.

Broad and Linkhorn Bays Daybeacon 4A was not in place at time of field edit. Further investigation should be made by the hydrographer.



**NONNAVIGATIONAL LANDMARKS FOR CHARTS**

TO BE CHARTED  
TO BE REVISED  
TO BE DELETED

STRIKE OUT TWO

January 21 19 63

Tampa District Office

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

I. I. Saperstein

V. Ralph Seideralecki

Chief of Party

CHARTING NAME	STATE	DESCRIPTION	SIGNAL NAME	POSITION				METHOD OF LOCATION AND SURVEY NO.	DATE OF LOCATION	HARBOR CHART	INSHORE CHART	OFFSHORE CHART	CHARTS AFFECTED	
				LATITUDE*		LONGITUDE*								DATUM
				D. M. METERS	D. P. METERS	D. M. METERS	D. P. METERS							
TOWER (Aband LB)	VIRGINIA	(CAPS HENRY LIGHTHOUSE, OLD, ht = 95(135))		36 55	32 330 956.6	76 00	30.516 755.3	N.A. 1927	Triang. P-11705	Sept. 21 1962	X	X	481 1222, 1227	
SIGNAL TOWER		(CAPS HENRY WEATHER BUREAU SIGNAL EAST 1939) ht=75(91)		36 55	16.556 1135.1	76 00	12.177 1043.8	"	"	"	X	X	"	
TANK		Wood ht=51(91)		36 54	15.12 1391	76 03	05.05 125	"	Photo Plot P-11705	Sept. 19 1962	X	X	"	
TANK		Wood ht=64(98)		36 55	04.15 128	76 02	44.84 1110	"	"	"	X	X	"	
TANK		Steel ht=99(119)		36 55	32.44 1000	76 01	0.24 6	"	"	Sept. 20 1962	X	X	"	
TOWER		Steel ht=82(102)		36 55	19.44 1524	76 01	53.21 1317	"	"	Sept. 21 1962	X	X	"	

This form shall be prepared in accordance with Hydrographic Manual, Publication 20.2, Sec. 1-55, 2-39, 6-36, 7-18 to 22 inclusive, and Fig. 79. 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



U.S. DEPARTMENT OF COMMERCE  
COAST AND GEODETIC SURVEY

Photogrammetric Review

**NONFLOATING AIDS OR LANDMARKS FOR CHARTS**

~~ADDITIONAL CHARTS~~  
NO. BE REVISED  
TO BE DELETED

STRIKE OUT TWO

September

27

19 62

I recommend that the following objects which ~~have~~ *(have not)* been inspected from seaward to determine their value as landmarks be ~~deleted~~ *(deleted from)* the charts indicated.

The positions given have been checked after listing by Dale H. Fuller

Lt. Ray M. Sundeen

Chief of Party.

CHARTING NAME	STATE	DESCRIPTION	SIGNAL NAME	POSITION				METHOD OF LOCATION AND SURVEY NO.	DATE OF LOCATION	HARBOR CHART	INSHORE CHART	OFFSHORE CHART	CHARTS AFFECTED
				LATITUDE*		LONGITUDE*							
				D. M. METERS	° / ' "	D. M. METERS	° / ' "						
TOWER	Virginia	(Fort Story) the tower has been destroyed		36 55.4	76 02.5		71705	Photo	9-30-62	X		1222 1227 48	

This form shall be prepared in accordance with Hydrographic Manual, Publication 20.2, Sec. 1-55, 2-39, 6-36, 7-18 to 22 inclusive, and Fig. 79. 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.

FORM 182  
(8-61)

**PHOTOGRAMMETRIC OFFICE REVIEW**  
T-11705

U.S. DEPARTMENT OF COMMERCE  
COAST AND GEODETIC SURVEY

50.

1. PROJECTION AND GRIDS WHS		2. TITLE WHS		4a Classification label <u>unclassified</u>		3. MANUSCRIPT NUMBERS WHS	4. MANUSCRIPT SIZE WHS
CONTROL STATIONS	5. HORIZONTAL CONTROL STATIONS OF THIRD-ORDER OR HIGHER ACCURACY WHS			6. RECOVERABLE HORIZONTAL STATIONS OF LESS THAN THIRD-ORDER ACCURACY (TOPOGRAPHIC STATIONS) WHS			
	7. PHOTO HYDRO STATIONS XX		8. BENCH MARKS XX		9. PLOTTING OF SEXTANT FIXES XX		10. PHOTOGRAMMETRIC PLOT REPORT Bridge (W.O.)
	11. DETAIL POINTS Kelsh (I.I.S.)						
ALONGSHORE AREAS (Nautical Chart Data)	12. SHORELINE WHS		13. LOW-WATER LINE XX		14. ROCKS, SHOALS, ETC. WHS		15. BRIDGES XX
	16. AIDS TO NAVIGATION XX		17. LANDMARKS WHS			18. OTHER ALONGSHORE PHYSICAL FEATURES WHS	
	19. OTHER ALONGSHORE CULTURAL FEATURES WHS						
PHYSICAL FEATURES	20. WATER FEATURES WHS				21. NATURAL GROUND COVER WHS		
	22. PLANETABLE CONTOURS XX				23. STEREOSCOPIC INSTRUMENT CONTOURS XX		
	24. CONTOURS IN GENERAL XX				25. SPOT ELEVATIONS XX		
	26. OTHER PHYSICAL FEATURES WHS						
CULTURAL FEATURES	27. ROADS XX		28. BUILDINGS WHS			29. RAILROADS XX	
	30. OTHER CULTURAL FEATURES WHS						
BOUNDARIES	31. BOUNDARY LINES XX				32. PUBLIC LAND LINES XX		
MISCELLANEOUS	33. GEOGRAPHIC NAMES WHS				34. JUNCTIONS WHS		
	35. LEGIBILITY OF THE MANUSCRIPT WHS		36. DISCREPANCY OVERLAY XX		37. DESCRIPTIVE REPORT WHS		
	38. FIELD INSPECTION PHOTOGRAPHS WHS				39. FORMS WHS		
	SIGNATURE OF REVIEWER <i>William H. Shearouse</i> William H. Shearouse				SIGNATURE OF SUPERVISOR, REVIEW STATION OR UNIT <i>Milton M. Slavney</i> Milton M. Slavney		
40. FIELD COMPLETION ADDITIONS AND CORRECTIONS TO THE MANUSCRIPT - Additions and corrections furnished by the field completion survey have been applied to the manuscript. The manuscript is now complete except as noted in remarks on reverse side.							
SIGNATURE OF COMPILER <i>William H. Shearouse</i>				SIGNATURE OF SUPERVISOR <i>M. M. Slavney</i>			

USE REVERSE SIDE FOR REMARKS

Photogrammetric Review Branch

**NONFLOATING AIDS OR LANDMARKS FOR CHARTS**

TO BE CHARTED  
~~TO BE REVISED~~  
~~10/04 06/04/69~~ } STRIKE OUT TWO

Tampa District Office May 16 1963

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

The positions given have been checked after listing by

R. R. Wagner

V. Ralph S. Sieralski Chief of Party.

CHARTING NAME	STATE	DESCRIPTION	SIGNAL NAME	POSITION				METHOD OF LOCATION AND SURVEY NO.	DATE OF LOCATION	HARBOR CHART	INSHORE CHART	OFFSHORE CHART	CHARTS AFFECTED
				LATITUDE*	LONGITUDE*		DATUM						
				° ' "	° ' "	"	"						
	VIRGINIA												
		CHESAPEAKE BAY											
		LYNNEHAVEN ROADS											
		BROAD and LINKHORN BAYS											
DAYBN 2				36 54	07.01 216	76 03	36.35 900	N.A. 1927	5/4/63	X		481	
DAYBN 4				36 54	01.49 46	76 02	47.02 1164	"	"	X		"	
DAYBN 4A		Not in place May 1963											
DAYBN 5				36 53	33.61 1036	76 01	19.47 482	"	"	X		"	
DAYBN 6				36 53	32.76 1010	76 01	19.79 490	"	"	X		"	
DAYBN 8				36 53	29.72 516	76 01	13.57 336	"	"	X		"	
DAYBN 10				36 53	26.28 810	76 01	08.84 219	"	"	X		"	
DAYBN 11				36 53	23.23 716	76 01	04.85 120	"	"	X		"	
DAYBN 12				36 53	22.68 699	76 01	05.73 142	"	"	X		"	
DAYBN		(Not numbered)		36 53	13.98 431	76 00	54.92 1360	"	"	X		"	
<b>Note: All are private maintained.</b>													

This form shall be prepared in accordance with Hydrographic Manual, Publication 20.2, Sec. 1-55, 2-39, 6-36, 7-18 to 22 inclusive, and Fig. 79. 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

Field Edit Report, T-11705

No Field Edit Report has been received.

Questions referred to the field editor on the FIELD EDIT DIS-CREPANCY PRINT were satisfactorily resolved and are thus explained:

1. Reference Item 35. The mean high-water line on north shore of Cape Henry (Chesapeake Bay) was determined by reference measurements adequately spaced by the field editor to assure reasonably accurate delineation.

2. Aids to navigation (see Item 37) in Broad and Linkhorn Bays were located by the field editor by fixes and cuts. A satisfactory position has been established for each of them excepting Daybeacon 4A which was not in place at time of field edit. Its' location will have to be determined by the hydrographer.

Form 567 for aids located by the field editor was submitted under date of May 16, 1963.

Tampa

TIDE COU TATION

PROJECT NO. Ph- 6209 T. 11705

spring 3.4

Time and date of exposure 1230 May 3 1962

Reference station Hampton Roads

Mean range 2.8

Date of field inspection

Subordinate station Cape Henry

Ratio of ranges HW +0.3 LW 0.0

High tide	Time		Height of ranges	Height feet	High tide at Ref. Sta.	Time		Low tide at Ref. Sta.	Time
	h.	m.				h.	m.		
High tide	07	28	3.5	2.8	08	20	14	25	
Low tide	13	10	-0.4	-0.4	-	52	-	15	
Duration of rise or fall	5 42		3.5		Corrected time at Subordinate station		13 10		

Time H. T. or L. T. Required time Interval	h. m.	Height feet	Height x Ratio of ranges	feet	Feature bares	Stage of tide above MLW	Feature above MLW	Corrected time at Subordinate station	Photo. No.
Time H. T. or L. T. Required time Interval	13 10 12 30 40	Ht. <del>H. T.</del> or L. T. Tabular correction Stage of tide above MLW		-0.4 0.2 -0.2	Feature bares Stage of tide above MLW Feature above MLW				62-W-40 37
Time H. T. or L. T. Required time Interval		Ht. H. T. or L. T. Tabular correction Stage of tide above MLW			Feature bares Stage of tide above MLW Feature above MLW				
Time H. T. or L. T. Required time Interval		Ht. H. T. or L. T. Tabular correction Stage of tide above MLW			Feature bares Stage of tide above MLW Feature above MLW				
Time H. T. or L. T. Required time Interval		Ht. H. T. or L. T. Tabular correction Stage of tide above MLW			Feature bares Stage of tide above MLW Feature above MLW				
Time H. T. or L. T. Required time Interval		Ht. H. T. or L. T. Tabular correction Stage of tide above MLW			Feature bares Stage of tide above MLW Feature above MLW				

M-2617-12

Computed by M. Saperstein Checked by W. H. S. Hearouse

REVIEW REPORT T-11705  
SHORELINE  
JANUARY 6, 1964

61. GENERAL STATEMENT

See summary accompanying Descriptive Report.

62. COMPARISON WITH REGISTERED TOPOGRAPHIC SURVEYS

T-8301                      1:20,000                      1944

This map superseded the above prior survey for nautical chart construction.

63. COMPARISON WITH MAPS OF OTHER AGENCIES

U.S.G.S. quadrangle CAPE HENRY      1:24,000                      1955

Significant canals dredged in Carter Point - Broad Bay Colony area for real estate development project.

64. COMPARISON WITH CONTEMPORARY HYDROGRAPHIC SURVEYS

Comparison was made with a copy of boat sheet No. H-8724 dated 10-01-62. This boat sheet does not cover the Chesapeake Bay shoreline of Cape Henry. That hydrographic survey is not available for comparison.

Comparison in the Broad and Linkhorn Bay areas revealed that the following corrections should be applied to the boat sheet.

1. Shoreline correction on north side of The Narrows caused by field edit revision.
2. Shoreline correction at latitude  $36^{\circ}53.6'$ , longitude  $76^{\circ}02.5'$ .
3. Small island omitted in Linkhorn Bay at approximate latitude  $36^{\circ}53.2'$ , longitude  $76^{\circ}00.9'$  and on which hydro station TAB is located.
4. Shoreline correction at latitude  $36^{\circ}53.2'$ , longitude  $76^{\circ}00.6'$ .
5. All piers are omitted from boat sheet.

65. COMPARISON WITH NAUTICAL CHARTS

Comparison was made with chart 481, scale 1:20,000, 11th edition, revised to July 22, 1963.

General configuration of shoreline is in good agreement.

Cape Henry shoreline of Chesapeake Bay requires minor revision of charted MHWL.

Landmark TOWER, presently charted at approximate latitude  $36^{\circ}55.4'$ , longitude  $76^{\circ}02.5'$  should be deleted. Form 567 for deletion was submitted by LT Ray M. Sundean under date of September 27, 1962. A copy is a part of this descriptive report.

Small piers on chart at approximate latitude  $36^{\circ}53.7'$ , longitude  $76^{\circ}02.6'$  and latitude  $36^{\circ}53.6'$ , longitude  $76^{\circ}02.55'$ , in Dey Cove, and in Mill Dam Creek at approximate latitude  $36^{\circ}53.5'$ , longitude  $76^{\circ}02.4'$ , are not visible on photographs 62-W-4036, 4037, 4038 or 4053. They are not on the manuscript.

Photographs 62-W-4036, 4037, 4053 and 4054 were examined for piers shown on the chart in the north part of Linkhorn Bay in the vicinity of latitude  $36^{\circ}53.4'$ , longitude  $76^{\circ}01.2'$ . They are not visible on the photographs.

Chart 481 lacks about .3 mile covering the area of this manuscript on the south. This section was compared with 1:80,000 scale chart No. 1227, 6th edition, revised 08-06-62.

66. ADEQUACY OF RESULTS AND FUTURE SURVEYS

This survey complies with instructions and meets the National Standards of Map Accuracy.

Reviewed by:

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