

# T-11706

✓  
Original

T-11706

T-11706

<b>Form 504</b> U. S. DEPARTMENT OF COMMERCE COAST AND GEODETIC SURVEY	
<b>DESCRIPTIVE REPORT</b>	
<i>Type of Survey</i> SHORELINE	
<i>Field No.</i>	<i>Office No.</i> T-11706
<b>LOCALITY</b>	
<i>State</i>	VIRGINIA
<i>General locality</i>	CAPE HENRY
<i>Locality</i>	NORTH VIRGINIA BEACH
<u>1962 - 1963</u>	
<b>CHIEF OF PARTY</b> Ray M. Sundean, Chief of Field Party V. R. Sobieralski, Tampa District Officer	
<b>LIBRARY &amp; ARCHIVES</b>	
<b>DATE</b>	

USCOMM-OC 5087

DESCRIPTIVE REPORT - DATA RECORD

T - 11706

PROJECT NO. (II): PH-6209		
FIELD OFFICE (III): Bayside, Virginia		CHIEF OF PARTY Ray M. Sundean
PHOTOGRAMMETRIC OFFICE (III): Tampa District Office, Tampa, Fla.		OFFICER-IN-CHARGE V. Ralph Sobieralski
INSTRUCTIONS DATED (II) (III):  Field - Sept. 12, 1962 Supplement 1, Field - Oct. 16, 1962 Office - Oct. 30, 1962		
METHOD OF COMPILATION (III): Kelsh plotter		
MANUSCRIPT SCALE (III): 1:10,000	STEREOSCOPIC PLOTTING INSTRUMENT SCALE (III): 1:4,000	
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 <del>MEAN SEA LEVEL</del> 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): PARCEL C TOWER A (USE) 1939		
LAT.: ✓ ✓ ✓ 36°53'35.785"(1103.1 m)	LONG.: ✓ ✓ ✓ 75°59'18.153"(449.5 m)	<input checked="" type="checkbox"/> ADJUSTED <input type="checkbox"/> UNADJUSTED
PLANE COORDINATES (IV):  Y = 213,632.98 FT. ✓      X = 2,734,415.74 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): <p style="text-align: center;">R. S. Tibbetts</p>		DATE: <p style="text-align: center;">Nov. 1962</p>
MEAN HIGH WATER LOCATION (III) (STATE DATE AND METHOD OF LOCATION): <p style="text-align: center;">Air photo compilation Date of photographs: Mar. 24, 1962 and May 3, 1962</p> <p style="text-align: center;"><i>Field Edit Cichy 1963</i></p>		
PROJECTION AND GRIDS RULED BY (IV): <p style="text-align: center;">A. Riley (W.O.)</p>		DATE <p style="text-align: center;">Sept. 1962</p>
PROJECTION AND GRIDS CHECKED BY (IV): <p style="text-align: center;">L.F. Beugnet (W.O.)</p>		DATE <p style="text-align: center;">Sept. 1962</p>
CONTROL PLOTTED BY (III): <p style="text-align: center;">V.P. Cackowski</p>		DATE <p style="text-align: center;">Jan. 1963</p>
CONTROL CHECKED BY (III): <p style="text-align: center;">R.D. Purvis</p>		DATE <p style="text-align: center;">Jan. 1963</p>
RADIAL PLOT OR STEREOSCOPIC CONTROL EXTENSION BY (III): <p style="text-align: center;">W. Heinbaugh (W.O.)</p>		DATE <p style="text-align: center;">Jan. 1963</p>
STEREOSCOPIC INSTRUMENT COMPILATION (III): <p style="text-align: center;">R.E. Smith</p>	PLANIMETRY R.E. Smith Reviewed: R.D. Purvis	DATE <p style="text-align: center;">Feb. 1963</p>
	CONTOURS <p style="text-align: center;">Inapplicable</p>	DATE
MANUSCRIPT DELINEATED BY (III): R.E. Smith Reviewed by: R.R. Wagner		DATE <p style="text-align: center;">Feb. 1963</p>
SCRIBING BY (III): P.W. Leikhim Reviewed By: W.H. Shearouse		DATE <p style="text-align: center;">May 1963</p>
PHOTOGRAMMETRIC OFFICE REVIEW BY (III): <p style="text-align: center;">W.H. Shearouse</p>		DATE <p style="text-align: center;">June 1963</p>
REMARKS:		

DESCRIPTIVE REPORT - DATA RECORD

CAMERA (KIND OR SOURCE) (III):

Wild single lens W camera and S camera

PHOTOGRAPHS (III)

NUMBER	DATE	TIME	SCALE	STAGE OF TIDE
62-S-3255	3/24/62	11:42	1:20,000	Diaposi-
3256	"	"	"	tives
3257	"	11:43	"	"
3258	"	"	"	"
62-W-4035	5/3/62	12:30	1:30,000	"
4036	"	"	"	"

Predicted TIDE (III)

	RATIO OF RANGES	MEAN RANGE	SPRING RANGE
REFERENCE STATION: Hampton Roads	-	2.5	3.0
SUBORDINATE STATION:			
SUBORDINATE STATION: Cape Henry	H.W. +0.3 L.W. 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): 2

RECOVERED: 1

IDENTIFIED: 1

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

RECOVERED: 0

IDENTIFIED: 0

NUMBER OF RECOVERABLE PHOTO STATIONS ESTABLISHED (III): 0

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

REMARKS:

COMPILATION RECORD

COMPLETION DATE

REMARKS

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

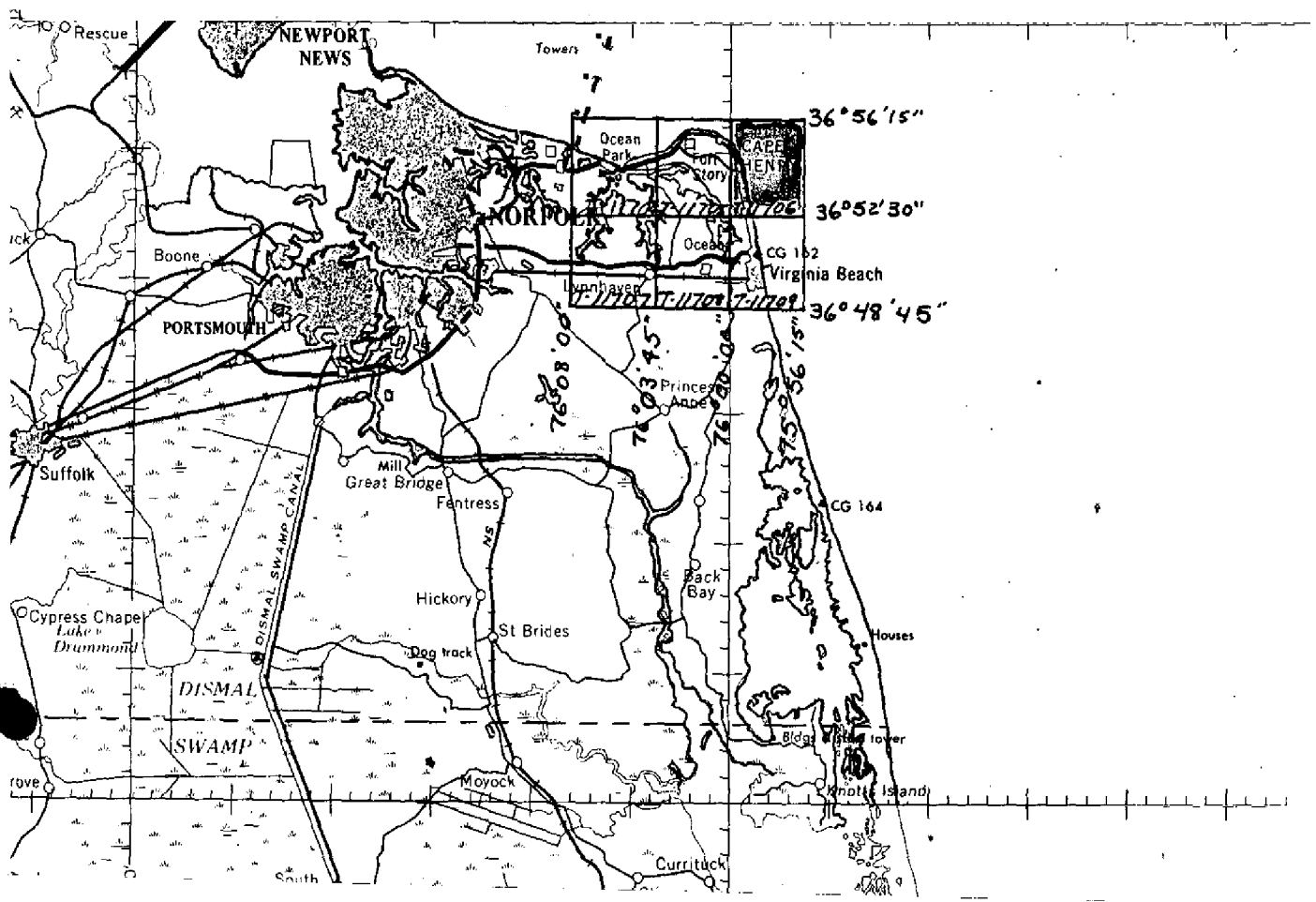
# PROJECT PH-6209

## 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	35
11707	10	14
11708	5	14
11709	6	6



SUMMARY TO ACCOMPANY  
DESCRIPTIVE REPORT T-11706

Shoreline map T-11706 is one of six similar maps in project 21051 (PH-6209) and is the northeasterly map in the project. It covers the Atlantic Ocean shoreline southward from the Cape Henry entrance to Chesapeake Bay in the immediate vicinity of North Virginia Beach. 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. 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. 1:20,000 scale single lens photographs, taken March 24, 1962, supplemented by 1:30,000 scale single lens, 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  $3 \frac{3}{4}$ ' in latitude by  $3 \frac{3}{4}$ ' 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 are provided for record and registry.

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FIELD INSPECTION REPORT  
T-11706

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



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

MAP T. 11706 PROJECT NO. P.S. 6209 SCALE OF MAP 1:10000 SCALE FACTOR 1

STATION	SOURCE OF INFORMATION (INDEX)	DATUM	LATITUDE OR y-COORDINATE LONGITUDE OR x-COORDINATE	DISTANCE FROM GRID IN FEET. OR PROJECTION LINE IN METERS FORWARD (BACK)	DATUM CORRECTION	N.A. 1927 - DATUM		FACTOR DISTANCE FROM GRID OR PROJECTION LINE IN METERS
						FROM GRID OR PROJECTION LINE FORWARD (BACK)	DISTANCE IN METERS FORWARD (BACK)	
Parcel C TOWER A (USE) 1939 ✓	G.P. pg. 295	N.A. 1927	36° 53' 35.785" N 75° 59' 18.153" W			1103.1	✓	
"	P.C. pg. 226	"	213,632.98 ✓ 2,734,415.74 ✓			449.5	✓	

COMPILATION REPORT  
T-11706

The Photogrammetric Plot Report is bound with T-11704

31. DELINEATION

The Kelsh plotter was used.

The field inspection was generally adequate.

See Item 35.

32. CONTROL

See bridge report.

33. SUPPLEMENTAL DATA

None.

34. CONTOURS AND DRAINAGE

Inapplicable.

35. SHORELINE AND ALONGSHORE DETAILS

The Atlantic Ocean shoreline has been delineated from office interpretation and referred to the field editor for verification. The field inspection was not used because the reference measurements to the high water line did not come near checking the line as delineated by the field inspector.

No low water line was shown.

All alongshore details such as piers have been shown.

36. OFFSHORE DETAILS

None.

37. LANDMARKS AND AIDS

None.

38. CONTROL FOR FUTURE SURVEYS

No control was established but shoreline pass points have been located on the manuscript as an aid to the photo-hydro support party.

39. JUNCTIONS

Junction has been made with T-11705 to the west and T-11709 to the south. Project limits are to the north and east, these being open water.

40. HORIZONTAL AND VERTICAL ACCURACY

No statement.

46. COMPARISON WITH EXISTING MAPS

Comparison has been made with USGS quadrangle CAPE HENRY, scale 1:24,000 edition of 1955. The two appear in good agreement.

47. COMPARISON WITH NAUTICAL CHARTS

Comparison has been made with chart 1222 scale 1:80,000, 18th edition, July 1961. The two appear to be in good agreement.

ITEMS TO BE APPLIED TO NAUTICAL CHARTS IMMEDIATELY

None.

ITEMS TO BE CARRIED FORWARD

None.

*R. E. Smith*  
R. E. Smith  
Carto Photo Aid

APPROVED AND FORWARDED, 25 JUL 1963

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

T-11706

48. Geographic Names List

Crystal Lake  
North Virginia Beach

*George M. Bee*  
Geographic Names Section  
6 February 1964

49. NOTES FOR THE HYDROGRAPHER

None.

1. PROJECTION AND GRIDS RRW	2. TITLE RRW	3. MANUSCRIPT NUMBERS RRW	4. MANUSCRIPT SIZE RRW
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CONTROL STATIONS	5. HORIZONTAL CONTROL STATIONS OF THIRD-ORDER OR HIGHER ACCURACY RRW		6. RECOVERABLE HORIZONTAL STATIONS OF LESS THAN THIRD-ORDER ACCURACY (TOPOGRAPHIC STATIONS) XX	
	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 (R.E.S.)			

ALONGSHORE AREAS (Nautical Chart Data)	12. SHORELINE RRW	13. LOW-WATER LINE XX	14. ROCKS, SHOALS, ETC. XX	15. BRIDGES XX
	16. AIDS TO NAVIGATION XX		17. LANDMARKS XX	18. OTHER ALONGSHORE PHYSICAL FEATURES RRW
	19. OTHER ALONGSHORE CULTURAL FEATURES RRW			

PHYSICAL FEATURES	20. WATER FEATURES XX		21. NATURAL GROUND COVER XX	
	22. PLANETABLE CONTOURS XX		23. STEREOSCOPIC INSTRUMENT CONTOURS XX	
	24. CONTOURS IN GENERAL XX		25. SPOT ELEVATIONS XX	
	26. OTHER PHYSICAL FEATURES RRW			

CULTURAL FEATURES	27. ROADS XX	28. BUILDINGS XX	29. RAILROADS XX
	30. OTHER CULTURAL FEATURES XX		

BOUNDARIES	31. BOUNDARY LINES XX	32. PUBLIC LAND LINES XX
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MISCELLANEOUS	33. GEOGRAPHIC NAMES RRW		34. JUNCTIONS RRW
	35. LEGIBILITY OF THE MANUSCRIPT RRW	36. DISCREPANCY OVERLAY XX	37. DESCRIPTIVE REPORT WHS
	38. FIELD INSPECTION PHOTOGRAPHS RRW		39. FORMS RRW
	SIGNATURE OF COMPILER <i>Robert R. Wagner</i> Robert R. Wagner		SIGNATURE OF SUPERVISOR, REVIEW SECTION OR UNIT <i>Milton M. Slattery</i> Milton M. Slattery

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>Robert R. Wagner</i>	SIGNATURE OF SUPERVISOR <i>M. M. Slattery</i>
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Field Edit Report, T-11706

No Field Edit Report has been received.

Questions referred to the field editor were satisfactorily answered. The Atlantic Ocean mean high-water line, originally delineated from office interpretation of the photographs (see Item 35), was corrected by the field editor by measurements from identifiable photo points. It has been shown accordingly.

Tampa

REVIEW REPORT T-11706  
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 supersedes the listed prior survey for nautical chart construction.

63. COMPARISON WITH MAPS OF OTHER AGENCIES

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

64. COMPARISON WITH CONTEMPORARY HYDROGRAPHIC SURVEYS

The hydrographic survey of the Atlantic Ocean area was not available for comparison.

Boat sheet H-8724 covers Crystal Lake. A copy was used for comparison. Agreement is very good except that no piers are shown on the boat sheet.

65. COMPARISON WITH NAUTICAL CHARTS

Compared with chart 1222, scale 1:80,000, 20th edition, revised to 09-2-63. ⑩

General agreement between the chart and the manuscript is good. One difference worthy of note is the canal which has been dredged just north of Crystal Lake. It does not appear on the chart.

66. ADEQUACY OF RESULTS AND FUTURE SURVEYS

These surveys comply with instructions and meet the National Standards of Map Accuracy.

Future surveys should investigate the limits of the canal referred to under item 65 for further dredging in the area.



Reviewed by:

William H. Shearouse  
William H. Shearouse

Approved by: 22 APR 1964

J. Ralph Sobieralski  
Tampa District Officer

Approved by:

Charles Thomas  
Chief, Cartographic Branch

L. E. Woodcock  
Chief, Photogrammetry Division

Chief, Chart Division

