[-11709

Forms 504

U. S. DEPARTMENT OF COMMERCE
COAST AND GEODÉTIC SURVEY

DESCRIPTIVE REPORT

Type of S	urvey SHORELINE
Field No	Office No. T-11709
, , , , , , , , , , , , , , , , , , , ,	LOCALITY
State	VIRGINIA
	cality CAPE HENRY
	VIRGINIA BEACH
	1962 - 196:3
	CHIEF OF PARTY
	Sundean, Chief of Field Party ralski, Tampa District Officer
	LIBRARY & ARCHIVES

USCOMM-DC 5087

FORM C&GS-1810 (12-61)

U.S. DEPARTMENT OF COMMERCE COAST AND GEODETIC SURVEY

DESCRIPTIVE	REPORT - DATA	A RECORD	
	T -11709		
PROJECT NO. (11):			
PH-6209			
FIELD OFFICE (II):		CHIEF OF PARTY	
Bayside, Virginia		Ray M. Sundea	n
PHOTOGRAMMETRIC OFFICE (III):		OFFICER-IN-CHARGE	
Tampa, Florida		V.Ralph Sobie	ralski
Supplement 1 " Oct. 16 Office - Oct. 36	5, 1962		
METHOD OF COMPILATION (III): Kelsh plott MANUSCRIPT SCALE (III): 1:10,000		DPIC PLOTTING INSTRU	MENT SCALE (III):
DATE RECEIVED IN WASHINGTON OFFICE (IV):	DATE REP	DRTED TO NAUTICAL C	HART BRANCH (IV):
APPLIED TO CHART NO.	DATE:	. DA	TE REGISTERED (IV):
GEOGRAPHIC DATUM (III): N.A. 1927			CEPT AS FOLLOWS: 5) refer to mean high water) refer to sounding datum
REFERENCE STATION (III): DECCA 1955			
36°49'15.562"(479.7 m) 75°58'06.119)"(151.7 m)		
PLANE COORDINATES (IV):		STATE	ZONE
= 187,481.78 FT. x= 2,740,970.	.90 FT.	Virginia	South
ROMAN NUMERALS INDICATE WHETHER THE ITEM IS TO BE OR (IV) WASHINGTON OFFICE. WHEN ENTERING NAMES OF PERSONNEL ON THIS RECORD			

USCOMM-DC 16276A-P61

FORM C&G\$-1816 U.S. DEPARTMENT OF COMMERCE COAST AND GEODETIC SURVEY **DESCRIPTIVE REPORT - DATA RECORD** FIELD INSPECTION BY (II): DATE: R. S. Tibbetts Nov. 1962 MEAN HIGH WATER LOCATION (III) (STATE DATE AND METHOD OF LOCATION): Air photo compilation Date of photographs: Sept. 2, 1962 Field Edit Cichy
PROJECTION AND GRIDS RULED BY (IV): 1963 DATE A.R. (W.O.) Sept. 1962 PROJECTION AND GRIDS CHECKED BY (IV): DATE tt L. F. B. (W.O.) CONTROL PLOTTED BY (III): DATE V. P. Cackowski Jan. 1963 CONTROL CHECKED BY (III): DATE R. D. Purvis 11 11 DATE RADIAL PLOT OR STEREOSCOPIC CONTROL EXTENSION BY (III): W. Heinbaugh (W.O.) STEREOSCOPIC INSTRUMENT COMPILATION (III): PLANIMETRY I. I. Saperstein DATE Reviewed R. E. Smith Feb. 1963 CONTOURS DATE Inapplicable MANUSCRIPT DELINEATED BY (III): I. I. Saperstein
Reviewed by: W. H. Shearouse DATE Feb. 1963 SCRIBING BY (III): DATE P. W. Leikhim June 1963 Reviewed by: W. H. Shearouse PHOTOGRAMMETRIC OFFICE REVIEW BY (III): DATE July 1963 W. H. Shearouse

.

REMARKS:

FORM C&GS-181e

U.S. DEPARTMENT OF COMMERCE COAST AND GEODETIC SURVEY

DESCRIPTIVE REPORT - DATA RECORD

CAMERA (KIND OR SOURCE) (III):

Wild single lens "S" and "W"

W:	ild single len	ıs "S" and "V]11			
	РНО	TOGRAPHS (III)				
NUMBER	DATE	TIME	SCALE	s.	TAGE OF TI	DE
62-S-3258 thru 326 "" 1255A 62-W-4055	2 3/24/62 9/2/62 5/3/62	11:44 08:44 12:30	1:20,000Dia- 1:30, positiv		+ 2.1 =2.0 -0.2	
	Predict	ed TIDE (III)	<u>-</u>	L		
	-104100	.cu		RATIO OF RANGES	MEAN RANGE	SPRING RANGE
REFERENCE STATION: Hampto	on Roads			_	2.5	3.0
UBORDINATE STATION: Ca	ape Henry		H.W. L.W.	+0.3 0.0	2.8	3.4
SUBORDINATE STATION:						
WASHINGTON OFFICE REVIEW BY	(IV): W.H.Shearou	se (Tampa Dis	trict Office)	DATE: Dec	ember 1	963
PROOF EDIT BY (IV):				DATE:		
NUMBER OF TRIANGULATION STA	TIONS SEARCHED FOR	(ii): 10*	RECOVERED: 6*	IDENTIFIE	• o : 6	-
NUMBER OF BM(S) SEARCHED FOR	t (n):	6	RECOVERED: 4	IDENTIFIE	ED ,4	

NUMBER OF RECOVERABLE PHOTO STATIONS ESTABLISHED (III): []

NUMBER OF TEMPORARY PHOTO HYDRO STATIONS ESTABLISHED (III):

REMARKS:

No form 526 submitted for HOLLIES TOWER A (USE) 1925 and VIRGINIA BEACH, MAYFLOWER APT. BLDG. EAST and WEST LIGHTS, 1953

* 5. **

Compiled February 1963 superseded

Alongshore area revised from field edit.
Compilation complete May 1963

. .

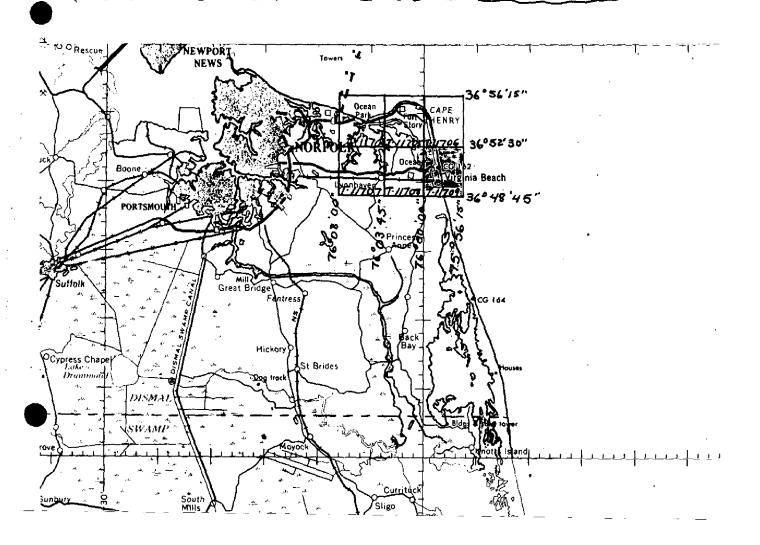
;

PROJECT PH-6209

LYNNHAVEN BAY VA.

SHORELINE MAPPING SCALE /:/0,000

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



SUMMARY TO ACCOMPANY DESCRIPTIVE REPORT T-11709

Shoreline map T-11709 is one of six similar maps in project 21051 (PH-6209) and is the southeasterly map in the project. It covers the easterly extremity of Linkhorn Bay and the Atlantic Ocean shoreline in the vicinity of Virginia Beach, Virginia, including Rudee Inlet. This is a Kelsh project in advance of hydrographic surveys which are being made in the same area. Field operations preceding compilation included field inspection, recovery and identification of horizontal control, and identification of topographic stations and landmarks for charts. Kelsh compilation was at a scale of 1:10,000, from 1:30,000 scale single lens photographs taken in May and September 1962 and 1:20,000 scale single lens photographs taken in March 1962. A film negative was made and furnished for preparation of the hydrographer's boat sheet. Ratio (1:10,000 scale) photographs were subsequently provided for field edit and hydro support purposes. The compilation manuscript is a vinylite sheet 3 3/45 in latitude by 3 3/41 in longitude which was scribed and reproduced on cronaflex following photogrammetric office review. One each, cronar film positive and negative, are provided for record and registry.

FIELD INSPECTION REPORT IS BOUND WITH REPORT FOR T-11704

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

2 2

FORM **164** (4-23-54)

FACTOR DISTANCE FROM GRID OR PROJECTION LINE IN METERS COMM- DC- 57843 (BACK) FORWARD SCALE FACTOR DISTANCE FROM GRID OR PROJECTION LINE IN METERS (BACK) N.A. 1927-DATUM 985.8 258.4 49.8 1355,6 4 151.7 582.8 FORWARD 1167.9 1360.9 1192. 479. 186.3 803. DATUM CORRECTION SCALE OF MAP 1:10,000 OR PROJECTION LINE IN METERS DISTANCE FROM GRID IN FEET. (BACK) FORWARD PROJECT NO. PH 6 VO? 15.567 LONGITUDE OR x-COORDINATE 31,980 23.523 LATITUDE OR U-COORDINATE 26.063 611.90 43.975 52.1 44.149 48.139 47.147 410.20 08.38 737, 234, 95 473.88 607.32 07. 2, 735, 962.04 039,32 16:39 202, 394.36 204,831.66 2, 737, 154.83 202,414.11 2,740,970.90 187, 481, 78 () () 36 49 75 58 Ŋ 8) (2) 25 \tilde{S} 7 5 63 75 59. 58 2,734, 56 9 z 206 735 3 30 75 75 36 N DATUM . ×.A. • . . 1927 = = • = = = = : SOURCE OF INFORMATION 855 428 A P. 260 P. 294 P. 824 (INDEX) p. 241 P.C. P. 110 P. 247 p. 262 P.824 p. 73 a; B 4.P. ن <u>د</u> a S G. P. <u>ن</u> د 9.5 Q Q P.C. d.b Q Virginia Beach, May-flower Apartment Biely cast Hight 1953 Virginia Beach Mun-icipal Water Tank, Virginia Beach, May-MAP T- // 709 Bldg, west fight 1953 (U.S.E.) 1925 Hollies Tower A Cavalia Hotel, 1929 1 FT.= .3048006 METER STATION 1955 1953 = • Cupola ٤. • Decca

8

DATE 2-28-63

CHECKED BY 11 Saparatera

2-28-63

DATE.

COMPUTED BY IN H. Shearouse

COMPILATION REPORT T-11709

The Photogrammetric plot report is bound with T-11704.

31. DELINEATION

The Kelsh plotter was used. The field inspection was fair, although there was no shoreline inspection south of Rudee Inlet.

All details have been compiled south of Lat. 36050'15" in accordance with the layout submitted by the Washington Office.

32. CONTROL

See bridge report.

33. SUPPLEMENTAL DATA

None.

34. CONTOURS AND DRAINAGE

Inapplicable.

35. SHORELINE AND ALONGSHORE DETAILS

All but the north 300 meters of the Atlantic Coast shoreline was taken from the September 1962 photographs. All the interior shoreline and details were taken from the March 1962 photography. There was no shoreline inspection south of Rudee Inlet.

A check of the entire MHWL has been requested of the field editor.

All piers have been shown as indicated by the field inspection. Some additional piers seen on the photographs were also delineated.

36. OFFSHORE DETAILS

None.

37. LANDMARKS AND AIDS

Five landmarks have been reported for charting and are listed on Form 567. There are no aids.

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

Junction has been made with T-11706 to the north and T-11708 to the west. There is no survey to the south and water to the east.

40. HORIZONTAL AND VERTICAL ACCURACY

No statement.

46. COMPARISON WITH EXISTING MAPS

Comparison has been made with USGS "VIRGINIA BEACH" quadrangle 1:24,000 edition of 1955. The manuscript appears to be in good agreement with the quadrangle except for a new pier about 75 meters north of Rudee Inlet.

47. COMPARISON WITH NAUTICAL CHARTS

Comparison has been made with Chart 1222, 1:80,000, 19th Edition Dec. 25, 1961 revised June 16, 1962. The major change is Rudee Inlet which has been cut through at Lat. 36^O49.8[†]. The wreck shown on the chart at approximate Lat. 36^O50.2[†] Long. 75^O58.2[†] could not be seen on the photographs and should be investigated by the hydrographer.

ITEMS TO BE APPLIED TO NAUTICAL CHARTS IMMEDIATELY

None.

ITEMS TO BE CARRIED FORWARD

None.

hving Japustu. I. I. Saperstein Cartographer

APPROVED AND FORWARDED: 26 JUL 1953

Color Sobieralski
V. Radph Sobieralski**
Tampa District Officer

48. Geographic Names List

Bird Neck Point
Lake Christine
Lake Holly
Lake Rudee
Lake Wesley
Lakeview
Linkhorn Bay
Owl Creek
Rudee Inlet
Seatack
Virginia Beach Virginia Beach

eographic 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.

The wreck shown on Chart 1222 at approximate Lat. 36°50.2', Long. 75°58.2' could not be seen on the photographs. Its' existence should be investigated.

	FORM 182		РНОТО	GRAMMETRIC OFF T- 1170		Ü.:	S. DEPARTMENT COAST AND GEC	
_	. T. PROJECTION	AND 2 TITLE					3. MANUSCRIPT	4. MANUSCRIPT
	GRIDS	VHS WHS	la Classifia		ssified		NUMBERS WHS	size WHS
	CONTROL	5. HORIZONTAL CONT OR HIGHER ACCUR.	ROL STATIO	() () () 	6. RECOVERABLE THIRD-ORDER		TAL STATIONS O	
	STATIONS	7. photo hydro sta XX		NCH MARKS WHS	9. PLOTTING OF S	SEXTANT	10. PHOTOGR PLOT REP BRIDGE	PORT
		11. DETAIL POINTS KELSH (II	IS)	. , -	_,,			
	·	12. SHORELINE	13. LO	W-WATER LINE	14. ROCKS, SHOAL	S, ETC.	15. BRIDGES	
	ALONGSHORE AREAS	WHS	X	X	WHS	•	xx	
	(Nautical Chart Data)	16. AIDS TO NAVIGATI XX	ON	17. LANDMARKS WHS		18. OTHE FEAT WHS	R ALONGSHORE URES	PHYSICAL
		19. OTHER ALONGSHO	RE CULTURA	L FEATURES	,			
		20. WATER FEATURES		- <u>-</u>	21. NATURAL GRO	UND COVE	IR	
	Shiveren	WHS			WHS			
_	PHYSICAL FEATURES	22. PLANETABLE CON XX	TOUR\$		23. STEREOSCOPIO	INSTRUM	ENT CONTOUR	5
Ų	,	24. CONTOURS IN GEN	ERAL		25. SPOT ELEVATI	ONS		
		хх			хх			
		26. OTHER PHYSICAL I	EATURES					
ļ		27. ROADS		28. BUILDINGS		29. RAIL	ROADS	
	CULTURAL FEATURES	WHS		WHS	; 		XX	
		30. OTHER CULTURAL WHS						
		31. BOUNDARY LINES	<u> </u>	·	32. PUBLIC LAND	LINES		
	BOUNDARIES	ХХ			xx			
		33. GEOGRAPHIC NAMI				34. JUNC	TIONS	
ļ	MISCEL- LANEOUS	WHS				WHS		
	, • •	35,LEGIBILITY OF THE WHS	MANUSCRIPT	36. discrepancy o	VERLAY		RIPTIVE REPOR JHS	τ
	'a '	38. FIELD INSPECTION	PHOTOGRAI	PHS	39. FORMS WHS		4	
		SIGNATURE OF REVIE William W. William H.	Shearou Shearou	se	Milton M.	Slavne	REVIEW SECTION	OR UNIT
	40. FIELD COM pletion sur	PLETION ADDITIONS AN	ID CORRECT	IONS TO THE MANUSC	RIPT-Additions and ot is now complete of	correction	ns furfished by	the field com- on reverse side.
	SIGNATURE OF	COMPILER PLANE	Wagner		Milton II.	lavney	undy	
•				VERSE SIDE FOR REM	IARKS		USCON	IM-DC 25353-P61

Field Edit Report, T-11709

No Field Edit Report has been received.

The shoreline was corrected with field reference measurements as requested (See Item 35).

One landmark was reported by the Field Editor. It was added to the 5 under Item 37 and was submitted to the Washington Office under date of May 16, 1963.

U.S. DEPARTMENT OF COMMERCE

COAST AND GEODETIC SURVEY

MONTH OF THE WAR THE TANDWARKS FOR CHARTS

TO BE CHARTED TO BE REWISED TO BE REWISED TO BE REWISED

STRIKE OUT TWO

PHOTOGRAMMETRIC REVIEW BRANCH

C&GS FORM 567

The positions given have been checked after listing by

charted on (date) sales (the charts indicated.

Tampa District Office, Tampa, Fla

1963

I recommend that the following objects which targe (have not) been inspected from seaward to determine their value as landmarks be

I. I. Saperstein

1222,1221 CHARTS AFFECTED £ Chief of Party. THAND MICHET CHART INPHOSE CHARL H M ĸ × Ħ K TRANS ROBEAN Triang.Sept.19, T-11709 1962 Triang Sept. 25, T-11709 1962 V. Relph Soblereleki Sept. 26, 1962 May 2, 1963 LOCATION F1000 7-11709 LOCATION AND BURVEY Plot . . è H.A. DATUM 1927 . . 23.523 582.8 1132.1 1,7.11,7 1167.9 02,012 D.P. METERS 32.25 19.8 36.73 13.24 328 **LONGITUDE** 75 59 **11** S 75 59 钦 8 POSITION κ ኢ κ 0 13.975 31.980 985.8 08.381 258.4 थ्याःमा 1360.9 D.M. METERS 202 26.02 802 21.18 299 LATITUDE 었 쏬 ଝ 36 50 五 38 51 K አ ጸ ቋ ጴ ጸ 0 BIGNAL Apt Apt (Cavalier Hotel, Chpole, 1929) Virginia Beach, Eaglioner (Virginia Beach, Mayflower Bidg., East Light, 1953) bt = 173 (183) Virginia Boach Coest Guard Radio Towar ht = 135 (154)Bldg., West Light, 1953) (Virginia Beach Municipal ht - 130 (142) ht - 153 (163) ht + 173 (183) bt = 138 (158) ht = 188 (198) DESCRIPTION Mater Tent, 1953) At Virginia Beach At Virginia Beach VIRGINIA CHARTING NAME RADIO TOWER (WEGE) C.O. TOMER FL R LIES STATE CUPOLA HOTEL HOTEL TAHK TANK

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 The data should be landmarks and nonfloating aids to navigation, if redetermined, shall be reported on this form. Revisions shall show both the old and new positions. 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 16234-P61

REVIEW REPORT T-11709 SHORELINE JANUARY 6, 1964

61. GENERAL STATEMENT

See Summary accompanying Descriptive Report.

62. COMPARISON WITH REGISTERED TOPOGRAPHIC SURVEYS

T-8299

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. - VIRGINIA BEACH, VA.

1:24,000

1955

64. COMPARISON WITH CONTEMPORARY HYDROGRAPHIC SURVEYS

Comparison was made with a copy of boat sheet H-8724, 1:10,000 scale, dated October 1, 1962.

Due to field edit corrections, shoreline changes along the ocean front north and south of Rudee Inlet were made on the map manuscript. These corrections should be shown on the smooth hydrographic sheet.

65. COMPARISON WITH NAUTICAL CHARTS

Comparison was made with chart 1227, 1:80,000 scale, 6th edition, revised August 6, 1962.

General configuration of the Atlantic Ocean shoreline as well as that of the lakes and Linkham Bay are in fair agreement. Due to the large scale difference accurate comparison of shoreline was not made. However, indentures and coves appear on the manuscript which do not show on the chart. One area at approximate latitude 36°49.6°, longitude 75°59° is being dredged and developed.

Positions of landmarks, TANK, and R. TR. (WBOF) at approximate latitude 36°50.5°, longitude 75°59.5° have been accurately determined. The symbol on the chart is for approximate location.

66. ADEQUACY OF RESULTS AND FUTURE SURVEYS

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

Future surveys should investigate shoreline changes caused by dredging operations in progress in the southwest end of Lake Rudee.

REVIEWED BY:

William H. Shearouse

rram ii. Diloar oabe

2 2 APR 1964

APPROVED BY:

V. Kalth Sobieralski V. Halph Sobieralski

Tampa District Officer

APPROVED BY:

Chief, Cartographic Branch,

Chief, Photogrammetry Division

Chief, Chart Division

TIDE CO UTATION

PROJECT NO. Ph. 6209 T. 11709

Time and date of exposure 1144 Mar 24 1962 Reference station Hampton Roald

Ratio of ranges 414 0,0 Mean range 2.K___

		Time	
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ow tide at Ref. Sta.	``	0	9
lime difference	- /	1	5
Corrected time at Subordinate station	51	48	4

5

High tide at Ref. Sta.

Time difference

Ë Time Ė 0 0

9

Corrected time at Subordinate station

	Ë	Time		Height	Height x Ratio
	ı.	£		feet	of ranges
High tide	01	40	High tide	2,3	3.6
Low tide	15	48	Low tide	0.0	0.0
Duration of rise or fall	γ,	##	Range of tide		3.6

Time H. T. OF-E-F.	년 0	л. 07 Ht H. Т.	feet 2.6	Feature bares	feet	Photo. No.	
			1				
		//// Table Table	Į	O 6 4: 14		, , , , , ,	

	Ę.		feet		feet	Photo. No.
Time H. T. e r L. T . Required time Interval	10 of 1 of 1	Ht. H. T. ext. T. Tabular correction Stage of tide above MLW	20.0%	Feature bares Stage of tide above MLW Feature above MLW		625 3260
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M-2617-12

Computed by Medans 1612 Checked by 1110

NAUTICAL CHART DIVISION

RECORD OF APPLICATION TO CHARTS

FILE WITH DESCRIPTIVE REPORT OF SURVEY NO.

INSTRUCTIONS

A basic hydrographic or topographic survey supersedes all information of like nature on the uncorrected chart.

1. Letter all information.

2. In "Remarks" column cross out words that do not apply.

3. Give reasons for deviations, if any, from recommendations made under "Comparison with Charts" in the Review.

CHART	DATE	CARTOGRAPHER	REMARKS
1222	9/8/70	6. Moure	Full Part Before After Verification Review Inspection Signed Via
			Drawing No. Exam. No Core
12221	10/26/86	John Pierre	Full Part-Before After Verification Review Inspection Signed Via
	70720102	go to take	Drawing No. 85
	<u> </u>		Full Part Before After Verification Review Inspection Signed Via
			Drawing No.
		. 	Full Part Before After Verification Review Inspection Signed Via
			Drawing No.
			Full Part Before After Verification Review Inspection Signed Via Drawing No.
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FORM C&G\$-8352 SUPERSEDES ALL EDITIONS OF FORM C&GS-975.

USCOMM-DC 8558-P63