T-12003

Form 504										
U. S. DEPARTMENT OF COMMERCE										
COAST AND GEODETIC SURVEY										
DESCRIPTIVE REPORT										
Class III MAP										
Type of Survey Shoreline (Photogrammetric)										
Field No. 14-60/3 Office No. T-12003										
Field No. 777 579 Office No. 2012000										
LOCALITY										
ALASKA										
State ALABKA										
General locality Knik Arm										
Locality Mule Creek										
<u> 19_61</u>										
CHIEF OF PARTY										
Portland P. A. Stark, Photogrammetric Office										
1. TO DIAKE, THOTOGRAMMETRIC OFFICE										
LIBRARY & ARCHIVES										
DATE										

A SECOND EDITION OF THIS MAP IS REGISTERED

DESCRIPTIVE REPORT - DATA RECORD

T - 12003

PROJECT NO. (II):							
(emp(PH-6013						
FIELD OFFICE (II):			CHIEF OF PART	Υ			
PHOTOGRAMMETRIC OFFICE (III):			OFFICER-IN-CH	ADGE			
PORTLAND,	OREGON		OF FICER-IN-CH.		A. STARK		
INSTRUCTIONS DATED (II) (III):					THE STARK		
APRIL 1, SEE LETTE	7, 1963, Supplement 1964, Supplement R dated April 14,19 1964, amendment 1,	No. 2	NT No. 2				
METHOD OF COMPILATION (III):							
KELSH INST	RUMENT						
IANUSCRIPT SCALE (III):		STEREOSCO	PIC PLOTTING IN	TRUMENT			
1:10,000				PIRUMENTSCA	ALE (III): 1:8000		
DATE RECEIVED IN WASHINGTON OF	ICE (IV)		APH SCALE:		1:10,000		
Jan. 25, 1980		DATE REPOI	Feb. 1980	AL CHART BRA	NCH (IV):		
APPLIED TO CHART NO.		DATE:	Verification of	DATE REGIS	TERED (IV):		
				JUNE	1980		
GEOGRAPHIC DATUM (III):			VERTICAL DATU		1100		
N.A. 1927			MEAN SEA LEVEL Elevations shown a Elevations shown a i.e., mean low water	as (25) refer to as (5) refer to s	mean high water ounding datum		
LEAN, 1910					9 9183		
LAT.:	LONG.:						
61° 21' 25.750"	149° 53' 26.72	2"	X ADJUSTED UNADJUSTED				
PLANE COORDINATES (IV):			STATE		ZONE		
Y = 2,688,025.61	c= 519,173.43		ALASKA 4				
ROMAN NUMERALS INDICATE WHETHER OR (IV) WASHINGTON OFFICE. WHEN ENTERING NAMES OF PERSONNE				HOTOGRAMME	TRIC OFFICE,		

U.S. DEPARTMENT OF COMMERCE COAST AND GEODETIC SURVEY

DESCRIPTIVE REPORT - DATA RECORD

T-12003.

FIELD INSPECTION BY (II):	
None	
MEAN HIGH WATER LOCATION (III) (STATE DATE AND METHOD OF LOCATION):	
By Kelsh Instrument (8/12/61 Date of photograph	ჟ)
No MLLW line has been compiled on this map.	
PROJECTION AND GRIDS RULED BY (IV):	DATE
A. E. ROUNDTREE	4-20-64
PROJECTION AND GRIDS CHECKED BY (IV):	DATE
C. R. Johnson	4-20-64
CONTROL PLOTTED BY (III):	DATE
D. N. WILLIAMS	5-6-64
	DATE
CONTROL CHECKED BY (III):	1,000
R. H. Meyer	5-6-64
RADIAL PLOT OR STEREOSCOPIC CONTROL EXTENSION BY (III):	DATE - 10/4
J. D. PERROW, JR.	No DATE Feb. 1964
STEREOSCOPIC INSTRUMENT COMPILATION (III): PLANIMETRY	DATE
D. N. WILLAIMS	5-6-64
CONTOURS	DATE
None	
MANUSCRIPT DELINEATED BY (III):	DATE
DRAFTED FOR HYDRO SUPPORT: L. L. GRAVES	5-12-64
SCRIBING BY (III):	DATE
None	
PHOTOGRAMMETRIC OFFICE REVIEW BY (III):	DATE
L. L. GRAVES	5_12_64
REMARKS:	

REMARKS:

U.S. DEPARTMENT OF COMMERCE COAST AND GEODETIC SURVEY

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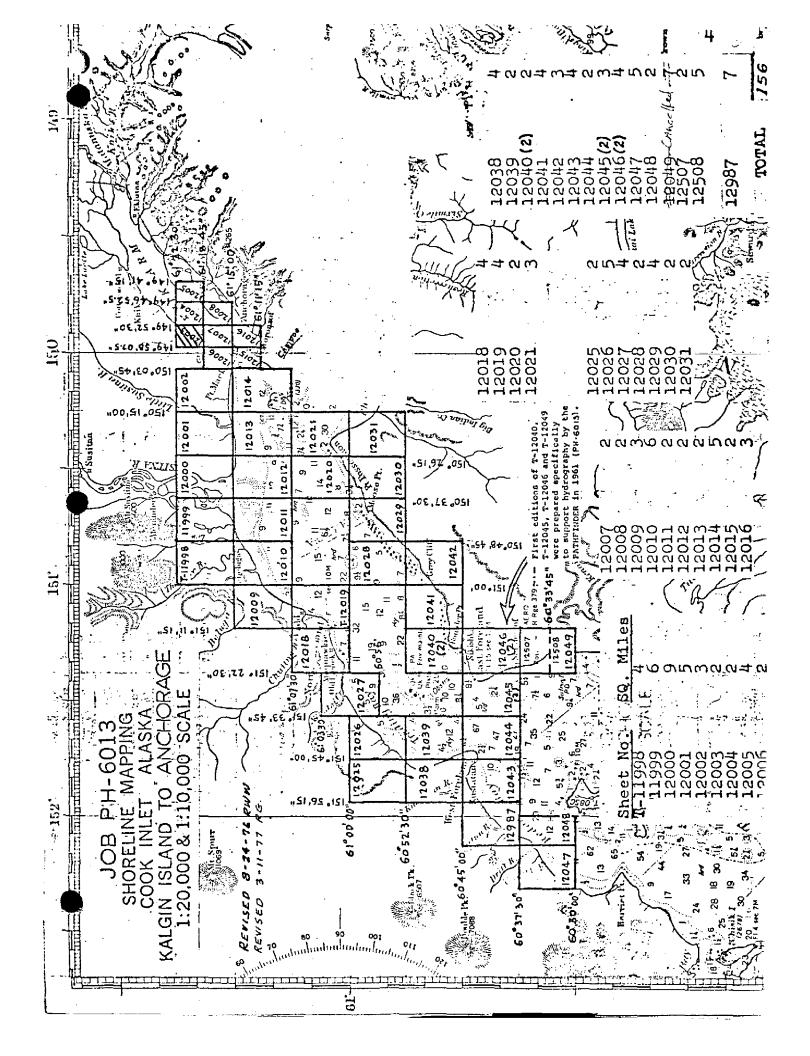
DESCRIPTIVE REPORT - DATA RECORD

T-12003

CAMERA (KIND OR SOURCE) (III):

C&GS SINGLE LENS "M"

	PHO	OTOGRAPHS (III)				
NUMBER	DATE	TIME	SCALE	ST	AGE OF TI	DE
61 M 1373 61 M 1375 61 M 1377	8-12-61	11:40	1:40,000	II .	OVE M.L.	1
				PREDIC	TED TIDE	TABLES
		÷				
		TIDE (III)				
Marine and Frage	Section 1			RATIO OF RANGES	MEAN RANGE	RANGE
REFERENCE STATION: AN	CHORAGE				26.7	29\$6
SUBORDINATE STATION:					- 1	
SUBORDINATE STATION:						
WASHINGTON OFFICE REVIEW BY		Rolle		DATE:	b. 1980	,
PROOF EDIT BY (IV):	E.L.	Rolle		DATE:	eb. 1980	
NUMBER OF TRIANGULATION STA	ATIONS SEARCHED FOR	R (II):	RECOVERED: 2	IDENTIFIE	2	
NUMBER OF BM(S) SEARCHED FO	PR (II):	None	RECOVERED:	IDENTIFIE	ED	
NUMBER OF RECOVERABLE PHO	TO STATIONS ESTABLE	ISHED (III): No NE				
NUMBER OF TEMPORARY PHOTO	HYDRO STATIONS EST	ABLISHED (III):	None			



SUMMARY TO ACCOMPANY DESCRIPTIVE REPORTS

T 12003 Thru T 12008, T 12015 and T 12016

This portion of Project Ph 6013 covers the Knik Arm portion of Cook Inlet, near Anchorage, Alaska from Point Woronzof Northeasterly to Goose Creek including Eagle Bay.

Eight maps T12003-T12008, T12015, T12016 were included in this portion of project Ph 6013 all are at 1:10,000 scale. The purpose of these maps were to provide contemporary Shoreline support of hydrographic operations and to aid in chart revision.

Field work prior to compilation in the 1961 field season consisted of establishing Horizontal Control.

This area was flown in August 1960 with the "W" camera in black and white and in August 1961 with the "M" Camera in black and white at 1:40,000 scale.

Bridging was performed in the Washington Office; T12015, T12016 in January 1963, and T12003-T12008 in February 1964.

The maps were compiled at the Portland office from February 1963 to May 1964.

Field edit was performed for sheets T 12015, T 12016 in August 1963 and applied in October 1963. Limited field edit was performed for T-12004, T12005, and T 12008 in July 1965 but was never applied. Manuscripts T-12003, T12006, T12007 never had any field edit performed. The field edit was considered "cancelled" because of the earthquake on March 27, 1964 affecting all of this Knig-Arm area. This area has been re-mapped as project CM-7310 KNIK-ARM, Anchorage, Alaska.

Final Review was performed at AMC in January, 1979. T 12015 and T12016 were forwarded to the Washington Science Center for final Registration. T12003-T12008 were forwarded to the Washington Science Center to be registered as CLASS III manuscripts. All pertinent data (Archive Material) will remain with Ph 6013 and the completion report will be submitted upon completion of the entire project. See letter dated March 8, 1977 in the back of this Descriptive Report.

FIELD INSPECTION REPORT

MAP MANUSCRIPT T-12003

PROJECT 21035 PH-6013

REFER TO THE FIELD INSPECTION REPORT BY ROBERT E. WILLIAMS FOR PROJECT SP-1-61, 1961, INCLUDED WITH THE DESCRIPTIVE REPORT FOR T-12507.

FIELD INSPECTION REPORT

COOK INLET, ALASKA

PROJECT SP-1-61 1961

USC&GS Ship PATHFINDER

Arthur L. Wardwell, CAPT., Comdg.

MANUSCRIPTS:-

12049, 12046, 12045, 12040, 12031, 12032, 12026, 12027, 12028, 12020, 12021, 12022, 12017, 12015, 12016, 12014, 12013, 12008, 12007, 12006, 12003, 12004, 12005, 12002, 12001, 12000, 12012, 11999, 12011, 11998, 12010, 12039, 12019, 12018, 12023, 12025, 12024, 12029, 12030, 12035, 12034, 12033, 12037, 12036

AERIAL FIELD INSPECTION:-

Areas inspected were as follows: Manuscripts No. 12049, 12046, 12045, 12040, Kenai to Boulder Point, all shoreline and alongshore features. Balance of above listed manuscripts were used only for horizontal control identification.

The area is primarily moderately timbered with spruce, fir, alder and bear claw above the mean high water line. Shoreline varies from fine black silt at the mouth of the Kenai River mouth to large fragmented boulders at Boulder Point. Most of the beachline is sand and shingle interspersed with boulders of varying sizes. Numerous underground springs and some small creeks discharge small quantities of silt and water and are subject to constant change.

The area was inspected by cruising alongshore by launch and by walking the beach and bluff line. Foul areas now indicated on Chart No. 8553 are adequate. Two primary foul areas were noted as follows:

Kenai River Mouth

East Foreland to Moose Point

Quality of photographs was excellent. Areas of shadow were limited to the shoreline east of East Foreland and upper Knik Arm. No attempt was made to sketch in the mean high water line. Enough open areas in shadowed areas are available to adequately delineate mean high water line.

HORIZONTAL CONTROL:-

Four additional second-order triangulation stations were established between Kenai and East Foreland to supplement existing control in the area of hydrography. They were identified as follows:

AUDRY 1961 Manuscript No. 12049 Photo No. 1397 LOUISE 1961 " " 12049 " " 1402 BOO 1961 " " 12045 " " 1420 HELEN 1961 Traverse from East Foreland Light 1960.

* T-12017 Cancelled - Memo dated 3/8/77

Additional horizontal control recovery was made in upper Cook Inlet in accordance with project instructions. All stations were searched for and approximately 75 percent were recovered. Most of the stations not recovered are considered lost. It is recommended that the next vessel assigned to this project be given a Tellurometer. Simple traverse between recovered triangulation stations would adequately control presently un-controlled flight lines.

In many cases the listed triangulation station was not recovered and a U.S. Engineers' triangulation station was used as a substitute. It appears that the U.S. Engineers could not recover listed C&GS control and substituted their own stations.

Great assistance was rendered by the 5040 Air Transport Squadron at Elmendorf AFB in furnishing heliocopter service. Three days of flying enabled personnel to cover shoreline control stations over the greater part of upper Cook Inlet.

If additional control is required in the vicinity of Elmendorf AFB, use can be made of triangulation now being observed by a C&GS geodetic party. Triangulation station DORF 1961 (in the vicinity of LOOP 2) is to be set in the roof of a building on the base. By use of the description written by the observing party, an accurate office identification can be made.

Triangulation not plotted on the Photo Index was identified where it was on photographs. This control was established by G.W.M. in 1959 and H.G.C. in 1960.

VERTICAL CONTROL:-

None recovered or established.

CONTOURS AND DRAINAGE:-

No contouring was attempted.

Primary drainage features are the Kenai, Matanuska, Little Susitna, Susitna, Beluga, Kustitan, and Drift Rivers. Tidal sweep keeps some of the rivers from building up deltaic features. An extremely flat foreshore on the Matanuska, Little Susitna, Susitna and Beluga rivers give rise to wide deltas that change seasonally. Many small streams discharge around Cook Inlet but have no apparent seasonal change.

WOODLAND COVER:-

The major portion of the area is wooded and interspersed with muskeg and open grassy areas. These are easily identifiable on the photographs. In areas of increasing cultural activity, the woodland oover is being removed. No attempt was made to indicate these areas.

SHORELINE AND ALONGSHORE FEATURES:-

The mean high water line is adequately delineated on manuscripts 12049, 12046, 12045, 12040. In the area of photo hydro signals IVY and *** FGG, east of East Foreland, the mean high water line is as follows:

IVY 30 meters inside MW

EGG on piles at MHW

Most of the shoreline signals are located at MHW along the beach. Many of the fishing huts set on piles at the base of the bluff were used as signals.

No attempt was made to delineate the low water line. Hydrography in the area should be satisfactory.

The foreshore area is primarily sand, small stones and boulders. The normal gradiation from stones at MMW to sand at MMW exists in all areas, except south of the Kenai River. In this area a heavy layer of silt is found in the tide zone.

OFFSHORE FEATURES:-

All offshore features are located by the hydrographer.

LANDMARKS AND AIDS:-

There are two fixed aids to navigation within the limits of the hydrographic project:

EAST FORELAND LIGHT

KENAI RIVER ENTRANCE RANGE

Both are located on Chart No. 8553.

One floating aid is also located on Chart No. 8553. Another can buoy is maintained by the oil company and is located just north of the pier.

One landmark for charts is recommended in the Descriptive Report for SP-1-61. This landmark is identified as follows:

KENAI TANK 1959, located by G.W.M. and identified on Photo No. 60/1400.

BOUNDARIES, MONUMENTS AND LINES:-

None shown.

OTHER CONTROL:-

Photo hydro signals were located in accordance with standard instructions. Signal IVY was found in error and relocated photogrammentrically, then verified by hydrographic cuts. Final location is shown on manuscript 12045.

Final location of photo hydro signals will remain in their relative position with the shoreline. Final compilation will cause a datum shift which will move both hydrography and signals the same relative amount.

DATUM DIFFERENCES:-

Radial plotting of photo identified control stations was made in the field. The following discrepancies were noted between plot positions and geographic positions.

EAST FORELAND LIGHT 1960	Lat.	-13.8 meters
	Long.	-75.4 meters
BOULDER (USE)	Lat.	-37.0 meters
•	Long.	-45.2 meters
KENAI CHURCH STEEPLE 1909	Lat.	-15.3 meters
•	Long.	-23.6 meters

CULTURAL FEATURES:-

Numerous fishing shacks are located along high water line in the area of hydrography. These huts are subject to damage by winter storms and are in a constant state of transition. No attempt was made to locate current huts.

The Nikiski Oil Pier was under construction at the time of photography. The completed dimensions are available from a blueprint of the structure submitted with descriptive report for Project SP-1-61.

· Respectfully submitted,

Robert E. Williams, Lieut. Comdr., C&GS

Devald C. Saladin Gerald C. Saladin IIJG, C&GS

Arthur J. Wardwell,

Captain, C&GS

Comdg., Ship PATHFINDER

Cook Inlet, Alaska 21035 PH-6013 Photogrammetric Plot Report

21. Area Covered

This report covers the area to the west and north of Anchorage, Alaska, and includes T-Sheets 12,000 thru 12,008, plus 12.015 and 12,016.

22. Method

Strips #1 and #2 were bridged on the stereoplanigraph and Strip #3 was bridged on the Mann Comparator. All three strips were adjusted by IBM methods. Pass points were drilled on plates by Pug method.

Strip #1 was adjusted on two triangulation stations plus points taken from a previous bridge in the area. Triangulation station Birch (USE) 1941 and its sub-station could not be held in the adjustment. No reason could be determined as to why it could not be held and it was dropped from the bridge. Despite errors of 8 to 9 feet in control the bridge is acceptable.

Strip #2 was adjusted on three triangulation stations with tie points from Strip #3 being used on the eastern end. In no instance could any 3 or more of the stations be held with each other and the results do not meet National Map Accuracy Standards for 1:10,000 scale charting since error of up to 14' in "Y" exist in the final bridge solution.

Strip #3 was adjusted using four control points, plus two pass points from Strip #1. Accuracy of this bridge is good. Tie points between Strips #1, #2 and #3 were meaned.

23. Adequacy of Control

The control recovered, complied with instructions. However, in practically every case the quality of the substations left much to be desired. It is felt that these poor quality images were the cause of many problems during the bridging operations. In the cases of In 8 (BLM) and L-1A (BLM), sub-stations were identified but no azimuth or exact distance was given between the home station and its sub-station. Station Misery 3, SS-1 and SS-2 were very poor image points and could not be positively identified during the bridging. Station Low could be identified on Strip #3 but could not be seen on Strip #1. Station Whitney's sub points were very poor and no positive identification could be made during bridging operations.

24. Supplemental Data

In the cases of Strip #1 and Strip #2 old bridging data was used to help control the adjustments.

25. Photography

Photography in Strips #1, #2 and #3 was adequate in coverage overlap, definition and quality.

26. Recommendations

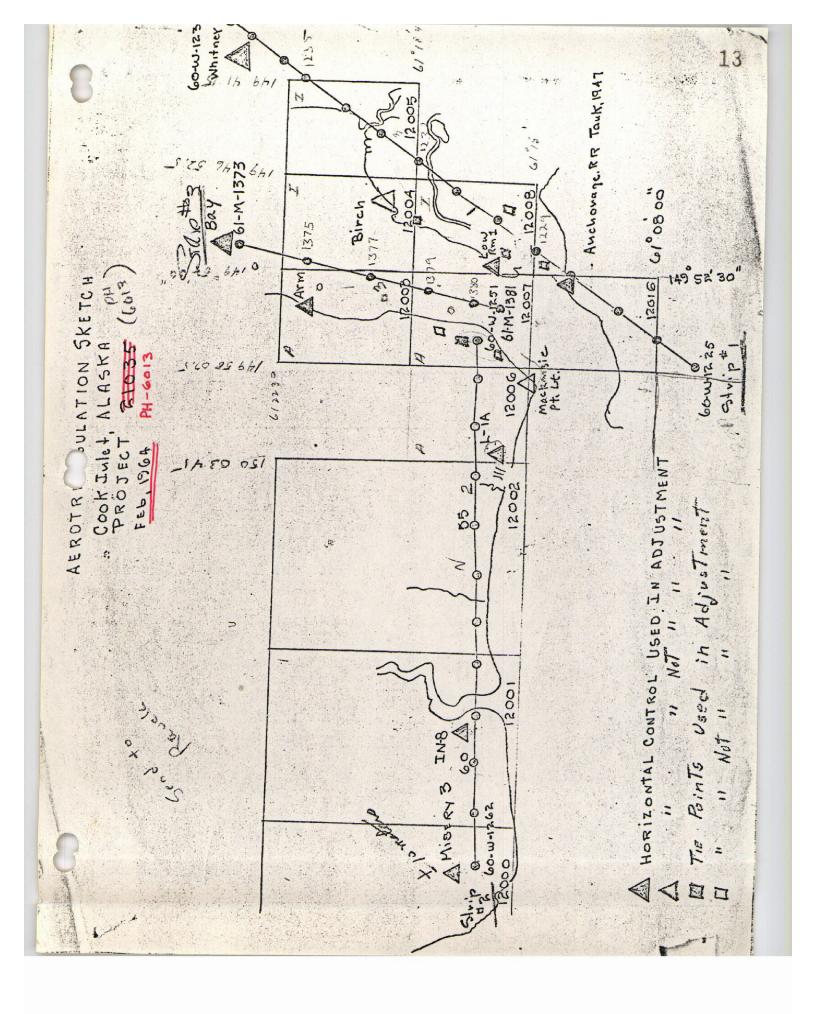
If smooth sheets are required for T-Sheets 12,000, 12,001, 12,002 and 12,006, re-identification of control should be performed and new C&GS control should be provided where doubtful control exists

Submitted by:

John D. Perrow, Jr

Approved by:

forE. H. Ramey



U.S. DEPARTMENT OF COMMERCE COAST AND GEO URVEY FORM C&GS-1 (3-64) USCOMM-DC 6659-P64

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DESCRIPTIVE
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SCALE F	LONGITUDE OR X COORDINATE IN METERS (1 Ft. = 3048006 meter) FORWARD (BACK)	2,689,274.55	519,477.67	2,688,025.61	519,173,43											M. 5-6-64
SCALE OF	DATUM LATITUDE OF	N.A. 2,689,	1927 519,	2,	519.											CHECKED BY R.H.M.
SOURCE OF	INFORMATION (INDEX)	ALASKA 61149	P. 2	ALASKA 61149	P. 8											DATE 5-6-64
	STATION		AMM ZUTH ENG. 1941	1	LEAN 1910										> o dation of	D.N.W.

MAP MANUSCRIPT T-12003

PROJECT 21035 PH-6013

ITEMS 31 THRU 38:

REFER TO THE COMPILATION REPORT FOR T-12507, bound with this Descriptive Report.

39. JUNCTIONS:

SATISFACTORY JUNCTION WAS MADE WITH T-12007 TO THE SOUTH. KNIK ARM IS ON THE EAST. THERE ARE NO CONTEMPORARY SURVEYS TO THE WEST AND NORTH.

- 40. HORIZONTAL AND VERTICAL ACCURACY:

 Horizontal control was adequate in both density and identification.

 Refer to Compilation Report T-12507 bound with this Descriptive Report
- 46. COMPARISON WITH EXISTING MAPS:

Comparison was made with the U.S.G.S. Anchorage (B-8) Alaska Quadrangle, scale 1:63,360, edition 1953.

47. COMPARISON WITH NAUTICAL CHARTS:

Comparison was made with Nautical Chart 8553, scale 1:194,154 at Lat. 61° 00', 5th edition, April 30. 1962.

ITEMS TO BE APPLIED TO NAUTECAL CHARTS IMMEDIATELY:

NONE .

ITEMS TO BE CARRIED FORWARD!

NONE.

APPROVED:

P. A. STARK, CDR, C&GS PORTLAND DISTRICT OFFICER SUBMITTED:

JAMES L. HARRIS CARTOGRAPHER

COMPILATION REPORT Map Manuscript T-12507

Project PH-6013

31. DELINEATION:

The Kelsh stereoscopic Instrument was used for compilation without the benefit of Field Inspection.

32. Control:

Horizontal Control was adequate in both density and Identification.

33. SUPPLEMENTAL DATA:

No supplemental data was furnished for this project.

34. CONTOURS AND DRAINAGE:

Contours are inapplicable. The drainage was compiled without benefit of Field Inspection but with reference to existing nautical charts.

35. SHORELINE AND ALONGSHORE DETAILS:

Shoreline and Alongshore details were compiled without the benefit of field inspection.

36. OFFSHORE DETAILS:

Rocks offshore were office identified stereoscopically.

37. LANDMARKS AND AIDS:

None.

38. CONTROL FOR FUTURE SURVEYS:

None.

48. GEOGRAPHIC NAME LIST:

No geographic names sheet was furnished for this area. The only names shown on this manuscript were obtained from the U.S.G.S. Quadrangle.

GOOSE CREEK KNIK ARM MULE CREEK

49. NOTES FOR THE HYDROGRAPHER:

None.

USCOMM-DC 16282-P61

C&GS FORM 1002	An			U.S. DEPARTMENT OF COMMERCE				
	PHOTOG		RIC OFFICE REVIEW 1808					
1. PROJECTION AND GRIDS	2. TITLE		3. MANUSCRIPT NUMBERS	4. MANUSCRIPT SIZE				
	-							
·	<u> </u>							
CONTROL STATIONS	.=			15				
5. HORIZONTAL CONTROL ST THIRD-ORDER OR HIGHER	ACCURACY 0	Topographic	LE HORIZONTAL STATIONS AN THIRD-ORDER ACCURACY atational	7. PHOTO HYDRO STATIONS				
8. BENCH MARKS	9. PLOTTING OF SE	XTANT	10. PHOTOGRAMMETRIC PLOT REPORT	11. DETAIL POINTS				
None	None	:		None				
ALONGSHORE AREAS (Nautica	l Chart Data)		<u> </u>					
12. SHORELINE	13. LOW-WATER LINE	E	14. ROCKS, SHOALS, ETC.	15. BRIDGES				
	None			None				
16. AIDS TO NAVIGATION	17. LANDMARKS		18. OTHER ALONGSHORE PHYSICAL FEATURES	19. OTHER ALONGSHORE CULTURAL FEATURES				
None	None							
PHYSICAL FEATURES	· · · · · · · · · · · · · · · · · · ·		 					
20. WATER FEATURES	21. 1	NATURAL G	ROUND COVER	22. PLANETABLE CONTOUR				
				Not Applicable				
23. STEREOSCOPIC INSTRUMENT CONTOURS	24. CONTOURS IN G	ENERAL	25. SPOT ELEVATIONS	26. OTHER PHYSICAL FEATURES				
Not Applicable	None		None					
CULTURAL FEATURES								
27. ROADS	28. BUILDINGS		29. RAILROADS	30. OTHER CULTURAL FEATURES				
None	None		None	~				
BOUNDARIES 31. BOUNDARY LINES			122	······································				
None None	ಲ		32. PUBLIC LAND LINES					
MISCELLANEOUS								
33. GEOGRAPHIC NAMES	34.	JUNCTIONS	_	35. LEGIBILITY OF THE				
36. DISCREPANCY OVERLAY	37. DESCRIPTIVE RE	EPORT	38. FIELD INSPECTION	39. FORMS				
V	· ·		PHOTOGRAPHS					
40. REVIEWER	<u> </u>		SUPERVISOR, REVIEW SECT	ION OR UNIT				
L.L. Grave	? . 5		L.F. Beug					
41. REMARKS (See attached she	et)		, ,					
FIELD COMPLETION ADDITIO				- Al				
script is now complete ex	cept as noted under it	em 43.		to the manuscript. The manu-				
COMPILER			SUPERVISOR					
		····	1 					
43. REMARKS								
·								

REVIEW REPORT T - 12003

SHORELINE

January 3 , 1979

61. GENERAL STATEMENT:

See Summary, which is page & of the Descriptive Report.

62. COMPARISON WITH REGISTERED TOPOGRAPHIC SURVEYS:

Not applicable.

63. COMPARISON WITH MAPS OF OTHER AGENCIES:

Not applicable.

64. COMPARISON WITH CONTEMPORARY HYDROGRAPHIC SURVEYS:

A comparison was made with verified copy of H-9439 (1974). As expected, there is a conflict with the MHWL position since this manuscript was compiled prior to the March 1964 earthquake.

65. COMPARISON WITH NAUTICAL CHARTS:

A comparison was made with Chart 16660 scale 1:194,154 19th Ed. September 10/77 and Chart 16664 scale 1:40,000 16th Ed. May 28/77. As expected the position of the MHWL differs since this map was compiled prior to the earthquake of March 1964.

66. ADEQUACY OF RESULTS AND FUTURE SURVEYS:

This map complies with Project instructions, and meets the requirements for Bureau Standards and National Standards of Map Accuracy.

Submitted by:

Jim Byrd

Final Reviewer

Approved for forwarding:

Bold H. Barner Chief Photogrammetric Branch, AMC

Approved:

Chief Photogrammetric Branch

Chief, Coastal Mapping Division

Jim Byed

hotogrammetry



UNITED STATES DEPARTMENT OF COMMERCE National Oceanic and Atmospheric Administration NATIONAL OCEAN SURVEY Rockville, Md. 20852

C3421/W

March 8, 1977

TO:

Chief, Photogrammetric Branch, C342

Rockville, Maryland

Chief, Photogrammetric Branch, CAM52

Norfolk, Virginia-

FROM:

James Collins

Chief, Coastal Mapping Division

SUBJECT: Job PH-6013

Cancel map T-12017. No record of original compilation, if compiled, can be found. Reassign this map to CM-7310 as a first edition.

Cancel map T-12049(2) as this area is covered by larger scale maps.

Complete the final review of maps T-12003, T-12004, T-12005, T-12006, T-12007, T-12008, T-12015, and T-12016 and forward for registration. No chart maintenance prints required.

Retain all Archive material with remainder of the job. Job completion report to be submitted only upon completion of entire project.

CC: C344

C3442 CAM521



