T-12004

Form 504					
U. S. DEPARTMENT OF COMMERCE					
COAST AND GEODETIC SURVEY					
·					
DESCRIPTIVE REPORT					
Class III Map					
Type of Survey Shoreline (Photogrammetric)					
Field No. PH-6013 Office No. T-12004					
Office No.					
LOCALITY					
A					
State ALASKA					
General locality KNIK ARM					
Locality S. OF EAGLE BAY					
Locality					
1960					
CHIEF OF PARTY					
Portland					
P. A. Stark, Photogrammetric Office					
LIBRARY & ARCHIVES					
DATE					

A SECOND EDITION OF THIS MAP IS REGISTERED

U.S. DEPARTMENT OF COMMERCE COAST AND GEODETIC SURVEY

DESCRIPTIVE REPORT - DATA RECORD

T -12004

	ALL CONTROL OF THE PARTY OF THE	1 = 12004					
PROJECT NO. (II):	PH-6013						
FIELD OFFICE (II):	2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2		T				
			CHIEF OF PART	'Y			
PHOTOGRAMMETRIC	OFFICE (III):		OFFICER-IN-CH	ARGE			
PORTLAND, OREGON			P. A. STARK				
INSTRUCTIONS DATE	ED (II) (III):						
	JANUARY 17, 1963 SUPPLEMENT APRIL 1, 1964 SUPPLEMENT SEE LTR. DATED APRIL 14, 196 APRIL 17, 1964 AMENDMENT 1,	r No • 2 64 6320	VT No. 2				
METHOD OF COMPIL	ATION (III)						
	KELSH INSTRUMENT						
IANUSCRIPT SCALE	(III):	STEREOSCO	PIC PLOTTING IN	STRUMENT SCAL	E (III): 4		
	1:10,000		APH Scale: 1:10,00				
DATE RECEIVED IN	WASHINGTON OFFICE (IV):	DATE REPO	RTED TO NAUTIC	AL CHART BRAN	ICH (IV):		
	n. 25,1980		Feb. 198	0			
APPLIED TO CHART	NO.	DATE:		DATE REGIST	ERED (IV):		
				JUNE	1000		
GEOGRAPHIC DATUM	(m):				1780		
			VERTICAL DATU				
	N.A. 1927		MEAN SEA LEVE				
			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	v (m) ·						
	THERE IS NO CONTROL STATION L	OCATED IN	THE AREA OF	THIS MANU	SCRIPT.		
LAT.:	LONG.:						
			☐ ADJUSTED ☐ UNADJUSTED				
PLANE COORDINATES	s (IV).						
LANE COORDINATES	, ((V))		STATE	2	ONE		
Y = x =							
ROMAN NUMERALS IN	DICATE WHETHER THE "						
OR (IV) WASHINGTON	DICATE WHETHER THE ITEM IS TO BE ENTER OFFICE.	ED BY (II) FIE	LD PARTY, (III) F	HOTOGRAMMET	RIC OFFICE		
HEN ENTERING NAM	ES OF PERSONNEL ON THIS RECORD GIVE TH	E SUBNAME A	ND INITIALS NOT				

U.S. DEPARTMENT OF COMMERCE

DESCRIPTIVE REPORT - DATA RECORD

T-12004

FIELD INSPECTION BY (II): DATE: NONE MEAN HIGH WATER LOCATION (III) (STATE DATE AND METHOD OF LOCATION): By KELSH INSTRUMENT (8/30/60 Date of photography) No MLLW line has been compiled on this map. DATE PROJECTION AND GRIDS RULED BY (IV): 4-21-64 A. E. ROUNDTREE DATE PROJECTION AND GRIDS CHECKED BY (IV): C. R. JOHNSON 4-21-64 DATE CONTROL PLOTTED BY (III): 9 5-8-64 J. L. HARRIS DATE CONTROL CHECKED BY (III): 5-8-64 L. F. BEUGNET RADIAL PLOT OR STEREOSCOPIC CONTROL EXTENSION BY (III): PERROW No DATE Feb. 1964 J. D. PERRWO, JR. DATE STEREOSCOPIC INSTRUMENT COMPILATION (III): PLANIMETRY D. N. WILLAIMS 5-11-64 CONTOURS DATE NONE DATE MANUSCRIPT DELINEATED BY (III): DRAFTING FOR HYDRO SUPPORT: J. L. HARRIS 5-13-64 DATE SCRIBING BY (III): None

REMARKS:

PHOTOGRAMMETRIC OFFICE REVIEW BY (III):

J. L. HARRIS

DATE

5-13-64

FORM C&GS-181c

U.S. DEPARTMENT OF COMMERCE COAST AND GEODETIC SURVEY

DESCRIPTIVE REPORT - DATA RECORD

T-12004

CAMERA (KIND OR SOURCE) (III):

	C&GS SINGLE	LENS "W"				
	PHO	TOGRAPHS (III)			- /	
NUMBER	DATE	TIME	SCALE	S.	TAGE OF T	IDE
60 W 1232 & 1233	8-30-60	09:40	1:30,000	18.0' ABOVE M.L.L.W.		
				PREDIC	OTED TIE	DE TABLES
	4 4					
	4				- 1	
	7 No. 11 A	TIDE (III)		1	9	
	1			RATIO OF RANGES	MEAN RANGE	DIURNAL SPRING RANGE
REFERENCE STATION:	Anchorage				26.7	29.6
SUBORDINATE STATION:			P. A.			
SUBORDINATE STATION:						
WASHINGTON OFFICE REVIEW BY (IV): E.L. Rolle			DATE: Feb. 1980			
PROOF EDIT BY (IV):	E.L. R	Colle		DATE:	b. 1980	
NUMBER OF TRIANGULATION ST	ATIONS SEARCHED FOR (m):	RECOVERED:	IDENTIFIE		

NONE

RECOVERED:

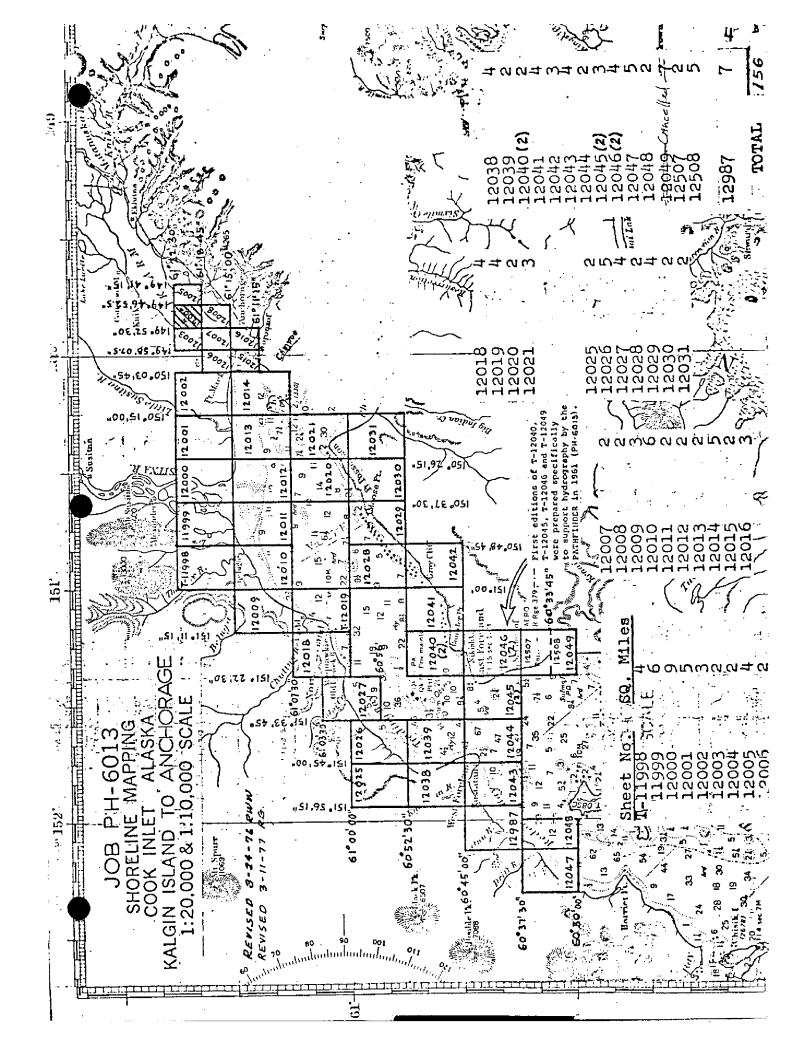
IDENTIFIED

NUMBER OF RECOVERABLE PHOTO STATIONS ESTABLISHED (III): NONE

NUMBER OF TEMPORARY PHOTO HYDRO STATIONS ESTABLISHED (III):

REMARKS:

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



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 Knit-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-12004

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.

COOK INLET, ALASKA

PROJECT SP-1-61 1961

USC&GS Ship PATHFINDER

Arthur L. Wardwell, CAPT., Condg.

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, 12009, 12019, 12018, 12023, 12025, 12024, 12029, 12030, 12035

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 sub-

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 - 11 12049 1402 B00 1961 11 12045 11 HELEN 1961 Traverse from East Foreland Light 1960.

Map 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

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 cover 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 ECG, east of East Foreland, the mean high water line is as follows:

IVY 30 meters inside MM

EGG on piles at MHW

Most of the shoreline signals are located at NHW 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 NHW to sand at NLW 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%14,00.

BOUNDARIES, MONUMENTS AND LINES:-

None shown.

OTHER CONTROL:-

Photo hydro signals were located in accordance with standard instructions. Signal TVY was found in error and relocated photogrammentric ally, then verified by hydrographic cuts. Final location is shown on mann-script 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:-

Rumerous 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 Gorald C. Saladin IIJG, C&GS

Arthu J. Wardwell

Arthur L. Wardwell, Captain, C&GS

Comdg., Ship PATHFINDER

Cook Inlet, Alaska 21035 PH-Col3 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-lA (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-l 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.

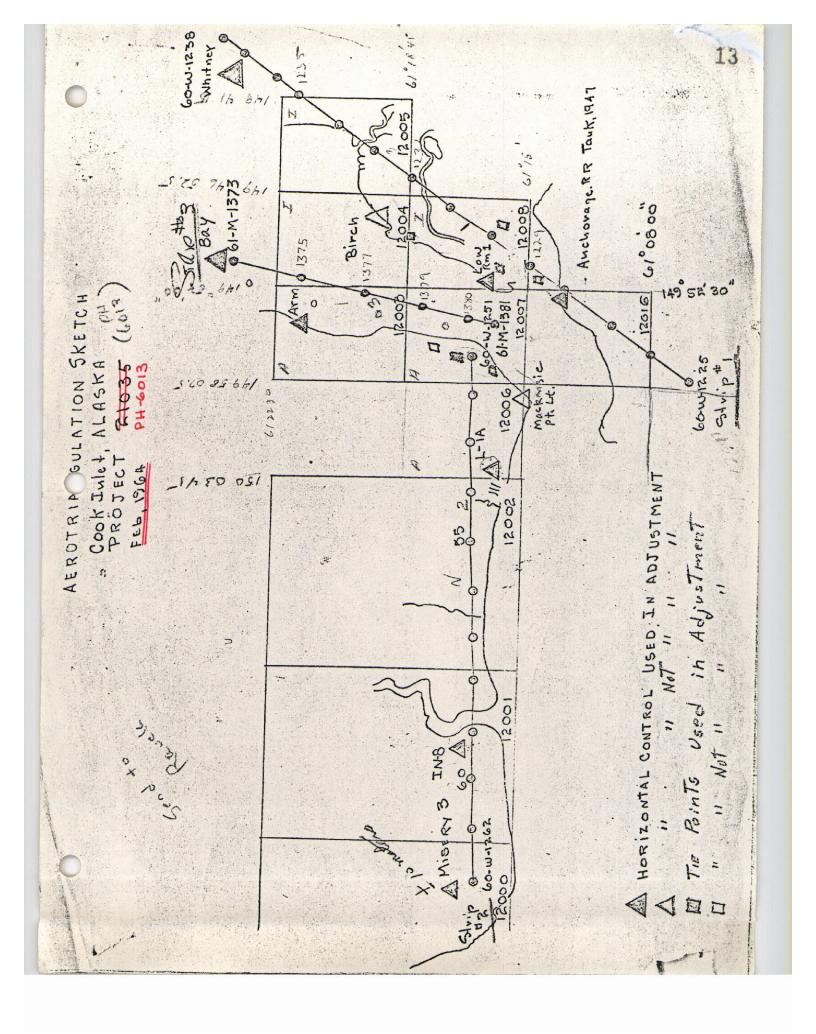
26. Recommendations

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:

Approved by:

Jone. H. Ramey



COMPILATION REPORT

MAP MANUSCRIPT T-12004

PROJECT 21035 PH-6013

ITEMS 31 THRU 38:

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

39. JUNCTIONS:

SATISFACTORY JUNCTIONS WERE MADE WITH T-12005 TO THE EAST AND WITH T-12008 TO THE SOUTH. KNIK ARM IS ON THE WEST AND NORTH.

40. HORIZONTAL AND VERTICAL ACCURACY:

Horizontal control was adequate in both density and idutification.

Refer to Compilation Report T-12502 bound with this Descriptive Report.

ITEMS 46 AND 47:

REFER TO THE COMPILATION REPORT FOR T-12003.

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 name shown on this manuscript was taken from the U.S.G.S. quadrangle.

KNIK ARM

49. Notes for the Hydrographer:

None.

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USCOMM-DC 16252-P61

C&GS FORM 1002	100 200	•	-/ u	I.S. DEPARTMENT OF COMMERCE COAST AND GEODETIC SURVEY	
	РНОТО	GRAMMET	RIC OFFICE REVIEW		
		T-3	12004		
1. PROJECTION AND GRIDS	2. TITLE		3. MANUSCRIPT NUMBERS	4. MANUSCRIPT SIZE	
•					
CONTROL STATIONS	<u>,</u>				
5. HORIZONTAL CONTROL ST THIRD-ORDER OR HIGHER	ATIONS OF 6. F	RECOVERA	AN THIRD-ORDER ACCURACY	7. PHOTO HYDRO STATIONS	
THIND-ONS EN ON MIGHEN		(Topographic	s etations)		
B. BENCH MARKS	19 DI OTTING OF SE	FYTANT	None	11. DETAIL POINTS	
•	9. PLOTTING OF SE		PLOT REPORT		
None	None			None	
ALONGSHORE AREAS (Nautica	I Chart Date)				
12. SHORELINE	13. LOW-WATER LIN	IE	14. ROCKS, SHOALS, ETC.	15. BRIDGES	
	None			None	
16. AIDS TO NAVIGATION	17. LANDMARKS		10 OTHER ALCOHORS		
			18. OTHER ALONGSHORE PHYSICAL FEATURES	19. OTHER ALONGSHORE CULTURAL FEATURES	
None	None				
PHYSICAL FEATURES	<u> </u>		·		
20. WATER FEATURES	21,	NATURAL	GROUND COVER	22. PLANETABLE CONTOUR	
				Not Applicable	
	<u></u>				
23. STEREOSCOPIC INSTRUMENT CONTOURS	24. CONTOURS IN C	GENERAL	25. SPOT ELEVATIONS	26. OTHER PHYSICAL FEATURES	
Not Applicable	None		None.		
CULTURAL FEATURES	1		<u> </u>	<u> </u>	
27. ROADS	28. BUILDINGS		29. RAILROADS	30. OTHER CULTURAL	
None	None		None	FEATURES	
	1,0,,0				
BOUNDARIES 31. BOUNDARY LINES			32. PUBLIC LAND LINES		
None			None	? .	
MISCELLANEOUS				-	
33. GEOGRAPHIC NAMES	34.	JUNCTION	S	35. LEGIBILITY OF THE	
				MANUSCRIPT	
			·		
36. DISCREPANCY OVERLAY	37. DESCRIPTIVE R	REPORT	38. FIELD INSPECTION PHOTOGRAPHS	39. FORMS	
40. REVIEWER		SUPERVISOR, REVIEW SECTION OR UNIT			
J. L. Harris			L.F. Beugnet		
V. L. 1101113			LIF. DEG	gner	
41. REMARKS (See attached she	et)				
FIELD COMPLETION ADDITIO					
42. Additions and corrections script is now complete ex	s furnished by the fie	eld complet	ion survey have been applied	to the manuscript. The manu-	
COMPILER	aveca ander 1		SUPERVISOR		
			1		
			<u> </u>		
43. REMARKS					
			·		
			•		

Field edit for these sheets was accomplished on 7 and 8 July 1965.

An attempt was made to edit these sheets by truck from the shore side but the area is restricted and roads are few and in poor repair. Only a small portion is accessible by vehicle.

On 8 July a Cessna 172 aircraft was chartered to make a low level flight along the shore line. The majority of the edit was accomplished in this fashion.

The only information added was the heights of bluffs, the classification of the Eagle River Flats, and the existence of mud flats along shore and in mid channel off Eagle Creek and a small shoreline change in the vicinity of a slide.

John C. Lajoye

REVIEW REPORT T - 12004 . SHORELINE

January 6 , 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 # 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: Im Byrd

Jim Byrd Final Reviewer

Approved for forwarding:

Billy H. Barne Chief Photogrammetric Branch, AMC

Chief Photogrammetrie Branch

Chief, Coastal Mapping Division

Photogrammetry



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

C3421/W

March 8, 1977

 $\mathbf{T}\mathbf{O}_{\mathbf{r}}$

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



