NOAA FORM 76-35

U.S. DEPARTMENT OF COMMERCE
NATIONAL OCEANIC AND ATMOSPHERIC ADMINISTRATION
NATIONAL OCEAN SURVEY

DESCRIPTIVE REPORT

Type of Survey Shoreline Job No. PH-6013 Map No. T-12011 Classification No. Final Map Edition No
LOCALITY
State Alaska Cook Inlet General LocalityKalgin Island to Anchorage Locality Lewis River
1966 TO 1977
REGISTRY IN ARCHIVES

☆ U.S. GOVERNMENT PRINTING OFFICE: 1974-762-901

NOAA FORM 76-36A U. S. DEPARTMENT OF COMMERCE (3-72) NATIONAL OCEANIC AND ATMOSPHERIC ADMIN.	TYPE OF SURVEY	SURVEY KK T-12011
MATIONAL OCEANIC AND ATMOSPHERIC ADMIN.	☑ ORIGINAL	MAP EDITION NO. (1)
DESCRIPTIVE REPORT - DATA RECORD	TESURVEY	MAP CLASS Final Map
	REVISED	јов РН . <u>6013</u>
PHOTOGRAMMETRIC OFFICE	LAST PRECEED	ING MAP EDITION
Coastal Mapping Division Atlantic Marine Center, Norfolk, VA	TYPE OF SURVEY	JOB PH
OFFICER-IN-CHARGE	ORIGINAL	MAP CLASS
	RESURVEY	SURVEY DATES:
Jeffrey G. Carlen, Cdr.	L REVISED	19то 19
I. INSTRUCTIONS DATED		
1. OFFICE	2.	FIELD
Aerotriangulation 9/15/66 Compilation, Supplement 3 4/26/67 Compilation, Supplement 4 9/11/67	Supplement 1 Field	8/8/66 6/6/66
II. DATUMS		
1. HORIZONTAL: X 1927 NORTH AMERICAN	OTHER (Specify)	
MEAN HIGH-WATER MEAN LOW-WATER MEAN LOWER LOW-WATER MEAN SEA LEVEL	OTHER (Specity)	
3. MAP PROJECTION	STATE 4. (GRID(S)
Polyconic	Alaska	4
5. SCALE	STATE	ZONE
1:20,000	<u></u>	
OPERATIONS	NAME	DATE
1. AEROTRIANGULATION BY	P. Hawkins	Apr 1967
METHOD: Stereoplanigraph LANDMARKS AND AIDS BY		
2. CONTROL AND BRIDGE POINTS PLOTTED BY	L. O. Neterer, J	
METHOD: Manual CHECKED BY	R. R. White	Jul 1967
3. STEREOSCOPIC INSTRUMENT PLANIMETRY BY COMPILATION CHECKED BY	L. O. Neterer, Jr R. E. Smith	Jul 1967 Jul 1967
INSTRUMENT: Kelsh plotter CONTOURS BY	NA NA	1 0 mT 1301
SCALE: 1:20,000 CHECKED BY	NA	
4. MANUSCRIPT DELINEATION PLANIMETRY BY	R. R. White	Jul 1967
CHECKED BY	L. Graves	Jul 1967
метнор: Smoothdrafted сонтоинs ву	NA	
CHECKED BY	NA	7 2 22/2
scale: 1:20,000 Hydro support data by	R. R. White	Jul 1967
CHECKED BY 5. OFFICE INSPECTION PRIOR TO FIELD EDIT BY	L. Graves L. Graves	Jul 1967 Jul 1967
ВУ	I. Perkinson	Jan 1978
6. APPLICATION OF FIELD EDIT DATA CHECKED BY	C. Blood	Jan_1978
7. COMPILATION SECTION REVIEW BY	C. Blood	Jan 1978
8. FINAL REVIEW BY	J. Byrd/C. Blood	May 1986 _
9. DATA FORWARDED TO PHOTOGRAMMETRIC BRANCH BY	J. Byrd	Sept 1986
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10. DATA EXAMINED IN PHOTOGRAMMETRIC BRANCH BY 11. MAP REGISTERED - COASTAL SURVEY SECTION BY	P. Dempsey EL. DAUGHERTY	0ct 1986 Dec'86

NOAA FORM 76-36B					NATIONAL OCE			NT OF COMMERCE
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			COMPI	ILATION	SOURCES			
. COMPILATION PH	OTOGRAPH	Y						
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2. SOURCE OF MEA	N HIGH-WAT	ER LINE:						
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4. CONTEMPORARY	HYDROGRA	PHIC SURV	EYS (List only	those sur	veys that are sources	for photogran	nmetric survey	information.)
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REMARKS		<u> </u>	r <u>-12012</u>		No Surv	rey	T-1	2010

NOAA FORM 76-360 (3-72)	:		NATIONAL OCEA	U. S. DEPARTME	NT OF COMMERC
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	- •	HISTORY OF FIELD	OPERATIONS		
I. X FIELD INSP	ECTION OPE	RATION Premarking	D EDIT OPERATION	I	
	ÓF	PERATION		NAME	DATE
1. CHIEF OF FIEL	D PARTY			,	
	_	RECOVERED BY	A. Wardwa None	<u> </u>	1961
2. HORIZONTAL CONTROL ESTABLISHED BY			None		
		PRE-MARKED OR IDENTIFIED BY	None	· · · · · · · · · · · · · · · · · · ·	
		RECOVERED BY	NA NA		
3. VERTICAL CON	TROL	ESTABLISHED BY	NA		
		PRE-MARKED OR IDENTIFIED BY	NA		
	R	ECOVERED (Triangulation Stations) BY	None		
4. LANDMARKS AN AIDS TO NAVIG		LOCATED (Field Methods) BY	None		
		IDENTIFIED BY	None		<u></u>
		TYPE OF INVESTIGATION			
GEOGRAPHIC N INVESTIGATION		COMPLETE SPECIFIC NAMES ONLY			
		NO INVESTIGATION			
6. PHOTO INSPEC	TION	CLARIFICATION OF DETAILS BY	None		
7. BOUNDARIES A		SURVEYED OR IDENTIFIED BY	NA		
II. SOURCE DATA			•	,	<u> </u>
1. HORIZONTAL C	ONTROL IDE	ENTIFIED	2. VERTICAL CO	NTROL IDENTIFIED	
	None			<u>NA</u>	
PHOTO NUMBER		STATION NAME	PHOTO NUMBER	STATION DES	IGNA TION
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2 PUOTO NUMBER	70 475 141		J		
3. PHOTO NUMBER	R\$ (Clarificat	ion of details)			
	None				
4. LANDMARKS AN		AVIGATION IDENTIFIED		· · · · · · · · · · · · · · · · · · ·	
	None				
PHOTO NUMBER		OBJECT NAME	PHOTO NUMBER	OBJECT	NAME
			[
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5. GEOGRAPHIC N	AMES:	REPORT X NONE	6. BOUNDARY AN	D LIMITS: REPOR	T 🛣 NONE
7. SUPPLEMENTAL					
	None				
8. OTHER FIELD F	RECORDS (Sk	etch books, etc. DO NOT list data submit	ted to the Geodesy D	ivision)	
	3.7				
	None				

AA FORM 76 –36C 72)	T-120		C AND ATMOSPHERI	ENT OF COMMERCE ADMINISTRATION AL OCEAN SURVE
	HISTORY OF FIELD O			
T FIELD INSPECTION OPER	ATION Premarking FIELD	EDIT OPERATION		<u></u>
OPE	ERATION	N/	ME	DATE
CHIEF OF FIELD PARTY		RMelby		1966
	RECOVERED BY	A. C. Weyn	ann. III	1966
HORIZONTAL CONTROL	ESTABLISHED BY	None		
	PRE-MARKED OR IDENTIFIED BY	None	<u> </u>	
	RECOVERED BY	NA		
VERTICAL CONTROL	ESTABLISHED BY	NA		
	PRE-MARKED OR IDENTIFIED BY	<u>NA</u>		ļ
	ECOVERED (Triangulation Stations) BY	None		
LANDMARKS AND AIDS TO NAVIGATION	LOCATED (Field Methode) BY	None		
	TYPE OF INVESTIGATION	None		
GEOGRAPHIC NAMES	COMPLETE			ì
INVESTIGATION	SPECIFIC NAMES ONLY			
	I NO INVESTIGATION			}
. PHOTO INSPECTION	CLARIFICATION OF DETAILS BY	None		
BOUNDARIES AND LIMITS	SURVEYED OR IDENTIFIED BY	NA NA		
. SOURCE DATA				
. HORIZONTAL CONTROL IDE	NTIFIED	2. VERTICAL CON	TROL IDENTIFIED	
None		NA		
PHOTO NUMBER	STATION NAME	PHOTO NUMBER	STATION DE	ESIGNATION
3. PHOTO NUMBERS (Clarifica	tion of details)	<u> </u>		
None	00 ₀			
4. LANDMARKS AND AIDS TO	NAVIGATION IDENTIFIED			
None				
PHOTO NUMBER	OBJECT NAME	PHOTO NUMBER	OBJEC	TNAME
5. GEOGRAPHIC NAMES:	REPORT NONE	6. BOUNDARY AN	ID LIMITS: REI	PORT TO NON
7. SUPPLEMENTAL MAPS AN	D PLANS	-		
None	_			
8. OTHER FIELD RECORDS (Sketch books, etc. DO NOT list data subm	itted to the Geodesy I	Division)	
N				
None				

NOAA FORM 76-36C

*U.S. GOVERNMENT PRINTING OFFICE: 1974 - 768-078

NOAA FORM 76-36C (3-72)	T-12011 History of Field		NIC AND ATMOSPH	RTMENT OF COMMERCE TERIC ADMINISTRATION TIONAL OCEAN SURVEY
I FIELD INSPECTION OP	ERATION X FIELD	EDIT OPERATION		
0	PERATION		NAME	DATE
I. CHIEF OF FIELD PARTY]	• •	1077
	RECOVERED BY	B. I. Wil	liams	July 1977
2, HORIZONTAL CONTROL	ESTABLISHED BY	None None		
	PRE-MARKED OR IDENTIFIED BY	None		
	RECOVERED BY	NA		
3. VERTICAL CONTROL	ESTABLISHED BY	NA		
	PRE-MARKED OR IDENTIFIED BY	None		
	RECOVERED (Triengulation Stations) BY	NA		
4. LANDMARKS AND	LOCATED (Field Methods) BY	NA		
AIDS TO NAVIGATION	IDENTIFIED BY	NA		
	TYPE OF INVESTIGATION	}		
5. GEOGRAPHIC NAMES	COMPLETE BY			
INVESTIGATION	SPECIFIC NAMES ONLY	}		}
	Y NO INVESTIGATION			
6. PHOTO INSPECTION	CLARIFICATION OF DETAILS BY	R. Crowel	1	
7. BOUNDARIES AND LIMITS	SURVEYED OR IDENTIFIED BY	NA		
11. SOURCE DATA				
None	ENTIFIED	2. VERTICAL CON	NTROL IDENTIFIED)
PHOTO NUMBER	STATION NAME	PHOTO NUMBER		DESIGNATION
3. PHOTO NUMBERS (Clarifica	ation of deteils)			
None				
4. LANDMARKS AND AIDS TO	NAVIGATION IDENTIFIED			
None		·		
PHOTO NUMBER	OBJECT NAME	PHOTO NUMBER	OBJI	ECT NAME
5. GEOGRAPHIC NAMES:	REPORT X NONE	6. BOUNDARY AN	DLIMITS:	EPORT X NONE
7. SUPPLEMENTAL MAPS AN			<u> </u>	C. C
None None None	ketch books, etc. DO NOT list data submit	ted to the Gendery D	ivision)	
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NOAA FORM 76-36D

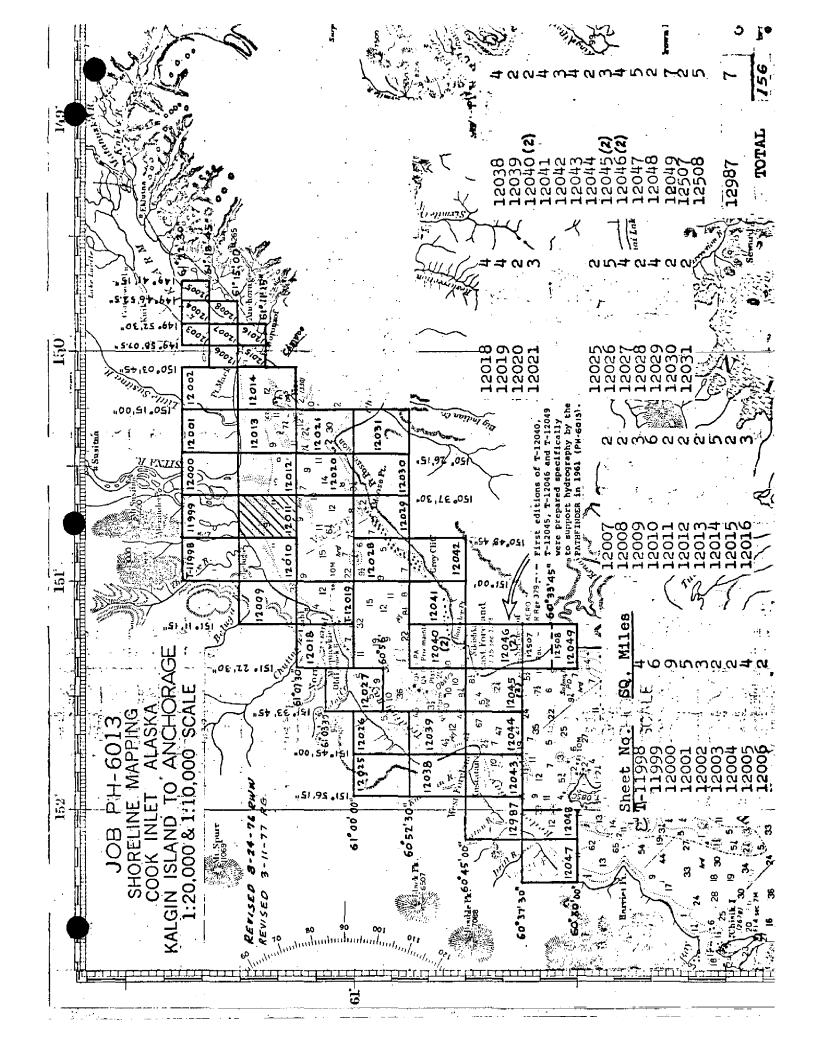
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U. S. DEPARTMENT OF COMMERCE NATIONAL OCEANIC AND ATMOSPHERIC ADMINISTRATION

T-12011

RECORD OF SURVEY USE

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Final Review 5/86 Final Map III. LANDMARKS AND AIDS TO MAVICATION NODE 1. REPORTS TO MARINE CHART DIVISION, NAUTICAL DATA BRANCH CHART LETTER DATE NUMBER ASSIGNED PORNANDED REMARKS 2. CHART LETTER PORNANDED REMARKS 1. REPORT TO MARINE CHART DIVISION, COAST PILOT BRANCH. DATE FORWARDED: 3. REPORT TO MERONAUTICAL CHART DIVISION, AERONAUTICAL DATA SECTION. DATE FORWARDED: 1II. FEDERAL RECORDS CENTER DATA 1. REPORT TO MERONAUTICAL CHART DIVISION, AERONAUTICAL DATA SECTION. DATE FORWARDED: 2. CONTROL STATION IDENTIFICATION CARDS: FORM NOS SETS SUBMITTED BY FIELD PARTIES. 3. REPORT TO MERONAUTICATION CARDS: FORM NOS SETS SUBMITTED BY FIELD PARTIES. 4. DATA TO FEDERAL RECORDS CENTER. DATE ORMARDED: 1V. SURVEY EDITIONS (This section shall be completed each time a new map edition is registered: 1V. SURVEY EDITIONS (This section shall be completed each time a new map addition is registered: 1V. SURVEY EDITIONS (This section shall be completed each time a new map addition is registered: 1V. SURVEY EDITIONS (This section shall be completed each time a new map addition is registered: 1V. SURVEY EDITIONS (This section shall be completed each time a new map addition is registered: 1V. SURVEY EDITIONS (This section shall be completed each time a new map addition is registered: 1V. SURVEY EDITIONS (This section shall be completed each time a new map addition is registered: 1V. SURVEY EDITIONS (This section shall be completed each time a new map addition is registered: 1V. SURVEY EDITIONS (This section shall be completed each time a new map addition is registered: 1V. SURVEY EDITIONS (This section shall be completed each time a new map addition is registered: 1V. SURVEY EDITIONS (This section shall be completed each time a new map addition is registered: 1V. SURVEY EDITIONS (This section shall be completed each time a new map addition is registered: 1V. SURVEY EDITIONS (This section shall be completed each time a new map addition is registered: 1V. SURVEY EDITIONS (This section shall be completed each time a n	Field 6	edit applied.	ì						
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SUMMARY TO ACCOMPANY DESCRIPTIVE REPORT

T-12011

This 1:20,000 scale Final shoreline map is one of 44 maps designated as project PH-6013 Cook Inlet, Kalgin Island to Anchorage, Alaska. T-12010 was compiled from photography taken after the 1964 earthquake.

The purpose of this map was to provide contemporary shoreline in support of hydrographic operations and to aid in chart revision.

Field work prior to compilation in the 1961 field season consisted of recovery of horizontal control and limited field inspection. Field work in 1966 consisted of premarking of horizontal control for future aerotriangulation.

This area was photographed in August 1961 with the RC-8 "M" camera and in August 1966 with RC-8 "L" camera using panchromatic film at 1:40,000 scale.

Bridging was performed in the Washington office in April 1967.

This map was compiled at the Norfolk office in July 1967.

Field edit was performed for T-12011 during the 1977 field season. Field edit data was applied at AMC in January 1978.

Final review was performed at the Atlantic Marine Center in May 1986.

This Descriptive Report contains all pertinent information used to compile this Final Map. The original base manuscript and all related data were forwarded to the Washington Science Center for final registration.

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, 12009, 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.

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

IVY 30 meters inside MHW 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 MHW to sand at MHW 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

Gerald C. Saladin

LTJG, C&GS

Arthu J. Wardwell

Arthur L. Wardwell,

Captain, C&GS

Comdg., Ship PATHFINDER

PHOTOGRAMMETRIC PLOT REPORT Job PH-6013 Cook Inlet, Alaska

April 13, 1967

21. Area Covered

The area covered by this report extends from the Redoubt Bay-East Foreland area to Anchorage, Alaska. Included in this area are T-sheets 11998 thru 12001, 12009 thru 12012, 12018, 12019, 12021, 12025 thru 12030, 12038, 12039, 12042 thru 12044, 12047, 12048 and 12987.

22. Method

Five strips were bridged on the C-8 and C-5 stereoplanigraph. Strip #1 (66-L-6602 thru 6623) was adjusted on four triangulation stations with tie points used as checks. Strip #2 (66-L-6629 thru 6634) was adjusted on two triangulation stations plus tie points from Strip #1. Strip #3 (66-L-6641 thru 6653) was adjusted on three triangulation stations plus ties. Strip #4 (66-L-6667 thru 6677) was adjusted on three triangulation stations plus 6725) was adjusted on three triangulation stations.

23. Adequacy of Control

The control, being premarked, was very good insofar as being able to see it clearly; however, in several cases, the 1:40,000 scale photography completely missed the stations. It should be noted that all strips were adjusted with minimum control, and as such, no positive proof can be provided that the adjustments are correct other than by means of tie points and residuals of adjustment. The tie points and residuals do indicate a good adjustment on all strips. Strip # had to be terminated at station SIT 1966 due to lack of control beyond this point. (Port McKenzie could not be seen on the 1:40,000 scale photography.) Attempts were made to provide a tie point for the terminal station on the east end of this strip by bridging three models south of Anchorage, dropping points onto Strip #4. This met with complete failure. Strip #6 had to be terminated on the southern end at station GRAY CLIFF 1909 since the station at East Foreland was not covered by the 1:40,000 scale photography.

24. Supplemental Data

Local USGS quads were used to provide vertical control used in the bridging adjustment.

The coverage of 1966 photography falls short of being sufficient to show the shallow mud areas which are near lower-low water level in the area of the Susitna River Delta. To provide for the delineation of the limiting line of this feature, scale points have been selected which are common to 61M photography which does show the limiting line. Ratios of these photographs will be provided for the graphic delineation of the limiting line only. The compiler should select whatever additional points are necessary for correct delineation. A holiday exists on some of the shoreline along Strip #9. A flight of 60W photography provides coverage and three ratio photos were provided for compilation of this area.

All points on the bridged plates were drilled by PUG methods. Plate 66-L-6719 was broken after bridging. A new plate was provided but it does not contain any drilled points. It is suggested that the models on either side be compiled and pass points be dropped on this plate for compilation.

25. Photography

Photography was adequate as to definition and overlap but was not adequate as to coverage. The 1:40,000 scale photos did not cover either the shoreline or the marked control on the east end of Strip #4 or the southwest end of Strip #9. A portion of the shoreline along the part of Strip #9 which was bridged also lacks coverage.

Submitted by: Red Hawking

Paul Hawkins

Approved by:

John D. Perrow, Jr.

COMPILATION REPORT

T-12011

31. DELINATION:

The Kelsh plotter was used for the compilation of planimetry, the mean high water line, and the mean lower low water line from 1:40,000 scale panchromatic photographs, taken in 1966.

The mean lower low water line was delineated graphically.

32. CONTROL:

See Photogrammetric Plot Report dated April 13, 1967.

33. SUPPLEMENTAL DATA:

None.

34. CONTOURS AND DRAINAGE:

Contours are inapplicable.

35. SHORELINE AND ALONGSHORE DETAILS:

The shoreline was delineated by office interpretation of photographs taken at 2.6 feet above MLLW. Two mean lower low water lines were delineated from the 1966 L photography.

36. OFFSHORE DETAILS:

No statement.

37. LANDMARKS AND AIDS:

No charted landmarks or aids were located during compilation.

38. CONTROL FOR FUTURE SURVEYS:

None.

39. JUNCTIONS:

Junctions are in agreement with T-12012 to the east, T-12010 to the west, and T-11999 to the north. There is no contemporary survey to the south.

40. HORIZONTAL AND VERTICAL ACCURACY:

No statement.

46. COMPARISON WITH EXISTING MAPS:

A comparison was made with USGS Quadrangles TYONEK (A-3), ALASKA, and TYONEK (A-2), ALASKA, scale 1:63,360, dated 1958 and 1952, respectively.

47. COMPARISON WITH NAUTICAL CHARTS:

A comparison was made with C&GS Chart 8553 (Cook Inlet, Northern Part), scale 1:194,154, 7th Edition, dated May 17, 1965.

ITEMS TO BE APPLIED TO NAUTICAL CHARTS IMMEDIATELY

None.

ITEMS TO BE CARRIED FORWARD

None.

Submitted by:

L. L. Graves

Cartographic Technician

July 1967

Approved:

Albert C. Rauck, Jr.

Chief, Coastal Mapping Section

allet C. Hauch. O.

GEOGRAPHIC NAMES

FINAL NAME SHEET

PH-6013 (Cook Inlet)

T-12011

Cook Inlet

Lewis River

Approved by:

A. J. Wraight Chief Geographer

Prepared by:

Frank W. Pickett Cartographic Technician

Field Edit Report Number Three Bay to Miller Creek Tyonek to Ivan River OPR-469-FA-77

GENERAL

This report covers the following manuscripts:

T-11998 T-11999 T-12009 T-12010 T-12011 T-12019 T-12020 T-12028 T-12029 T-12030 T-12041 T-12042

Field work is essentially complete on all maps.

The northern shore between North Foreland and Shorty Creek is characterized by sand and gravel beaches, backed by dirt bluffs in some areas, with small mud flats in the vicinity of the Tyonek Timber Company pier and Shorty Creek which are exposed at low tides. The rest of the northern shore is low and gently sloping with marshy areas above high water and extensive mud flats exposed at low tide.

The entire southern shore is littered with rocks and boulders, often to considerable distances from shore. Beach areas are sand and gravel with occasional areas of mud flats, not as extensive as found on the northern shore. Dirt bluffs line most of the beach.

A total of 153 fixes were taken to locate significant features along 44 nautical miles of shoreline. Each was assigned a number with the format DDD-FF, where DDD represents the julian day of the fix and FF represents the sequential fix number for that day.

All fix information is recorded in the field edit data volume. Fix times are given in Greenwich mean time. All height information is noted on the master field edit ozalid. Information on all signals and stations used for control is included with this report. Deletions are noted in green ink, additions and changes in red ink, verifications in violet ink. All are noted on the master field edit ozalid.

METHOD

Field edit along the southern shoreline was done by LTJG Neal All Millett and ENS Robert Crowell during the month of June, 1977. Work was performed at low tidal stages using a 17 foot skiff equipped with a Mini-ranger console and transceiver. Copies of the field edit ozalids and corresponding photographs were examined in the field. General features, including the mean high water line, were verified by visual comparison of the field edit ozalid

and the areas concerned.

Detached positions and heights were obtained on the more significant rocks. Control for fixes was by range-range and range-azimuth. In several instances sextant angles were also taken. Heights were estimated by comparison to a boathook of known length.

Field edit along the northern shoreline was done by LTJG Neal Millett and ENS Robert Crowell during the month of July, 1977. Initial field edit was done by helicopter at a low tidal stage. Copies of the field edit ozalids and corresponding photographs were examined in the field. Verification of general features, including the mean high water line, was done by visual comparison of the field edit ozalid and the area concerned. No control was used for this phase.

Follow-up field edit was done in those areas where detached positions were needed. Work was done using a 29 foot launch equipped with Raydist electronic positioning equipment. Control for fixes was a combination of range-range, used to locate the launch, and visual. Three lines of position were determined to each object by taking horizontal sextant angles from the launch. The position of the launch was provided by the Raydist system. Heights were estimated by comparison to nearby objects of known size.

ADEQUACY OF COMPILATION

Compilation of the maps is generally adequate. Not all existing rocks on the southern shore were located due to their large numbers. Photography at low tidal stages would best accomplish this.

MAP ACCURACY

The positions of horizontal control stations as they plotted on the maps were compared to surrounding features, in some cases by measurement. These comparisons generally gave good results. Fix accuracy, as indicated by check fixes, was good.

RECOMMENDATIONS

It is recommended that the maps be revised as noted on the master field edit ozalid and then be accepted as advanced manuscripts. Improved photography, both in coverage and quality, would aid all stages of field edit.

INDIVIDUAL MANUSCRIPTS

Details specific to each manuscript are included in the following individual reports.

Submitted by:

Robert B Crowell LTJG, NOAA

Approved by:

Bruce J. Williams

Commanding Officer

Commanding Officer NOAA Ship Fairweather

REVIEW REPORT T-12011

SHORELINE

61. GENERAL STATEMENT

See Summary included with this 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 Hydrographic Survey H-9447, scale 1:20,000, date unknown.

There were no major conflicts.

The contemporary Hydrographic Survey for the area west of longitude 150 44.3 was not available for comparison at the time of Final Review.

65. COMPARISON WITH NAUTICAL CHARTS

A comparison was made with the following NOS chart: 16660, scale 1:194,154, 22nd edition, May 8, 1982.

The chart compared well with this manuscript.

66. ADEQUACY OF RESULTS AND FUTURE SURVEYS

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

Submitted by

James 1. Byrd fr.

Chief, Photogrammetric Section

Approved Jamusery Chief, Photogrammetry Production Sec. Chief, Photogrammetry Branch

NAUTICAL CHART DIVISION

RECORD OF APPLICATION TO CHARTS

FILE WITH DESCRIPTIVE REPORT OF SURVEY NO.	FILE WITH	DESCRIPTIVE	REPORT	OF SURVEY	NO.	
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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
			Full Part Before After Verification Review Inspection Signed Via
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FORM CAGS-9352 SUPERSEOES ALL EDITIONS OF FORM CAGS-978.

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