# 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-12013  Classification No. Final Map Edition No1						
LOCALITY						
State Alaska						
General Locality						
West Point Locality						
1966 TO 1974						
REGISTRY IN ARCHIVES						
DATE						

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

NOAA FORM 76-36A U. S. DEPARTMENT OF COMMERC (3-72) NATIONAL OCEANIC AND ATMOSPHERIC ADMI	TYPE OF SURVEY	SURVEY \$	T-12013
	☑ ORIGINAL	MAP EDITIO	ои ио. (1)
DESCRIPTIVE REPORT - DATA RECORD	RESURVEY	MAP CLASS	Final Map
DEJORIT TITE RELOKE - DATA RECOKD	REVISED		н. <u>6013</u>
PHOTOGRAMMETRIC OFFICE	<del></del>		
Coastal Mapping Division	LAST PRECEED	<del></del>	
Atlantic Marine Center, Norfolk, VA	TYPE OF SURVEY ORIGINAL		'H
OFFICER-IN-CHARGE	RESURVEY	SURVEY DA	
	REVISED	19 TO 19	
Jeffrey G. Carlen, Cdr.			
I. INSTRUCTIONS DATED			
1, OFFICE	2.	FIELD	· · · · · · · · · · · · · · · · · · ·
Compilation, Supplement 1 1/17/6 Aerotriangulation 9/15/66 Compilation, Supplement 3 4/26/6 Compilation, Supplement 4 9/11/6	Supplement 1		6/06/66 8/08/66
II. DATUMS	OTHER (Facility)		
1. HORIZONTAL: X 1927 NORTH AMERICAN	OTHER (Specify)		
MEAN HIGH-WATER  MEAN LOW-WATER  WEAN LOWER LOW-WATER  MEAN SEA LEVEL	OTHER (Specify)		
3. MAP PROJECTION	4.	GRID(S)	
Polyconic	STATE Alaska	ZONE	4
5. SCALE	STATE	ZONE	
1:20,000		<u> </u>	
III. HISTORY OF OFFICE OPERATIONS			
OPERATIONS	NAME_		DATE
1. AEROTRIANGULATION B			Apr 1967
METHOD: Stereoplanigraph Landmarks and AIDS 81 2. CONTROL AND BRIDGE POINTS PLOTTED B	T T . 0//0	Steinhe	rg Apr 1967
2. CONTROL AND BRIDGE POINTS PLOTTED BY CHECKED BY			Apr 1967
3. STEREOSCOPIC INSTRUMENT PLANIMETRY B	T Cmarrag 2/62 /		Apr 1967
COMPILATION CHECKED BY	D 771371 0//0		
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4. MANUSCRIPT DELINEATION PLANIMETRY BY			Apr 1967
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METHOD: Smoothdrafted contours by	37.4	<del></del>	
HYDRO SUPPORT DATA BY	- ****	R. Pate	Apr 1967
scale: 1:20,000 CHECKED BY			Apr 1967
5. OFFICE INSPECTION PRIOR TO FIELD EDIT BY	<del></del>		Apr 1967
6. APPLICATION OF FIELD EDIT DATA	<u> </u>		Jul 1975
CHECKED BY	<del> </del>		Aug 1975
7. COMPILATION SECTION REVIEW BY 8. FINAL REVIEW BY			Aug 1975 May 1986
9. DATA FORWARDED TO PHOTOGRAMMETRIC BRANCH BY			Sept 1986
10. DATA EXAMINED IN PHOTOGRAMMETRIC BRANCH BY	——————————————————————————————————————		Oct 1956
11. MAP REGISTERED - COASTAL SURVEY SECTION BY	1 1 1 1 1 1 1 1 1		DEC 18

NOAA FORM 76-36B (3-72)		СОМ	T-120	NATIONAL OCE 13 N SOURCES	ANIC AND ATMOSE	ARTMENT OF COMMERCI HERIC ADMINISTRATIO TIONAL OCEAN SURVE
. CONDULTION DA	TACALBUY					<del></del>
CAMERA(S) Wild RC-8 "L"			TYPE	S OF PHOTOGRAPHY LEGEND	TIMI	E REFERENCE
TIDE STAGE REFERE			(6) 60		ZONE	
PREDICTED TIDE	s	<b>\</b>	(C) CO	NCHROMATIC X	Alask	a XXSTANDAR
TIDE CONTROLLE				FRARED	MERIDIAN	DAYL1GH1
NUMBER AND	TYPE	DATE	TIME	SCALE	ST.	AGE OF TIDE
60 W 1330	8	/30/60	09:5	4 1:30,000	22.4 ft.	aboveMLLW
66 L 6675-6677;	8	/14/66	08:4	2 1:40,000	2.6 ft.	above MLLW
REMARKS						
2. SOURCE OF MEAN	HIGH-WATER LINE					<del></del>
**The mean hi photography	_	e was comp	oiled f	rom the above i	listed compi	lation
_	_			ed to compile t le the northsid		
3. SOURCE OF MEAN	KNAWAXER OR ME	AN LOWER LO	W-WATER I	LINE:		
were taken a	after the 1960 prints. Cent	4 earthqua	ake. T	iled from the interpolation in the manus	e compiled g	raphically
					<del></del>	
4. CONTEMPORARY	HYDROGRAPHIC SUI	RVEYS (List on	aly those so	irveys that are sources t	or photogrammetric	survey information.)
SURVEY NUMBER	DATE(S)	SURVEY COP	Y USED	SURVEY NUMBER	DATE(S)	SURVEY COPY USED

SOUTH

T-12021

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T - 12001

REMARKS

5. FINAL JUNCTIONS

EAST

T-12014

NOAA FORM 76-36B (3-72) T-12012

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PRE-MARKED OR IDENTIFIED BY  RECOVERED BY NA  PRE-MARKED OR IDENTIFIED BY NA  NA  PRE-MARKED OR IDENTIFIED BY NA  NODE  RECOVERED (Triangulation Stations) BY AIDS TO NAVIGATION  TYPE OF INVESTIGATION  GEOGRAPHIC NAMES INVESTIGATION  PHOTO INSPECTION  CLARIFICATION OF DETAILS BY NODE  NODE  NODE  OND  NA  NODE  NODE  NODE  NA  NODE  NODE  TYPE OF INVESTIGATION  CLARIFICATION OF DETAILS BY NODE  BY NA  SOURCE DATA  HORIZONTAL CONTROL IDENTIFIED  NODE  NA  NODE  NA  PHOTO NUMBER  STATION NAME  PHOTO NUMBER  ALANDMARKS AND AIDS TO NAVIGATION IDENTIFIED  NODE  NODE  ALANDMARKS AND AIDS TO NAVIGATION IDENTIFIED  NODE  PHOTO NUMBER  OBJECT NAME  PHOTO NUMBER  STATION NAME  PHOTO NUMBER  ALANDMARKS AND AIDS TO NAVIGATION IDENTIFIED  NODE  PHOTO NUMBER  OBJECT NAME  PHOTO NUMBER  STATION NAME  PHOTO NUMBER  OBJECT NAME  PHOTO NUMBER  STATION NAME  PHOTO NUMBER  ALANDMARKS AND AIDS TO NAVIGATION IDENTIFIED  NODE  PHOTO NUMBER  OBJECT NAME  PHOTO NUMBER  STATION NAME  PHOTO NUMBER  STATION NAME  PHOTO NUMBER  ALANDMARKS AND AIDS TO NAVIGATION IDENTIFIED  NODE  STATION NAME  PHOTO NUMBER  STATION NAME  PHOTO NUMBER  OBJECT NAME  PHOTO NUMBER  STATION NAME  PHOTO NUMBER  ALANDMARKS AND AIDS TO NAVIGATION IDENTIFIED  STATION NAME  PHOTO NUMBER  ALANDMARKS AND AIDS TO NAVIGATION IDENTIFIED  STATION NAME  STATION NA	ann, III	1966_
RECOVERED BY NA NA NA PRE-MARKED OR IDENTIFIED BY NA		
RECOVERED (Triangulation Stations) BY NA		
RECOVERED (Triangulation Stations) BY NOME  LANDMARKS AND LOCATED (Field Methods) BY NOME  AIDS TO NAVIGATION  GEOGRAPHIC NAMES TYPE OF INVESTIGATION  GEOGRAPHIC NAMES SINVESTIGATION  PHOTO INSPECTION  DESCRIPTION  NOME  DESCRIPTION  DESCR		<del></del>
LANDMARKS AND AIDS TO NAVIGATION OF DETAILS BY NONE  SPECIFIC NAMES INVESTIGATION  GEOGRAPHIC NAMES INVESTIGATION  C DAMPLETE INVESTIGATION  D NO INVESTIGATION  C DAMPLETE INVESTIGATION  C DAMPLETE INVESTIGATION  C DAMPLETE INVESTIGATION  NONE  D NONE  C DAMPLETE INVESTIGATION  NONE		
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AIDS TO NAVIGATION    DENTIFIED BY   NONE	<del></del> .	<del></del>
TYPE OF INVESTIGATION  COMPLETE SPECIFIC NAMES ONLY NO INVESTIGATION  PHOTO INSPECTION CLARIFICATION OF DETAILS BY NONE  BOUNDARIES AND LIMITS SURVEYED OR IDENTIFIED BY NA  HORIZONTAL CONTROL IDENTIFIED NONE  PHOTO NUMBER  STATION NAME  PHOTO NUMBERS (Clarification of details)  NONE  LANDMARKS AND AIDS TO NAVIGATION IDENTIFIED  NONE  PHOTO NUMBER  OBJECT NAME  PHOTO NUMBER  S. GEOGRAPHIC NAMES:  REPORT NONE  6. BOUNDARY AND LIMITS  BY NONE  COMPLETE BY  BY NONE  COMPLE		<del></del>
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SPECIFIC NAMES ONLY  NO INVESTIGATION  CLARIFICATION OF DETAILS BY  NODE  BOUNDARIES AND LIMITS SURVEYED OR IDENTIFIED NA  NA  NONE  NA  PHOTO NUMBER  STATION NAME  PHOTO NUMBERS (Clarification of details)  None  None  A. Landmarks and aids to navigation identified  None  PHOTO NUMBER  OBJECT NAME  PHOTO NUMBER  PHOTO NUMBER  OBJECT NAME  PHOTO NUMBER  S. GEOGRAPHIC NAMES: REPORT NONE  6. BOUNDARY AND LIMITATION OF DETAILS BY  NONE  NO INVESTIGATION NAME  NO INVESTIGATION STATION OF DETAILS BY  NO INVESTIGATION NAME  PHOTO NUMBER  S. GEOGRAPHIC NAMES: REPORT NONE  6. BOUNDARY AND LIMITATION OF DETAILS BY  NO INVESTIGATION NAME  NO INVESTIGATION NAME  PHOTO NUMBER  S. GEOGRAPHIC NAMES: REPORT NONE  6. BOUNDARY AND LIMITATION OF DETAILS BY  NO INVESTIGATION NAMES  NO INVESTIGATION NAMES  PHOTO NUMBER  S. GEOGRAPHIC NAMES: REPORT NONE  6. BOUNDARY AND LIMITATION OF DETAILS BY  NO INVESTIGATION NAMES  NO INVESTIGATION NAMES  PHOTO NUMBER  S. GEOGRAPHIC NAMES: REPORT NO INVESTIGATION OF DETAILS BY  NO INVESTIGATION NAMES  PHOTO NUMBER  S. GEOGRAPHIC NAMES: REPORT NO INVESTIGATION OF DETAILS BY  NO INVESTIGATION NAMES  PHOTO NUMBER  S. GEOGRAPHIC NAMES: REPORT NO INVESTIGATION OF DETAILS BY  NO INVESTIGATION NAMES  PHOTO NUMBER  S. GEOGRAPHIC NAMES: REPORT NO INVESTIGATION OF DETAILS BY  NO INVESTIGATION NAMES  PHOTO NUMBER  S. GEOGRAPHIC NAMES: REPORT NO INVESTIGATION OF DETAILS BY  NO INVESTIGATION NAMES  NO INVESTIGATION NAMES  PHOTO NUMBER  S. GEOGRAPHIC NAMES: REPORT NAMES  S. GEOGRAPHIC NAMES  S. GEOGRAPHIC NAMES  S. GEOGRAPHIC NAMES  S. GEOGRAPHIC NAMES  S. GEOGRA		İ
Description Clarification of Details by None  Boundaries and Limits Surveyed or Identified by NA  Source Data Horizontal Control Identified 2. Vertical Control None Photo Number Station name Photo Number  None None Landmarks and Aids to Navigation Identified None Photo number Object Name Photo Number  Photo number Object Name Photo Number  Station None  Report None  Station Name Photo Number Object Name Photo Number  Photo Number Object Name Photo Number Photo Number Photo Number Object Name Photo Number Object		
BOUNDARIES AND LIMITS  SURVEYED OR IDENTIFIED 2. VERTICAL CONTROL  None NA  PHOTO NUMBER STATION NAME PHOTO NUMBER  None  Landmarks and aids to navigation identified  None  PHOTO NUMBER OBJECT NAME PHOTO NUMBER  PHOTO NUMBER OBJECT NAME PHOTO NUMBER  S. GEOGRAPHIC NAMES: REPORT NONE 6. BOUNDARY AND LIM		
SOURCE DATA  HORIZONTAL CONTROL IDENTIFIED  NONE  PHOTO NUMBER  STATION NAME  PHOTO NUMBERS (Clarification of details)  None  LANDMARKS AND AIDS TO NAVIGATION IDENTIFIED  None  PHOTO NUMBER  OBJECT NAME  PHOTO NUMBER		
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PHOTO NUMBERS (Clarification of details)  None  LANDMARKS AND AIDS TO NAVIGATION IDENTIFIED  None  PHOTO NUMBER  OBJECT NAME  PHOTO NUMBER  FREPORT  NONE  6. BOUNDARY AND LIM	ROL IDENTIFIE	10
3. PHOTO NUMBERS (Clarification of details)  None  None  None  PHOTO NUMBER  OBJECT NAME  PHOTO NUMBER  5. GEOGRAPHIC HAMES: REPORT  NONE  6. BOUNDARY AND LIM		
None  LANDMARKS AND AIDS TO NAVIGATION IDENTIFIED  None  PHOTO NUMBER  OBJECT NAME  PHOTO NUMBER  5. GEOGRAPHIC NAMES: REPORT Y NONE  6. BOUNDARY AND LIM	STATION	N DESIGNATION
None  4. Landmarks and aids to navigation identified  None  Photo number		
4. LANDMARKS AND AIDS TO NAVIGATION IDENTIFIED  None  PHOTO NUMBER OBJECT NAME PHOTO NUMBER  5. GEOGRAPHIC NAMES: REPORT NONE 6. BOUNDARY AND LIMI		
None  PHOTO NUMBER OBJECT NAME PHOTO NUMBER  5. GEOGRAPHIC NAMES: REPORT NONE 6. BOUNDARY AND LIM		
PHOTO NUMBER OBJECT NAME PHOTO NUMBER  5. GEOGRAPHIC NAMES: REPORT NONE 6. BOUNDARY AND LIM		
5. GEOGRAPHIC NAMES: REPORT NONE 6. BOUNDARY AND LIM		
	ОВЈ	JECT NAME
<del></del>		
<del></del>	LIMITS: T	REPORT TO NON
	<u> </u>	
None		
8. OTHER FIELD RECORDS (Sketch books, etc. DO NOT list data submitted to the Geodesy Division	rieion)	<del></del>

NOAA FORM 76-360 (3-72)	<b>.</b>	T-12013 HISTORY OF FIELD		EANIC AND ATMOSPHE NAT!	TMENT OF COMMERCE ERIC ADMINISTRATION ONAL OCEAN SURVEY
I. X FIELD INSP	ECTION O	PERATION FIEL	D EDIT OPERATI	ON	
		OPERATION		NAME	DATE
1. CHIEF OF FIEL	D PARTY		A: Ward	tuall	1/161 7/61
		RECOVERED BY	G. Sala	<del></del>	4/61 - 7/61 4/61 - 7/61
2. HORIZONTAL C	CONTROL	ESTABLISHED BY	None	<del></del>	77.01 77.01
	_	PRE-MARKED OR IDENTIFIED BY	None	· · · · · · · · · · · · · · · · · · ·	
		. RECOVERED BY	NA		
3. VERTICAL CON	ITROL	ESTABLISHED BY	NA		
<u></u>		PRE-MARKED OR IDENTIFIED BY	NA		
		RECOVERED (Triangulation Stations) BY	None	<del></del>	
4. LANDMARKS AN AIDS TO NAVIG		LOCATED (Field Methods) BY	None		
		TYPE OF INVESTIGATION	None		<del></del>
5. GEOGRAPHIC N	IAMES	COMPLETE			
INVESTIGATION		SPECIFIC NAMES ONLY	1		
		NO INVESTIGATION			
6. PHOTO INSPEC	TION	CLARIFICATION OF DETAILS BY	None		
7. BOUNDARIES A	ND LIMITS	SURVEYED OR IDENTIFIED BY	NA		
II. SOURCE DATA					
1. HORIZONTAL C	ONTROL	DENTIFIED	NA NA	CONTROL IDENTIFIED	
PHOTO NUMBER		STATION. NAME	PHOTO NUMBE	R STATION	DESIGNATION
No. LANDMARKS AN	пе	D NAVIGATION IDENTIFIED			
No	ħρ				
PHOTO NUMBER		OBJECT NAME	РНОТО НИМВЕ	R OBJE	CT NAME
5. GEOGRAPHIC N	AUE¢.	DEBOOT ST.OUT	4 BOUNDARY	AND INITE: To be	DART CONT
7. SUPPLEMENTA		REPORT NONE	6. BOUNDARY	AND LIMITS: L RE	PORT Y NONE
None					
8. OTHER FIELD	RECORDS	Sketch books, etc. DO NOT list data submit	ted to the Geodes)	y Division)	
None	e				

NOAA FORM 76-360 (3-72)		T-12013 History of Field		NIC AND ATMOSPHE	TMENT OF COMMERCE ERIC ADMINISTRATION ONAL OCEAN SURVEY
1.  FIELD INSPI	ECTION OPER	RATION T FIEL	D EDIT OPERATION		· <del>* </del>
	OPI	ERATION		NAME	DATE
1. CHIEF OF FIEL	D PARTY		K. W. J	r_ &\$	5/74 - 8/74
· · · · · · · · · · · · · · · · · · ·	<u> </u>	RECOVERED BY	None	errers	2/ 14 - 0/ 14
2. HORIZONTAL C	ONTROL	ESTABLISHED BY	None		
		PRE-MARKED OR IDENTIFIED BY	None		
<del></del> .:		RECOVERED BY	NA		
3. VERTICAL CON	TROL	ESTABLISHED BY	NA NA		
		PRE-MARKED OR IDENTIFIED BY	NA NA		
		COVERED (Triangulation Stations) BY	G. Stro	ble	7/74
4. LANDMARKS AN AIDS TO NAVIG		LOCATED (Field Methods) BY	None		
		TYPE OF INVESTIGATION	None		
		COMPLETE			
<ol><li>GEOGRAPHIC N INVESTIGATION</li></ol>		SPECIFIC NAMES ONLY			
		Y NO INVESTIGATION			
6. PHOTO INSPEC	TION	CLARIFICATION OF DETAILS BY	None		
7. BOUNDARIES A		SURVEYED OR IDENTIFIED BY	NA NA		
II. SOURCE DATA	2,,,,,,				
1. HORIZONTAL C	ONTROL IDE	NTIFIED	2. VERTICAL CON	TROL IDENTIFIED	
	None			NA	
PHOTO NUMBER		STATION NAME	PHOTO NUMBER	STATION	DESIGNATION
3. PHOTO NUMBER	RS (Clarification	on of details)			
	None	1			
4. LANDMARKS AN		AVIGATION IDENTIFIED			
	None				
PHOTO NUMBER		OBJECT NAME	PHOTO NUMBER	OBJE	CT NAME
5. GEOGRAPHIC N	AMES:	REPORT MONE	6. BOUNDARY AND	D LIMITS: RE	PORT X NONE
7. SUPPLEMENTA	L MAPS AND				
8. OTHER FIELD F	RECORDS (Ske	etch books, etc. DO NOT list data submit	ted to the Geodesy Di	ivision)	
l Field l Form	Edit Oza 76-40	lid			
1 Field	Edit Rep	port			

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NOAA FORM 76-360

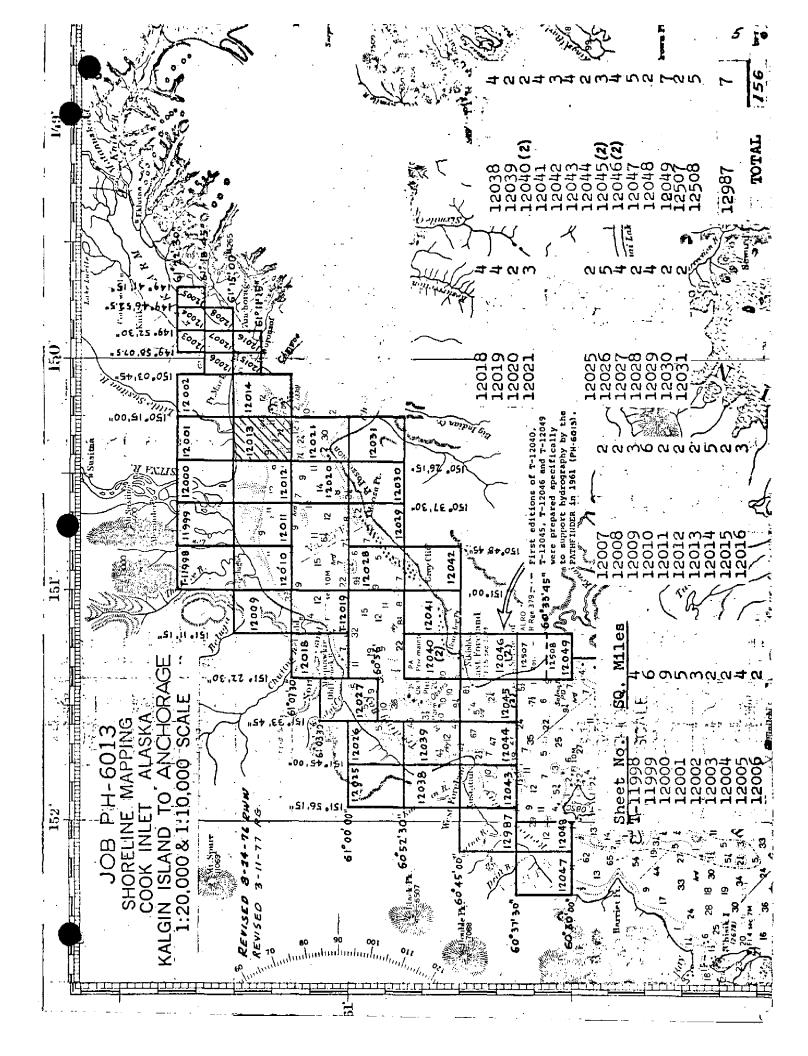
(3-72)

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

T-12013

## RECORD OF SURVEY USE

		RECO	OKD OF SURVE	1 USE		
I. MANUSCE	RIPT COPIES					
	COM	PILATION STAG	ES		DATE MANUSCRI	PT FORWARDED
	ATA COMPILED	DATE	RE	MARKS	MARINE CHARTS	HYDRO SUPPORT
	lation complete, ng field edit.	4/67	Class III	manuscript	None	5/15/73
	edit applied. lation complete.	8/75	Class I ma	nuscript	None	11/7/77
Final	Review	5/86	Final Map			
		·	<u> </u>			
	RKS AND AIDS TO NAVIGAT			<del></del>		
1. REPO	RTS TO MARINE CHART DI	ISION, NAUTICA	L DATA BRANCH			
NUMBER	CHART LETTER NUMBER ASSIGNED	DATE FORWARDED		RE	MARKS	
-		2/6/70	Aid Fo	r charts		
		2/6/78	AIU 10.	r charcs		
			<u> </u>			
ĺ					•	
2. X REPORT TO MARINE CHART DIVISION, COAST PILOT BRANCH. DATE FORWARDED: February 6, 1978					1070	
	REPORT <i>TO MARINE CHART</i> REPORT TO AERONAUTICAL					19/0
	AL RECORDS CENTER DAT					
2.	BRIDGING PHOTOGRAPHS; CONTROL STATION IDENTIF SOURCE DATA (except for Ge ACCOUNT FOR EXCEPTION	FICATION CARDS	E BRIDGING REPO ; FORM NO Report) AS LISTED	S 567 SUBMITTED	TER READOUTS. BY FIELD PARTIES. A FORM 76-36C.	
4.	DATA TO FEDERAL RECOR	DS CENTER. DA	TE FORWARDED:	<u></u>		<u>.</u>
IV. SURVE	Y EDITIONS (This section st	all be completed	each time a new ma	p edition is register	ed)	
	SURVEY NUMBER	JOB NUMB	ER		TYPE OF SURVEY	
SECOND	тр	(2) PH		[		URVEY
EDITION	DATE OF PHOTOGRAPH	DATEOF	FIELD EDIT	]	MAP CLASS	FINAL
	SURVEY NUMBER	JOB NUMB	ÉR		TYPE OF SURVEY	LI FINAL
THIRD	тр	(3) PH		. □ ₽	EVISED RES	URVEY
EDITION	DATE OF PHOTOGRAPH	Y DATE OF F	FIELD EDIT	] 	MAP CLASS	
	SURVEY NUMBER	JOB NUMBI	F8	, ,,,,	I. LIV. LV.	FINAL
FAUDTU		(4) PH			EVISED RES	ÜRVÉY
FOURTH	DATE OF PHOTOGRAPH	<del>··                                     </del>	FIELD EDIT		MAP CLASS	
EDITION		i			ı. □ıv. □v.	DEINAL L



# SUMMARY TO ACCOMPANY DESCRIPTIVE REPORT

#### T-12013

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.

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

A history of the field recovery and premarking of the control or the bridging of the control is not available for the 1960 photography.

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 aerotriangulation.

The Fire Island area was photographed in August 1960 with the RC-5 "W" camera using panchromatic film. The Cook Inlet north shore area was photographed August 1966 with the RC-8 "L" camera using panchromatic film.

Aerotriangulation was performed in the Washington office in April 1967.

The Fire Island area was compiled at the Portland office in February 1963. The Cook Inlet north shore area was compiled in the Norfolk office in April 1967.

Field edit was performed in August 1963 and July 1974. Field edit data was applied at AMC in August 1975.

Final review was performed at the Atlantic Marine Center May 1986. A Chart Maintenance Print was prepared and forwarded to the Marine Charts Branch.

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 MLW 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

KENAT 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:-

#### OTHER CONTROL:-

Photo hydro signals were located in accordance with standard instructions. Signal IVY was found in error and relocated photogrammentric ally, 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. Saledin Gerald C. Saladin ITJG, 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 #4 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 guads 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 Late Kare King 1407

Paul Hawkins

John D. Perrow, Jr.

#### COMPILATION REPORT

#### T-12013

# 31. DELINEATION

Delineation was by the Kelsh stereoplotter. Photography was adequate. The mean lower low water lines were compiled in the northern area from 1966 photography.

#### 32. CONTROL

Refer to the Photogrammetric Plot Reports dated January 1963 and April 13, 1967.

# 33. SUPPLEMENTAL DATA

None.

#### 34. CONTOURS AND DRAINAGE

Contours are not applicable to the project. Drainage was delineated by the Kelsh stereoplotter and by office interpretation of the photographs.

### 35. SHORELINE AND ALONGSHORE DETAILS

Alongshore details were delineated by the Kelsh stereoplotter and by office interpretation of the photographs.

The mean high water line was delineated from the photographs.

#### 36. OFFSHORE DETAILS

None.

## 37. LANDMARKS AND AIDS

Final field edited forms were forwarded to the Rockville, Maryland office.

# 38. CONTROL FOR FUTURE SURVEYS

None.

# 39. JUNCTIONS:

See the attached Form 76-36B, Item 5 of the Descriptive Report. concerning junctions.

# 40. HORIZONTAL AND VERTICAL ACCURACY:

Refer to the Photogrammetric Reports dated January 1963 and April 1967.

# 46. COMPARISON WITH EXISTING MAPS:

A comparison was made with the following USGS Quadrangle: TYONEK (A-1), scale 1:63,360, dated 1953.

# 47. COMPARISON WITH NAUTICAL CHARTS:

A comparison was made with the following National Ocean Survey Chart: 8553, 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:

Albert C. Rauchf. For L. Graves -

R. Pate -

Cartographic Technicians

February 1963

April 1967

Approved:

Albert C. Rauck. Jr. Chief, Coastal Mapping Section

GEOGRAPHIC NAMES

FINAL NAME SHEET

PH-6013 (Cook Inlet)

T-12013

Cook Inlet

Fire Island

Fire Island Moose Reservation

Shelter Bay

Susitna Flats

West Point

Approved by:

A. J. Wraight Chief Geographer

Prepared by:

Frank W. Pickett Cartographic Technician

Cap,

FIELD EDIT REPORT
OPR-469-RA-1974

UPPER COOK INLET, KNIK ARM

ALASĶA

T-12000 thru T-12008 T-12012 thru T-12016 T-12021 T-12031 TP- 00515

NOAA Ship RAINIER
CDR K. William Jeffers

Commanding

- H

#### INTRODUCTION

Field edit was completed on selected "minus tide days" during the period from mid-May through the end of August. Work was carried out on shore and land.

Field edit was started in the Port of Anchorage and continued north up Knik Arm to Latitude 61°22.0', the northern limit of shoreline control. Field edit was completed on the north side of Cook Inlet westward to Longitude 150°37.0'. Shoreline around Fire Island was inspected on the northwest side from North Point to West Point. Approximately 3 miles of shoreline wereinspected in the immediately vicinity of Pt. Possession.

Photographs used in the field edit are from jobs CM-7310 and PH-6013. Height data on all rocks was estimated. Times were referenced to  $0^{\circ}$  Longitude.

# Adequacy of Compilation

All rocks and offshore features are labeled on the field edit ozalids, and whereever possible, verified on the field photos. Compilation of the MHWL was excellent on the manuscripts. Verification of MLLW was done by launch hydrography and is clearly deliniated on the boat-sheets.

# Shoreline Summaries

T-12000, T-12001, T-12002, T-12012, T-12013 (Northern Half), T-12014 (Northern Half)

This group of manuscripts includes the northern part of Cook Inlet fromSusitna River to Pt. Mackenzie. The area is one of extensive mud flats. One discrepancy was noted on the shoreline junction between T-12002 (1966 shoreline manuscript) and T-12006 (1973 shoreline manuscript). The 1973 shoreline manuscript extended the shoreline up to the forest edge. The MHWL is along a marsh that extends south from the forest edge. Therefore the shoreline was adjusted to follow the MHWL along the marsh.

11/

# T-12013 and T-12014 (southern Half)

The shoreline in this area covers Fire Island. The shoreline, of Shelter Bay is muddy. The northern side of the island has a rocky beach with some detached rocks, none extending more that a quarter mile off shore. The southern andeastern side of Fire Island was not field edited, therefore, the Field Edit Ozalids should be returned to the RAINIER as soon as possible.

### T-12021 and T-12031

The vicinity of Point Possession is foul with offshore rocks. The west side of Pt. Possession is very foul with rocks extending out 3/4 mile. This area was not completely field edited, therefore, the manuscripts and field edit ozalids should be returned to the RAINIER as soon as possible.

# T-12006, T-12015, T-12016, TP-00515

This area includes Anchorage Harbor and the area extending westward to Pt. Mackenzie and Pt. Woronzof. The southern shore is primarily mud flats, almost entirely free of offshore rocks. The northern shore has many offshore rocks awash at MLLW. TP-00515 is a 1:5,000 scale inset of Anchorage Proper. Pier heights and additional data accrecorded on the Field Edit Ozalid.

# T-12007, T-12008

Lower Knik Arm-- The east and west shore are foul with many rocks and boulders awash at MLLW.

# T-12003, T-12004, T-12005

This area includes upper Knik Arm to the extent of the 1973 photo coverage. The east and west shores are mud with very few dangerous rocks.

#### Recommendations

Much of the area included in this survey project lacked good photo support. The 1973 photo support in Knik Arm and Anchorage Harbor was excellent, however, the 1966-1967 coverage westward into Cook Inlet was very sparse. Of special concern is the fact that the T-sheet and flight-line index showed many flight lines of photos which were never received and would have aided our field operations considerably. If these flights lines or even parts of them are not available, a complete inventory should be supplied for our records.

respectfully/submitted,

(Garth Stroble LTJG, NOAA

#### REVIEW REPORT T-12013

#### 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-9444, 1:20,000 scale, dated April 10, 1978. There were no major conflicts.

# 65. COMPARISON WITH NAUTICAL CHARTS

A comparison was made with the following NOS Charts: 16664, scale 1:40,000, 18th edition, January 16, 1982 16660, scale 1:194, 154, 22nd edition, May 8, 1982.

The listed charts 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 L. Byrd, Jr. Final Reviewer

Approved for forwarding

Billy H. Barnes

Chief, Photogrammetric Section

Approved

Chief, Photogrammetric Production Sec.

Chief, Photogrammetry Branch

NONFLOATING AIDS ORCLAND MARKET FOR CHARTS    Continue   Continue	NOAA FORM 76-40	-40					   	S. DEPARTMEN	T OF COMMERCE	ORIGINATING ACTIVITY	CTIVITY
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#### 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
			Full Part Before After Verification Review Inspection Signed Via
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PORM CAGS-8362 SUPERSEDES ALL EDITIONS OF FORM CAGS-978.

USCOMM-DC 8558-P63