T-12045

NOAA FORM 76-35

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

DESCRIPTIVE REPORT

Type of SurveyShoreline
Job No. PH-6013 Map No. T-12045(2)
Classification No. Final Map Edition No
Field Edited Map
LOCALITY
State Alaska Cook Inlet General Locality Kalgin Island to Anchorage
Locality East Foreland
•••••
1966 TO 1976
REGISTRY IN ARCHIVES
DATE

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

NOAA FORM 76-36A U. S. DEPARTMENT OF COMMERCE	TVD5 07 011711711	** T-12045(2)
(3-72) NATIONAL OCEANIC AND ATMOSPHERIC ADMIN.	1	
	T ORIGINAL MAPEDI	rion no. (2)
DESCRIPTIVE REPORT - DATA RECORD	RESURVEY MAP CLA	ss Final Map
	REVISED JOB	PH- 6013
PHOTOGRAMMETRIC OFFICE		
Coastal Mapping Division	LAST PRECEEDING MAP ED	
Atlantic Marine Center, Norfolk, VA	TYPE OF SURVEY JOB ORIGINAL MAP CLA	PH. 6013
OFFICER-IN-CHARGE	RESURVEY SURVEY	
	REVISED 1966 TO	
Jeffrey G. Carlen		
I. INSTRUCTIONS DATED	2, FIELD	
I, OFFICE	ZIFIELD	<u> </u>
Compilation 11/18/60	Field 6/	6/66
Compilation, Supplement 5 3/20/73		8/66
Compilation, Amend. 1 to Supp. 5 4/05/73	1	30/73
Aerotriangulation 8/13/73	Field 6/	7/73
Compilation, Amend. 2 to Supp. 5 1/31/74		
	·	
II. DATUMS		
1 Nephranti	OTHER (Specify)	
1. HORIZONTAL: X 1927 NORTH AMERICAN		
MEAN HIGH-WATER	OTHER (Specify)	
2. VERTICAL: MEAN LOW-WATER X MEAN LOWER LOW-WATER		
MEAN SEA LEVEL		
3. MAP PROJECTION	4. GRID(S)	
	STATE ZONE	
Polyconic	Alaska ZONE	4
1:20.000	STATE	
III. HISTORY OF OFFICE OPERATIONS	<u> </u>	
OPERATIONS	NAME	DATE
1. AEROTRIANGULATION BY	M. McGinley	9/74
METHOD: Analytic LANDMARKS AND AIDS BY		
2. CONTROL AND BRIDGE POINTS PLOTTED BY METHOD: Calcomp Checked by	D. Delegation	0/8/
оатсощр	R. Robertson R. R. White	9/74
3. STEREOSCOPIC INSTRUMENT PLANIMETRY BY COMPILATION CHECKED BY	L. O. Neterer, Jr.	12/74
INSTRUMENT: Wild B-8 CONTOURS BY	NA _	
scale: 1:20,000 CHECKED BY	NA	
4. MANUSCRIPT DELINEATION PLANIMETRY BY	Charles Parker	1/75
CHECKED BY	Charles E. Blood	2/75
METHOD: Smoothdrafted CHECKED BY	NA NA	
HYORO SUPPORT DATA BY	Charles Parker	1/75
SCALE: 1:20,000 CHECKED BY	Charles Blood	2/75
5. OFFICE INSPECTION PRIOR TO FIELD EDIT BY	Charles Blood	2/75
6. APPLICATION OF FIELD EDIT DATA	David Butler	12/76
CHECKED BY	Jim Byrd	1/77
7. COMPILATION SECTION REVIEW BY 8. FINAL REVIEW BY	Jim Byrd J. Byrd/C. Blood	3/86
9. DATA FORWARDED TO PHOTOGRAMMETRIC BRANCH BY	J. Byrd	9/86
10. DATA EXAMINED IN PHOTOGRAMMETRIC BRANCH BY	P. Dampsey	Det 1986
11. MAP REGISTERED - COASTAL SURVEY SECTION BY	EL DAUGHERTY	0=c 86
NOAA FORM 76-36A SUPERSEDES FORM C&GS 181 SERIES	- U.S. C.B.O. 1972	Man 350 40



		m 100/5		NIC AND ATMOSPHE NATH	ONAL OCEAN SUR
	co	T-12045			
					
1. COMPILATION PHOTOGRAPHY CAMERA(S)					
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TIDE STAGE REFERENCE		(c) COLOR		ZONE	
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NUMBER AND TYPE	DATE	TIME	SCALE	150th	E OF TIDE
		TIME	JOAEL	31,231	
66L6704 - 66L6705	8/14/66	09:20	1:40,000		below MLLW
67L3661 - 67L3663	6/23/67	10:53	1:40,000	3.6 ft.	below MLLW
67L(I)3490 - 67L(I)3491		13:55	1:20,000	12.1 ft.	above MLLW
67L(I)3505 - 67L(I)3509		14:15	1:20,000		above MLLW
72E(C)4907 - 72E(C)4915		09:15	1:20,000		above MLLW
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**Hydro support photos					
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* U.S. GOVERNMENT PRINTING OFFICE: 1974-768-078

NOAA FORM 76-36B

NOAA FORM 76-36C (3-72)	T-12045 (•	AND ATMOSPHERIC	NT OF COMMERCE ADMINISTRATION L OCEAN SURVEY
I. X FIELD INSPECTION O	PERATION FIEL!	EDIT OPERATION		
	OPERATION	NAME		DATE
I. CHIEF OF FIELD PARTY				
		A. Wardwell		4/61 - 7/61
2. HORIZONTAL CONTROL	RECOVERED BY ESTABLISHED BY	G. Saladin None		4/61 - 7/61
Z. HORIZONIAL CONTROL	PRE-MARKED OR IDENTIFIED BY	None		
	RECOVERED BY	NA NA		
3. VERTICAL CONTROL	ESTABLISHED BY	NA NA		
	PRE-MARKED OR IDENTIFIED BY	ΝΑ	· · · · · · · · · · · · · · · · · · ·	
	RECOVERED (Triangulation Stations) BY	None		
4. LANDMARKS AND	LOCATED (Field Methods) BY	None		
AIDS TO NAVIGATION	IDENTIFIED BY	None		
	TYPE OF INVESTIGATION			
5. GEOGRAPHIC NAMES	COMPLETE			
INVESTIGATION	SPECIFIC NAMES ONLY			
	NO INVESTIGATION			
6. PHOTO INSPECTION	CLARIFICATION OF DETAILS BY	None		
7. BOUNDARIES AND LIMITS	SURVEYED OR IDENTIFIED BY	l NA		<u> </u>
II. SOURCE DATA 1. HORIZONTAL CONTROL	IDENTIFIED	2. VERTICAL CONTRO	L IDENTIFIED .	
None		NA		
PHOTO NUMBER	STATION: NAME	PHOTO NUMBER	STATION DES	IGNATION
3. PHOTO NUMBERS (Clarifi	cation of details)	<u> </u>		
None				
4. LANDMARKS AND AIDS T	O NAVIGATION IDENTIFIED -			
PHOTO NUMBER	OBJECT NAME	PHOTO NUMBER	OBJECTI	NAME
5. GEOGRAPHIC NAMES:	REPORT NONE	6. BOUNDARY AND LI	MITS: REPOI	RT K NONE
7. SUPPLEMENTAL MAPS A				
	Charles tooks are DO NOT that a second			
None	(Sketch books, etc. DO NOT list data submit	tted to the Geodesy Divisi	on)	

NOAA FORM 76-36((3-72)	C	T-12045(2 History of Field		EANIC AND ATMOSPHERIC	ENT OF COMMERCE C ADMINISTRATION AL OCEAN SURVEY
1. KWANTEROWNER	ROMAN SO	ERÁNOM FIELD Toldentification	D EDIT OPERATI	ON	
		OPERATION		NAME	DATE
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1. CHIEF OF FIEL	-D PARTI		R. B.		6/73
		RECOVERED BY	R. B.	Melby	6/73
2. HORIZONTAL (CONTROL	ESTABLISHED BY	None		(1)((10)
		PRE-MARKED OR IDENTIFIED BY	R. Melby	L. Riggers	6/66 6/73
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3. VERTICAL CON	NIROL	ESTABLISHED BY	NA NA		
		PRE-MARKED OR IDENTIFIED BY	NA D D	W 73	/ /82
4 LANDHADKE A	ND.	RECOVERED (Triangulation Stations) BY	R. B.	Melby	6/73
4. LANDMARKS A AIDS TO NAVIG		LOCATED (Field Methods) BY	None		6/73
		TYPE OF INVESTIGATION	R. B.	Melby	0/73
5. GEOGRAPHIC N		COMPLETE			
INVESTIGATION		SPECIFIC NAMES ONLY			
· !		Y NO INVESTIGATION			
6. PHOTO INSPEC	TION	CLARIFICATION OF DETAILS BY	None		
7. BOUNDARIES A			None		<u> </u>
II. SOURCE DATA			1,0110		<u> </u>
1. HORIZONTAL C	ONTROL	DENTIFIED	2. VERTICAL O	CONTROL IDENTIFIED	
PHOTO NUMBER		STATION NAME	РНОТО NUMBE	R STATION DES	I GN A TI ON
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		destroyed. New 1973			
3. PHOTO NUMBE		tion submitted.	L		
None	.NS (Clarifi	cation of details)			
	ND AIDS TO	NAVIGATION IDENTIFIED			
4. CANDMARKS A	NO AIDS IT	D NAVIGATION IDENTIFIED			
PHOTO NUMBER		OBJECT NAME	РНОТО NUMBE	R OBJECT	NAME
5. GEOGRAPHIC	NAMES:	REPORT MONE	6. BOUNDARY	AND LIMITS: TREPOR	RT 🛣 NONE
7. SUPPLEMENTA					
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3 Forms		(Sketch books, etc. DO NOT list data submit	ted to the Geodes)	Division)	

NDAA FORM 76—36((3—72)	c	T=12045(2 History of Field	2)	ANIC AND ATMOSPHE	MENT OF COMMERCE RIC ADMINISTRATION DNAL OCEAN SURVEY
I FIELD INSP	ECTION OPE	RATION T FIELD	D EDIT OPERATION	ų	
	OF	PERATION		NAME	DATE
). CHIEF OF FIEL	_D PARTY		CADE D E	43.3 NOA	0/0/
<u> </u>		RECOVERED BY		Alderman, NOA Kosinski, NOA	
2. HORIZONTAL	CONTROL	ESTABLISHED BY	None	110021101123 11011	0, 10
		PRE-MARKED OR IDENTIFIED BY	None		
		RECOVERED BY			
3. VERTICAL CON	NTROL	ESTABLISHED BY	NA_		
		PRE-MARKED OR IDENTIFIED BY	· · · · · · · · · · · · · · · · · · ·		
		ECOVERED (Triangulation Stations) BY	TMTC C D	Vaniania NOA	0/0/
4. LANDMARKSIAI AIDS TO NAVIG		LOCATED (Field Methods) BY	LTJG G. P.	Kosinski, NOA	A 8/76
		TYPE OF INVESTIGATION			
5. GEOGRAPHIC N	NAMES	COMPLETE	17.4		
INVESTIGATIO		SPECIFIC NAMES ONLY	NA		
		X NO INVESTIGATION			
6. PHOTO INSPEC	TION	CLARIFICATION OF DETAILS BY	NA		
7. BOUNDARIES A	ND LIMITS	SURVEYED OR IDENTIFIED BY	NA NA		
II. SOURCE DATA 1. HORIZONTAL O		ENTIFIED	12 VERTICAL CO	NTROL IDENTIFIED	
I. HORIZONIAL C	JUNINOL 101	ENTIFIED	2. VERTICAL CO	MINOE IDENTIFIED	
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	37.4				
	NA			NA	
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3. PHOTO NUMBE	RS (Clarificat	tion of details)			
None					
4. LANDMARKS A	ND AIDS TO H	NAVIGATION IDENTIFIED			
See Forms	76–40			•	
PHOTO NUMBER		OBJECT NAME	PHOTO NUMBER	ОВЈЕС	TNAME
					-
		,			
5. GEOGRAPHIC	NAMES:	REPORT NONE	6. BOUNDARY A	ND LIMITS: REF	ORT NONE
7. SUPPLEMENTA	L MAPS AND	PLANS	•		
None				•	
8. OTHER FIELD	RECORDS (Sk	etch books, etc. DO NOT list dete submit	ted to the Geodesy I	Division)	
Raw Field	Edit Da	<u>ta</u> , OPR-469-FA-76, Vol. 1	$\underline{\mathtt{Field}}$	Edit Reports,	OPR-469-FA-76
		, Map T-12045, Master cop	у		
		mputations for Map T-1204	5		
FleId Edi	t Keport	, Map T-12045			

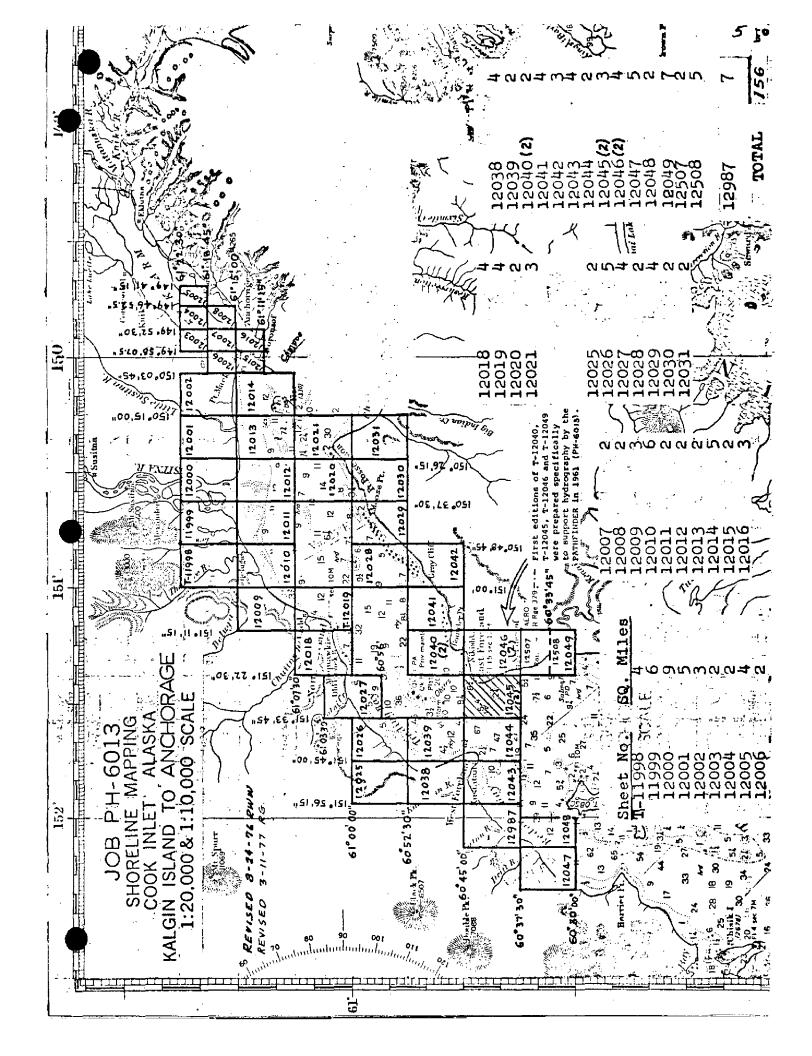
NOAA FORM 76-36D: (3-72)

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

T-12045(2)

		RECO	KD OF SUKVE	Y USE				
I. MANUSC	RIPT COPIES			10:				
	CO	MPILATION STAGE	s			DATEM	ANUSCRI	PT FORWARDED
	DATA COMPILED	DATE	RE	EMARKS		MARINE	HARTS	HYDRO SUPPORT
	ilation complete, ing field edit.	1/75		I Manuscri rseded	ipt	3/25/	75	3/24,75
	d edit applied. ilation complete.	12/76	Class I I	Manuscript	t	2/11/	777	2/11/77
Fina	l-Review	3/86	Final M	ap		·		
	ARKS AND AIDS TO NAVIGA	*****						
1. REP	ORTS TO MARINE CHART DI	VISION, NAUTICAL	DATA BRANCH			·		
NUMBER	CHART LETTER Number Assigned	DATE FORWARDED			REMAI	RKS		
1		2/6/78	5 Aids	for chart	ts			
1		2/6/78	8 Landn	nark for c	harts			
1		2/6/78	1 Revis	sion				

2. 🕌 3. 🦳	REPORT TO MARINE CHART REPORT TO AERONAUTICAL	DIVISION, COAST	PILOT BRANCH.	DATE FORWA	ARDED:_	Febru	ary 6	, 1978
	RAL RECORDS CENTER DAT		, AERONAUTICA	L DATA SECTI	UN. DA	EFURWA	KNDED:	
2. 🔀	BRIDGING PHOTOGRAPHS; CONTROL STATION IDENT! SOURCE DATA (except for GracCount For Exception	eographic Names Re S:	port) AS LISTED	2 30% SODWII	150 61	FIELD FA	MILS.	
	DATA TO FEDERAL RECOR		 					·
IV. SURVE	Y EDITIONS (This section si SURVEY NUMBER	JOB NUMBE		p edition is reg		YPE OF S	HBVEV	
SECOND	TP,	(2) PH	to the state of the second of the second of		REVI		RES	JRVEY
EDITION				n	,Dm.	□ıv.	□v.	FINAL
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EDITION	DATE OF PHOTOGRAPH	Y DATE OF FI	ELDEDIT	⊕ n.	□ m.	MAP CL	ass □v.	☐ FINAL
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FOURTH	TP	(4) PH			REVI	SED	RESÚ	RVÉY
EDITION	DATE OF PHOTOGRAPH	Y DATE OF FI	ELD EDIT] 	П	MAP CL		



FIELD INSPECTION

T-12045(2)

There was no field inspection prior to the revision of this compilation. Field work accomplished was limited to the recovery and identification of the horizontal control necessary for the aerotriangulation of the project.

SUMMARY TO ACCOMPANY DESCRIPTIVE REPORT

T-12045(2)

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-12045(2) is a post earthquake map, second edition of T-12045.

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 aerotriangulation.

This area was flown in August 1966 and June 1967 with the RC-8 "L" camera using panchromatic film at 1:40,000 scale and in June 1967 using infrared film at 1:20,000 scale. The area was reflown in July 1972 with the RC-8 "E" camera using color film at 1:20,000 scale. The 1:40,000 scale photographs were used for bridging and compilation. The 1:20,000 scale photographs were used for hydrographic support.

Aerotriangulation was performed in the Washington office in September 1974.

T-12045(2) was compiled at the Norfolk office in February 1975.

Field edit was performed for T-12045(2) during the 1976 field season. Field edit data was applied at AMC in January 1977.

Final review was performed at the Atlantic Marine Center March 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 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 SF-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 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. Saladin Gerald C. Saladin ITJG, C&GS

Arthur J. Wardwell,

Arthur L. Wardwell, Captain, C&GS

Comdg., Ship PATHFINDER

Submitted by: The Sucke Michael L. McGinley

PHOTOGRAMMETRIC PLOT REPORT Job PH-6013 Cook Inlet East Foreland Area Alaska

21. Area Covered

This project covers the eastern shoreline of Cook Inlet from Kenai to just north of Number Three Bay. Included are seven T-sheets: T-12040(2), T-12041, T-12042, T-12045(2), T-12046(2), and T-12049(2) at 1:20,000 scale, and T-12507, T-12508, at 1:10,000 scale.

22. Method

Three strips of 1:40,000 scale panchromatic photography (strips 18, 19, and 20) were bridged on the Wild STK-1 in order to obtain pass point positions and exact scale ratios to be used during compilation.

Strip 20 was adjusted on four field identified triangulation stations with checks obtained from two additional triangulation stations and two tie points. Strip 18 was adjusted on four field identified triangulation stations with two tie points as checks. Strip 18 was adjusted on six tie points. All adjustments were performed on the IBM 6600. All sheets were ruled and plotted on the Calcomp.

Ratios at 1:20,000 scale were ordered for the entire project with additional 1:10,000 scale ratios for the area covering sheets T-12507 and T-12508. Ratios at 1:20,000 scale of the bridging photography were also ordered for the portion of the project not covered by the offshore photography.

The horizontal control utilized in the adjustments held within National Map Accuracy.

24. Supplemental Data

Vertical control for bridging only was obtained from local USGS quads.

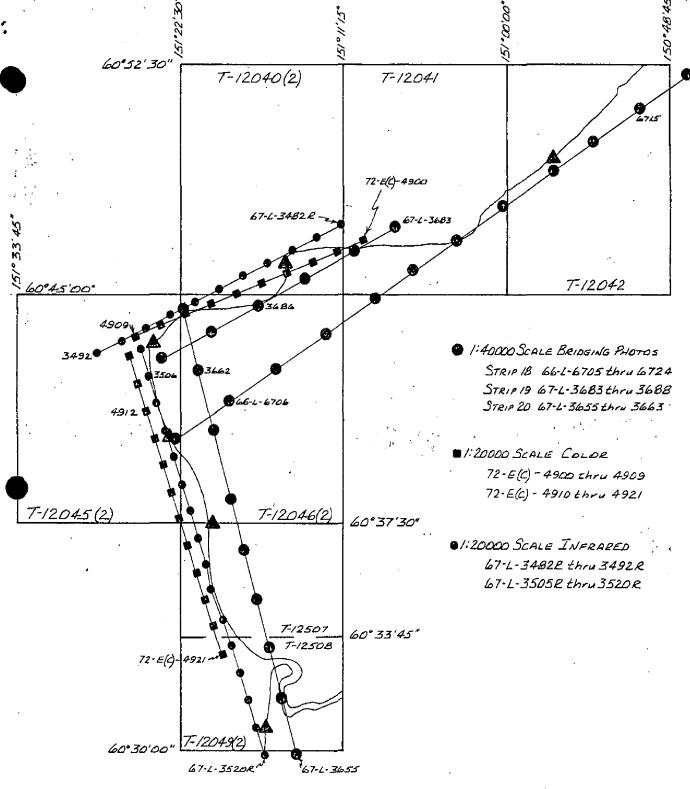
25. Photography

Photography was adequate as to overlap, definition, and coverage.

Approved by:

Non O. Youman John D. Perrow, Jr.

Chief, Aerotriangulation Section



JOB PH-6013 COOK INLET EAST FORELAND AREA ALASKA

NOAA FORM 76-41					U.S. DEPARTMENT OF COMMERCE	DEPARTMENT OF	COMMERCE
[(6 -75)		DESCRIPTIV	DESCRIPTIVE REPORT CONTROL RECORD		AL OCEANIC AND AT	MOSPHERIC ADM	NISTRATION
MAP NO.	JOB NO.		GEODETIC DATUM		ORIGINATING ACTIVITY COASTAL	ŧ.	Mapping
T-12045(2)	PH-6013		N.A. 1927		Division, AMC,	Norfolk,	VA
0 7 4 P 0	SOURCE OF	AEROTRI- ANGULATION	COORDINATES IN FEET	GEOGRAPHIC POSITION	POSITION	0 44 34 54	KS
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COMPUTED BY R. R. White		DATE 11/14/73	COMPUTATION CHECKED BY L. B.	Foltz	J. Desch	DATE 11/15/73	10/04/74
LISTED BY		DATE	LISTING CHECKED BY			DATE	
HAND PLOTTING BY		DATE	HAND PLOTTING CHECKED BY			DATE	
		SUPERSEDES NO	ERSEDES NOAA FORM 76-41, 2-71 EDITION WHICH IS OBSOLETE	CH IS OBSOLETE			

COMPILATION REPORT

T-12045(2)

31. DELINEATION:

Delineation was by the Wild B-8 stereoplotter, using 1:40,000 scale photography.

32. CONTROL:

See the attached Photogrammetric Plot Report dated September 1974.

33. SUPPLEMENTAL DATA:

None.

34. CONTOURS AND DRAINAGE:

Contours are not applicable to the project. Drainage was delineated by the Wild B-8 stereoplotter and by office interpretation of the photographs.

35. SHORELINE AND ALONGSHORE DETAILS:

Alongshore details were delineated by the Wild B-8 stereoplotter and by office interpretation of the photographs.

The mean high water line was delineated from the photographs. The mean lower low water line was compiled from the compilation photos.

36. OFFSHORE DETAILS:

None.

37. LANDMARKS AND AIDS:

One aid, a triangulation station, was plotted and one landmark was located during compilation.

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:

No statement.

46. COMPARISON WITH EXISTING MAPS:

A comparison has been made with the following USGS Quadrangle: KENAI (C-4), ALASKA, 1951, scale 1:63,360.

47. COMPARISON WITH NAUTICAL CHARTS:

A comparison has been made with the following National Ocean Survey Chart: No. 8553, 13th Edition, February 26, 1972, scale 1:194,154.

ITEMS TO BE APPLIED TO NAUTICAL CHARTS IMMEDIATELY:

None.

ITEMS TO BE CARRIED FORWARD:

None.

Submitted by:

Charles Parker Cartographic Aid January 6, 1975

albut c. Rauch. J. FOR

Approved:

Albert C. Rauck, Jr.

Chief, Coastal Mapping Section

albut C. Ranch &

GEOGRAPHIC NAMES

FINAL NAME SHEET

PH-6013 (Cook Inlet)

T-12045

Bernice Lake

Cook Inlet

East Forehand

Kenai National Moose Range

Nikishka Bay

Approved by:

A. J. Wraight Chief Geographer

Prepared by:

Frank W. Pickett Cartographic Technician



FIELD EDIT REPORT

MAP 7-12045

EAST FORELAND

JULY-AUGUST 1976

Field work on map T-12045 was completed by LTJG G.P. Kosinski and ENS N.G. Millett during July and August, 1976. The foreshore consists of gravel and rocks with a few isolated boulders. Bluffs of charting value extend along the entire coastline as noted on the ozalid. Field inspections of the shoreline were made at various stages of the tide by skiff and on foot.

METHOD

Photographs and a copy of the field edit ozalid were examined in the field. The photographs supplied to the field editor turned out to be of no value whatsoever in identifying offshore features, as they were all taken at fairly high stages of the tide. Significant features not visible on the photos (fixes 240-01 and 240-02) were located by visual three-point sextant fixes utilizing signals located by the NOAA Ship Rainier in 1975 (offshore oil platforms), by the NOAA Ship Fairweather in 1976 (navigational aids), or scaled from the ozalid. A complete list of signals is appended. Refer to the accompanying fix computations and the observed angles found in the sketch book, voulme one.

There are three oil company docks that are indicated on the map. The northern and southern ends of these piers are marked by navigational lights. The Collier pier, southernmost of the three, is presently being extended parallel to the shoreline. The navigational lights will be moved in the near fiture and were not located; these lights are not reported on form 76-40. Further information may be obtained the three Union/Collier company, North Kenai Road, Kenai, Alaska. The remaining navigational lights on the Kenai Pipeline and Phillips piers were located by theodolite intersection or traverse. All computations are included with this report; the field geographic positions may be found in the following Table of Field Edit Fixes or accompanying form 76-40.

Only three prominent rust-colored tanks are significant enough to be shown on the main portion of chart #16660, scale 1:194154, the others, as indicated on the ozalid, should appear on the 1:10000 scale inset of Nikishka on the same chart. Note the existence of two new bulkheads in the area; the one south of latitude 60°41'N is known as the new "Barge Dock", and was completed in 1976. Its corners were located by visual three-point sextant fix. See fixes 241-01 to 241-05. The areas near this dock offshore of the MHWL were graded and surveyed by a private hydrographic surveying firm while field edit operations were in progress. The rock indicated on the ozalid on the MLLWL near the dock was not found but its existence could not be disproved and should remain.

See survey records H-9619 and H-9621 for the hydrographic determination of the MLLWL; no corrections were perceptible to the field editor and none are



indicated on the ozalid.

ADEQUACY OF COMPILATION

Compilation of this map is good. The photographs were useless in aiding the field editor. Every effort should be made to supply field units with photographs taken at zero or minus tides, rather than with photos flown at +10 to +15 foot tides.

RECOMMENDATIONS

It is recommended that this map be revised in accordance with the notes on the ozalid and be accepted as an advanced manuscript.

Respectfully submitted:

Gregory P. Kosinski, LTJG, NOAA

REVIEW REPORT SHORELINE

T-12045(2)

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 the following Hydrographic Surveys:

H9074, scale 1:5,000 July 1969

H9619, scale 1:20,000 April 11, 1978

H9621, scale 1:20,000, June 1, 1978.

65 - COMPARISON WITH NAUTICAL CHARTS

A comparison was made with the following NOS Charts: 16660, scale 1:194,154 (1:40,000 inset), 22nd edition, May 8, 1982 16662, scale 1:100,000 (1:50,000 inset), 1st edition, April 9, 1983.

The above listed Charts show a pile located at latitude 60°40.3', longitude 151°23.5'; it was charted from the unreviewed Class I Chart Maintenance Print submitted to Marine Charts February 1977.

The intended purpose of locating this pile was to advise the Hydrographer of a potential hazard, and for the Field Editor to evaluate its character or existence. Field edit work was done in August 1976; however, no information regarding the pile was received in this AMC office.

After an examination of the Wild B-8 stereoscopic models 67 L 3661-3662 and 72 E(C) 4913-4914, the pile was removed from the Final Class I Map. A Final Map Chart Maintenance Print indicating all changes made to the Unreviewed Class I Map was prepared and forwarded to Marine Charts.

The above 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.

T-12045(2)

Submitted

James L. Byrd, Jr.

Approved for forwarding

Billy H. Barnes

Chief, Photogrammetric Section, AMC

Approved

Chief, Photogrammetric Production Sec.

Lonald K. Brewer Chief, Photogrammetry Branch

ACTIVITY PARTY '	COMPLATION ACTIVITY FINAL REVIEWER QUALITY CONTROL & REVIEW GRP. COAST PILOT BRANCH	CHARTS	AFFECTED	16660	16660	16660	16660	16660				
ORIGINATING ACTIVITY HYDROGRAPHIC PARTY GEODETIC PARTY PHOLOFIEL PARTY	COMPLATION ACTIVITY PINAL REVIEWER QUALITY CONTROL & REVIEW GR COAST PILOT BRANCH	E OF LOCATION on reverse side)	FIELD	8/16/78	F-3-6-L 8/28/76	F-3-6-L 8/28/76	F-3-6-L 8/28/76	F-2-6-L ' 6/15/76				a de la companya de l
ENT OF COMMERCE	DATE rage 12/76	METHOD AND DATE OF LOCATION (See instructions on reverse side)	OFFICE									
U.S. DEPARTMENT OF COMMERCE OCEANIC AND ATMOSPHERIC ADMINISTRATION	Cook Inlet Island to Anchorage	from seaward to determine their value as landmarks. DATUM NA 1927 POSITION	CONGITUDE O / // D.P. Metets	151 24 18.524	151 23 35.93	151 23 42.77	151 23 52.09	151 23 44.14				
NATIONAL OCE	LOCALITY Kalgin	DATUM NA 195 POSITION	LATITUDE	60 43 11.841	87-98 07 09	96.94 04.09	60 41 07.65	60 40 55•39				1.00
AIDS DREEXAND		been inspected from seas	to navigation.		,				·	ed this is a state how		
NONFLOATING AIDS DRIXANDWARKS FOR CHARTS	REPORTING UNIT Field Part, Ship or Office Coastal Mapping AMC, Norfolk, V	HAVE X HAVE NOT been in survey survey and to	ESCRIPTION of landmark or a	(East Foreland Light 1973)	Phillips LNG Dock South Light	lips LNG Dock North Light	i Pipe Line Company Dock h Light			*Field Editor in 1976 stated this new position. He did not state he determined the position.		
NOAA FORM 76-40 (8-74) Replaces CMGS Form 567	X TO BE CHARTED TO BE REVISED TO BE DELETED	The following objects OPR PROJECT NO.		LIGHT (Eas:	LIGHT Phil	LIGHT Phillips	LIGHT Kenai	LIGHT Kenai South		*Field new 1		

TYPE OF ACTION	RESPONSIBLE PERSONNEL	PERSONNEL	ORIGINATOR PHOTO FIELD PARTY
OBJECTS INSPECTED FROM SEAWARD	Gregory P. Kosinski,	Kosinski, Lt. (jg), NOAA	HYDROGRAPHIC PARTY
POSITIONS DETERMINED AND/OR VERIFIED	Gregory P. Kosinski,	Butler. Cartographic Technician	FIELD ACTIVITY REPRESENTATIVE OFFICE ACTIVITY REPRESENTATIVE
FORMS ORIGINATED BY QUALITY CONTROL AND REVIEW GROUP AND FINAL REVIEW	L		REPRESENTATIVE
	INSTRUCTIONS FOR ENTRIES UNDER 'METHOD AND DATE OF LOCATION' (Consult Photogrammetric Instructions No. 64,	OR ENTRIES UNDER 'METHOD AND DATE OF LOCATION' (Consult Photogrammetric Instructions No. 64,	
OFFICE 1. OFFICE [DENTIFIED AND LOCATED OBJECTS 1. OFFICE [DENTIFIED AND LOCATED OBJECTS Enter the number and date (including month, day, and year) of the photograph used to identify and locate the bject. EXAMPLE: 75E(C)6042 8-12-75	ATED OBJECTS (including month, tograph used to bject.	FIELD (Cont'd) B. Photogrammetric field positions** entry of method of location or ver date of field work and number of t graph used to locate or identify t EXAMPLE: P-8-V 8-12-75 74L(C)2982	mmetric field positions** require method of location or verification, field work and number of the photoed to locate or identify the object. P-8-V 8-12-75 74L(C)2982
DETERMINED plicable dat P = Vis	ED OR VERIFIED data by symbols as follows: - Photogrammetric is - Visually - Field identified	II. TRIANGULATION STATION RECOVERED When a landmark or aid which is angulation station is recovered Rec.' with date of recovery. EXAMPLE: Triang. Rec. 8-12-75	ION STATION RECOVERED imark or aid which is also a tristation is recovered, enter 'Triang. date of recovery. friang. Rec. 3-12-75
A. Field positions* requi	7 - Planetable 8 - Sextant require entry of method of of field work.	III. POSITION VERIFIED VISUAL Enter 'V+Vis.' and date. EXAMPLE: V-Vis. 8-12-75	VERIFIED VISUALLY ON PHOTOGRAPH Vis.' and date. V-Vis. 8-12-75
EXAMPLE: F-2-6-L 8-12-75		**PHOTOGRAMMETRIC FIELD POSITIONS are dependent entirely, or in part, upon control establishe by photogrammetric methods.	IC FIELD POSITIONS are dependent in part, upon control established etric methods.
<pre>*FIELD POS(T)ONS are determined by Tield obser- *FIELD POS(T)ONS are determined by Tield obser-</pre>	around survey methods.	biocogrammers of mercia	

NOAA FORM 76-40 (8-74)

NOAA FORM 76-40	40				U.S. DEPARTM	U.S. DEPARTMENT OF COMMERCE	ORIGINATING ACTIVITY	CTIVITY
(8-74) Banjages (2005 Form 567	m 567	NONEXCATINEXAIDSXOR LANDMARKS FOR CHARTS	MARKS	FOR CHART	S AND ALMOSPHER	TO TO THE PERSON OF THE	HYDROGRAPHIC PARTY GEODETIC PARTY DHOTO FIELD PARTY	4,8,7,Y
Neplaces Caus		STATE		LOCALITY		DATE	COMPILATION ACTIVITY	[V] T Y
TO BE REVISED	Coastal Mapping			[00]	Cook Inlet] FINAL REVIEWER	A REVIEW GRP.
TO BE DELETED	AMC, Norfolk,	Alaska		Kalgin Isl	Kalgin Island to Anchorage	rage 12/76	COAST PILOT BRANCH	HON SECTION
The following objects	SCIS HAVE X HAVE NOT	been inspected from seaward to determine their value as landmarks	and to de	termine their va	lue as landmarks.		(See reverse for responsible personner)	tore personneri
OPR PROJECT NO.	JOB NUMBER	EY NUMBER	OAT UM	7927 AN	-	METHOD AND DATE OF LOCATION	E OF LOCATION	
697	PH-6013	T-12045(2)		Pos		(See instructions on reverse side)	on reverse aide)	CHARTS
CHARTING	SCRIPTION of fandmark or a mee, where app	id to navigation.	LATI	LATITUDE // D.M. Meters	LONGITUDE / D.P. Meters	OFFICE	FIELD	AFFECTED
TANK			17 09	21.78 151	23 06.98		V-Vis 8/25/76	16660
TANK			17 09	19.29 151	23 04.22		V-Vis	16660
TANK		9	60 41	16.61	23 07.25		V-Vis 8/25/76	16660
TANK	Rust colored tank.	9	07 09	48.46 151	23 03.43		V-Vis 8/25/76	16660
TANK	Rust colored tank.	9	60 40	46.20 151	23 03-425		V-Vis 8/25/76	16660
TANK	Rust colored tank.	-	60 40	43.85 151	23 03.49		V-Vis 8/25/76	16660
TANK		9	60 41	01.23 151	23 20.95		V-Vis 8/25/76	16660
TANK	-	9	60 40	23.94 151	22 42.08		V-Vis 8/25/76	16660
				4				



	RESPONSIBLE PERSONNEL	
	Z DET	ORIGINATOR
TYPE OF ACTION	TYPHICE	PHOTO FIELD PARTY
		X HYDROGRAPHIC PARTY
OBJECTS INSPECTED FROM SEAWARD		GEODETIC PARTY
	Character D Vocincia I+ (in) NOAA	OTHER (Specify)
		FIELD ACTIVITY REPRESENTATIVE
DOCUTIONS DETERMINED AND/OR VERIFIED	Gregory r. Nosinski, Lt. (1g), Nosa	
		OFFICE ACTIVITY REPRESENTATIVE
	David P. Butler, Cartographic Technician	
FORMS OBIGINATED BY QUALITY CONTROL		XXI XEVIEWEX
TORREST OF THE ACT OF A COLUMN TO THE ACT OF		QUALITY CONTROL AND REVIEW GROUP
AND RESIDE GROOT SECTION SECTION	Charles E. Blood	REPRESENTATIVE
	INSTRUCTIONS FOR ENTRIES UNDER 'METHOD AND DATE OF LOCATION'	_
	(Consult Photogrammetric Instructions No. 64,	
סחקורה	FIELD (Cont'd)	

1. OFFICE (DENTIFIED AND LOCATED OBJECTS FIELD day, and year) of the photograph used to Enter the number and date (including month, identify and locate the object. 8-12-75 75E(C)6042

I. NEW POSITION DETERMINED OR VERIFIED Enter the applicable data by symbols as follows: P - Photogrammetric

- Field

Located Verified

Triangulation Field identified

Vis - Visually

Traverse

Planetable Theodolite

Intersect ion

Resect ion

Sextant

Field positions* require entry of method of location and date of field work. F-2-6-L

8-12-75

*FIELD POSITIONS are determined by field observations based entirely upon ground survey methods.

> Photogrammetric field positions** require graph used to locate or identify the object date of field work and number of the photoentry of method of location or verification, **EXAMPLE:** P-8-V

8-12-75 74L(c)2982

II. TRIANGULATION STATION RECOVERED Rec.' with date of recovery. angulation station is recovered, enter 'Triang. **EXAMPLE:** When a landmark or aid which is also a tri-Triang. Rec. 8-12-75

III. POSITION VERIFIED VISUALLY ON PHOTOGRAPH Enter 'V+Vis.' and date.

EXAMPLE: V-Vis. 8-12-75

**PHOTOGRAMMETRIC FIELD POSITIONS are dependent entirely, or in part, upon control established by photogrammetric methods.



SUPERSEDES NOAA FORM 76-40 (2-71) WHICH IS OBSOLETE, AND EXISTING STOCK SHOULD BE DESTROYED UPON RECEIPT OF REVISION.

→ U.S. GOVERNMENT PRINTING OFFICE: 1974-665-073/1030 Region 6

HYOROGRAPHIC DARTY
CEODETIC PARTY
CEODETIC PARTY
COMPILATION ACTIVITY
FINAL REVIEWER
OUALITY CONTROL & REVIEW GRP.
COAST PILOT BRANCH
(See reverse for responsible personnel) 16660 AFFECTED CHARTS ORIGINATING ACTIVITY METHOD AND DATE OF LOCATION (See Instructions on reverse side) F-3-6-L 8/75 FIELD U.S. DEPARTMENT OF COMMERCE NORTHWENCE AND ATMOSPHERIC ADMINISTRATION UNIT 12/76 OFF ICE Kalgin Island to Anchorage 68.57 been inspected from seaward to determine their value as landmarks D.P. Meters LONGITUDE Cook Inlet Š 1927 151 0 POSITION D.M. Meters 08.14 LATITUDE NA 7 DATUM 9 0 DESCRIPTION (Record reason for defetion of landmark or aid to navigation. Show triangulation station names, where applicable, in parentheses) Alaska T-12045(2) SURVEY NUMBER Oil Platform called "Dillon" Reporting UNIT Field Party, Ship or Office) Coastal Mapping Div. The following objects HAVE X HAVE NOT OPR PROJECT NO. JOB NUMBER PH-6013 Replaces C&GS Form 567. TO BE CHARTED TO BE DELETED TTO BE REVISED NOAA FORM 76-40 (8-74) 697 CHARTING PLATFORM DILLON



	RESPONSIBLE PERSONNEL	
TYPE OF ACTION	NAME &	ORIGINATOR
		PHOTO FIELD PARTY
		X HYDROGRAPHIC PARTY
OBJEC (S INSPECTED FROM SEAWARD		GEODETIC PARTY
•	Gregory P. Kosinski, Lt. (jg), NOAA	OTHER (Specify)
POSITIONS DETERMINED AND/OR VERIFIED	Gregory P. Kosinski, Lt. (jg), NOAA	FIELD ACTIVITY REPRESENTATIVE
	David P. Butler, Cartographic Technician	OFFICE ACTIVITY REPRESENTATIVE
FORMS ORIGINATED BY QUALITY CONTROL		XX REVIEWER
AND REVIEW GROUP AND FINAL REVIEW	Charles F Blood	QUALITY CONTROL AND REVIEW GROUP
ACTIVITIES	GHALLES E. BIOOD	REPRESENTATIVE
V9-	INSTRUCTIONS FOR ENTRIES UNDER METHOD AND DATE OF LOCATION"	
	(Consult Photogrammetric Instructions No. 64,	
OFFICE .	FIELD (Cont'd)	

OFFICE IDENTIFIED AND LOCATED OBJECTS day, and year) of the photograph used to identify and locate the object. Enter the number and date (including month, 75E(c)6042

FIELD

- I. NEW POSITION DETERMINED OR VERIFIED F - Field Enter the applicable data by symbols as follows: P - Photogrammetric
- Verified Located Vis - Visually
- Triangulation Field identified
- Theodolite

Traverse

- Resection Intersection Planetable
- Sextant
- Field positions* require entry of method of EXAMPLE: F-2-6-L location and date of field work.
- 8-12-75

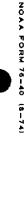
*FIELD POSITIONS are determined by field observations based entirely upon ground survey methods.

- Photogrammetric field positions** require EXAMPLE: graph used to locate or identify the object. date of field work and number of the photoentry of method of location or verification, P-8-V
- 74L(C)2982 8-12-75
- II. TRIANGULATION STATION RECOVERED angulation station is recovered, enter 'Triang. Rec.' with date of recovery. When a landmark or aid which is also a

ţ

- Triang. Rec. 8-12-75
- 111. POSITION VERIFIED VISUALLY ON PHOTOGRAPH Enter 'V-Vis.' and date.
- **EXAMPLE:** V-Vis. 8-12-75

**PHOTOGRAMMETRIC FIELD POSITIONS are dependent entirely, or in part, upon control established by photogrammetric methods.



SUPERSEDES NOAA FORM 74-40 (2-71) WHICH IS OBSOLETE, AND EXISTING STOCK SHOULD BE DESTROYED UPON RECEIPT OF REVISION.





NAUTICAL CHART DIVISION

RECORD OF APPLICATION TO CHARTS

FILE WITH DESCRIPTIVE REPORT OF SURVEY NO.	

INSTRUCTIONS

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

1. Letter all information.

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

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

CHART	DATE	CARTOGRAPHER	REMARKS
			Full Part Before After Verification Review Inspection Signed Via
			Drawing No.
			Full Part Before After Verification Review Inspection Signed Via
			Drawing No.
		<u> </u>	Full Part Before After Verification Review Inspection Signed Via
			Drawing No.
			Full Part Before After Verification Review Inspection Signed Via
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