NOAA FORM 76-35 (6-80)

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

DESCRIPTIVE REPORT

THIS MAP EDITION WILL NOT BE F	IELD EDITED
Map No.	Edition No.
T-13000	1
Job No.	
PH-6411	
Map Classification	
CLASS III (FINAL)	
Type of Survey	
SHORELINE	· .
LOCALITY	(
State	
ALASKA	
General Locality	
VALDEZ ARM	
Locality	
BLIGH ISLAND	
1965 TO 19	
REGISTERED IN AI	RCHIVES
DATE	

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	U	r		•

NOAA FORM 76-36A U. S. DEPARTMENT OF COMMERCE (3-72) NATIONAL OCEANIC AND ATMOSPHERIC ADMIN	TYPE OF SURVEY SU	JRVEY 77. T-13000
	☑ ORIGINAL MA	APEDITION NO. (1)
DESCRIPTIVE REPORT - DATA RECORD	RESURVEY M	APCLASSIII (FINAL)
	1_	рн. 6411
PHOTOGRAMMETRIC OFFICE	LAST PRECEEDING	
Coastal Mapping Unit, Atlantic Marine		
Center, Norfolk, VA	1 _	AP CLASS
OFFICER-IN-CHARGE	1 = '	JRVEY DATES:
,	(-	TO 19
Jeffrey G. Carlen, CDR	NEVISED 18	
I. INSTRUCTIONS DATED		
1. OFFICE	2. FIEL	
Compilation (Prel. Hydro Support) Dec. 30, 1964 Memo (Proj. Planning) May 28, 1965	Horizontal Control (Premarking)	June 3, 1965
Memo (Proj. Planning) May 28, 1965 Aerotriangulation Sept. 02, 1965	(II charking)	
Aerotriangulation(Amend I) Oct. 11, 1965		
Compilation (Suppl. I) Nov. 09, 1965		
Compilation (Amend I) Feb. 07, 1966		
Aerotriangulation Nov. 08, 1966		
Compilation (Amend II) Jan. 09, 1967 Compilation (Suppl II) Feb. 07, 1972		
II. DATUMS		
II. DATOMS	OTHER (Specify)	
1. HORIZONTAL: X 1927 NORTH AMERICAN		
X MEAN HIGH-WATER	OTHER (Specify)	
2. VERTICAL:		
MEAN LOWER LOW-WATER	1	
MEAN SEA LEVEL	<u> </u>	
3. MAP PROJECTION	4. GR)C	
Polyconic Projection	Alaska Zo	3
5. SCALE	STATE ZO	ONE
1:10,000	<u> </u>	
III. HISTORY OF OFFICE OPERATIONS		
OPERATIONS	NAME	DATE
I. AEROTRIANGULATION BY	W. Heinbaugh	Nov. 1965
METHOD: Stereoplanigraph LANDMARKS AND AIDS BY	NA	
2. CONTROL AND BRIDGE POINTS PLOTTED BY	A. Roundtree	Nov. 1965 _
METHOD: Coradomat CHECKED BY	A. Roundtree	Nov. 1965
3. STEREOSCOPIC INSTRUMENT PLANIMETRY BY	· _ · _ ·	May 1966
COMPILATION CHECKED BY INSTRUMENT: Kelsh CONTOURS BY	L. O. Neterer, Jr.	<u>May 1966</u>
1 (000	<u> </u>	
	NA Pourle	May 1966
	K. Boyle	
CHECKED BY	- 	May 1966
CONTOURS BY METHOD: Smooth drafted CHECKED BY		
SHOUGH GEALER CHECKED BY HYDRO SUPPORT DATA BY		May 1966
SCALE: 1:10,000 CHECKED BY	C. Bishop	May 1966
5. OFFICE INSPECTION PRIOR TO FIELD EDIT BY	C. Bishop	May 1966
BY	None	
6. APPLICATION OF FIELD EDIT DATA CHECKED BY		
7. COMPILATION SECTION REVIEW BY	C. Bishop	May 1966
8. FINAL CLASS III BY	W. T. McLemore/J.Ha	
9. DATA FORWARDED TO PHOTOGRAMMETRIC BRANCH BY	J. Hancock	Aug. 1984
10. DATA EXAMINED IN PHOTOGRAMMETRIC BRANCH BY		DEC 10M
11. MAP REGISTERED - COASTAL SURVEY SECTION BY	R.S. KORNSPAN	FER 1985

Í	NOAA	FORM	76-36B
١	(3-72)		

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

T-13000

	COM	PILATION SO	URCES			
. COMPILATION PHOTOGRAPHY	 					
AMERA(S)		TYPES OF I	PHOTOGRAPHY	TIME	RFFFRENCE	
Wild RC-8 "L" (L=15:		GEND		TIME REFERENCE		
TIDE STAGE REFERENCE			ZONE	I -		
TOREDICTED TIDES		(C) COLOR	DMATIC	Al <u>aska</u>	X STANDARD	
REFERENCE STATION RECORDS		(P) PANCHR		MERIDIAN	DAYLIGHT	
TIDE CONTROLLED PHOTOGRAPHY (1) INFRARED 150th						
NUMBER AND TYPE	DATE	TIME SCALE		STAG	E OF TIDE	
65 L(P) 4434 - 4437	7/06/65	09:48	1:30,000	4.1 feet	above MLLW	
				Mean Tide	Range =9.5 ft.	
REMARKS Compilation/bri to Reference Station Co	dging photog rdova, Alask	raphs based a and Subor	on predicted	ed tide data ion Snug Corr	are referenced her Cove, Port	
Fidalgo, Alaska. 2. SOURCE OF MEAN HIGH-WATER						
		e.				
3. SOURCE OF MEAN LOW-WATER OR MEAN LOWER LOW-WATER LINE:						
None compiled.						
	•					
4. CONTEMPORARY HYDROGRAP	HIC SURVEYS (Lis	t only those surve	ys that are sources	for photogrammetric	survey information.)	
SURVEY NUMBER DATE(S) H-9384 1973		tered	RVEY NUMBER	DATE(S)	SURVEY COPY USED	
H-9636 1976		tered			<u> </u>	
5. FINAL JUNCTIONS	EAST	sc	DUTH	WEST		
		N	o survev	No	survey	
	1-13001					
T-12997 REMARKS	T-13001	Ν	o survey	No	survey	

U. S. DEPARTMENT OF COMMERCE NATIONAL OCEANIC AND ATMOSPHERIC ADMINISTRATION NATIONAL OCEAN SURVEY NOAA FORM 76-36C T-13000 HISTORY OF FIELD OPERATIONS I. X FIELD INSPECTION OPERATION (PREMARKING) THELD EDIT OPERATION DATE **OPERATION** June 1965 1. CHIEF OF FIELD PARTY J. Watkins, Jr. June 1965 HLG and JMC RECOVERED BY ESTABLISHED BY None 2. HORIZONTAL CONTROL <u>June 1965</u> HLG and JMC PRE-MARKED OR IDENTIFIED BY RECOVERED BY NA NA ESTABLISHED BY 3. VERTICAL CONTROL ΝA PRE-MARKED OR IDENTIFIED BY None RECOVERED (Triangulation Stations) BY None 4. LANDMARKS AND LOCATED (Field Methods) BY AIDS TO NAVIGATION None IDENTIFIED BY TYPE OF INVESTIGATION COMPLETE 5. GEOGRAPHIC NAMES SPECIFIC NAMES ONLY INVESTIGATION X NO INVESTIGATION CLARIFICATION OF DETAILS BY None 6. PHOTO INSPECTION NA SURVEYED OR IDENTIFIED BY 7. BOUNDARIES AND LIMITS II. SOURCE DATA 2. VERTICAL CONTROL IDENTIFIED 1. HORIZONTAL CONTROL IDENTIFIED Premarked (Paneled) STATION DESIGNATION PHOTO NUMBER STATION NAME PHOTO NUMBER OUT, 1901 (Paneled direct) 65 L(P) 4437 REEF, 1942 (Paneled direct) 65 L(P) 4434 3. PHOTO NUMBERS (Clarification of details) None 4. LANDMARKS AND AIDS TO NAVIGATION IDENTIFIED None OBJECT NAME PHOTO NUMBER PHOTO NUMBER OBJECT NAME

5. GEOGRAPHIC NAMES: REPORT

7. SUPPLEMENTAL MAPS AND PLANS

None

8. OTHER FIELD RECORDS (Sketch books, etc. DO NOT list data submitted to the Geodesy Division)

⊠ NONE

2 Forms 152 (CSI Cards), Field Report (2 pages)

REPORT

6. BOUNDARY AND LIMITS:

K NONE

NOAA FORM 76-36D

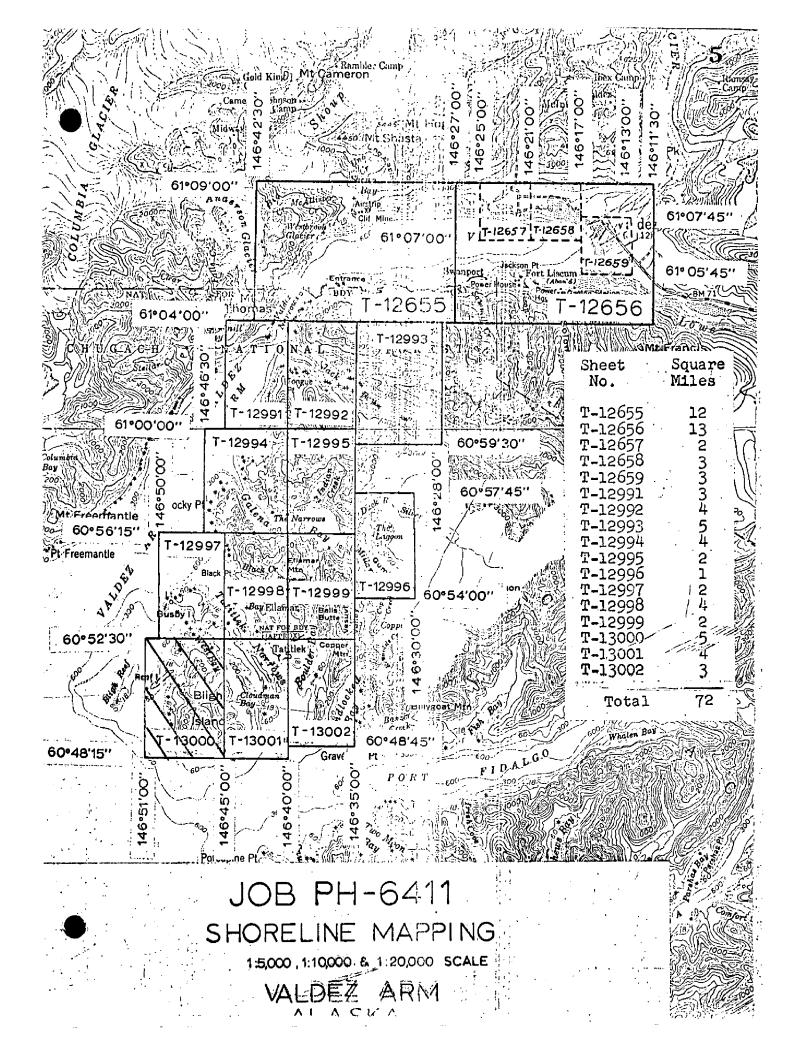
(3-72)

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

T-13000

RECORD OF SURVEY USE

	RECORD OF SURVEY USE						
I. MANUSC	MANUSCRIPT COPIES						
	Col	MPILATION STAGE	s		DATE MANUSCRI	PT FORWARDED	
	DATA COMPILED	DATE	REM	ARK5	MARINE CHARTS	HYDRO SUPPORT	
Compil:	ation complete		Class III 1	nanuscript	June 1966	June 1966	
Final	Review, Class III		Final Class No field ed:	III Map it performed			
	ARKS AND AIDS TO NAVIGA				<u> </u>		
1. REP	1. REPORTS TO MARINE CHART DIVISION, NAUTICAL DATA BRANCH						
NUMBER	CHART LETTER Number Assigned	DATE FORWARDED		REN	MARKS		
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]					
1							
2. [] 3. []	REPORT TO MARINE CHART	DIVISION, COAST	PILOT BRANCH.	DATE FORWARDE	D: DATE FORWARDED:		
	3. REPORT TO AERONAUTICAL CHART DIVISION, AERONAUTICAL DATA SECTION. DATE FORWARDED:						
i							
	1. 🔀 BRIDGING PHOTOGRAPHS; 🗓 DUPLICATE BRIDGING REPORT; 😿 COMPUTER READOUTS.						
2. 🗔	2. TO CONTROL STATION IDENTIFICATION CARDS; FORM NOS 567 SUBMITTED BY FIELD PARTIES.						
3. <u> X</u>	3. X SOURCE DATA (except for Geographic Names Report) AS LISTED IN SECTION 11, NOAA FORM 76-36C. ACCOUNT FOR EXCEPTIONS:						
	noopen: (on another trains)						
4 🗆	DATA TO FEDERAL RECO	RDS CENTER. DA	TE FORWARDED:				
IV. SURV	EY EDITIONS (This section :			edition is registere	od)		
	SURVEY NUMBER	JOB NÚMBI (2) PH	_	Пв	TYPE OF SURVEY		
SECOND			FIELD EDIT	,	MAP CLASS		
EDITION	DATE OF THE COMM			(II). (II)	. 🗆 iv. 🗀 v.	FINAL	
	SURVEY NUMBER	JOB NUMBS	ER		TYPE OF SURVEY		
THIRD	TP	(3) PH		. □ RI		SURVEY	
EDITION	DATE OF PHOTOGRAP	HY DATE OF F	FIELD EOIT	_nn	MAP CLASS	FINAL	
 	SURVEY NUMBER	JOB NUMB	ER		TYPE OF SURVEY		
FOURTH				Li≉		SÜRVÉY	
EDITIO	DATE OF PHOTOGRAP	HY DATE OF	FIELD EDIT		MAP CLASS I. □IV. □V.	DFINAL	



SUMMARY TO ACCOMPANY DESCRIPTIVE REPORT T-13000

This 1:10,000 scale final Class III shoreline map is one of seventeen maps that comprise project PH-6411, Valdez Arm, Alaska. The project consists of two 1:20,000, three 1:5,000 and twelve 1:10,000 scale maps. The project originally pertained to the Port Valdez area but was extended south to include the east shore of Valdez Arm and Tatitlek Narrows.

The purpose of this map was to provide shoreline data in support of hydrographic operations.

This map features the shoreline along the western side and much of the southern portion of Bligh Island, all of Reef Island and all but a small portion of West Bay.

Photo coverage for this map was adequately provided by 1:30,000 scale panchromatic and 1:15,000 scale color photographs. All photography was taken July 6, 1965 with the RC-8 (L) camera. The panchromatic photographs were used for aerotriangulation, compilation, and photo-hydro support. The lower altitude color photographs were used to assist the compiler in offshore interpretation.

Field work prior to compilation consisted of the recovery and identification (premarking) of horizontal control necessary for aerotriangulation. Also, the field party was responsible for assisting in obtaining aerial photography. This activity was performed in June/July 1965.

Analytic aerotriangulation was adequately provided by the Washington Science Center in November 3, 1965. This activity also included ruling the base manuscripts and providing ratio photographs for compilation.

Compilation by interpretation of the 1:30,000 scale photographs was performed at the Coastal Mapping Section, Atlantic Marine Center, May 1966. Color contact photographs at 1:15,000 scale were used to assist in the interpretation of offshore features. Photo-hydro support data involving the original Class III manuscript was forwarded to the hydrographer.

Although there was hydrographic activity within the area covered by this map in both 1973 and 1976, there was no field edit performed by either hydrographic party.

Final review was performed at the Atlantic Marine Center June 1984. A Chart Maintenance Print was prepared and forwarded to the Marine Chart Branch.

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

FIELD INSPECTION

T-13000

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

Project 21423(4) Valdez, Alaska June, 1965

All horizontal control stations required for photo control were identified with the exception of CROMBIE, 1941 (T-12656). This station was on a high ridge still covered with considerable snow. Identification would probably have been doubtful. Station FILL (temporary) was established by tellurometer traverse and its substitute stations are identifiable on the same flight line of photographs that would cover CROMBIE. Station PIT (temporary) was determined by triangulation methods. Stations PIT and FILL replaces VALDEZ SOUTHEAST BASE, 1941 and VALDEZ NORTHWEST BASE, 1941.

Station MAS (temporary) (t-12655) was determined by triangulation intersection methods. Station SPIT 2 (temp.) was determined by triangulation methods to replace station SPIT, 1901.

Station HUT 3, 1965 was identified in lieu of station HUT 2 which was reported lost. The unadjusted field position was not available at the time of identification as the geodetic party had only recently occupied the station.

Submitted:

n Robert B. Melby

Approved:

John B. Watkins, Jr.

Chief of Party

Project 21423(11) Tatilek Narrows, Alaska June 1965

All horizontal control stations required for photo control were identified and paneled. Two new stations were located by triangulation intersection methods and six by closed loop tellurometer traverse.

Station MAS (temp.) was located and its position is submitted with the Valdez, Alaska field data, project 21423(4). The recovery note for HUT3, 1965 was also submitted with the Valdez field data.

Submitted:

Rollin

Robert B. Melby

Approved:

John B. Watkins, Jr., CDR, C&GS Comdg., Ship HODGSON

Photogrammetric Plot Report Tatitlek Narrows, Alaska Job PH-6411

21. Area Covered

The project covers the east shore of Valdez Arm and all of Tatitlek Narrows area. The T-sheets in this area are: T-12991 through 12999 and T-13000 through T-13002.

22. Method

Six bridges were run on the stereoplanigraphs and adjusted by IBM 1620 methods. All tie points between strips were averaged. Tie points were also established in the area of Port Valdez Bay; to be bridged at a later date.

23. Adequacy of Control

The premarked control provided was adequate with the exception of BUSBY, 1942. The panels at this station blended into the background on the black and white photograph and could not be seen. The overhang and shadows of trees also made it difficult to see Busby Island Lt., 1947, which was in the immediate vicinity of BUSBY, 1942.

Strip #12 was based on a three point solution using stations JACK, 1901, OVAL, 1965 and SLIM, 1965. Stations OVAL and SLIM were established with very slim angles and no means of checking their accuracy was available. Although adjustment held all three stations with small errors of closure, an error may still exist in the area of Jacks Bay.

All additional control held within National Map Accuracy Standards for 1:10,000 scale mapping.

24. Supplemental Data

USGS Quads, Cordova D-8 and Valdez A-8, scale 1:63,360 were used to provide baise vertical control for bridging operations.

25. Photography

Photography was adequate in coverage, overlap and definition.

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26. Plotting Constants

Plotting constants for 1:10,000 scale manuscripts were provided for all bridge points.

27. Ratios

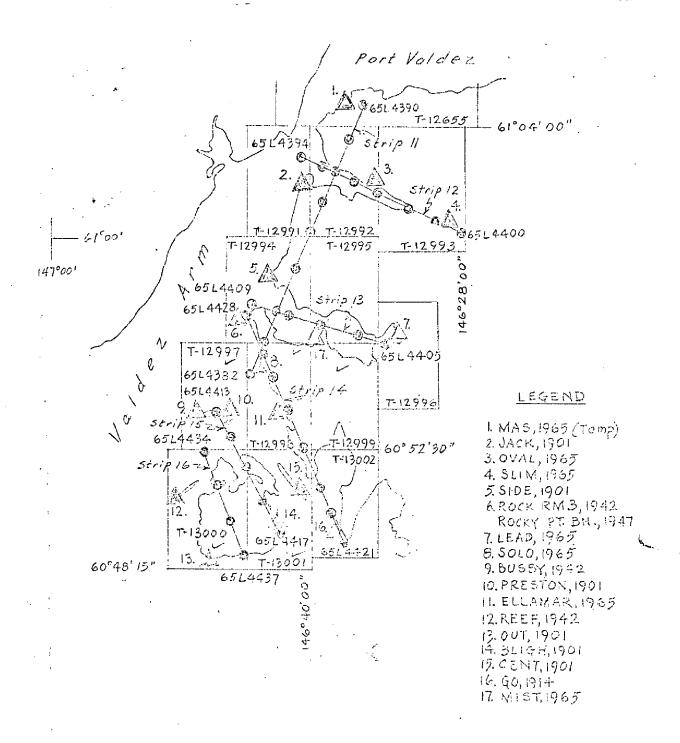
Ratios for 1:10,000 scale photography were provided for all strips.

Submitted by:

Wallace Heinbaugh

Warrenber 3, 1965

Approved by:



TATITLEK NARROWS, RIASKA PH-3411 Nov. 1965

Page 13 Page 14 Page 15 Page 16 Page 17 Page	(6-75) MAP NO.						
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19-01 PH-6411		JOB NO.		GEODETIC DATUM	ORIGINATING ACTI COASTAL MADI	ping Unit, 1	Atlantic
STATION NAME SQUARTON NAME	T-13000	PH-6411		NA 1927	Marine Cent	er, Norfolk	ᅬ
No. 88, 1901 Page 11 Page 12 Page 13	FACE STATES	SOURCE OF	AEROTRI-	COORDINATES IN FEET STATE Alaska	GEOGRAPHIC POSITION A LATITUDE	REMA	RKS
No. 88, 1901 Quad 60146 Referration Alabola (4.26") 518.8 1 No. 88, 1901 Page 13		(Index)	POINT NUMBER			FORWARD	BACK
NO. 88, 1901 Page 11 pg 1 y= λ 146°46 144.26" 668.3 mm s 1.00 1901 Page 8 bg 8 lg mage 60146 x= φ 60°50'43.28.29" 715.0 1901 Page 13 mg mg 60146 x= φ 60°50'43.296" 715.0 1942 Quad 60146 x= φ 60°50'43.926" 715.0 1942 X= φ 746°50'36.831" 556.3 x= φ 7 x= φ 7 x= φ 7 x= <		ļ		*X=	60°51'16.76"	518.8	1338.4
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COMPILATION REPORT T-13000

31 - DELINEATION

Delineation was accomplished using stereo instrument compilation methods. The Kelsh plotter was used to delineate shoreline, alongshore and interior detail based upon office interpretation of the 1:30,000 scale bridging/compilation panchromatic photographs.

All photographs used to compile this map are listed on NOAA Form 76-36B. The photography was adequate.

32 - CONTROL

Refer to the Photogrammetric Plot Report dated November 3, 1965.

33 - SUPPLEMENTAL DATA

Color contact photographs 65 L(C) 4533 - 4538 and 65 L(C) 4584 - 4586 were provided at 1:15,000 scale to assist in the interpretation of alongshore and offshore detail.

34 - CONTOURS AND DRAINAGE

Contours are not applicable to this project. Drainage was compiled by office interpretation of the photographs.

35 - SHORELINE AND ALONGSHORE DETAILS

The mean high water line was compiled from office interpretation of the compilation photographs. Areas labeled foul with rocks were delineated by office interpretation of the photographs and represent areas of dense rocks and/or ledge. Although these foul areas are in close along the shoreline, they do not represent an approximate mean lower low water line.

No mean lower low water line was compiled due to the stage of tide of the compilation photographs being 4.1 feet above mean lower low water.

36 - OFFSHORE DETAILS

Offshore detail was compiled by instrument methods as described in item #31.

37 - LANDMARKS AND AIDS

There are no charted landmarks or navigational aids within the mapping limits of this manuscript.

T-13000

38 - CONTROL FOR FUTURE SURVEYS

None.

39 - JUNCTIONS

Refer to the Data Record Form 76-36B, Item 5.

40 - HORIZONTAL AND VERTICAL ACCURACY

Refer to the Photogrammetric Plot Report dated November 3, 1965.

46 - COMPARISON WITH EXISTING MAPS

A comparison was made with the following U.S. Geological Survey Quadrangle: Cordova (D-8), Alaska, dated 1952, scale 1:63,360.

47 - COMPARISON WITH NAUTICAL CHARTS

A comparison was made with the following USC&GS Chart: 8519, 8th edition, dated May 17, 1965, scale 1:79,291.

ITEMS TO BE APPLIED TO NAUTICAL CHARTS IMMEDIATELY

None.

ITEMS TO BE CARRIED FORWARD

None.

Submitted by,

Juny 2 Harwork In K. Boyle

Cartographic Aid

May 1966

Approved,

Albert C. Rauck, Jr.

Juny 1. Harrock

Chief, Coastal Mapping Unit, AMC

REVIEW REPORT T-13000 SHORELINE

61. GENERAL STATEMENT

Final review for this final Class III map was accomplished at the Atlantic Marine Center in June 1984. For a schedule of the office and field operations, refer to the Summary included in this Descriptive Report.

62. COMPARISON WITH REGISTERED TOPOGRAPHIC SURVEYS

Not applicable.

63. COMPARISON WITH MAPS OF OTHER AGENCIES

A comparison was made with the following USGS quadrangle: Cordova (C-8), Alaska, dated 1952, 1:63,360 scale.

64. COMPARISON WITH CONTEMPORARY HYDROGRAPHIC SURVEYS

A comparison was made with registered copies of the following contemporary hydrographic surveys: H-9636, 1:10,000 scale, field surveyed July 1976; and H-9384, 1:10,000 scale, field surveyed July and August 1973.

No field edit of the shoreline map was accomplished by the hydrographer although there were areas common to both hydrographic survey limits. Some of the field nonverified shoreline and alongshore details from the shoreline map were applied to the smooth sheets.

During the original compilation, various shallow, ledge and foul limits were delineated as advisory information to the hydrographer. Since this map was not field edited, many of those areas were removed from the manuscript during final review. Foul areas were retained, however, where the compilation photographs indicate dense rocks.

65. COMPARISON WITH NAUTICAL CHARTS

A comparison was made with NOS Chart 16708, scale 1:79,291, 16th edition, dated October 3, 1981.

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,

Amy & Harrich

Jerry L. Hancock Final Reviewer Approved for forwarding,

Billy H. Barnes

Chief, Photogrammetric Section, AMC

Approved,

Chief, Photogrammetric Section, Rockville

Chief, Photogrammetric Section

Rockville

GEOGRAPHIC NAMES

FINAL NAME SHEET

PH-6411 (Valdez Arm - Tatitlek Narrows, Alaska)

TP-13000 QUA

.: Bligh Island

Port Fidalgo

Prince William Sound

Reef Island

Valdez Arm

West Bay

Approved by:

Charles E. Harrington Chief Geographer

Nautical Charting Division

FORM C&GS-8352 (3-28-63)

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 Rev.

CHART	DATE	CARTOGRAPHER	REMARKS
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