T-12806





Form 504

U. S. DEPARTMENT OF COMMERCE
COAST AND GEODETIC SURVEY

DESCRIPTIVE REPORT

PH-6409

Type of Survey ShoreLine (Photogrammetric)

Field Failed Map T-12806

LOCALITY

State ALASKA	41,	`>
Jac		

General locality ORCA INLET

Locality SPIKE ISLAND

1964-1966

CHIEF OF PARTY

CHIEF OF PARTY

H. J. SEABORG

COMPILATION OFFICE P. A. STAF

LIBRARY & ARCHIVES

DATE

USCOMM-DC 5087

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FORM C&GS-181a

U.S. DEPARTMENT OF COMMERCE COAST AND GEODETIC SURVEY

•	DESCRIPTIVE RE	PORT - DAT T = 12806			
PROJECT NO. (II):	<u> </u>				
21423	(2) PH-6409				
TELD OFFICE (II):			CHIEF OF PARTY		
SHIP P	ATHFINDER			н.	J. SEABORG
PHOTOGRAMMETRIC OFFICE (III):		_ .	OFFICER-IN-CHARG	 3E	
PORTLA	ND, OREGON			₽•	A. STARK
STRUCTIONS DATED (II) (III):			<u> </u>		
Dесемв	ER 7, 1964				
			-		
			•		
•					
ETHOD OF COMPILATION (III):		- -	-		
KELSH	NSTRUMENT				
ANUSCRIPT SCALE (III):		STEREOSC	OPIC PLOTTING INST	RUMENT SCA	LE (III): 1:5.00(
1:5,000)				,
DATE RECEIVED IN WASHINGTON	DATE REP	ORTED TO NAUTICAL	CHART BRA	NCH (IV):	
May	1977				
APPLIED TO CHART NO.		DATE:		DATE REGIS	TERED (IV):
				AVE	- 1977
GEOGRAPHIC DATUM (III):			VERTICAL DATUM		1HW
			MEAN SEA LEVEL	EXCEPT AS-	FOLLOWS:
N.A. 19	927		Elevations shown as		
			Elevations shown as	_	-
			<u> </u>		
REFERENCE STATION (III): TOWN,	1933				
	LONG.:		T		
	145° 45' 28	3.633"	X ADJUSTED		
60° 33' 01.406"					ZONE
			STATE		ZONE
PLANE COORDINATES (IV): Y = 2,393,178.46 F1.	×= 543,570.75		STATE ALAS		3

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C	OAS	т	A.	NΒ	GE	ΞÓ	DΕ	TI	c	SU	R	٧I	Œ.	Y

DESCRIPTIVE REPORT - DATA RECORD

FIELD INSPECTION BY (II):		DATE:
None		
MEAN HIGH WATER LOCATION (III) (STATE DATE	AND METHOD OF LOCATION):	
	4 05 4544	
KELSH INSTRUMENT	August 25, 1964	
PROJECTION AND GRIDS RULED BY (IV):		DATE
A. E. ROUNDTREE		12-3-64
PROJECTION AND GRIDS CHECKED BY (IV):		DATE
P. Hawkins		
CONTROL PLOTTED BY (III):		DATE
D. N. WILLIAMS		12-21-64
O. 14. MILLIAME		12-21-04
CONTROL CHECKED BY (III):		DATE
L. L. GRAVES		12-21-64
RADIAL PLOT OR STEREOSCOPIC CONTROL EXT	ENSION BY (III):	DATE
W. HEINBAUGH	ENGION DI WIII.	11-18-64
	DI ANNETOY	DATE
STEREOSCOPIC INSTRUMENT COMPILATION (III):	R. H. MEYER	1-8-65
	CONTOURS	DATE
MANUSCRIPT DELINEATED BY (III):		DATE
C. C. HARRIS	1_13_65	
SCRIBING BY (III):		DATE
A. Shands		Nov. 1966
PHOTOGRAMMETRIC OFFICE REVIEW BY (III):		DATE
D. N. WILLIAMS		1-21-65
REMARKS:		Sept. 1965 and May 1966
I FIRM FOIF		

DESCRIPTIVE REPORT - DATA RECORD

CAMERA (KIND OR SOURCE) (III):

	Dir	OTOCDABUS (III)				
		OTOGRAPHS (III)		1 .	TAGE OF TI	
64 S 6892 AND 64 S 6893	8-25-64	0955	1:30,000		ABOVE M	
64 S 6788 AND 84 S 6789		-0850		0.5 FT	п	11
64 S 6941 THRU 64 S 6944	n.	1035	1:15,000	5.1 FT		n
662 5617 - thro 5619	9 July 1966	1649	1:10,000	10,0 ft.	abore 1	4xxxx
		TIDE (III)				DIURNAL
				RATIO OF RANGES	MEAN RANGE	-SPRING- RANGE
REFERENCE STATION:	CORDOVA				10.0 FT	12.4 F1
SUBORDINATE STATION:						
SUBORDINATE STATION:						
WASHINGTON OFFICE REVIEW BY	(IV): Leo F. Beug,	net, Atlantic M	larine Center	Apri.	1 1967	
PROOF EDIT BY (IV): J. B	. Phillips	ROCKVIII	le, Md.		une 1	977
NUMBER OF TRIANGULATION STATIONS SEARCHED FOR (II): RECOVERED: 2 IDENTIFIED: 2						
NUMBER OF BM(S) SEARCHED FO	OR (II):		RECOVERED:	IDENTIFI	ED	
NUMBER OF RECOVERABLE PHO	TO STATIONS ESTABLE	SHED (III): No	ONE			
NUMBER OF TEMPORARY PHOTO	HYDDO STATIONS EST	ADLIEUED (III)	None			

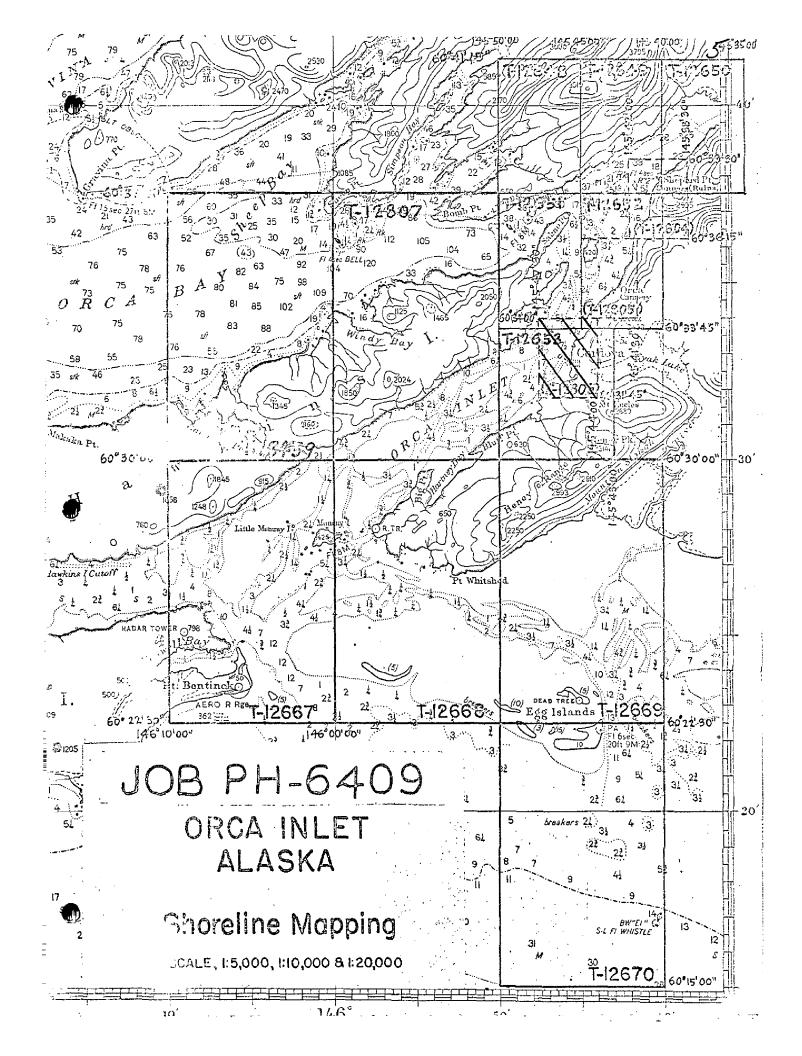
REMARKS:

T-12806 COMPILATION RECORD

COMPLETION DATE

REMARKS

Same a grant Thirtier or any and a general special state of the state of the properties of the state of the s	ومستخدا مودهان وروس کارمورون میکند. در کارمونی برای دول دول و بروی برای بازد که آسان شود در بروی بروی برای	n der men frem finger in die das jest, der meter began der meter seinen ihre Basilieren a. v. An dem finde al terseguischen dem meter began der meter beschieden der
Alongshore area for hydro	January 1965	Superseded
Field Edit applied: subject to further verification	November 1965	Superseded
Second Field Edit applied	May 1966	,
Revisions from Lat. 60 32'15" to Lat. 60 84'00" made from Photos 66-1-5617 & 66-1-5618	September 1966	
Final Review	April 1967	



SUMMARY TO ACCOMPANY DESCRIPTIVE REPORT T-12806

Shoreline survey T-12806, is one of fifteen similar maps in project PH-6409. The primary purpose of the project was to provide new shoreline for nautical charts and photo-hydro support data for hydrographic surveys to be made in the same area.

Field work preceding compilation, by Kelsh Instrument methods, consisted of recovery and/or establishment and identification of horizontal control. There was no field inspection prior to compilation.

Compilation was at 1:5,000 scale using the panchromatic photography of August 25, 1964. A cronaflex copy of the manuscript along with specially prepared ratio photographs were provided for preparation of the hydrographers boatsheet, location of photo-hydro signals and field edit purposes.

The manuscript is a vinylite sheet 2 minutes 15 seconds in latitude by 3 minutes 30 seconds in longitude which was scribed and reproduced on cronaflex. One cronar positive and one cronar negative are provided for record and registry.

FIELD INSPECTION REPORT T-12806

There was no field inspection prior to compilation.





DESCRIPTIVE REPORT CONTROL RECORD

DISTANCE FROM GRID OR PROJECTION LINE IN METERS ($I\ Pt. = 3048006\ meter)$ 8 (BACK) N.A. 1927 - DATUM 12-21-64 SCALE FACTOR FORWARD DATE LATITUDE OR Y COORDINATE 1:5,000 L.L.G. 2,389,246.6 2,391,493.8 543,627.6 2,392,043.6 541,999.4 543,229.2 2,388,238.0 540,053.9 541,567.0 2,393,178.5 543,570.8 2,395,196,3 544,073.8 2,392,401.7 2,393,296.4 542,089.1 SCALE OF MAP __ CHECKED BY ¥. 1927 DATUM = = = = = = = 12-18-64 P.15 21423 (2) 4. 2 ij : UNADJUSTED FIELD POSITION E SOURCE OF (INDEX) ALASKA ALABKA 60145 ALABKA 60145 60145 = = = = DATE PROJECT NO. CORDOVA BOAT HARBOR LIGHT CORDOVA RADIO MAST, 1955 C-15 + 13.00 (USE) 1948 HOUSE WEST GABLE 1899 C.H.B. STATION MAP T- 12806 COPPER CITY, BUNCO 1899 1964 **EYAK 1933** NARD 1933 TOWN 1933 COMPUTED BY



Aerotriangulation Report Project 21423 Orca Inlet, Alaska

21. Area Covered

The area covered by this report on aerotriangulation bridging encompasses the shoreline of Orca Inlet, Alaska (T-12648 through T-12652 and the northeast portion of T-12653).

22. Method

Three strips of photography (64S 6892-98), (64S 6787-92) and (64S 6909-15) were bridged on the stereoplanigraph and were adjusted by IHM 1620 methods.

Plotting coordinates are furnished at 1:5,000 scale for T-12804, T-12805 and T-12806 and at 1:10,000 scale for T-12648 through T-12653.

Positions of tie points were meaned when necessary.

23. Adequacy of Control

Horizontal control provided was adequate as to location and quality to control the bridges within the limits of accuracy required by National Map Accuracy Standards. However, a portion of the shoreline of T-12653 cannot be compiled since control station, Travel 2, could not be held. Each attempt to use Travel 2 as the terminal point (Strip 3) resulted in large residuals for other control stations in that bridge. An adjustment of the bridge, with Orca Bay, South Bldg., West Gable (1955) as the terminal station, was made and the resulting foreshortened bridge held satisfactorily. No explanation of the failure of station Travel 2 to hold is apparent. The station should be re-identified to provide control for that portion of the shoreline.

24. Supplemental Data

USGS quadrangles Cordova, Alaska (B-5, B-6, C-5 and C-6) scale 1:53,360, 1953 edition were used to provide vertical control where needed.

25. Photography

Photography was adequate as to coverage, overlap and definition.

Approved by:

Submitted by:

John D. Perrow, Jr.

W. Heinbaugh

Aerotriangulation Report Project 21423 Orca Inlet, Alaska Supplemental Report

Re-identification of Station Travel 2, 1964 provided means of extending Strip #1 to the southern limits of T-12653. A straight line adjustment was run from Cordova Jetty Lt. 1964 to Travel 2, 1964 with Across 1933 plus four tie points as checks.

Residuals plus ties indicate the bridge is good. However, if future work is planned to the south of T-12653 it is recommended that bridging extend to Cordova Jetty Lt. 1964 in order to obtain proof of the tie.

John D. Perrow, Jr.

COMPILATION REPORT T-12806

31. DELINEATION:

Planimetry was compiled by Kelsh Instrument from office interpretation of the photography.

The area on this manuscript southwest of latitude 60° 32' 15" longitude 145° 46' 00" was not compiled at this time due to the bridging difficulties stated in the Aerotriangulation Report. This area will be completed at a later date.

32. =CONTROL:

The supplemental control, established by aerotriangulation, was adequate for delineation of that part of the manuscript northeast of latitude 60° 32° 15° longitude 145° 46° 00°.

33. SUPPLEMENTAL DATA:

None

34. CONTOURS AND DRAINAGE:

Contours inapplicable.

The drainage was compiled by the Kelsh operators using the U.S.G.S. quadrangle as a guide.

35. SHORELINE AND ALONGSHORE DETAILS:

Shoreline and alongshore details were delineated from office interpretation of the photograph as no field inspection was available.

36. OFFSHORE DETAILS:

Offshore details were located during Kelsh compilation from office interpretation of the photographs.

37. LANDMARKS AND AIDS:

One landmark, HOUSE, shown on charts 8520 and 8525 at latitude 60° 33.5° longitude 145° 44.9° was not visible on the photography and was not delineated.

Two fixed aids to navigation fall with-in the limits of this survey and are listed on form 567.

38. CONTROL FOR FUTURE SURVEYS:

None

39. JUNCTIONS:

Satisfactory junction was made with 1:5,000 scale manuscript T-12805 to the north and with the surrounding 1:10,000 scale manuscripts T-12651, T-12652 and T-12653.

40. HORIZONTAL AND VERTICAL ACCURACY:

46. COMPARISON WITH EXISTING MAPS:

Comparison was made with U.S.G.S. CORDOVA (C-5) ALASKA, 15 minute quadrangle, 1:63,360 scale, edition of 1951.

47. COMPARISON WITH NAUTICAL CHARTS:

Comparison was made with the following nautical charts:

8525, scale 1:30,000 July 27, 1964 8520, scale 1:80,000 July 220, 1964 8551, scale 1:200,000 April 15, 1963

Items to be applied to Nautical Charts immediately:

None

Items to be carried forward:

None

Approved:

P. A. Stark, CDR, C&GS

Portland Field Office

Submitted:

Donnel N. Williams

Cartographer

ADDENDUM TO COMPILATION REPORT

The area of this map southwest of latitude 60° 32° 15° longitude 145° 46° 00° was delineated in the fall of 1965 after aerotriangulation was extended to station TRAVEL22 1964.

The area in and around Cordova Boat Harbor was revised in September 1966 from photography obtained July 9, 1966.

48. GEOGRAPHIC NAMES LIST:

The approved geographic names listed below were furnished by the Washington office on U.S.G.S. CORDOVA (C-5) ALASKA, 15 minute quadrangle, scale 1:63,360, edition 1951.

CORDOVA
ECCLES CREEK
FLEMING CREEK
FLEMING SPIT
ODIAK SLOUGH
ORCA INLET
SPIKE ISLAND

49. NOTES TO THE HYDROGRAPHER:

None

1 (- 13-61)	PHO	TOGRAMMET	RIC OFFICE REVIEW	COAST AND GEODETIC SURVEY
50 .	1 110		N723 2606	
	2. TITLE	T-1	2000 13. MANUSCRIPT NUMBERS	4. MANUSCRIPT SIZE
PROJECTION AND GRIDS	2. 11112		2. MANOSCRIPT NUMBERS	4. MANUSCRIPT SIZE
DNW	D1	IW	DNW	DNW
CONTROL STATIONS		- 		
MORIZONTAL CONTROL STA THIRD-ORDER OR HIGHER A	CCURACY	6. RECOVERA OF LESS TH (Topographi	BLE HORIZONTAL STATIONS IAN THIRD-ORDER ACCURACY c stations)	7. PHOTO HYDRO STATIONS
DNW			NONE	NONE
BENCH MARKS	9. PLOTTING OF	F SEXTANT	10. PHOTOGRAMMETRIC PLOT REPORT	11. DÉTAIL POINTS
NONE	NO)NE	DNW	DNW
LONGSHORE AREAS (Nautical				_ _
2. SHORELINE	13. LOW-WATER	LINE	14. ROCKS, SHOALS, ETC.	15. BRIDGES
DNW	Di	IW	DNW	DNW
6. AIDS TO NAVIGATION	17. LANDMARK	s .	18. OTHER ALONGSHORE PHYSICAL FEATURES	19. OTHER ALONGSHORE CULTURAL FEATURES
DNW	l Di	IW	DNW	DNM
PHYSICAL FEATURES		vve	<u> Diw</u>	
O. WATER FEATURES		21. NATURAL	GROUND COVER	22. PLANETABLE CONTOUR
-				
DNW			NW	NONE
3, STEREOSCOPIC INSTRUMENT CONTOURS	24. CONTOURS	IN GENERAL	25. SPOT ELEVATIONS	26. OTHER PHYSICAL FEATURES
NONE CULTURAL FEATURES	l No	ONE	NONE	DNW
27, ROADS	28. BUILDINGS	_ <u>_´</u>	29. RAILROADS	30. OTHER CULTURAL FEATURES
DNW	DI	tw	DNW	DNW
BOUNDARIES B. BOUNDARY LINES			120	
			32. PUBLIC LAND LINES	
NONE			NONE	
MISCELLANEOUS 33. GEOGRAPHIC NAMES		34. JUNCTION	IS	35. LEGIBILITY OF THE
DNM			DNW	DNW
36. DISCREPANCY OVERLAY	37. DESCRIPTI	VE REPORT	38. FIELD INSPECTION PHOTOGRAPHS	39. FORMS
Than v		ufo a	7,477 7	547.
DNW 10. REVIEWER	<u> </u>	<u>MM</u>	DNW SUPERVISOR, REVIEW SECTION	DNW ON OR UNIT
				_
Donnel N. Willia 41. REMARKS (See attached shee			Leo F. Beugne	t
FIELD COMPLETION ADDITION		TIONS TO THE	MANUSCRIP T	
42. Additions and corrections script is now complete exc	fumished by the	e field comple der item 43.	tion survey have been applied	to the manuscript. The manu-
COMPILER			SUPERVISOR	0 41
			Albert C.	Rauck. J.
L. Neterer Reviewed by: C.			1	•



FORM CD-121 (11-63) (PHES, BY A.O. 266-10)

UNITED STATES GOVERNMENT

Temorandum

U.S. DEPARTMENT OF COMMERCE COAST AND GEODETIC SURVEY

ENVIRONMENTAL SOTMICE SERVICES ADJUSTED TRATION

TO

Chief, Photogrammetry Division

DATE: May 7, 1966

In reply refer to:

FROM :

Commanding Officer USCAGS Ship HODGSON

SUBJECT:

Mield Edit - Orca Inlet

Project 21423 (2) Job PH-6409

Photographs, manuscripts and ozalids for the above project are returned under separate cover. The required field edit has been accomplished and appropriate notes made on the photographs and ozalids. Upon re-compilation the advance manuscripts and photos should be returned to Seattle processing office for application of shoreline to smooth sheets and final signal location.

John B. Warkins, Jr

cc:

PACHARCEN





Shoet T-12806

New photos scholaret at the soo Pan film =/11/22

Discrepancies as noted were verified in the field. See photo no. $6l_1369l_2$ 1/5000. Please note the changes to the area about the small boat basin. To scale sketch has been made of the area as found in May 1966. Other changes are contemplated and it is recommended that a stereo triplet be obtained in mid-summer for updating. The MAW line is shown in purple about the fill area as requested.

Sheet T-12649

Discrepancies as noted were verified in the field and appropriate notes made in purple on photo no. 6486785 1/10,000.

Sheet T-12652

Discrepancies as noted were verified in the field and appropriate notes made in purple on photo no. 6456786, 6456787, 6456949, 1/10,000. Please note new MRML for western side of observation island.

Sheet 1280A



Discrepancies as noted were verified in the field. Applicable notes were made on the ozalid.

Sheet 12805

Discrepancies as noted were checked in the field. See also sheet T-12652.

Sheet T-12653

All discrepancies as noted were verified on photo nos. 6487353, 6486391, 6487350, 1/10,000 and 6486943, 1/5000. All shoreline verified is shown in purple on the photos.

New photos sensialadi at//10,000 Pan. In the area SW of station MAUD 2, 1964, photo no. 6426397 considerable activity by the Corps of Engineers makes MAW verification impracticable at this time. More recent photography is required. It is recommended that a stereo triplet be made of the area in mid-surmer for final shoreline detail of this area.

5/11/65 1984

On photo no. 6486943 changes were made to shoreline from that shown in 1965 in red. These changes (1966) are shown in purple on the photo.

Sheet T-12648

All discrepancies as noted by the compiler were checked and appropriate notes made on the osalid with the exception of Simpson Bay. This area was not within the project limits.

Sheet T-12650

Listrepancies as noted were verified in the field. IHML was inked in purple on photo no. 6486952 and 6486953, 1/10,000.

Sheet T-12651

Discrepancies as noted were verified in the field. All references are made to photo no. 6456784, 1/10,000. Notes with "LL" indicate a lead line sounding at the applicable time. Shoreline verification is shown in purple on the photo. Several rocks not noted on the discrepancy sheet were added and applicable notes made.

REVIEW REPORT T-12806 SHORELINE April 1, 1967

61. GENERAL STATEMENT

See Summary accompanying Descriptive Report.

62. COMPARISON WITH REGISTERED TOPOGRAPHIC SURVEYS

Comparison was made with Registered Survey No. 3648, 1:20,000 scale made 1916 on Valdez Datum. The comparison of the two surveys is shown on the comparison print.

Manuscript T-12806 supersedes the older survey for nautical chart construction purposes.

63. COMPARISON WITH MAPS OF OTHER AGENCIES

Comparison was made with U.S.G.S. CORDOVA (C-5), ALASKA quadrangle, 1:63,360 scale, edition of 1951 with minor revisions made in 1962. The two surveys are in good general agreement except in the area of CORDOVA where changes in the shoreline and along-shore structures have been made.

64. COMPARISON WITH CONTEMPORARY HYDROGRAPHIC SURVEYS

From latitude 60° 32° 30" northward to latitude 60° 33° 45" comparison was made with a copy of boatsheet H0-05-1-65.

The shoreline for the boatsheet was obtained from an Incomplete Manuscript and is not in agreement with the Advance Manuscript. The area of CORDOVA boat harbor, on the Advance Manuscript, was compiled using photography obtained on 9 July 1966 and reflects changes to that date.

In the areas to the north and south of boatsheet H0-05-1-65 comparison was made with a copy of boatsheet H-8853, PF-10-1-64. The source of the shoreline for this boatsheet is unknown and is not in agreement with the Advance manuscript.

An approximate mean lower low water line has been shown on the manuscript for any aid it may be to the chart compiler. However, it appears that there are sufficient soundings on the boatsheets to adequately delineate this line.

65. COMPARISON WITH NAUTICAL CHARTS

Comparison was made with Nautical chart 8525, 1:30,000 scale, 8th edition, March 14, 1966, Revised November 14, 1966 and chart 8520, 1:80,000 scale, 13th edition, March 7, 1966.

It appears that the CORDOVA Boat Harbor area on chart 8525 has been revised from photography as it is in good agreement with the Advance Manuscript. The same area on chart 8520 does not appear to have been revised.

Because of the difference in scale of the charts and manuscript only a visual comparison was made.

66. ADEQUACY OF RESULTS AND FUTURE SURVEYS

This survey complies with instructions and meets the Nautical Standards of Map Accuracy.

Approved by:

Reviewed by:

John Bull, RADM. Director,

Atlantic Marine Center

Leo F. Beugnet

Approved by:

Chief, Photogrammetric Branch

Mef, Photogrammetry Division

Chief, Nautical Chart Division

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Form 567

(4-61)

U.S. DEPARTMENT GOMMERCE COAST AND GEODETIC SURVEY

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CHARTS
FOR
AIDS APROPARITEMENTARIES
NFLOATING
NON

STRIKE OUT TWO KO-DEARKKKER RX-REXDEREKED

TO BE CHARTED

1965 February

Portland, Oregon

I recommend that the following objects which have (handcand) been inspected from seaward to determine their value as landmarks be

CHARTS APPECTED Chief of Party. 8525 8525 8525 8525 8520 TRAND BROKETIO CDR, CAGS THAND REGHEN HANNO ROBRAN Portland Field Officer T-12806 8/25/6L T-12806 7/18/64 LOCATION DATE P. A. Stark LOCATION AND BURVEY No. METHOD Photo. N-A. N.A. DATUM 1927 D. P. METERS 47.72 02.1 LONGITUDE # 2115 115 भाउ ५६ POSITION 0 01.96 50.885 50.285 D.M. METERS 556.4 H. Bishop LATITUDE* 35 33 8 ပ 8 ۰ The positions given have been checked after listing by BIGNAL Cordova Boat Harbor Light, 1964) * charted on (astronactional) the charts indicated. (Cordova Boat Harbor Light 2 Unadjusted field position DESCRIPTION CORDOVA LIGHT 1 ALASKA * CHARTING STATE

USCOMM-DC 25412-P61 This form shall be prepared in accordance with Hydrographic Manual, Publication 20.2, Sec. 6-36, Fig. 79. Positions of charted landmarks and non-floating sids to navigation, if redetermined, shall be reported on this form. Revisions shall show both the old and new positions. The data should be considered for the charts of the area and not by individual field survey sheets. Information under each column heading should be given.

* TABULATE SECONDS AND METERS