T-12652

U. S. DEPARTMENT OF COMMERCE COAST AND GEODETIC SURVEY

DESCRIPTIVE REPORT

PH-6409

Type of Survey ShoreLine (Photogrammetric)

FIELD Edited No. 1 Office No. T-12652

LOCALITY

ALASKA

General locality ORCA INLET

Locality OBSERVATION ISLAND

1964-1966

CHIEF OF PARTY P. A. STARK

CHIEF OF PARTY COMPILATION OFFICE

LIBRARY & ARCHIVES

USCOMM-DC 5087

U.S. DEPARTMENT OF COMMERCE COAST AND GEODETIC SURVEY

DESCRIPTIVE REPORT - DATA RECORD T = 12652

PROJECT NO. (II): 21423 (2)	PH-6409				
FIELD OFFICE (II):			CHIEF OF PARTY	,	
SHIP PATHFING	DER			H. J. S	EABORG
PHOTOGRAMMETRIC OFFICE (III):			OFFICER-IN-CHA	RGE	
Portland, Ori	EGON			P. A. S	TARK
INSTRUCTIONS DATED (II) (III):					
DECEMBER 7,	1964				
				1	
METHOD OF COMPILATION (III):					
Kelsh Instru	MENT				
ANUSCRIPT SCALE (III):		STEREOSC	OPIC PLOTTING INS	STRUMENT SCA	LE (III): 1:6,000
4.40.000					
1:10,000		The state of the s	APH SCALE:		1:10,000
May 1977	107:	DATE REP	ORTED TO NAUTICA	AL CHART BRA	ANCH (IV):
APPLIED TO CHART NO.		DATE:		DATE REGIS	TERED (IV):
					6.1977
GEOGRAPHIC DATUM (III):			VERTICAL DATU	м (III): М	THE
			MEAN SEA LEVE		
N.A. 1927			Elevations shown		
N.A. 1921			i.e., mean low wat		
REFERENCE STATION (III): NIBSY 1899					
LAT.: LO	NG.:		X ADJUSTED		
60° 35' 44.442"	145° 43'	59.274"	UNADJUSTED		
PLANE COORDINATES (IV):			STATE		ZONE
Y = 2,409,749.60 FT. X =	547,971.7	7 7 FT.	ALA	SKA	3
ROMAN NUMERALS INDICATE WHETHER TH OR (IV) WASHINGTON OFFICE. WHEN ENTERING NAMES OF PERSONNEL OF					
WHEN ENTERING NAMES OF PERSONNEL OF	HIS KECOKD	SIVE THE SURNAM	L AND INTINCS, NO	, MITTALS ON	

PHOTOGRAMMETRIC OFFICE REVIEW BY (III):

REMARKS:

D. N. WILLIAMS

USCOMM-DC 162768-P61

Nov. 1966

2-17-65

DATE

U.S. DEPARTMENT OF COMMERCE COAST AND GEODETIC SURVEY

DESCRIPTIVE REPORT - DATA RECORD

CAMERA (KIND OR SOURCE) (III):

C&GS SINGLE LENS "S"

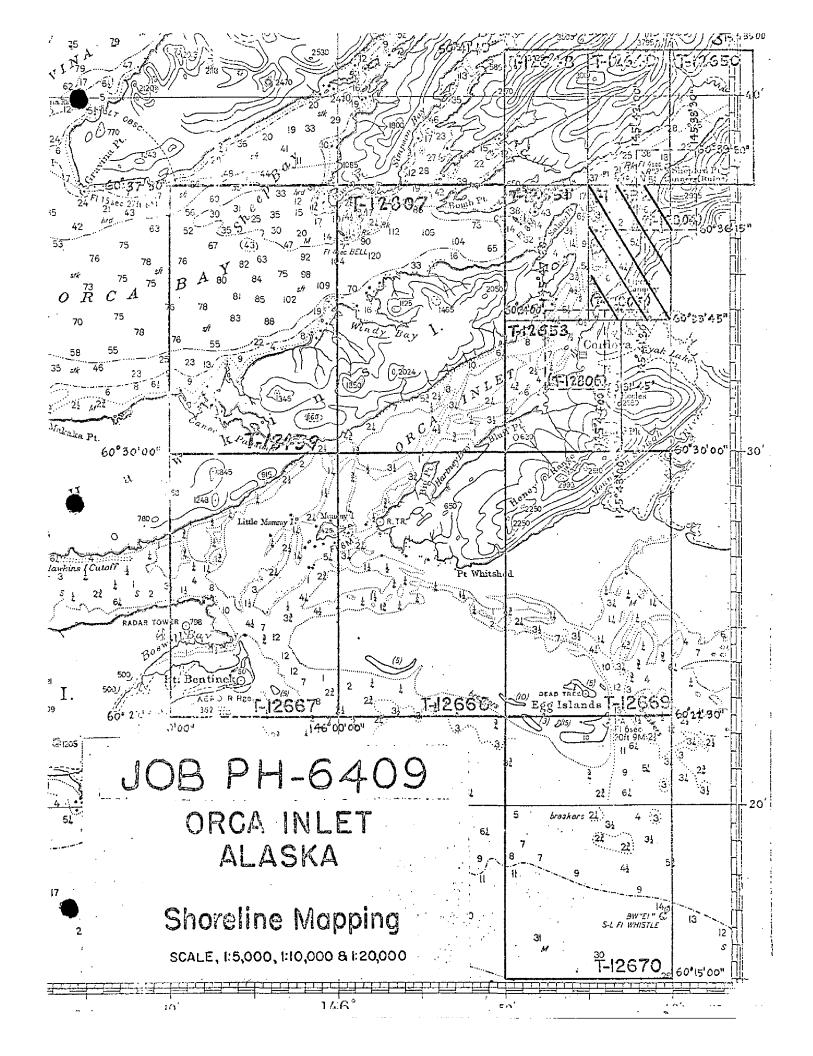
	C&GS SINGLE					
	PHO	OTOGRAPHS (III)				
NUMBER	DATE	TIME	SCALE	\$1	AGE OF TI	DE
64 S 6893 THRU 64 S 6896	8-25-64	0955	1:30,000	4.0° F	T ABOVE	M.L.L.W
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64 S 6786 AND 64 S 6787	- 11	0850	п	0.5 FT	19	1)
64 S 6943 тней 64 S 6949	n	1035	1:15,000	5.1 FT	ti	II.
		TIDE (III)				DIURNAL
				RATIO OF RANGES	MEAN RANGE	RANGE
REFERENCE STATION:	Cordova				10.0 F1	12.4 F
SUBORDINATE STATION:	ORCA				9.9 6	12.4 F
SUBORDINATE STATION:						
WASHINGTON OFFICE REVIEW !	BY (IV) Les F. Beugnet	Allantic Mar.	ne Center	DATE:	1967	,
PROOF EDIT BY (IV):	B. Phillips X	Pockulle, 1	nd.	DATE:	une 1	977
NUMBER OF TRIANGULATION S	,		RECOVERED:	IDENTIFIE		
NUMBER OF BM(S) SEARCHED	FOR (II):		RECOVERED:	IDENTIFIE	D	, ,
NUMBER OF RECOVERABLE PH	IOTO STATIONS ESTABLIS	HED (III):	None			
NUMBER OF TEMPORARY PHOT	O HYDRO STATIONS ESTA	ABLISHED (III):	None	,		· · · · · · · · · · · · · · · · · · ·
REMARKS:				· · · · · · · · · · · · · · · · · · ·		<u>-</u>

T-12652 COMPILATION RECORD

COMPLETION DATE

REMARKS

		The second of th
Alongshore area for hydro.	February 1965	Superseded
Field edit, applied: subject to further verification	November 1965	Superseded
Second Field Edit applied	May 1966	
Final Review	May 1967	



SUMMARY TO ACCOMPANY DESCRIPTIVE REPORT T-12652

Shoreline survey T-12652 is one of fifteen similar surveys in project PH-6409. The primary purpose of the survey was to provide new shoreline for nautical charts and photohydro support data for hydrographic surveys to be made in the same area.

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

Compilation was at 1:10,000 scale using the panchromatic photography of August 25, 1964. A cronaflex copy of the manuscript along with specially prepared photographs were furnished for preparation of the hydrographers boatsheet, location of hydrographic signals and for field edit purposes.

The manuscript is a vinylite sheet 3 minutes 45 seconds in latitude by 5 minutes 00 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

MAP MANUSCRIPT T-12652

PROJECT 21423 (2)

None Submitted. There was no field inspection before compilation.





DESCRIPTIVE REPORT CONTROL RECORD

STATION STAT	MAP T- 12652 PROJE	PROJECT NO. 21423 (2)	SCA	SCALE OF MAP 1:10,000 SCA	SCALE FACTOR
N.A. N.A. 2,399,629.0	STATION	SOURCE OF INFORMATION (INDEX)	DATUM	LATITUDE OR Y COORDINATE LONGITUDE OR X COORDINATE	N.A. 1927 - DATUM DISTANCE FROM GRID OR PROJECTION LINE IN METERS (1 Pt. = 3048006 meter) FORWARD (BACK)
N SLAND 900 " P.5 " 2.409.749.6		ALASKA	N.A.	2,399,629.0	
N ISLAND 1900 " P.6 " 2,409,749.6 5,47,971.8 5,47,971.8 5,47,971.8 5,47,971.8 5,50,864.5 5,50,864.5 5,50,864.5 6,64,971.0 6,64,971.0 6,64,971.0 6,64,971.0 6,64,971.0 6,64,971.0 6,64,971.0 6,64,971.0 6,64,971.0 6,64,971.0 6,64,971.0 6,64,971.0 6,64,971.0 6,64,971.0 6,64,971.0 6,64,971.0 6,94,97		•	1927	546,340.1	
N ISLAND 1900 " P.6 " 2,410,892.6			=	2,409,749.6	
N SLAND 1900				547,971.8	
10 10 10 10 10 10 10 10	OBSERVATION ISLAND 1900		£	2,410,892.6	
Note) •		546,417.0	
955 550,864.5 550,864.5 1 2,413,747.8 1 2,413,747.8 1 2,413,747.2 1 2,413,747.2 1 2,413,747.2 1 2,413,747.2 1 2,413,747.2 1 2,413,747.2 1 2,413,747.2 1 2,413,747.2 1 2,413,747.2 1 2,413,747.2 1 2,412,807.6 1 2,412,807.6 1 2,412,807.6 1 2,412,807.6 1 2,412,807.5 1 2,412,807.5 1 2,412,807.5 1 2,412,807.5 1 2,415,894.6 1 2,416,196 1 2	တီ		•	2,404,035.5	
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964 FIELD POSITION 555,118.3 ALASKA " 2,412,807.6 R. 412,807.6 60145 p.12 " 2,412,807.6 R. 547,110.4 UNADJUSTED " 2,412,840.5 R. 546,992.2 BLE 1909 ALASKA " 2,415,894 R. 415,894 ACK 1909 " " " " " " " " " " " " " " " " " " "	:	UNADJUSTED	:	2,413,747.2	
ALASKA Incomposition of the first order of the first order ord	ດ້	FIELD POSITION	=	555,118.3	
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LE 1909 ALABKA " 2,412,840.5 Chicle 992.2 ACK 1909 " 2,415,894 Chicle 992.2 ACK 1909 " 2,415,894 Chicle 94 ACK 1909 " 2,416,196 Chicle 196 ACK 1909 " 2,416,196 Chicle 196 NOMICAL STATION " 2,399,631 Chicle 196 ACH 1201 " 2,404,288.4 Chicle 111.6 ACH 12-14-64 Chicked BY Chicked BY Chicked BY	SAW 1909		=	547,110.4	
BLE 1909 ALASKA n 2,415,894 2 ACK 1909 n 2,416,196 557,221 2 ACK 1909 n 2,416,196 557,307 2 NOMICAL STATION n 2,399,631 546,337 2 NOMICAL STATION n 2,404,288.4 551,111.6 546,337 C.H.B. 12,14.64 CHECKED BY L.F.B. DATE		UNADJUSTED	±		
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NOMICAL STATION " P.6 " 2,404,288.4 CH-B. T2-14-64 CH-B.				2,399,631	
NOMICAL STATION " P.6 " 2,404,288.4 CHECKED BY L.F.B.	WHI IE 1950		=	546,337	
C.H.B. 551,111.6 DATE CHECKED BY L.F.B. DATE	ASTRONOMICAL		=	2,404,288.4	8
C.H.B. CHECKED BY DATE CHECKED BY L.F.B.	1898	•	•		2
12-14-64 L.F.B.	COMPUTED BY	DATE			DATE
	C.H.B.	12-14-64		L.F.B.	12-14-64





FORM C&GS-164 (3-64) USCOMM-DC 6659-P64

OR .	N.A. 1927 - DA
SCALE FACTOR	
1:10,000	
SCALE OF MAP_	
21423 (2)	
1652 PROJECT NO	
MAP T- 12852	

	INFORMATION (INDEX)	DATUM	LATITUDE OR Y COORDINATE LONGITUDE OR X COORDINATE	DISTANCE FROM GRID OR PROJECTION LINE IN METERS (1 FL = 3048006 meter) FORWARD (8ACK)
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Aerotriangulation Report Project 21423 Orca Inlet, Alaska

21. Area Covered

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

22. Method

Three strips of photography (648 6892-98), (648 6787-92) and (648 6909-15) were bridged on the stereoplanigraph and were adjusted by IEM 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 Eleg., 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 1:63,360, 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. Ferrow, Jr. / /

W. Heinbaugh

COMPILATION REPORT

T-12652

31. DELINEATION:

Planimetry was compiled by Kelsh Instrument.

32. CONTROL:

Adequate supplemental control, based on field identified horizontal control, was established by aerotriangulation.

33. SUPPLEMENTAL DATA:

None

34. CONTOURS AND DRAINAGE:

Contours not applicable.

35. SHORELINE AND ALONGSHORE DETAILS:

The shoreline and alongshore details were delineated from office interpretation of the photographs as no field inspection was available.

36. OFFSHORE DETAILS:

None

37. LANDMARKS AND AIDS:

A landmark, HOUSE (S. GABLE), shown on Chart 8525 at latitude 60° 36.7° longitude 145° 40.9° was not visible on the photographs and is not shown on this survey.

38. CONTROL FOR FUTURE SURVEYS:

None

39. JUNCTIONS:

Satisfactory junctions were made with 1:10,000 scale mamuscripts T-12649 on the north; T-12651 on the west, and T-12653 on the south. Satisfactory junctions were also made with the 1:5,000 scale overlapping surveys T-12804, T-12805 and T-12806. There is no contemporary survey to the east.

LO. HORIZONTAL AND VERTICAL ACCURACY.

46. COMPARISON WITH EXISTING MAPS:

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

47. COMPARISON WITH NAUTICAL CHARTS:

8525, 1:30,000 scale, July 27, 1964 8520, 1:80,000 scale, July 20, 1964 8551, 1:200,000 scale, 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:

Journal M. Williams
Cartographer

48. GEOGRAPHIC NAME 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.

FLEMING CREEK
FLEMING SPIT
HUMPBACK CREEK
NORTH ISLAND
NORTH ROCK
OBSERVATION ISLAND
ORCA
ORCA CHANNEL
ORCA INLET
SOUTH ROCK

49. Notes to the Hydrographer:

VERIFY FOUL AREA OFF FLEMING SPIT AND PILING NEAR ORCA CANNERY.

FORM C&G5-1002			U	S. DEPARTMENT OF COMMERCE	
PHOTOGRAMMETRIC OFFICE REVIEW					
370 XIEANI36X T-12652					
1. PROJECTION AND GRIDS	2. TITLE	<u>T_1</u>	2652 13. MANUSCRIPT NUMBERS	4. MANUSCRIPT SIZE	
W. HOSE SHOW AND SHOP	2. ,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,			3122	
DNW	DNW		DNW	DNW	
CONTROL STATIONS	·				
5. HORIZONTAL CONTROL STA THIRD-ORDER OR HIGHER A	TIONS OF CCURACY	6. RECOVERAGE OF LESS TH	AN THIRD-ORDER ACCURACY	7. PHOTO HYDRO STATIONS	
DNW		(Topographic		NONE	
8. BENCH MARKS	9. PLOTTING O	F SEXTANT	10. PHOTOGRAMMETRIC PLOT REPORT	11. DETAIL POINTS	
NONE	NON	ir.	DNW	DNW	
			<u> </u>		
ALONGSHORE AREAS (Nautical 12. SHORELINE	Chart Data)	RLINE	14. ROCKS, SHOALS, ETC.	15, BRIDGES	
DNW	DN		DNW	NONE	
16. AIDS TO NAVIGATION	17. LANDMARK	(S	18. OTHER ALONGSHORE PHYSICAL FEATURES	19. OTHER ALONGSHORE CULTURAL FEATURES	
DNW	DI/	₩	DNW	DNW	
PHYSICAL FEATURES		·	•		
20. WATER FEATURES		21, NATURAL (GROUND COVER	22. PLANETABLE CONTOURS	
DNW			DNW	NONE	
23. STEREOSCOPIC INSTRUMENT CONTOURS	24. CONTOURS	IN GENERAL	25. SPOT ELEVATIONS	26. OTHER PHYSICAL FEATURES	
NONE	NONE		NONE	DNW	
CULTURAL FEATURES					
27. ROADS	28. BUILDINGS	i	29. RAILROADS	-30. OTHER CULTURAL FEATURES	
DNW 1/1	DNW		NONE	DNW	
BOUNDARIES 31. BOUNDARY LINES			32. PUBLIC LAND LINES		
31. BOUNDARY LINES NONE		NONE			
NONE MISCELLANEOUS		NONE			
33. GEOGRAPHIC NAMES		34. JUNCTIONS	<u> </u>	35. LEGIBILITY OF THE	
				MANUSCRIPI	
DNW			DNW	DNW	
36. DISCREPANCY OVERLAY	37. DESCRIPTI	VE REPORT	38. FIELD INSPECTION PHOTOGRAPHS	39. FORMS	
DNW	ות	IW	DNW	DNW	
40. REVIEWER			SUPERVISOR, REVIEW SECTION OR UNIT		
Donnel N. Williams		: Leo F. Beugnet			
41. REMARKS (See attached sheet)					
FIELD COMPLETION ADDITIONS AND CORRECTIONS TO THE MANUSCRIPT					
42. Additions and corrections furnished by the field completion survey have been applied to the manuscript. The manuscript is now complete except as noted under item 43.					
COMPILER K. Boyle			SUPERVISOR	Det C Kando	
Reviewed by C. Bishop			A. C. Rauck	best C. Kauck J.	
43. REMARKS			<u> </u>		
	•				



UNITED STATES GOVERNMENT

U.S. DEPARTMENT OF COMMERCE COAST AND GEODETIC SURVEY

ENVIROREMENTAL SCIENCE SERVICES ABAINISTANTION

Memorandum

TO :

Chief, Photogrammetry Division

DATE: May 7, 1966

In reply refer to:

FROM :

Commanding Officer USCAGS Ship HODGSON

SUBJECT:

Field Edit - Orca Inlet

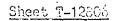
Project 21423 (2) Job PH-6409

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

Apple Power John B. Watkins, Jr.

cc: PACMARCEN





New photos scholary at you no a Pan film 5/11/24

Discrepancies as noted were verified in the field. See photo no. 6/36942 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 MAN 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. 6486786 1/10,000.

Sheet T-12652

Discrepancies as noted were verified in the field and appropriate notes made in purple on photo no. 6486786, 6486787, 6486949, 1/10,000. Please note new HRVL for western side of observation island.

Sheet 12804

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 7-12652.

Sheet T-12653

All discrepancies as noted were verified on photo nos. 6457353, 6456591, 6457350, 1/10,000 and 6456943, 1/5000. All shoreline verified is shown in purple on the photos.

New bhotos schoolable at/110,000 Pay.

In the area SW of station MAUD 2, 1964, photo no. 6486891 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.

5/11/66 M/

On photo no. 6456943 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 ozalid with the exception of Simpson Bay. This area was not within the project limits.

Sheet T-12650

Discrepancies as noted were verified in the field. KHVL was inked in purple on photo no. 6456952 and 6456953, 1/10,000.

Sheet_T-12651

Discrepancies as noted were verified in the field. All references are made to photo. no. 6486784, 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 SHORELINE MAY 18, 1967

61. GENERAL STATEMENT

See Summary accompanying Descriptive Report.

62. COMPARISON WITH REGISTERED TOPOGRAPHIC SURVEYS

Comparison was made with Registered Surveys No. 3648 and 3649. These are 1:20,000 scale surveys made in 1916 and are on Valdez datum. There is a hiatus between these two surveys along the easterly coast of Orca Inlet between latitudes 60° 36' 30" and 60° 36' 45".

The comparison between the Registered surveys and T-12652 has been shown on the comparison print. Survey T-12652 supersedes the older surveys for nautical chart construction.

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.

64. COMPARISON WITH CONTEMPORARY HYDROGRAPHIC SURVEYS

Comparison was made with copies of boatsheets HO-O5-1-65 and H-8853, PF-10-1-64. The shoreline for HO-O5-1-65 was probably obtained from an Incomplete Manuscript. It is not in agreement with the Advance Manuscript as some changes were made by application of field edit and at the time of final review.

The source of the shoreline for PF-10-1-64 is not known. It is not in agreement with the Advance Manuscript.

65. COMPARISON WITH NAUTICAL CHARTS

Comparison was made with Chart 8525, 1:30,000 scale, 8th edition, March 14, 1966, Revised November 14, 1966. The comparison with the chart has been shown on the Comparison Print.

66. ADEQUACY OF RESULTS AND FUTURE SURVEYS

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

Reviewed by:

Les L. Beignet
Leo F. Beugnet

Approved by:

J. Bull, RADM

Director, Atlantic Marine Center

Approved by:

Chief, Photogrampetric Branch

Mef, Photogrammetry Division

Chief, Nautical Chart Division