

T-12649

T-12649

Form 504	
U. S. DEPARTMENT OF COMMERCE	
COAST AND GEODETIC SURVEY	
DESCRIPTIVE REPORT	
PH-6709	
Type of Survey SHORELINE (PHOTOGRAMMETRIC)	
Field No. PH-6709	Edition No. 1 Office No. T-12649
Field Edited Map	
LOCALITY	
State	ALASKA
General locality	ORCA INLET
Locality	SHEPARD POINT
1964-1966	
CHIEF OF PARTY	
CHIEF OF PARTY	H. J. SEABORG
COMPILATION OFFICE	P. A. STARK
LIBRARY & ARCHIVES	
DATE	

DESCRIPTIVE REPORT - DATA RECORD

T- 12649

PROJECT NO. (II):

21423 (2) PH-6409

FIELD OFFICE (II):

SHIP PATHFINDER

CHIEF OF PARTY

H. J. SEABORG

PHOTOGRAMMETRIC OFFICE (III):

PORTLAND, OREGON

OFFICER-IN-CHARGE

P. A. STARK

INSTRUCTIONS DATED (II) (III):

DECEMBER 7, 1964 III

METHOD OF COMPILATION (III):

KELSH INSTRUMENT

MANUSCRIPT SCALE (III):

1:10,000

STEREOSCOPIC PLOTTING INSTRUMENT SCALE (III): 1:6,000

PANTOGRAPH SCALE: 1:10,000

DATE RECEIVED IN WASHINGTON OFFICE (IV):

May 1977

DATE REPORTED TO NAUTICAL CHART BRANCH (IV):

APPLIED TO CHART NO.

DATE:

DATE REGISTERED (IV):

AUG. 1977

GEOGRAPHIC DATUM (III):

N.A. 1927

VERTICAL DATUM (III): MHW

MEAN SEA LEVEL EXCEPT AS FOLLOWS:

Elevations shown as (25) refer to mean high water

Elevations shown as (5) refer to sounding datum

i.e., mean low water or mean lower low water

REFERENCE STATION (III):

ROOT, 2, 1964

LAT.:

60° 38' 24.37"

LONG.:

145° 43' 07.50"

☐ ADJUSTED☒ UNADJUSTED

PLANE COORDINATES (IV):

STATE

ZONE

Y = 2,425,999.2 FT. X = 550,487.7 FT.

ALASKA

3

ROMAN NUMERALS INDICATE WHETHER THE ITEM IS TO BE ENTERED BY (II) FIELD PARTY, (III) PHOTOGRAMMETRIC OFFICE,
OR (IV) WASHINGTON OFFICE.

WHEN ENTERING NAMES OF PERSONNEL ON THIS RECORD GIVE THE SURNAME AND INITIALS, NOT INITIALS ONLY.

DESCRIPTIVE REPORT - DATA RECORD

FIELD INSPECTION BY (II): None		DATE:
MEAN HIGH WATER LOCATION (III) (STATE DATE AND METHOD OF LOCATION): By KELSH Instrument		
PROJECTION AND GRIDS RULED BY (IV): A. E. Roundtree		DATE 11-24-64
PROJECTION AND GRIDS CHECKED BY (IV): P. Hawkins		DATE
CONTROL PLOTTED BY (III): W. Masula		DATE 12-11-64
CONTROL CHECKED BY (III): R. H. Meyer		DATE 12-11-64
RADIAL PLOT OR STEREOSCOPIC CONTROL EXTENSION BY (III): W. Heinbaugh		DATE 11-18-64
STEREOSCOPIC INSTRUMENT COMPILATION (III):	PLANIMETRY R. H. Meyer	DATE 12-22-64
	CONTOURS None	DATE
MANUSCRIPT DELINEATED BY (III): DRAFTED FOR HYDRO SUPPORT: C. C. Harris		DATE 12-24-64
SCRIBING BY (III): J. Place		DATE Nov. 1966
PHOTOGRAMMETRIC OFFICE REVIEW BY (II): D. N. Williams		DATE 1-7-65
REMARKS: Field Edit Sept. 1965 and May 1966		

DESCRIPTIVE REPORT - DATA RECORD

CAMERA (KIND OR SOURCE) (III):

C&GS SINGLE LENS "S"

PHOTOGRAPHS (III)

NUMBER	DATE	TIME	SCALE	STAGE OF TIDE
64 S 6910 THRU 64 S 6912	8-25-64	1005	1:30,000	4 FT. ABOVE M.L.L.W.
RATIO PRINTS 64 S 6910 THRU 64 S 6912	"	"	1:10,000	4 FT. " "

TIDE (III)

DIURNAL

	RATIO OF RANGES	MEAN RANGE	SPRING RANGE
REFERENCE STATION: CORDOVA, ALASKA		10.0 FT	12.4 FT
SUBORDINATE STATION:			
SUBORDINATE STATION:			

WASHINGTON OFFICE REVIEW BY (IV):

Leo F. Beugnot, Atlantic Marine Center

DATE:

April 1967

PROOF EDIT BY (IV):

J. B. Phillips Rockville, Md.

DATE:

June 1977

NUMBER OF TRIANGULATION STATIONS SEARCHED FOR (II):

3

RECOVERED:

3

IDENTIFIED:

3

NUMBER OF BM(S) SEARCHED FOR (II):

0

RECOVERED:

0

IDENTIFIED:

0

NUMBER OF RECOVERABLE PHOTO STATIONS ESTABLISHED (III): NONE

NUMBER OF TEMPORARY PHOTO HYDRO STATIONS ESTABLISHED (III): NONE

REMARKS:

4

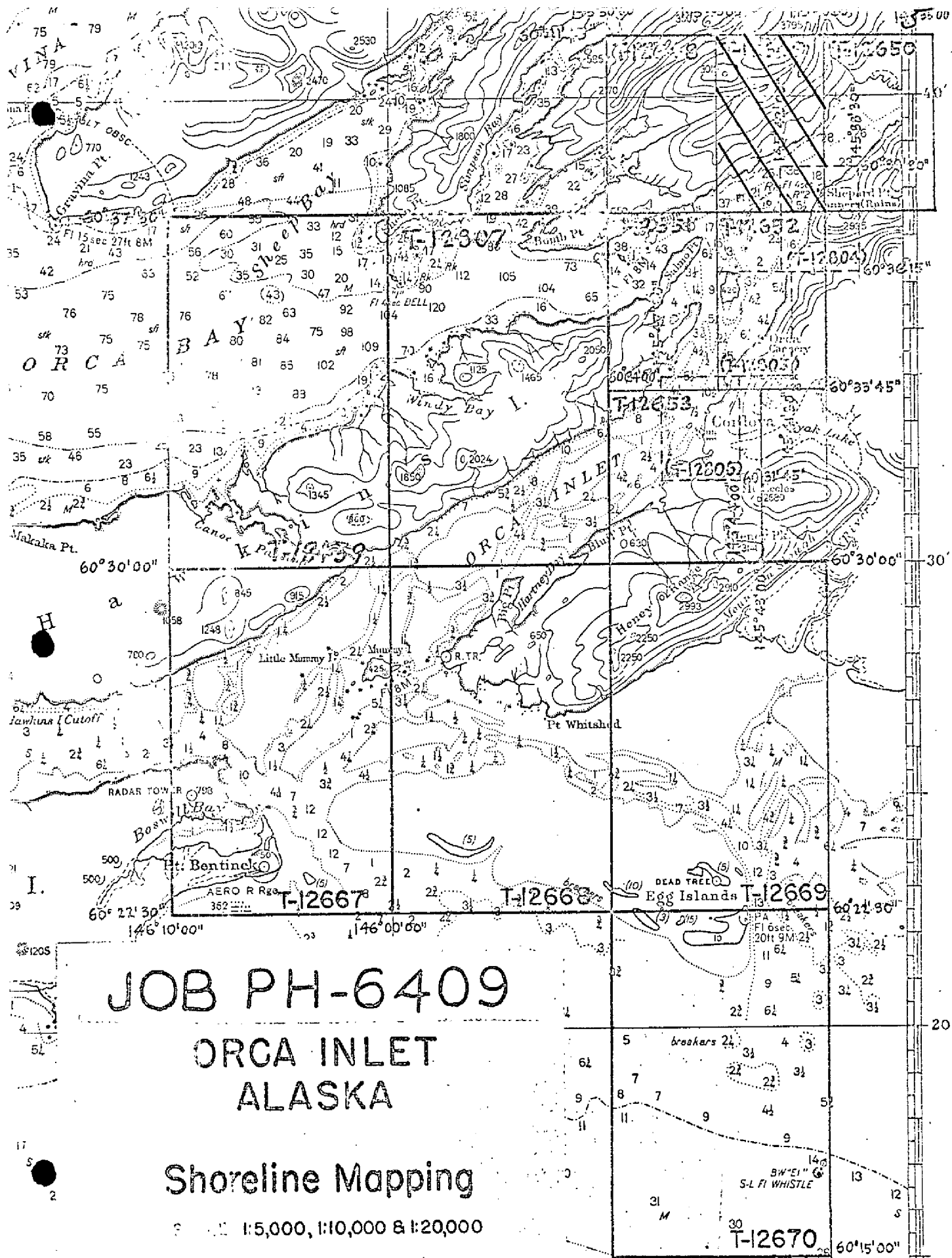
T-12649

COMPILATION RECORD

COMPLETION DATE

REMARKS

Alongshore area for hydro	Dec. 1964	Superseded
Field Edit applied: subject to further verification	Nov. 1965	Superseded
Second Field Edit applied	May 1966	
Final Review	April 1967	



JOB PH-6409

ORCA INLET
ALASKA

Shoreline Mapping

1:5,000, 1:10,000 & 1:20,000

14.6°

SUMMARY TO ACCOMPANY
DESCRIPTIVE REPORT T-12649

Shoreline survey T-12649 is one of fifteen similar maps in project 6409. The maps were compiled to provide new shoreline for nautical charts and provide photo-hydro support data for hydrographic surveys to be made in the same area.

Field work preceding compilation consisted of recovery and/or establishment and the identification of horizontal for aerotriangulation purposes. There was no field inspection prior to compilation.

Compilation was by Kelsh Instrument at 1:10,000 scale using the panchromatic photography obtained August 25, 1964. Cronaflex copies of the Incomplete Manuscript were furnished for preparation of the hydrographer's boatsheet along with specially prepared ratio photographs for the location of hydrographic signals and 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-12649

PROJECT 21423 (2)

NONE SUBMITTED. THERE WAS NO FIELD INSPECTION BEFORE
COMPILATION.

DESCRIPTIVE REPORT CONTROL RECORD

MAP T- 12649 PROJECT NO. 21423 (2) SCALE OF MAP 1:10,000 SCALE FACTOR _____

[illegible]

2 9

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 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 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.

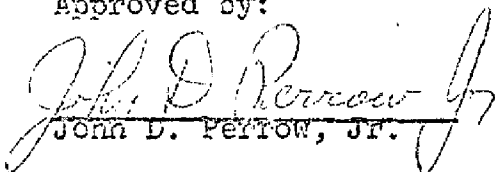
24. Supplemental Data

USGS quadrangles Cordova, Alaska (B-5, B-6, C-5 and C-6) scale 1:63,360, 1953 edition were used to provide vertical control where needed.

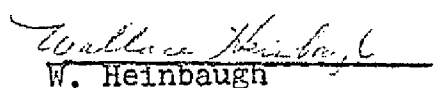
25. Photography

Photography was adequate as to coverage, overlap and definition.

Approved by:


John D. Perrow, Jr.

Submitted by:


W. Heinbaugh

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COMPILATION REPORT
T-12649

31. DELINEATION:

The manuscript was delineated by Kelsh Instrument methods.

32. CONTROL:

Adequate horizontal control was established by aerotriangulation for control of the Kelsh models. The aerotriangulation was based on field identified horizontal control which was pre-marked.

33. SUPPLEMENTAL DATA:

None

34. CONTOURS AND DRAINAGE:

Contours inapplicable.

The drainage was delineated by the Kelsh operator using the U.S.G.S. quadrangle as a guide.

35. SHORELINE:AND ALONGSHORE DETAILS:

The mean high water line and alongshore details were delineated by the Kelsh operator from office interpretation of the photographs.

36. OFFSHORE DETAILS:

All offshore details visible on the photographs were delineated by the Kelsh operator. No details were purposely left for the hydrographer.

37. LANDMARKS AND AIDS:

There are no landmarks.

One fixed aid to navigation has been listed on form 567.

38. CONTROL FOR FUTURE SURVEYS:

None

39. JUNCTIONS:

Satisfactory junctions were made with 1:10,000 scale manuscripts T-12648 on the west, T-12650 on the east, T-12652 on the south and with overlapping 1:5,000 scale manuscript T-12804. There is no contemporary survey to the north.

40. 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:

8520, 1:80,000 scale, July 20, 1964
8525, 1:30,000 scale, July 27, 1964
8551, 1:200,000 scale, April 15, 1963

Items to be applied to Charts immediately:

None

Items to be carried forward:

None

Approved:

Submitted:

for Leo I. Beugnot
P. A. Stark, ODR, C&GS
Portland Field Officer

Donnel N. Williams
Donnel N. 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.

NORTH ISLAND
SHEPARD POINT

*NELSON Bay **

** From Chart 8525*

49. NOTES TO THE HYDROGRAPHER:

VERIFY PILING AND MARINE RAILWAY AT SHEPARD POINT.

FORM C&GS-1002 (9-68)		U.S. DEPARTMENT OF COMMERCE ESSA COAST AND GEODETIC SURVEY	
PHOTOGRAMMETRIC OFFICE REVIEW 17-08383 T-12649			
50			
1. PROJECTION AND GRIDS DNW	2. TITLE DNW	3. MANUSCRIPT NUMBERS DNW	4. MANUSCRIPT SIZE DNW
CONTROL STATIONS			
5. HORIZONTAL CONTROL STATIONS OF THIRD-ORDER OR HIGHER ACCURACY DNW	6. RECOVERABLE HORIZONTAL STATIONS OF LESS THAN THIRD-ORDER ACCURACY (Topographic stations) DNW		7. PHOTO HYDRO STATIONS NONE
8. BENCH MARKS NONE	9. PLOTTING OF SEXTANT FIXES NONE	10. PHOTOGRAMMETRIC PLOT REPORT DNW	11. DETAIL POINTS DNW
ALONGSHORE AREAS (Nautical Chart Data)			
12. SHORELINE DNW	13. LOW-WATER LINE DNW	14. ROCKS, SHOALS, ETC. DNW	15. BRIDGES NONE
16. AIDS TO NAVIGATION DNW	17. LANDMARKS DNW	18. OTHER ALONGSHORE PHYSICAL FEATURES DNW	19. OTHER ALONGSHORE CULTURAL FEATURES DNW
PHYSICAL FEATURES			
20. WATER FEATURES DNW		21. NATURAL GROUND COVER DNW	22. PLANETABLE CONTOURS NONE
23. STEREOSCOPIC INSTRUMENT CONTOURS NONE	24. CONTOURS IN GENERAL NONE	25. SPOT ELEVATIONS NONE	26. OTHER PHYSICAL FEATURES DNW
CULTURAL FEATURES			
27. ROADS DNW	28. BUILDINGS DNW	29. RAILROADS DNW	30. OTHER CULTURAL FEATURES DNW
BOUNDARIES			
31. BOUNDARY LINES NONE		32. PUBLIC LAND LINES NONE	
MISCELLANEOUS			
33. GEOGRAPHIC NAMES DNW		34. JUNCTIONS DNW	35. LEGIBILITY OF THE MANUSCRIPT DNW
36. DISCREPANCY OVERLAY DNW	37. DESCRIPTIVE REPORT DNW	38. FIELD INSPECTION PHOTOGRAPHS DNW	39. FORMS DNW
40. REVIEWER Donnel N. Williams		SUPERVISOR, REVIEW SECTION OR UNIT 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 L. Neterer Reviewed: C. Bishop		SUPERVISOR <i>Albert C. Rauck Jr.</i> A. C. Rauck	
43. REMARKS			

UNITED STATES GOVERNMENT

U.S. DEPARTMENT OF COMMERCE
COAST AND GEODETIC SURVEY

ENVIRONMENTAL SCIENCE SERVICES ADMINISTRATION

Memorandum

TO : Chief, Photogrammetry Division

DATE: May 7, 1966

In reply refer to:

FROM : Commanding Officer
USCGS Ship HODGSON

SUBJECT: Field Edit - Orca Inlet
Project 21423 (2) Job PH-6409

Photographs, manuscripts and originals for the above project are returned under separate cover. The required field edit has been accomplished and appropriate notes made on the photographs and originals. 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. Watkins, Jr.
John B. Watkins, Jr.

cc: PACMARCON

Sheet T-12606

New photos
scheduled
at 1/10,000
Pan-S. 1m
5/11/66
RZ/

Discrepancies as noted were verified in the field. See photo no. 64S6942, 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 MHW 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. 64S6786 1/10,000.

Sheet T-12652

Discrepancies as noted were verified in the field and appropriate notes made in purple on photo no. 64S6786, 64S6787, 64S6949, 1/10,000. Please note new MHWL for western side of observation island.

Sheet 12604

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. 64S7353, 64S6891, 64S7350, 1/10,000 and 64S6943, 1/5000. All shoreline verified is shown in purple on the photos.

New
photos
scheduled
at 1/10,000
Pan.
5/11/66
RZ/

In the area SW of station MAUD 2, 1964, photo no. 64S6891 considerable activity by the Corps of Engineers makes MHW verification impracticable at this time. More recent photography is required. It is recommended that a stereo triplet be made of the area in mid-summer for final shoreline detail of this area.

On photo no. 64S6943 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. MHWL 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. 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.

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REVIEW REPORT
T-12647
April 21, 1967

61. GENERAL STATEMENT:

See summary accompanying descriptive report.

62. COMPARISON WITH REGISTERED TOPOGRAPHIC SURVEYS:

Comparison was made with Registered Survey No. 3649, 1:20,000 scale, dated June-August 1916. This survey was based on Valdez datum. The comparison between the old survey and T-12649 is shown on the comparison print.

Survey T-12647 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 comparison was generally favorable with exception of the area of Shepard Point where some changes in the shoreline have taken place.

64. COMPARISON WITH CONTEMPORARY HYDROGRAPHIC SURVEYS:

In the area of Shepard Point from approximate latitude $60^{\circ} 37' 30''$ northeastward to latitude $60^{\circ} 38' 15''$ comparison was made with a copy of boatsheet HO-05-1-65. The source of the shoreline on the boatsheet is probably Incomplete Manuscript T-12804 and is not in complete agreement with the Advance Manuscript as some changes were made by application of field edit.

Comparison was also made with a copy of boatsheet H-8854, HO-20-1-65 along the north shore of Nelson Bay. The source of the shoreline for this boatsheet was also an Incomplete Manuscript and is not in complete 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 14th, 1966 in the area south of latitude $60^{\circ} 38'$. North of this latitude comparison was made with chart 8520, 1:80,000 scale, 13th edition, March 7th, 1966.

The comparison with chart 8525 has been shown on the comparison print. In the area of chart 8520 only a visual comparison was made.

66. ADEQUACY OF RESULTS AND FUTURE SURVEYS:

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

Reviewed by:

Leo F. Beugnet
Leo F. Beugnet

Approved by:

J. Bull
J. Bull, RADM.
Director, Atlantic Marine Center

Approved by:

W. R. Gordon
Chief, Photogrammetric Branch

Jan L. Loh
Chief, Photogrammetry Division

Chief, Nautical Chart Division

TO BE CHARTED
TO BE REVISSED
TO BE REOPENED

Portland, Oregon

February, 1965

I recommend that the following objects which have ~~(been inspected)~~ been inspected from seaward to determine their value as landmarks be charted on ~~(charts)~~ the charts indicated.

The positions given have been checked after listing by

C. H. Bishop

P. A. Stark, CDR, C&GS

Portland Field Officer	Chief of Party.
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[illegible]

This form shall be prepared in accordance with Hydrographic Manual, Publication 20.2, Sec. 1-35, 2-39, 6-36, 7-18 to 22 inclusive, and Fig. 79. Positions of charted landmarks and *nonfloating aids* 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

12/12/78 Chart 8525 (16710) Applied Fully to Chart
See History

NAME		LATITUDE		LONGITUDE		DEPTH		SOUNDING		REMARKS	
1		2		3		4		5		6	
7		8		9		10		11		12	
13		14		15		16		17		18	
19		20		21		22		23		24	
25		26		27		28		29		30	
31		32		33		34		35		36	
37		38		39		40		41		42	
43		44		45		46		47		48	
49		50		51		52		53		54	
55		56		57		58		59		60	
61		62		63		64		65		66	
67		68		69		70		71		72	
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529		530		531		532		533		534	
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541		542		543		544		545		546	
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619		620		621		622		623		624	
625		626		627		628		629		630	
631		632		633		634		635		636	
637		638		639		640		641		642	
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661		662		663		664		665		666	
667		668		669		670		671		672	
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