

11942

11942

NOAA FORM 76-35

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

DESCRIPTIVE REPORT

Type of Survey Shoreline (Photogrammetric)Job No. PH-6306..... Map No. T-11942....Classification No. Edition No.
Field Edited

LOCALITY

State Alaska.....General Locality Hoonah Sound & Peril StraitLocality Traders Islands.....1967 TO 1970Alfred C. Holmes, Director, AMC

REGISTRY IN ARCHIVES

DATE

DESCRIPTIVE REPORT - DATA RECORD

T-11942

PROJECT NO. (II):

PH-6306

FIELD OFFICE (II):

None

CHIEF OF PARTY

PHOTOGRAMMETRIC OFFICE (III):

Atlantic Marine Center, Norfolk, VA

OFFICER-IN-CHARGE

Alfred C. Holmes,
Director, AMC

INSTRUCTIONS DATED (II) (III):

Office - Sept. 17, 1968
Office - Supplement I - Dec. 1969
Office - Amendment I - Mar. 26, 1970

METHOD OF COMPILATION (III):

Wild B-8 Stereo-Plotter

MANUSCRIPT SCALE (III):

1:20,000

STEREOSCOPIC PLOTTING INSTRUMENT SCALE (III):

1:30,000 Pantographed to 1:20,000

DATE RECEIVED IN WASHINGTON OFFICE (IV):

DATE REPORTED TO NAUTICAL CHART BRANCH (IV):

APPLIED TO CHART NO.

DATE:

DATE REGISTERED (IV):

MAR. 3, 1975

GEOGRAPHIC DATUM (III):

N.A. 1927

VERTICAL DATUM (III):
HIGH WATERMEAN ~~LOW WATER~~ 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~~ mean lower low water

REFERENCE STATION (III):

Craven, 1895

LAT.:

LONG.:

57°27' 49.295 1523.4M 134°51' 52.556" 876.2M

☒ ADJUSTED☐ UNADJUSTED

PLANE COORDINATES (IV):

STATE

ZONE

Y = 2,058,671.13 Ft. X = 2,249,798.64 Ft.

Alaska

1

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

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

DESCRIPTIVE REPORT - DATA RECORD

T-11942

FIELD INSPECTION BY (II):		DATE:
None		
MEAN HIGH WATER LOCATION (III) (STATE DATE AND METHOD OF LOCATION):		
Air Photo Compilation - June 3,8,17, 1967		
PROJECTION AND GRIDS RULED BY (IV):		DATE
Coradomat		Dec. 8, 1969
PROJECTION AND GRIDS CHECKED BY (IV):		DATE
Coradomat		Dec. 8, 1969
CONTROL PLOTTED BY (III):		DATE
Aerotriangulation - Coradomat		Dec. 8, 1969
CONTROL CHECKED BY (III):		DATE
Aerotriangulation - Coradomat		Dec. 8, 1969
RADIAL PLOT OR STEREOSCOPIC CONTROL EXTENSION BY (III):		DATE
I.I. Saperstein		Nov. 1969
STEREOSCOPIC INSTRUMENT COMPILATION (III):	PLANIMETRY A.L. Shands	DATE Mar. 23, 1970
	Reviewed: L.O. Neterer, Jr.	Mar. 23, 1970
	CONTOURS	DATE
	Inapplicable	
MANUSCRIPT DELINEATED BY (III):		DATE
A.L. Shands		March 23, 1970
SCRIBING BY (III):		DATE
Charles Parker		June 22, 1972
PHOTOGRAMMETRIC OFFICE REVIEW BY (III):		DATE
Compilation: L.L. Graves		April 13, 1970
Field Edit: R.E. Smith		Aug. 17, 1970
REMARKS:		
Field Edit By: William D. Neff (From Lat. 57° 27' Long. 134° 54.5' to Lat. 57° 28' Long. 135° 00')		
DATE: May, 1970		

DESCRIPTIVE REPORT - DATA RECORD

T-11942

MERA (KIND OR SOURCE) (III):

Wild RC-8 "L" & "M"

PHOTOGRAPHS (III)

NUMBER	DATE	TIME	SCALE	STAGE OF TIDE
67L(c)3224 through 67L(c)3227	June 17, 67	14:20	1:30,000	0.4 ft. above MLLW
67L(c)3249 through 67L(c)3252	June 8, 67	09:50	1:30,000	1.6' ft. above MLLW
67L(c)3412 and 67L(c)3413	June 17, 67	14:38	1:30,000	2.9 ft. above MLLW

Predicted TIDE (III)

Diurnal

	RATIO OF RANGES	MEAN RANGE	MEAN RANGE
REFERENCE STATION: Juneau, Alaska		13.8'	16.4'
COORDINATE STATION: Fairway Island, Alaska		11.6'	14.2'
SUBORDINATE STATION: Lindenberg Head, Alaska		11.9'	14.5'

WASHINGTON OFFICE REVIEW BY (IV): Bernard Kurs. AMC

DATE: July, 1973

PROOF EDIT BY (IV):

DATE:

NUMBER OF TRIANGULATION STATIONS SEARCHED FOR (II):

2

RECOVERED:

2

IDENTIFIED:

1

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

RECOVERED:

None

IDENTIFIED:

None

NUMBER OF RECOVERABLE PHOTO STATIONS ESTABLISHED (III):

None

NUMBER OF TEMPORARY PHOTO HYDRO STATIONS ESTABLISHED (III):

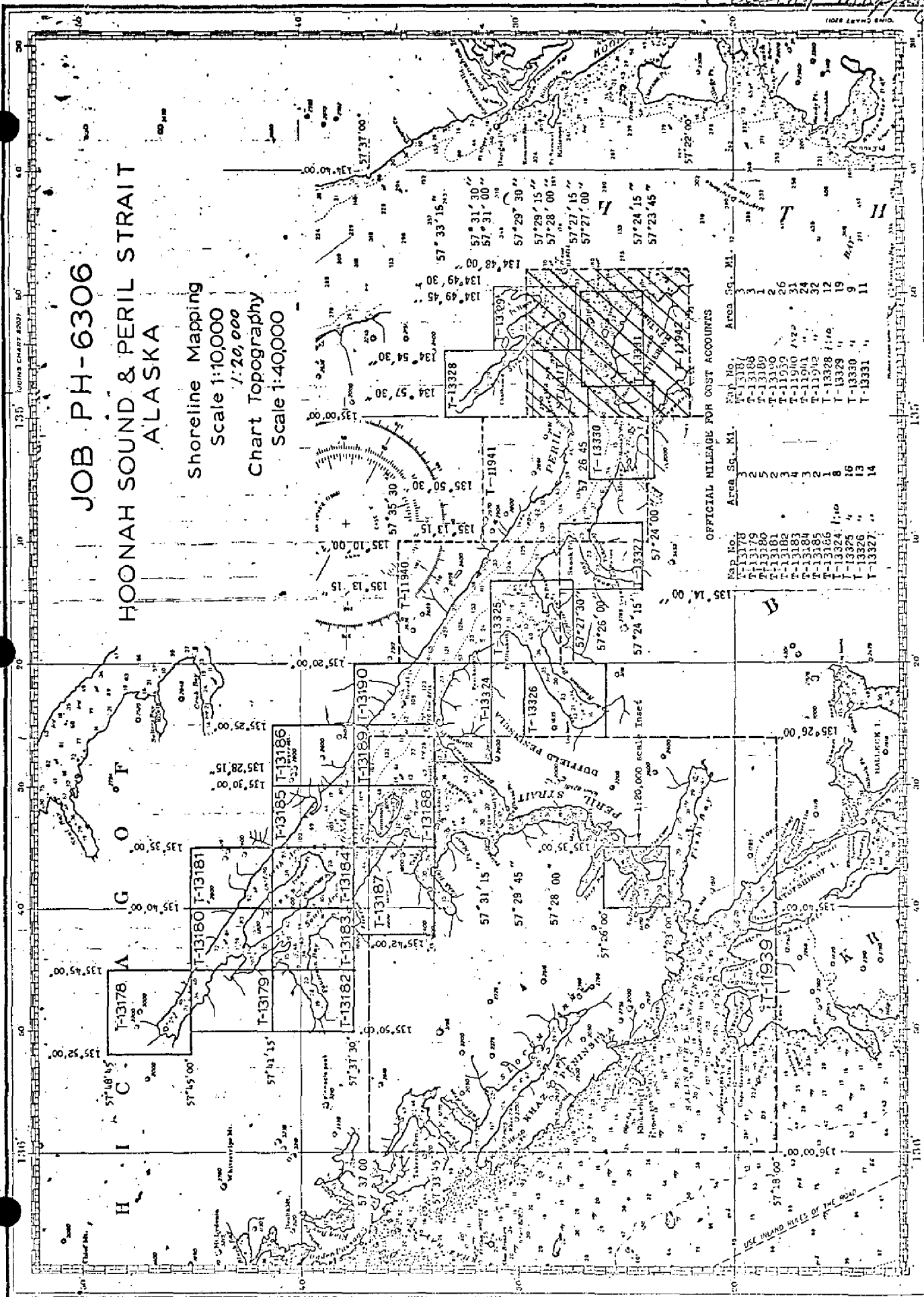
None

REMARKS:

T-11942

COMPILATION RECORD	COMPLETION DATE	REMARKS
Compilation Complete Pending Field Edit	April, 1970	Superseded
Field Edit Applied From Lat. 57°27'; Long. 134°54.5' to Lat. 57°28'; Long. 135° 00'	August, 1970	Superseded
Final Review	July, 1973	

Shoreline Mapping
Scale 1:10,000
1:20,000
Chart Topography
Scale 1:40,000



Summary To Accompany

Descriptive Report

T-11942

Shoreline survey T-11941 is part of project PH-6306. This project is located in Southeastern Alaska in the Hoonah Sound-Peril Strait area. This survey covers the entrance to Peril Strait.

There was no field work preceeding the "Incomplete" Manuscript.

Compilation was at 1:20,000 scale using the B-8 plotter to drop control points and completing the shoreline and details by graphic methods. This survey includes T-13331 entirely and parts of T-13329 and T-13330. The 1:10,000 manuscripts were reduced in size and incorporated in this survey. Any questions arising in these areas are handled in the individual 1:10,000 scale survey reports. A copy of the "Incomplete" Manuscript along with ozalids and specially prepared photographs was furnished for the preparation of the boat sheets, location of photohydro points and field edit use.

The manuscript was field edited during May, 1970. There is no field edit below Lat. $57^{\circ}24'15''$. This section of the manuscript will be class III. After field edit was applied, the manuscript was scribed, stuck-up and reproduced on cronaflex and negative of the final reviewed manuscript are being forwarded for record and registry.

FIELD INSPECTION

T-11942

There was no field inspection prior to compilation.

Photogrammetric Plot Report (Part II)
Job PH-6306
Hoonah Sound and Peril Strait, Alaska

November 1969

21. Area Covered

This report covers Hoonah Sound, Alaska, by the following eight (8) 1:10,000 scale shoreline T-sheets: T-13324 thru T-13331; three (3) 1:20,000 scale shoreline T-sheets: T-11940 thru T-11942 and by one (1) 1:40,000 scale sheet for chart topography T-11939 with 1:20,000 scale inset. (See Report Part I, October 1968 for strips previously bridged and sheets covered).

22. Method

Ten (10) strips were bridged using analytical aerotriangulation methods. Strips 1, 2, 3, 10, 11 and 13 are 1:60,000 scale panchromatic and strips 8, 9, 12 and 14 are 1:30,000 scale color.

Numerous tie points were located to control several of the strips due to the sparseness of horizontal control.

The attached sketch shows the strips bridged and the placement of triangulation used in the final strip adjustments.

Positions for all bridge points are shown for each strip on the IBM readout on the Alaska Zone 1 state plane coordinate system.

23. Adequacy of Control

All horizontal control was premarked. Together with tie points, it was adequate to control the various strips.

Horizontal point COVE, 1952 could not be positively identified and was not used. Horizontal point HOOFF 2, 1925 was held on Strip 3 but because of tree overhang could not be used on Strip 1.

24. Supplemental Data

Vertical control needed for the adjustment was taken from USGS quadrangles.

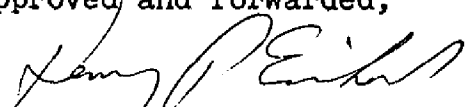
25. Photography

The definition and quality of the RC-9 "M" panchromatic and RC-8 "L" color photography were good. Coverage is adequate to compile all sheets by either the 1:60,000 or 1:30,000 scale photography.

Respectfully submitted,


I. I. Saperstein


Approved and forwarded,


Henry P. Eichert
Chief, Aerotriangulation
Section

Notes to Compiler

In order to compile the 1:10,000 scale sheets in Peril Strait, Rodman Bay and Saook Bay, it may be necessary to do so from the 1:30,000 scale photography. If so, order 1:30,000 color plates and contact photographs where necessary to locate compilation points from the 1:60,000 scale bridging photography. (See photo layout for plates required). All ratio prints should be ordered by the compilation office.

Bridge points will be plotted in Rockville by the Coradi on all sheets except T-11939.



JOB PH-6306

HOONAH SOUND & PERIL STRAIT
ALASKA

Shoreline Mapping

Scale 1:10,000

Chart Topography
Scale 1:40,000

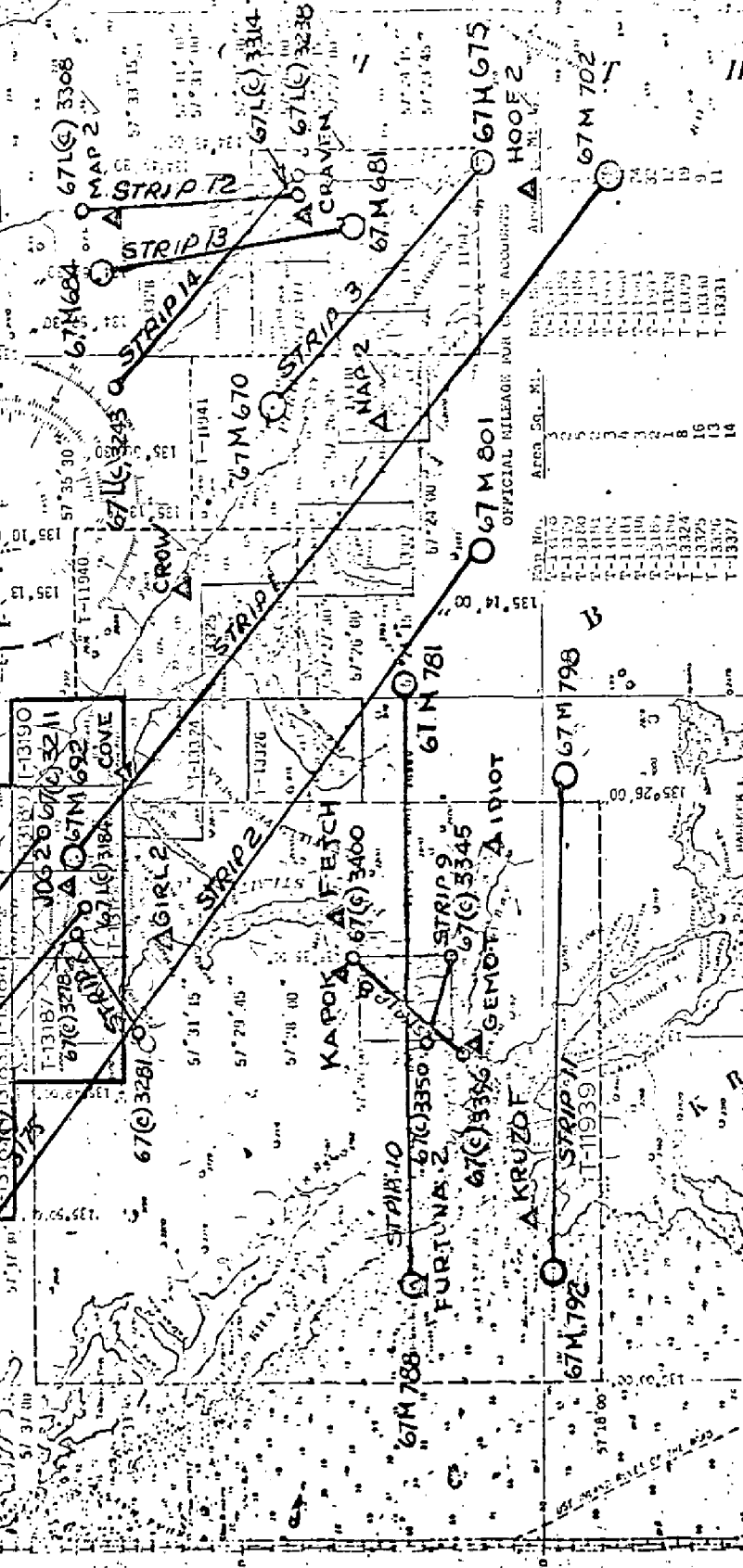
○ 1:60,000 PANCHROMATIC

○ 1:30,000 COLOR

△ HORIZONTAL CONTROL

PART II

PART I



OFFICIAL RELEASE FOR USE BY ACCOUNTS

Area Sq. Mi.	Area Sq. Mi.
1	1
2	2
3	3
4	4
5	5
6	6
7	7
8	8
9	9
10	10
11	11
12	12
13	13
14	14

DESCRIPTIVE REPORT: CONTROL RECORD

MAP T-11942 PROJECT NO. PH-6306 SCALE OF MAP 1:10,000 SCALE FACTOR None

[illegible]

Compilation Report

T-11942

PH-6306

31. DELINEATION

The Wild B-8 Plotter was used. A part of Portage Arm, Latitude 57°22' to 57°23', Longitude 135° 57' to 135°59' the shoreline was not visible on the B-8 plates due to dense shadows and free overhang. Difficulty was also experienced along the east shore of Catherine Island, Latitude 57°22' to 57°24' 15" for the same reason. Color ratio photographs were used graphically, for delineation of these areas.

There was no field inspection within the limits of this manuscript.

32. CONTROL

See photogrammetric plot report.

33. SUPPLEMENTAL DATA

None.

34. CONTOURS AND DRAINAGE

Contours are inapplicable. Drainage was delineated from office interpretation of the photographs.

35. SHORELINE AND ALONGSHORE DETAILS

The shoreline was delineated from office interpretation of the photographs.

No low water line was shown along the east shore of Catherine Island from 57°22' to 57°24' 15" latitude, due to the 3 foot stage of tide at the time of photography.

36. OFFSHORE DETAILS

No statement.

37. LANDMARKS AND AIDS

Forms 567 were submitted to the Rockville office dated:
Form 567 for two non-floating aids were submitted to
R Rockville on Sept. 16, 1970.

38. CONTROL FOR FUTURE SURVEYS

None.

39. JUNCTIONS

Satisfactory junctions were made with T-11941, scale 1:20,000 and T-13330, scale 1:10,000 to the west, T-13328 and T-13329, scale 1:10,000 to the north. T-13331 is entirely within the limits of this manuscript. There is no contemporary survey to the east or the south.

40. HORIZONTAL AND VERTICAL ACCURACY

No statement.

41. FIELD EDIT

Field edit for this manuscript has not been submitted south of 57°24'15". Edit was adequate for the northwest corner of the manuscript.

46. COMPARISON WITH EXISTING MAPS

Comparisons were made with U.S.G.S. Quadrangles Sitka (B-3), Alaska and Sitka (C-3), Alaska scale 1:63,360 dated 1951 and 1948 respectively.

47. COMPARISON WITH NAUTICAL CHARTS

A comparison was made with Chart 8283 (Peril Strait), scale 1:40,000, dated 5th Edition, May 12, 1969.

ITEMS TO BE APPLIED TO NAUTICAL CHARTS IMMEDIATELY

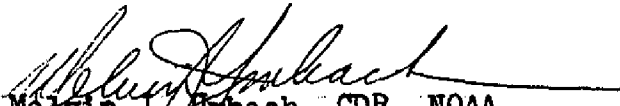
None.

ITEMS TO BE CARRIED FORWARD

None.

L. L. Graves
L.L. Graves
Cartographic Technician
4/14/70

Approved for Forwarding:


Melvin J. Embach, CDR, NOAA
Chief, Coastal Mapping Division
AMC

Approved:


Alfred C. Holmes, RADM, NOAA
Director, AMC

GEOGRAPHIC NAMES

FINAL NAME SHEET

PH-6306 (Alaska)

T-11942

- Baranof Island
- Catherine Island
- Chatham Strait
- Chichagof Island
- Coleman Reef
- Eva Islands
- Fairway Islands
- ~~• Florence Bay~~
- Midway Reef
- Morris Reef
- Peril Strait
- Point Craven
- Point Hanus
- Point Hayes
- Point Thatcher
- Portage Arm
- Sitkoh Bay
- ~~• Svenson Rock~~
- Thatchery Channel
- Traders Islands

Approved by:

AJW

A. Joseph Wraight
Chief Geographer

Prepared by:

3-22-73

Frank W. Pickett
Cartographic Technician

T-11942

49. NOTES FOR THE HYDROGRAPHER

None.

PHOTOGRAMMETRIC OFFICE REVIEW

T- 11942

1. PROJECTION AND GRIDS Coradomat	2. TITLE LLG	3. MANUSCRIPT NUMBERS LLG	4. MANUSCRIPT SIZE LLG
CONTROL STATIONS			
5. HORIZONTAL CONTROL STATIONS OF THIRD-ORDER OR HIGHER ACCURACY LLG	6. RECOVERABLE HORIZONTAL STATIONS OF LESS THAN THIRD-ORDER ACCURACY (Topographic stations) XXG		7. PHOTO HYDRO STATIONS XX
8. BENCH MARKS XX	9. PLOTTING OF SEXTANT FIXES XX	10. PHOTOGRAMMETRIC PLOT REPORT Rockville Science Center	11. DETAIL POINTS LLG
ALONGSHORE AREAS (Nautical Chart Data)			
12. SHORELINE LLG	13. LOW-WATER LINE LLG	14. ROCKS, SHOALS, ETC. LLG	15. BRIDGES XX
16. AIDS TO NAVIGATION XX	17. LANDMARKS XX	18. OTHER ALONGSHORE PHYSICAL FEATURES LLG	19. OTHER ALONGSHORE CULTURAL FEATURES XX
PHYSICAL FEATURES			
20. WATER FEATURES LLG		21. NATURAL GROUND COVER XX	22. PLANETABLE CONTOURS XX
23. STEREOSCOPIC INSTRUMENT CONTOURS XX	24. CONTOURS IN GENERAL XX	25. SPOT ELEVATIONS XX	26. OTHER PHYSICAL FEATURES LLG
CULTURAL FEATURES			
27. ROADS XX	28. BUILDINGS XX	29. RAILROADS XX	30. OTHER CULTURAL FEATURES XX
BOUNDARIES			
31. BOUNDARY LINES XX		32. PUBLIC LAND LINES XX	
MISCELLANEOUS			
33. GEOGRAPHIC NAMES LLG		34. JUNCTIONS LLG	35. LEGIBILITY OF THE MANUSCRIPT LLG
36. DISCREPANCY OVERLAY LLG	37. DESCRIPTIVE REPORT LLG	38. FIELD INSPECTION PHOTOGRAPHS	39. FORMS LLG
40. REVIEWER L.L. Graves		SUPERVISOR, REVIEW SECTION OR UNIT <i>Albert C. Rauck, Jr.</i>	
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 B. Wilson		SUPERVISOR <i>Albert C. Rauck, Jr.</i>	
Reviewer: R.E. Smith		Aug. 17, 70	
43. REMARKS Field Edit Applied From: Field Edit Ozalid; Photo 67L(c)3250 (Matte Ratio).			

FIELD EDIT REPORT

MAP T-11942

Peril Strait

Field edit of map T-11942 was accomplished during May, 1970. Inspection was done from a launch before and after the hydrography, and was restricted to the project area only.

METHOD

Field photographs and a copy of the Field Edit Ozalid were examined in the field. The mean high water line was verified by visual comparison of the shore area to field photographs and ozalid. Notes on the heights of rocks, location of the MHWL, and other data pertaining to photo identifiable features have been made in violet on the Field Edit Ozalid and cross referenced where necessary, to field matte ratio prints. Unless otherwise indicated all shoreline features have been verified correct as interpreted. All notes are in violet ink on the 1:20,000 field photo 67L3250. All times are based on meridian 120° W.

ADEQUACY OF COMPILATION

Compilation of the map is good. Hydrographic location of features compares well to photogrammetric location. Corrections and additional identifiable features have been indicated on the field edit ozalid and photographs.

Field inspection of the map is complete.

RECOMMENDATIONS

It is recommended that the map be revised in accordance with Field Edit data provided and be accepted as an advance manuscript.

Respectfully submitted,

William D. Neff

William D. Neff
LTJG, USESSA

Review Report T-11942

Shoreline

July, 1973

61. GENERAL STATEMENT

See summary which is page 6 of the Descriptive Report.

62. COMPARISON WITH REGISTERED SURVEYS

There is no registered survey in this area.

63. COMPARISON WITH MAPS OF OTHER AGENCIES

Comparison was made with U.S.G.S. Quadrangle Sitka (B-3), Alaska at 1:63,360 scale dated 1951. There is good general agreement.

64. COMPARISON WITH CONTEMPORARY HYDROGRAPHIC SURVEYS

Comparison was made with Boat Sheet H-9121 at 1:20,000 scale, dated 1970. Comparison was good. The area compared was that not covered by overlapping surveys. (see summary)


65. COMPARISON WITH NAUTICAL CHARTS

Comparison with chart 8283 dated July 17, 1971 at 1:40,000 scale, was made. There is good general agreement.


66. ADEQUACY OF RESULTS AND FUTURE SURVEYS

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

Reviewed by:


Bernard Kurs
Cartographer


Approved for Forwarding:



Melvin J. Umbach, CDR, NOAA
Chief, Coastal Mapping Division
AMC

Approved:


Alfred C. Holmes, RADM, NOAA
Director, AMC

Approved:


Chief, Photogrammetric Branch


Chief, Coastal Mapping Division

STRIKE OUT TWO

NONFLOATING AIDS ~~XXXXXXXXXX~~ FOR CHARTS

ATLANTIC MARINE CENTER

SEPT. 14 1970

I recommend that the following objects which have ~~XXXXXX~~ been inspected from seaward to determine their value as landmarks be charted on ~~XXXXXX~~ the charts indicated. *200 + 2* *200*

The positions given have been checked after listing by

ALBERT C. RAUCK, JR.

[illegible]

ALLEN L. POWELL, DIRECTOR

—
H. L. Russell
L. Russell

[illegible]

This form shall be prepared in accordance with Hydrographic Manual, Publication 20.2, Sec. 1-55, 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

~~XXXXXXXXXX~~
TO BE REVISED
~~XXXXXXXXXX~~

STRIKE OUT TWO

NONFLOATING AIDS CRYSTALLOIDS FOR CHARTS

ATLANTIC MARINE CENTER

SEPT. 14 1970

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

The positions given have been checked after listing by Albert C. French B.

ALBERT C. RAUCK, JR.

ALLEN L. POWELL, DIRECTOR

Allen T. Powell
POWELL, DIRECTOR ~~XXXXXXXXXX~~

[illegible]

This form shall be prepared in accordance with Hydrographic Manual, Publication 20.2, Sec. 1-55, 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