

11941

11941

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-11941 ..*Classification No.* *Edition No.*
Field Edited

LOCALITY

State Alaska*General Locality* Hoonah Sound & Peril Strait*Locality* Lindenberg Harbor

1967 TO 1970

Alfred C. Holmes, Director, AMC

REGISTRY IN ARCHIVES

DATE

DESCRIPTIVE REPORT - DATA RECORD

T-11941

OBJECT NO. (II):

PH-6306

FIELD OFFICE (III):

None

CHIEF OF PARTY

PHOTOGRAMMETRIC OFFICE (III):

Atlantic Marine Center, Norfolk, VA

OFFICER-IN-CHARGE

Alfred C. Holmes,
Director, AMC

INSTRUCTIONS DATED (III) (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):

MEAN ~~LOW~~ ^{HIGH 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~~ or mean lower low water

REFERENCE STATION (III):

NAP 2, 1960

LAT.:

57°25'18.681"(577.9)

LONG.:

135°03'37.182"(620.6)

☒ ADJUSTED☐ UNADJUSTED

PLANE COORDINATES (IV):

y = 2,044,128.11 Ft. x = 2,410,955.97 Ft.

STATE

Alaska

ZONE

1

MAN 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
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FIELD INSPECTION BY (III): None		DATE:
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): Coradomat		DATE: Dec. 8, 1969
PROJECTION AND GRIDS CHECKED BY (IV): Coradomat		DATE: Dec. 8, 1969
CONTROL PLOTTED BY (III): Aerotriangulation - Coradomat		DATE: Dec. 8, 1969
CONTROL CHECKED BY (III): Aerotriangulation - Coradomat		DATE: Dec. 8, 1969
RADIAL PLOT OR STEREOSCOPIC CONTROL EXTENSION BY (III): I.I. Saperstein		DATE: Nov. 1969
STEREOSCOPIC INSTRUMENT COMPILATION (III):	PLANIMETRY A.L. Shands	DATE Apr. 3, 1970
	Reviewer: L.O. Neterer, Jr.	DATE Apr. 3, 1970
	CONTOURS Inapplicable	DATE
MANUSCRIPT DELINEATED BY (III): R.J. Pate		DATE: Apr. 17, 1970
SCRIBING BY (III): C.J. Woodson		DATE: June 20, 1972
PHOTOGRAMMETRIC OFFICE REVIEW BY (III): Field Edit: R.E. Smith		DATE: Aug. 21, 1970
REMARKS: Field Edit By: William D. Neff		DATE: May, 1970

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INSTRUMENT (KIND OR SOURCE) (III):

Wild RC-8 "L" & "M"

PHOTOGRAPHS (III)

NUMBER	DATE	TIME	SCALE	STAGE OF TIDE
67-L-(c)-3220	June 8, 1967		1:20,000	0.5' above MLLW
67-L-(c)-3221	" "		"	0.4 " "
67-L-(c)-3222	" "		"	0.4 " "
67-L-(c)-3246	" "		"	1.6 " "
67-L-(c)-3247	" "		"	1.6 " "
67-L-(c)-3247	" "		"	1.6 " "

Predicted TIDE (III)

	RATIO OF RANGES	MEAN RANGE	SPRING RANGE
REFERENCE STATION: Juneau, Alaska		13.8'	
COORDINATE STATION: Fairview Island, Alaska		11.6'	
SUBORDINATE STATION:			

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

DATE: July 1973

PROOF EDIT BY (IV):

DATE:

NUMBER OF TRIANGULATION STATIONS SEARCHED FOR (II):

1

RECOVERED:

1

IDENTIFIED:

1

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:

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COMPILATION RECORD

COMPLETION DATE

REMARKS

Compilation Complete Pending Field Edit	April 1970	Superseded
Field Edit Applied For Area Compiled at 1:20,000	Aug. 1970	Superseded
Final Review	July 1973	

HOONAH SOUND & PERIL STRAIT
ALASKA

Shoreline Mapping

Scale 1:10,000

1:20,000

Chart Topography:

Scale 1:40,000

OFFICIAL MILEAGE FOR COST ACCOUNTS

Map No.	Area Sq. MI.	Earl No.	Area Sq.
T-13176	3	T-13176	26
T-13179	3	T-13188	31
T-13180	2	T-13189	24
T-13181	2	T-13190	26
T-13182	2	T-13191	31
T-13183	3	T-13192	24
T-13184	4	T-13228	12
T-13185	2	T-13329	19
T-13186	2	T-13330	9
T-13224	8	T-13331	11
T-13325	16		
T-13326	13		
T-13327	14		

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SUMMARY TO ACCOMPANY

DESCRIPTIVE REPORT

T-11941

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 Peril Strait area from Saook Point to Hanus Bay.

There was no field work preceding 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 from office interpretation of the photographs. A copy of the "Incomplete" manuscript along with ozalids and specially prepared photographs was furnished for the preparation of the boat sheets, locations of photo-hydro points and field edit use.

The manuscript was field edited during May, 1970. After field edit was applied the manuscript was scribed, stuck-up and reproduced on cronaflex. Final review was at AMC during July, 1973. One cronaflex and negative of the final reviewed manuscript are being forwarded for record and registry.

FIELD INSPECTION

T-11941

There was no field inspection prior to compilation.

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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 HOOF 2, 1925 was held on Strip 3 but because of tree overhang could not be used on Strip 1.

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-2-

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
I. I. Saperstein


Approved and forwarded,

Henry P. Eichert
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.



DESCRIPTIVE REPORT CONTROL RECORD

None

[illegible]

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COMPILATION REPORT

31. DELINEATION

There was no field inspection prior to compilation. Sheet T-11941 scale 1:20,000 scale was compiled graphically by holding shoreline control points which had been dropped by means of the B-8.

These points held real well radially in locating the Photo Center.

The southern shoreline of Peril Strait extending from Lat. 135°00'00" to 05'30" and from Lat. 135°08'45" to 10'00" will be transferred from the overlapping 1:10,000 sheets after reduction to 1:20,000 scale.

32. CONTROL

Control was adequate and photo scale very good.

33. SUPPLEMENTAL DATA

None.

34. CONTOURS AND DRAINAGE

Contours are inapplicable. Drainage delineated from photo interpretation.

35. SHORELINE AND ALONGSHORE DETAILS

The shoreline, low-water line, ledges and all foreshore details were compiled from office photo interpretation.

36. OFFSHORE DETAILS

No problems encountered.

37. LANDMARKS AND AIDS

Form 567 for one non-floating aid was submitted to Rockville office on Sept. 16, 1970.

38. CONTROL FOR FUTURE SURVEYS

None.

39. JUNCTIONS

Junctions are in agreement with T-11942 to the east and T-11940 to the west, scales 1:10,000.

Junctions with T-13330 to the east and T-13327 to the west, scales 1:10,000 will be made when reductions of these sheets are received. There is no contemporary survey to the north and south.

40. HORIZONTAL AND VERTICAL ACCURACY

No Statement.

46. COMPARISON WITH EXISTING MAPS

Comparison was made with the G.S. quadrangles Sitka (B-4) and Sitka (C-4) Alaska, scale 1:63,360 dated 1951.

47. COMPARISON WITH NAUTICAL CHARTS

Comparison was made with C&GS Chart 8283, scale 1:40,000, 5th edition May 1969.

ITEMS TO BE APPLIED TO NAUTICAL CHARTS IMMEDIATELY

None.

Submitted by:

R. J. Pate

R. J. Pate
Cartographic Technician
4/17/70

43. REMARKS-

The field editor identified a rock on a photograph for which he also provides the boat sheet position (Lat. $57^{\circ}29.17''$ Long. $135^{\circ}07.20'$). The photo position differs from the hydrographers location by 20 meters. The boat sheet position was compiled in as much as the rock was visible on only two photographs. A sun spot covered the area on the third photograph.

Triangulation station HURT was asked by the compiler to be recovered. No comment was made by the field editor.

At Lat. $57^{\circ}26.5'$; Long. $135^{\circ}08.7'$. A ledge was labeled Bare 8' 21 May 1970. No time was given, this left doubt to the compiler as to, if this was a reef or a small island.

ON 11/11/10

Approved for Forwarding:



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

Approved:



Alfred C. Holmes
RADM, NOAA
Director, AMC

GEOGRAPHIC NAMES

FINAL NAME SHEET

PH-6306 (Alaska)

T-11941

2-19-41

- ~~Admiral Island~~
- ~~Catherine Island~~
- ~~Peril Strait~~
- Baranof Island
- ~~Catherine Island~~
- Chichagof Island
- Dead Tree Island
- False Lindenberg Head
- Hanus Bay
- ~~Lake Eva~~
- Lindenberg Harbor
- Lindenberg Head
- McClellan Rock
- ~~Moore Mountains~~
- Peril Strait
- Point Kennedy
- ~~Point Moses~~
- ~~Portage Arm~~
- Saook Bay
- Saook Point
- ~~Sitka Lake~~
- Todd

Approved by:

Approved by:

AJW

A. Joseph Wraight
Chief Geographer

Prepared by:

Prepared by:

2.2.41

Frank W. Pickett
Cartographic Technician

T-11941

49. NOTES FOR THE HYDROGRAPHER

None. See Field Edit Ozalid.

FORM C&GS-1002 (9-66)		U.S. DEPARTMENT OF COMMERCE ESSA COAST AND GEODETIC SURVEY	
PHOTOGRAMMETRIC OFFICE REVIEW			
T11941			
1. PROJECTION AND GRIDS Coradomat	2. TITLE RJP	3. MANUSCRIPT NUMBERS RJP	4. MANUSCRIPT SIZE RJP
CONTROL STATIONS			
5. HORIZONTAL CONTROL STATIONS OF THIRD-ORDER OR HIGHER ACCURACY RJP	6. RECOVERABLE HORIZONTAL STATIONS OF LESS THAN THIRD-ORDER ACCURACY (Topographic stations) RJP		7. PHOTO HYDRO STATIONS XX
8. BENCH MARKS XX	9. PLOTTING OF SEXTANT FIXES RJP	10. PHOTOGRAMMETRIC PLOT REQUEST RJP	11. DETAIL POINTS RJP
ALONGSHORE AREAS (Nautical Chart Data)			
12. SHORELINE RJP	13. LOW-WATER LINE RJP	14. ROCKS, SHOALS, ETC. RJP	15. BRIDGES RJP
16. AIDS TO NAVIGATION RJP	17. LANDMARKS RJP	18. OTHER ALONGSHORE PHYSICAL FEATURES RJP	19. OTHER ALONGSHORE CULTURAL FEATURES RJP
PHYSICAL FEATURES			
20. WATER FEATURES RJP	21. NATURAL GROUND COVER RJP		22. PLANETABLE CONTOURS XX
23. STEREOSCOPIC INSTRUMENT CONTOURS XX	24. CONTOURS IN GENERAL XX	25. SPOT ELEVATIONS XX	26. OTHER PHYSICAL FEATURES RJP
CULTURAL FEATURES			
27. ROADS RJP	28. BUILDINGS RJP	29. RAILROADS RJP	30. OTHER CULTURAL FEATURES RJP
BOUNDARIES			
31. BOUNDARY LINES XX		32. PUBLIC LAND LINES XX	
MISCELLANEOUS			
33. GEOGRAPHIC NAMES RJP	34. JUNCTIONS RJP		35. LEGIBILITY OF THE MANUSCRIPT RJP
36. DISCREPANCY OVERLAY	37. DESCRIPTIVE REPORT RJP	38. FIELD INSPECTION PHOTOGRAPHS	39. FORMS RJP
40. REVIEWER R.J. Pate		SUPERVISOR, REVIEW SECTION OR UNIT Albert C. Rauck, Jr. Albert C. Rauck, Jr.	
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 Reviewer: R.E. Smith		SUPERVISOR Albert C. Rauck, Jr. Albert C. Rauck, Jr.	
43. REMARKS Field Edit Applied From: Field Edit Ozalid. 67-L-(c) ratio (mat) prints: - 3220,3221,3222 & 3247.			

FIELD EDIT REPORT

MAP T-11941

Peril Strait

Field edit of map T-11941 was accomplished during May, 1970. Inspection was done from a launch before and after the hydrography.

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 following 1:20,000 field photos: 67L3247, 67L3222, 67L3221, and 67L3220. All times are based on meridian 105° 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

TAKE OUT TWO

NONFLOATING AIDS XXXXXXXXXXXXXXXX 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. Hancock, Jr.

ALBERT C. RAUCK, JR.

ALLEN L. POWELL, DIRECTOR

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

REVIEW REPORT T-11941

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 USGS Quadrangles Sitka (B-4), Alaska and Sitka (C-4), Alaska both dated 1951 and at 1:63,360 scale. General agreement is very good.

64. COMPARISON WITH CONTEMPORARY HYDROGRAPHIC SURVEYS:

Comparison was made with Boat Sheets H-9121 at 1:20,000 scale and dated 1970. There is very good agreement.

65. COMPARISON WITH NAUTICAL CHARTS:

Comparison was made with Chart 8283 dated July 17, 1971 at 1:40,000 scale. There is good general agreement. Small discrepancies in shoreline are due primarily to natural changes.


66. ADEQUACY OF RESULTS AND FUTURE SURVEYS:

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


Reviewed by:

Bernard Kurs
Bernard Kurs
Cartographer

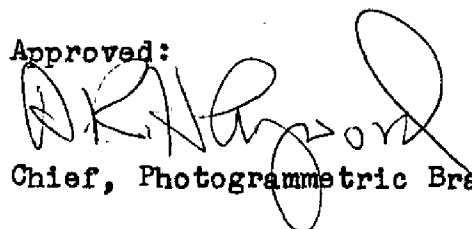
Approved for forwarding:



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

Approved:


Alfred C. Holmes
RADM, NOAA
Director, Atlantic Marine Center

Approved:


Chief, Photogrammetric Branch


Chief, Coastal Mapping Division