

ORIGINAL

13331

NOAA FORM 76-35

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

DESCRIPTIVE REPORT

31

DESCRIPTIVE REPORT - DATA RECORD

T-13331

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 - MARCH 26, 1970		
METHOD OF COMPILATION (III): Wild B-8 Stereo - Plotter and Graphic		
MANUSCRIPT SCALE (III): 1:10,000	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 lower low water	
REFERENCE STATION (III): THATCHER 2, 1925		
LAT.: 57°25'00.582"(18.0)	LONG.: 134°49'49.458"(856.6)	☒ ADJUSTED ☐ UNADJUSTED
PLANE COORDINATES (IV): y = 2,041,439.80Ft. x = 2,456,237.19 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 (II): 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 on T-11942 A.L. Shands on T-13331		DATE Dec. 8, 1969 Mar. 23, 1970
CONTROL CHECKED BY (III): Aerotriangulation-Coradomat on T-11942 R.R. White on T-13331		DATE Dec. 8, 1969 Mar. 23, 1970
RADIAL PLOT OR STEREOSCOPIC CONTROL EXTENSION BY (III): I.I. Saperstein		DATE Nov. 1969
STEREOSCOPIC INSTRUMENT COMPILATION (III): PLANIMETRY A.L. Shands Reviewer: L.O. Neterer, Jr.		DATE Mar. 23, 1970 Mar. 23, 1970
CONTOURS Inapplicable		DATE
MANUSCRIPT DELINEATED BY (III): A.L. Shands		DATE April 1970
SCRIBING BY (III): J. Hinton		DATE June 1972
PHOTOGRAMMETRIC OFFICE REVIEW BY (III): Compilation: R.J. Pate Field Edit: R.E. Smith		DATE April 13, 1970 Aug. 26, 1970
REMARKS: Field Edit By: J.J. Lenart		DATE May 1970

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CAMERA (KIND OR SOURCE) (III):

Wild RC-8 "L" & "M"

PHOTOGRAPHS (III)

NUMBER	DATE	TIME	SCALE	STAGE OF TIDE
67-L-(c)-3257 thru 67-L-(c)-3260	8 June, 67	10:16	1:30,000	1.6 ft. above MLLW
67-L-(c)-3411	17 June, 67	14:38	1:30,000	2.9 ft. above MLLW

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: None
NUMBER OF BM(S) SEARCHED FOR (II): None	RECOVERED: 0 IDENTIFIED: 0
NUMBER OF RECOVERABLE PHOTO STATIONS ESTABLISHED (III):	None
NUMBER OF TEMPORARY PHOTO HYDRO STATIONS ESTABLISHED (III):	None

REMARKS:



T-13331

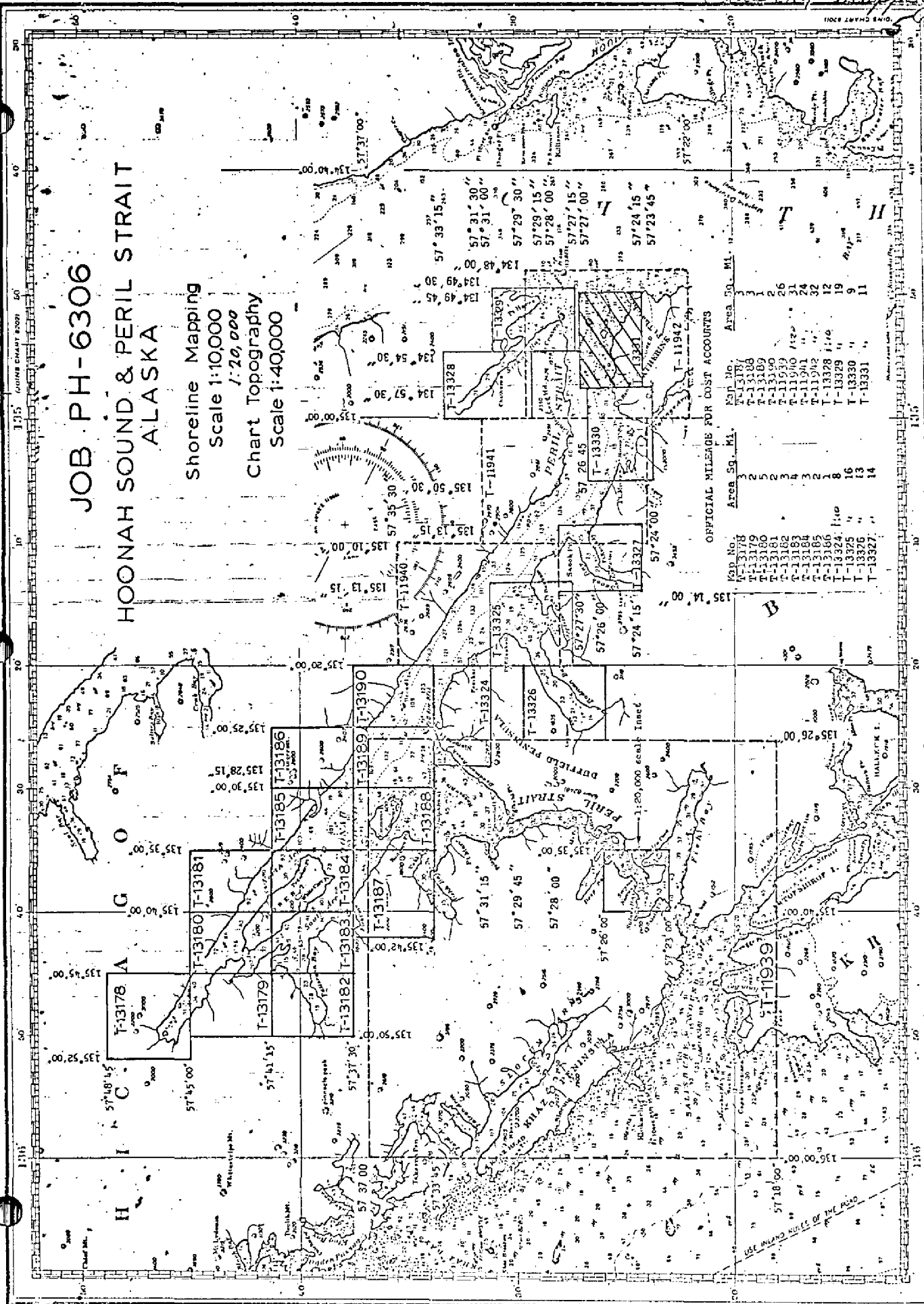
COMPILATION RECORD

COMPLETION DATE

REMARKS

Compilation Complete Pending Field Edit	April 8, 1970	Superseded
Field Edit Applied Compilation Complete	Aug., 1970	Superseded
Final Review	July, 1970	

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



SUMMARY TO ACCOMPANY

DESCRIPTIVE REPORT

T-13331

Shoreline survey T-13331 is part of project PH-6306. The project is located in southeastern Alaska in the Hoonah Sound-Peril Strait area. This survey covers the south half of the entrance to Peril Strait from Chatham Strait.

There was no field work preceding the "Incomplete" manuscript.

Compilation was at 1:10,000 scale using the B-8 plotter to drop control while the details were delineated by graphic methods. A copy of the manuscript classified "Incomplete" along with ozalids and specially prepared photographs were furnished for the preparation of the boat sheet location of photo-hydro signals and field edit use.

The field edit report states that rock elevations were determined, on this survey, based on the 105°W meridian. This is substantiated in two places on the field edit ozalid. These two places are indicated in crayon. The inked information on the field edit ozalid gives the 120°th W meridian or no meridian at

FIELD INSPECTION

T-13331

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).

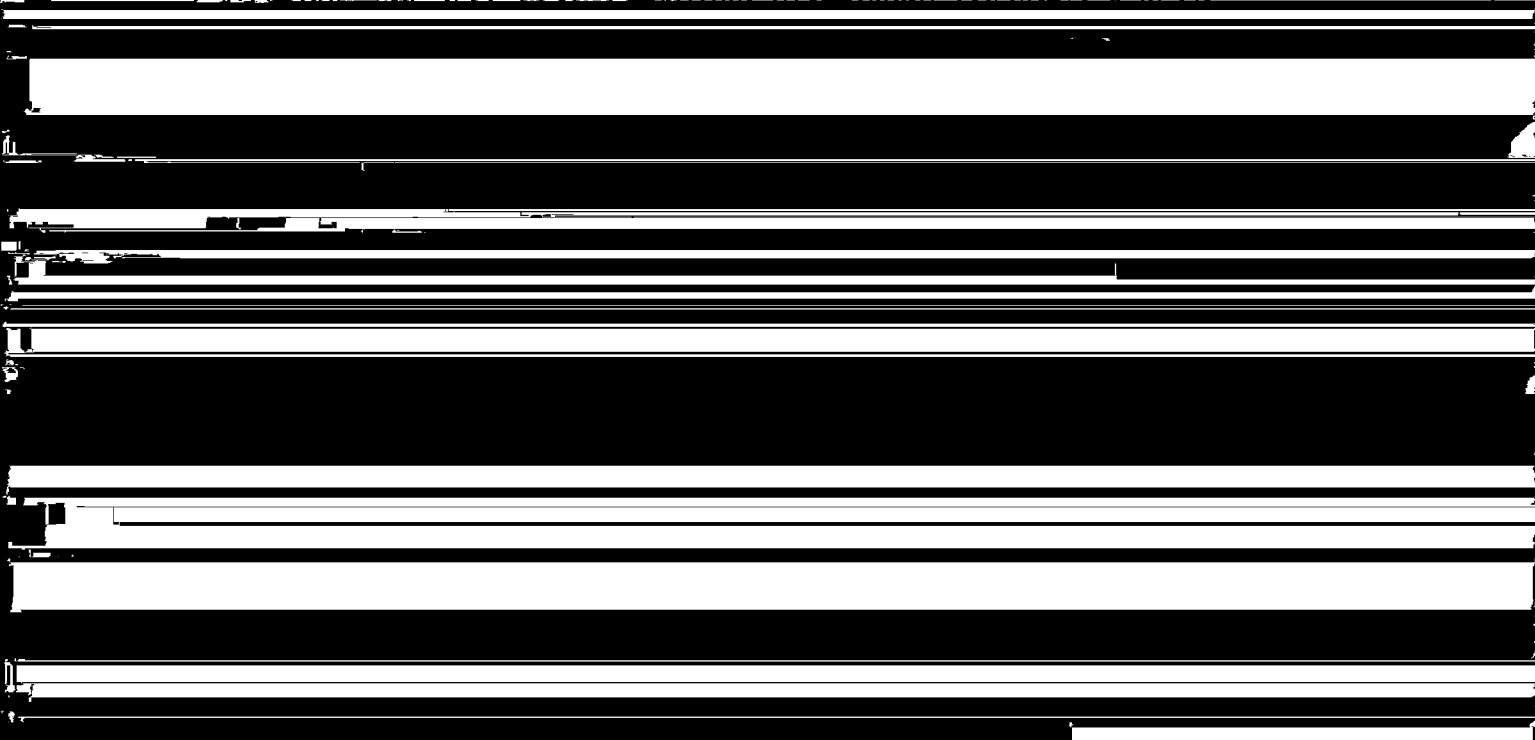
22. Method

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



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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.

JOB PH-6306

HOONAH SOUND & PERIL STRAIT ALASKA

Shoreline Mapping

Scale 1:100,000

Chart Topography
Scale 1:20,000

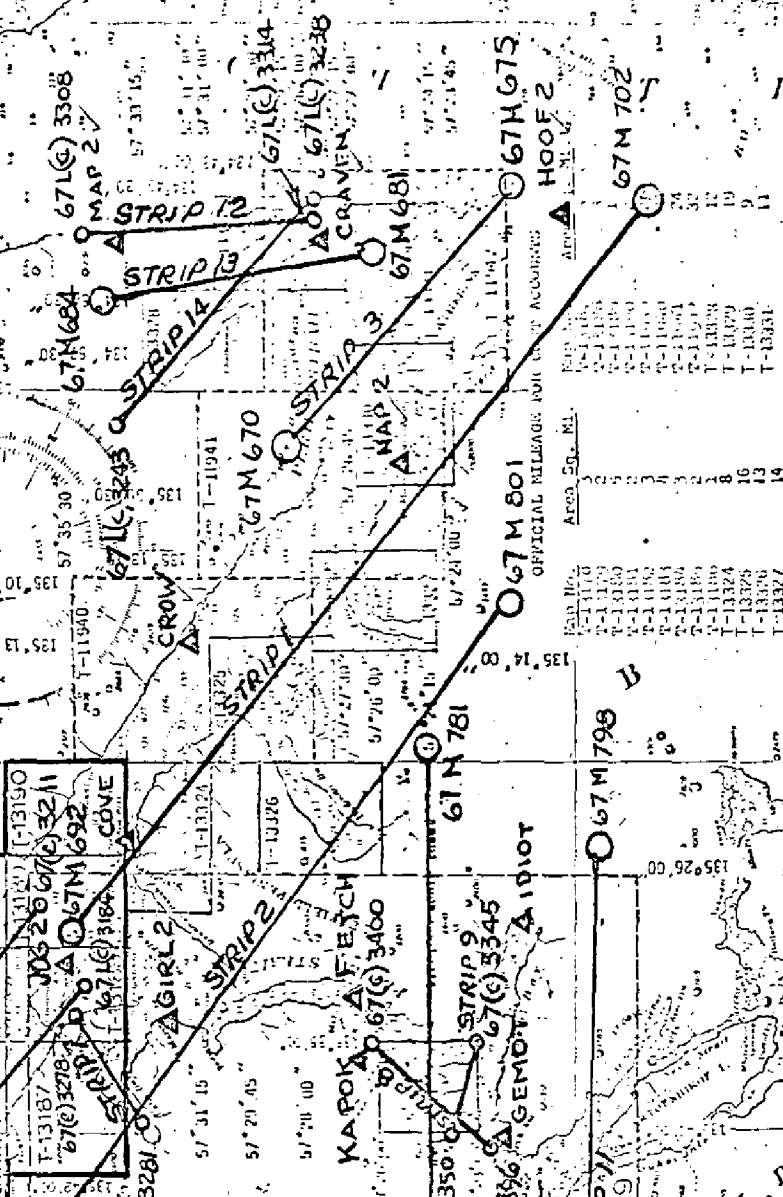
Scale 1:40,000

1:60,000 PANCHROMATIC

1:30,000 COLOR

1:40,000 HORIZONTAL CONTROL

PART II



DESCRIPTIVE REPORT CONTROL RECORD

MAP T- 13331 PROJECT NO. PH-6306 SCALE OF MAP 1:10,000 SCALE FACTOR None

[illegible]

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COMPILATION REPORT

T-13331

31. DELINEATION

Compilation of this manuscript was accomplished by using 1:30,000 contact scale color photography taken with the "L" camera. All detail was compiled graphically. This was necessitated by the fact that the only bridge covering the area of this manuscript was run using 1:60,000 scale "M" photography. It is a physical impossibility to compile on the Wild B-8 at 1:10,000 scale using 1:60,000 scale "M" Plates. So that the models were set up at 1:20,000 scale and points were dropped common to the "L" ratios. These points were then scaled off of the worksheets, using the coordinatorgraph and their positions were recorded. The points were then replotted on this manuscript and used to compile the manuscript.

Photograph coverage was adequate; however, the "L" ratios were very fuzzy which made the identification of detail difficult.

There was no field inspection.

32. CONTROL

See Photogrammetric Plot Report (Part II), dated November, 1969).

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 and all alongshore details were delineated from office interpretation of the photographs. The field editor has been asked to verify the compilation of the Mean High Water Line and to give measurements to it from photographically identifiable points.

36. OFFSHORE DETAILS

Numerous islands, rocks, reefs, and foul areas were delineated from office interpretation of the photographs.

37. LANDMARKS AND AIDS TO NAVIGATION

Form 567 for one nonfloating aids was submitted to Rockville on September 16, 1970.

38. CONTROL FOR FUTURE SURVEYS

None

39. JUNCTIONS

Junctions have been made with T-13330 to the west and with T-11942 (1:20,000) to the north, east, and south and west.

40. HORIZONTAL AND VERTICAL ACCURACY

No statement.

41. FIELD EDIT

PH-6306

T-13331

41. FIELD EDIT

Field edit was applied from the three matte ratios and the ozalid T-13331.

Rock elevations and the stage of tide were computed from information given on the field edit ozalid.

Some rocks were not shown due to insufficient information or reference was made to the boat sheet.

The foul with kelp limits of Midway Reef were transferred from the ozalid.

The reef extensions mentioned on the northwestern side of Point Thatcher were determined by the compiler by stereoscopic interpretation.

Fairway Island Light which was located by the editor was cut in from the photographs. The Form 567 is to be submitted to this office.

The reefs between $57^{\circ}25'30''$ - $57^{\circ}26'00''$ and $139^{\circ}55'00''$ - $139^{\circ}55'30''$, $57^{\circ}25'30''$ - $57^{\circ}26'00''$ and $139^{\circ}55'30''$ - $139^{\circ}56'00''$ were found to be above mean high water in elevation. Therefore, the area which appeared to be highest was shown with a heavy solid line.

The shallow limits were not transferred. Where the separation of shallow limits and foul limits was not clear, the compiler by instruction, showed the shallow line as the foul line. The foul line within the area was shown with a low water line symbol.

The southeasternmost corner of the sheet was not resolved.

The Form 526 on triangulation station Kit 2, 1960 mentioned on the ozalid has not been received by this office.

In general, the edit was very clear and legible.

The Field Edit Report stated "All times are based on meridian 105° W." Several rocks had 120° W labeled under the elevation time and date on the Field edit ozalid. In one area several rocks had the date as 4/11/70; all around this same area was labeled 5/11/70. The Field Edit Ozalid was mailed to the PMC 4/14/70. We have assumed the field editor made a mistake, and we have used "5/11/70" as the date and 120° W for the time zone.

46. COMPARISON WITH EXISTING MAPS

A comparison was made with U.S.G.S. Quadrangle SITKA (B-3), Alaska, scale 1:63,360 dated 1951.

47. COMPARISON WITH NAUTICAL CHARTS

A comparison was made with U.S.C.&G.S. Chart 8283, PERIL STRAIT, scale 1:40,000, 5th Edition, dated May 12, 1969.

ITEMS TO BE APPLIED TO NAUTICAL CHART IMMEDIATELY

None

ITEMS TO BE CARRIED FORWARD

None

Submitted by:

A. L. Shands

A. L. Shands
Cartographer
4-9-70

Approved for forwarding:

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

Approved:

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

GEOGRAPHIC NAMES

FINAL NAME SHEET

PH-6303 (Alaska)

T-13331

• Catherine Island

~~Chatham Sound~~

• Eva Islands

• Fairway Island

• Midway Reef

• Peril Strait

• Point Thatcher

~~Svensen Rock~~

• Thatcher Channel

• Traders Islands

Approved by:

ajw

A. Joseph Wraight
Chief Geographer

Prepared by:

3-22-23

Frank W. Pickett
Cartographic Technician

T-13331

49. NOTES FOR THE HYDROGRAPHER

None.

FORM C&GS-1002
(9-66)U.S. DEPARTMENT OF COMMERCE
COAST AND GEODETIC SURVEY
ESSAPHOTOGRAMMETRIC OFFICE REVIEW
T-13331

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) XX		7. PHOTO HYDRO STATIONS XX	
8. BENCH MARKS XX		9. PLOTTING OF SEXTANT FIXES XX		10. PHOTOGRAMMETRIC PLOT REPORT 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 XX	
16. AIDS TO NAVIGATION RJP		17. LANDMARKS RJP		18. OTHER ALONGSHORE PHYSICAL FEATURES RJP		19. OTHER ALONGSHORE CULTURAL FEATURES XX	
PHYSICAL FEATURES							
20. WATER FEATURES RJP				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 RJP	
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 RJP				34. JUNCTIONS RJP		35. LEGIBILITY OF THE MANUSCRIPT RJP	
36. DISCREPANCY OVERLAY RJP		37. DESCRIPTIVE REPORT		38. FIELD INSPECTION PHOTOGRAPHS		39. FORMS	
40. REVIEWER R.J.P. April 1970				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.L. Barge Aug. 24, 1970				SUPERVISOR <i>Albert C. Rauck, Jr.</i>			
Reviewer: R.E. Smith Aug. 26, 1970				Albert C. Rauck, Jr.			
43. REMARKS Field Edit Applied From: MATTS Field Ratio Photographs 67-L-(c)-3258, thru 67-L-(c)-3260 and Field Edit Ozalid T-13331.							

FIELD EDIT REPORT

MAP T-13331

Peril Strait

Trader Islands

Field edit of map T-13331 was accomplished during May, 1970. Inspection was done from a skiff in conjunction with photo-hydro signal identification and from a launch during 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 ink 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. Verification of MHWL is indicated by dotted violet ink lines on matte ratio prints. Isolated rocks and reefs were located by sextant fix and compared with photogrammetric positions.

All notes are in violet ink on the following photos: 67L3258, 67L3259, and 67L3260. All times are based on meridian 105° W.

ADEQUACY OF COMPILATION

Compilation of the map is good. Position and extent of rocks and ledges are accurate; additional photo identifiable features have been indicated on the Field Edit Ozalid and cross referenced to matte ratio prints.

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,

John J. Lenart
John J. Lenart
LTJG, USN

NONFLOATING AIDS DECEMBER 1991 FOR CHARTS

STRIKE OUT TWO

TO BE REVISED

SEPT. 14, 1970

ATLANTIC MARINE CENTER

XXXXXXXXXXXXX
I recommend that the following objects which have ~~XXXXXXXXXX~~ been inspected from seaward to determine their value as landmarks be charted on ~~XXXXXXXXXXXXX~~ the charts indicated.
200 1 2 3 4 5

The positions given have been checked after listing by

ALBERT C. RAUCK, JR.

ALLEN L. POWELL, DIRECTOR

ALLEN L. POWELL, DIRECTOR

[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

USCOMM-DC 18234-P41

REVIEW REPORT T-13331

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

A visual comparison was made with USGS Quadrangle Sitka (B-3), Alaska 1:63,360 scale dated 1951. There is general agreement.

64. COMPARISON WITH CONTEMPORARY HYDROGRAPHIC SURVEYS

Comparison was made with Boat Sheet H-9124 at 1:10,000 scale dated 1970. There is very good agreement. Svensen Rock is not visible on photos and is referred to this boat sheet by field editor. Along with this is a rock NNE of Eva Islands. There is also a rock awash in the foul area due north of Midway Reef. The required information will have to come from the aforementioned boat sheet.

65. COMPARISON WITH NAUTICAL CHARTS

A visual comparison with chart 8283 at 1:40,000 dated July 17, 1971 was made. All is in good general agreement. The rocks mentioned in item 64 are on this nautical chart.

66. ADEQUACY OF RESULTS AND FUTURE SURVEYS

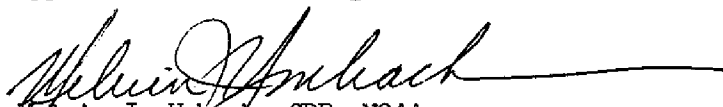
This survey meets with project instructions and the National Standards of Map Accuracy.

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, Atlantic Marine Center

Approved:


D.K. Thompson, Chief, Photogrammetric Branch


Charles Shuman, Chief, Coastal Mapping Division