ORIGINAL

13325

13325

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-13325

Classification No. Field Edited *Edition No.*

LOCALITY

State Alaska

General Locality Hoonah Sound & Peril Strait

Locality Appleton Cove

1967 TO 1970

Alfred C. Holmes, Director, AMC

REGISTRY IN ARCHIVES

DATE

☆ U.S. GOVERNMENT PRINTING OFFICE: 1972-760-593

FORM C&GS-181a
(3-66)

U.S. DEPARTMENT OF COMMERCE
ENVIRONMENTAL SCIENCE SERVICES ADMINISTRATION
COAST AND GEODETIC SURVEY

DESCRIPTIVE REPORT - DATA RECORD

T-13325

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 and Graphic	
MANUSCRIPT SCALE (III): 1:10,000	STEREOSCOPIC PLOTTING INSTRUMENT SCALE (III): 1:25,000 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 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): None	
LAT.: / LONG.:	[X] ADJUSTED [ ] UNADJUSTED
PLANE COORDINATES (IV): Y = X =	STATE: Alaska / ZONE: 1

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.

USCOMM-DC 36393A-P66

FORM C&GS-181b
(3-66)

U.S. DEPARTMENT OF COMMERCE
ENVIRONMENTAL SCIENCE SERVICES ADMINISTRATION
COAST AND GEODETIC SURVEY

DESCRIPTIVE REPORT - DATA RECORD

T-13325

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-11940 R.R. White on T-13325	DATE Dec. 8, 1969 Mar. 26, 1970
CONTROL CHECKED BY (III): Aerotriangulation - Coradomat on T-11940 A.L. Shands on T-13325	DATE Dec. 8, 1969 Mar. 26, 1970
RADIAL PLOT OR STEREOSCOPIC CONTROL EXTENSION BY (III): I. I. Saperstein	DATE Nov. 1969
STEREOSCOPIC INSTRUMENT COMPILATION (III): PLANIMETRY By: L. Neterer Reviewed By: A. Rauck, Jr.	DATE Mar. 16, 1970 Mar. 16, 1970
CONTOURS Inapplicable	DATE
MANUSCRIPT DELINEATED BY (III): R. White	DATE April 4, 1970
SCRIBING BY (III): W. Gilbert	DATE June 8, 1972
PHOTOGRAMMETRIC OFFICE REVIEW BY (III): Compilation: A.C. Rauck, Jr. Field Edit: R.E. Smith Scribing and Stick Up:	DATE April 10/70 Aug. 11/1970
REMARKS: Field Edit By: M. R. Mulhern	DATE May 1970

USCOMM-DC 36393-B-P66

FORM C&GS-181c
(3-66)

U.S. DEPARTMENT OF COMMERCE
ENVIRONMENTAL SCIENCE SERVICES ADMINISTRATION
COAST AND GEODETIC SURVEY

DESCRIPTIVE REPORT - DATA RECORD

T-13325

CAMERA (KIND OR SOURCE) (III):
Wild RC-8 "L" & "M"

PHOTOGRAPHS (III)

NUMBER	DATE	TIME	SCALE	STAGE OF TIDE
67-L-(c)-3217	June 8, 1967	09:47	1:30,000	0.5 ft. above MLLW
67-L-(c)-3301 thru 3303	June 8, 1967	10:53	1:30,000	3.8 ft. above MLLW

Predicted TIDE (III) Diurnal

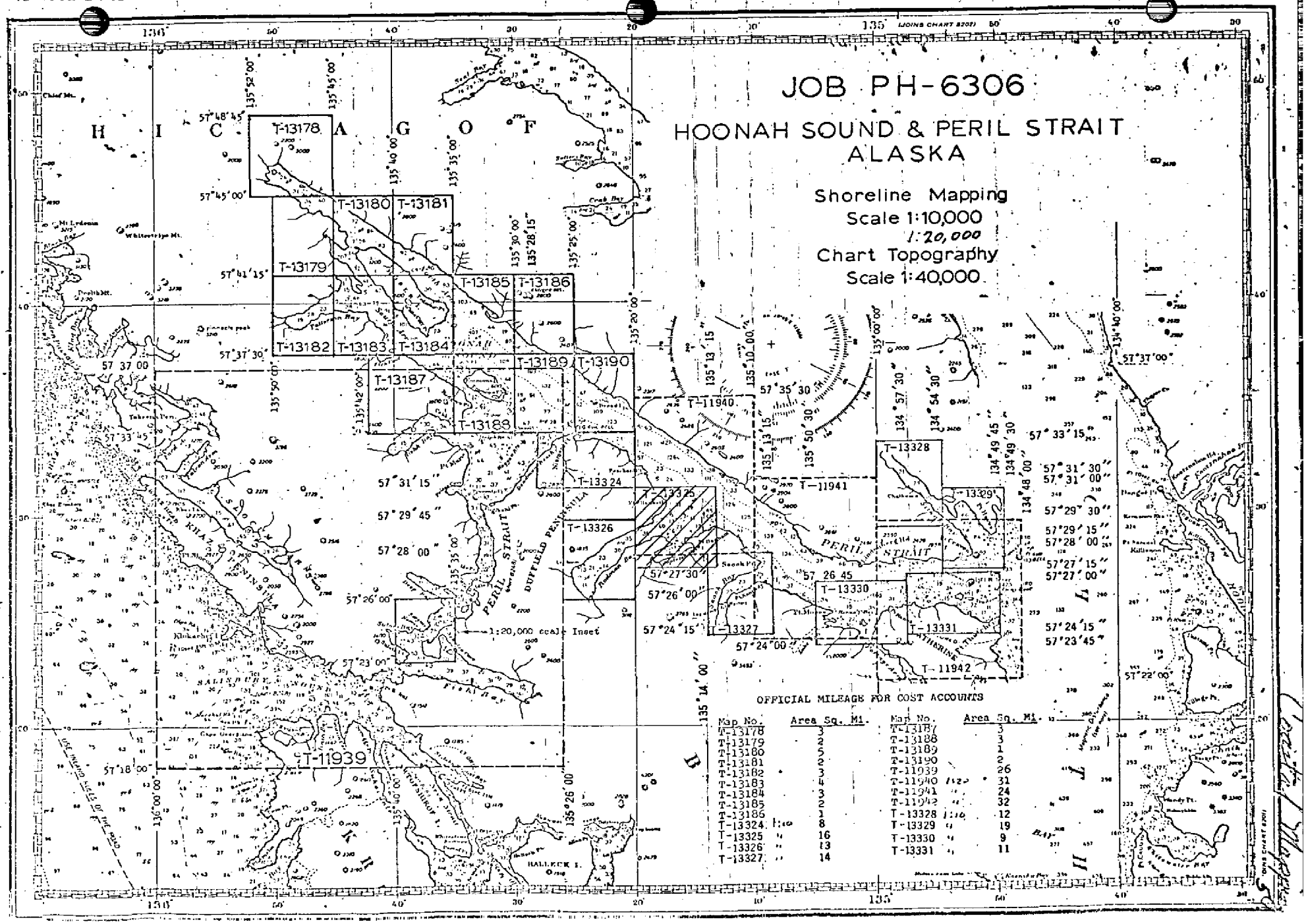
	RATIO OF RANGES	MEAN RANGE	[redacted] RANGE
REFERENCE STATION: Juneau, Alaska		13.8'	
SUBORDINATE STATION: Fairway Island, Alaska		11.6'	
SUBORDINATE STATION:			

WASHINGTON OFFICE REVIEW BY (IV): Bernard Kurs, AMC		DATE: May 1973	
PROOF EDIT BY (IV):		DATE:	
NUMBER OF TRIANGULATION STATIONS SEARCHED FOR (II): 0	RECOVERED: 0	IDENTIFIED: 0	
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:

T-13325

COMPILATION RECORD	COMPLETION DATE	REMARKS
Compilation Complete Pending Field Edit	April 1970	Superseded
Field Edit Applied Compilation Complete	July 1970	Superseded
Final Review	May 1973	



Map No.	Area Sq. Mi.	Map No.	Area Sq. Mi.
T-13178	3	T-13187	3
T-13179	2	T-13188	3
T-13180	5	T-13189	1
T-13181	2	T-13190	2
T-13182	3	T-11939	26
T-13183	4	T-11940 1:20	31
T-13184	3	T-11941 "	24
T-13185	2	T-11942 "	32
T-13186	1	T-13328 1:10	12
T-13324 1:10	8	T-13329 "	19
T-13325 "	16	T-13330 "	9
T-13326 "	13	T-13331 "	11
T-13327 "	14		

SUMMARY TO ACCOMPANY

DESCRIPTIVE REPORT

T-13325

Shoreline survey T-13325 is part of project PH-6306. This project is located in southeastern Alaska in the Hoonah Sound - Peril Straits area. This manuscript covers the area from just north of Pt. Elizabeth to just west of Pt. Benham.

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

Compilation was at 1:10,000 scale by B-8 plotter and graphic methods. A copy of the "Incomplete" manuscript along with ozalids and specially prepared photographs was furnished for the preparation of the boat sheets, location of photo-hydro signals and field edit use.

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

FIELD INSPECTION

T-13325

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 HOOF 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

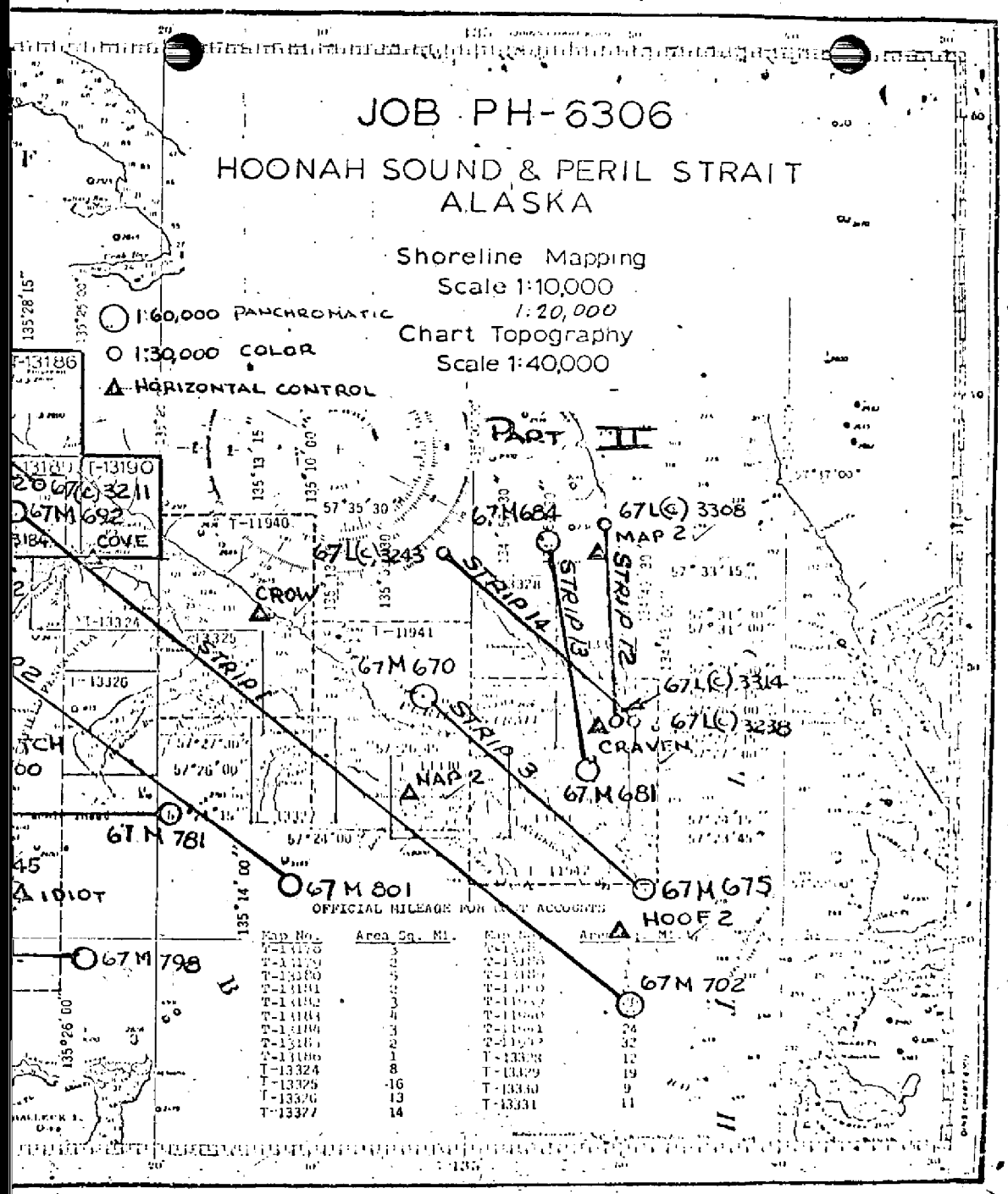
Approved and forwarded,

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
1:20,000
Chart Topography
Scale 1:40,000
1:60,000 PANCHROMATIC
1:30,000 COLOR
HORIZONTAL CONTROL
PART II
67(c) 3211
67M 692
COVE
CROW
67L(c) 3243
STRIP 14
STRIP 13
STRIP 12
STRIP 1
STRIP 3
67M 684
67L(c) 3308
MAP 2
67M 670
67L(c) 3314
67L(c) 3238
CRAVEN
67M 681
MAP 2
67M 781
67M 801
67M 675
HOOF 2
IDIOT
67M 798
67M 702
OFFICIAL MILEAGE FOR

ENVIRONMENTAL SCIENCE SERVICES ADMINISTRATION
COAST AND GEODETIC SURVEY

DESCRIPTIVE REPORT CONTROL RECORD

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

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 Ft. = 3048006 meter*) FORWARD (BACK)
	N.A. 1927		

DATE CHECKED BY DATE

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COMPILATION REPORT

T-13325

31. DELINEATION

The 1:60,000 scale M photography was used with the Wild B-8 to drop shoreline points common to both the 1:60,000 scale M and 1:30,000 scale photography on a 1:20,000 scale worksheet. These points were then plotted on the 1:10,000 scale manuscript using the coordinatorgraph. The manuscript was then compiled graphically using the 1:30,000 scale photography ratioed to 1:10,000 scale.

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.

All streams were compiled from office interpretation of the photographs.

35. SHORELINE AND ALONGSHORE DETAILS

The mean high water line, ledge areas, and all other alongshore features were compiled from office interpretation of the photographs. Since there was no photography taken at mean lower low water, a shallow line was delineated in lieu of a mean lower low water line.

36. OFFSHORE DETAILS

None

37. LANDMARKS AND AIDS

No copies of form 567 for landmarks or aids were forwarded to the Rockville Office.

38. CONTROL FOR FUTURE SURVEYS

None

39. JUNCTIONS

A satisfactory junction was made with T-13326 scale 1:10,000 to the west, south of latitude 57°29'45"; T-11940 scale 1:20,000 to the north and east; T-13327 scale 1:10,000 to the south, east of longitude 135°14'00". There is no contemporary survey to the south, west of longitude 135°14'00" or to the west, north of latitude 57°29'45".

40. HORIZONTAL AND VERTICAL ACCURACY

No statement.

46. COMPARISON WITH EXISTING MARS

A comparison was made with USGS Quadrangles SITKA B-4 and C-4 ALASKA, scale 1:63,360 dated 1951.

47. COMPARISON WITH NAUTICAL CHARTS

A comparison was made with Chart 8283 PERIL STRAIT, HOONAH SOUND TO CHATHAM STRAIT, scale 1:40,000 5th Edition, dated May 12, 1969.

ITEMS TO BE APPLIED TO NAUTICAL CHARTS IMMEDIATELY

None

ITEMS TO BE CARRIED FORWARD

None

Submitted:

Richard R. White

Richard R. White
Cartographic Technician
April 4, 1970

Approved for forwarding:

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

Approved:

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

GEOGRAPHIC NAMES

FINAL NAME SHEET

PH-6306 (Alaska)

T-13325

Andersen Island

Appleton Cove

Baranof Island

Duffield Peninsula

Peril Strait

Point Elizabeth

Prince Island

Rodman Bay

~~Rodman Rock~~

Approved by:

A. Joseph Wraight
Chief Geographer

Prepared by:

3-22-73

Frank W. Pickett
Cartographic Technicia

T-13325

49. NOTES FOR THE HYDROGRAPHER

None. See Field Edit Ozalid

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FORM C&GS-1002
(9-66)

U.S. DEPARTMENT OF COMMERCE
ESSA
COAST AND GEODETIC SURVEY

PHOTOGRAMMETRIC OFFICE REVIEW

T. 13325

1. PROJECTION AND GRIDS	2. TITLE	3. MANUSCRIPT NUMBERS	4. MANUSCRIPT SIZE
Coradomat ACR	ACR	ACR	ACR

CONTROL STATIONS

5. HORIZONTAL CONTROL STATIONS OF THIRD-ORDER OR HIGHER ACCURACY	6. RECOVERABLE HORIZONTAL STATIONS OF LESS THAN THIRD-ORDER ACCURACY *(Topographic stations)*	7. PHOTO HYDRO STATIONS
ACR	XX	

8. BENCH MARKS	9. PLOTTING OF SEXTANT FIXES	10. PHOTOGRAMMETRIC PLOT REPORT	11. DETAIL POINTS
ACR	ACR	ACR	ACR

ALONGSHORE AREAS *(Nautical Chart Data)*

FIELD EDIT REPORT

MAP T-13325

Peril Strait

Appleton Cove

Field edit of map T-13325 was accomplished during May, 1970. Inspection was done from a skiff in conjunction with photo-hydro signal identification and from a launch during hydrographic survey.

METHOD

The shoreline features and mean high water line were verified by visual comparison of the shore area to the field ratio photographs and field edit ozalid of the map manuscript. Notes have been made in violet pencil on the field edit ozalid and cross referenced where necessary to field ratio photographs 67L3301 and 67L3303. Positions of several offshore rocks have been transferred from boatsheet H-9126, FA-10-4-70. Unless otherwise indicated all shoreline features are correct as interpreted.

Times are based on 105°W and 120°W meridians as indicated.

ADEQUACY OF COMPILATION

Compilation of the map is good. Hydrographic location of features compares well to photogrammetric location. Several additional ledges should be indicated and corrections applied to the character of foreshore materials in several areas. 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 the notes and be accepted as an advance manuscript.

Respectfully submitted,

Martin R Mulhern

Martin R. Mulhern
ENSIGN, USESSA

REVIEW REPORT T-13325

SHORELINE

May, 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 Quadrangles Sitka (B-4), Alaska and Sitka (C-4), Alaska, both dated 1951 and at 1:63,360 scale. They are in general agreement.

64. COMPARISON WITH CONTEMPORARY HYDROGRAPHIC SURVEYS

Comparison was made with a copy of "Advance" Boat Sheet H-9126 1:10,000 scale dated 1970. There is very good agreement. The photogrammetric lower low water line differs slightly in places but is being retained on the manuscript for whatever use the chart compiler may see fit. The photogrammetric MLLW line was interpreted from photography taken at 3.8 ft. above MLLW (predicted).

65. COMPARISON WITH NAUTICAL CHARTS

A visual comparison was made with chart 8283 dated July 17, 1971 at 1:40,000 scale. There is 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

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

for Chief, Coastal Mapping Division