ORIGINAL

for H-9128

13330

13330

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-13330

Classification No. Field Edited *Edition No.*

LOCALITY

State Alaska

General Locality Hoonah Sound & Peril Strait

Locality Dead Tree Island

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 -13330

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): 1:30,000 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 HIGH WATER [redacted] EXCEPT AS FOLLOWS: *Elevations shown as (25) refer to mean high water* *Elevations shown as (5) refer to sounding datum* *i.e.* [redacted] *mean lower low water*
REFERENCE STATION (III): Nap 2, 1960	
LAT.: 57°25'18.681" (577.9)	LONG.: 135°03'37.182" (620.6) / [XX] ADJUSTED / [ ] UNADJUSTED
PLANE COORDINATES (IV): Y = 2,044,128.11 Ft. X = 2,410,955.97 Ft.	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.

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

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

DESCRIPTIVE REPORT - DATA RECORD

T-13330

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-13330	DATE Dec. 8, 1969 Mar. 23, 1970
CONTROL CHECKED BY (III): Aerotriangulation - Coradomat on T-11942 R.R. White on T-13330	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 By: A.L. Shands Reviewed By: L.O. Neterer	DATE Mar. 20, 1970 Mar. 20, 1970
CONTOURS Inapplicable	DATE
MANUSCRIPT DELINEATED BY (III): A.L. Shands	DATE April 2, 1970
SCRIBING BY (III): Charles Parker	DATE June 12, 1972
PHOTOGRAMMETRIC OFFICE REVIEW BY (III): Compilation: R.J. Pate Field Edit: Scribing and Stick Up:	DATE April 10, 1970
REMARKS: Field Edit By: J.E. Thomasson	DATE: May 1970

USCOMM-DC 36393B-P66

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

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

3

DESCRIPTIVE REPORT - DATA RECORD

T-13330

CAMERA (KIND OR SOURCE) (III):

Wild RC-8 "L" & "M"

PHOTOGRAPHS (III)

NUMBER	DATE	TIME	SCALE	STAGE OF TIDE
67-L-3223 and 67-L-3224	June 8, 1967	09:49	1:30,000	0.4 ft. above MLLW
67-L-3261 thru 67-L-3263	June 8, 1967	10:18	1:30,000	1.6 ft. above MLLW

TIDE (III) Predicted

	RATIO OF RANGES	MEAN RANGE	SPRING 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):	1	RECOVERED: 1	IDENTIFIED: 1
NUMBER OF BM(S) SEARCHED FOR (II):	None	RECOVERED:	IDENTIFIED

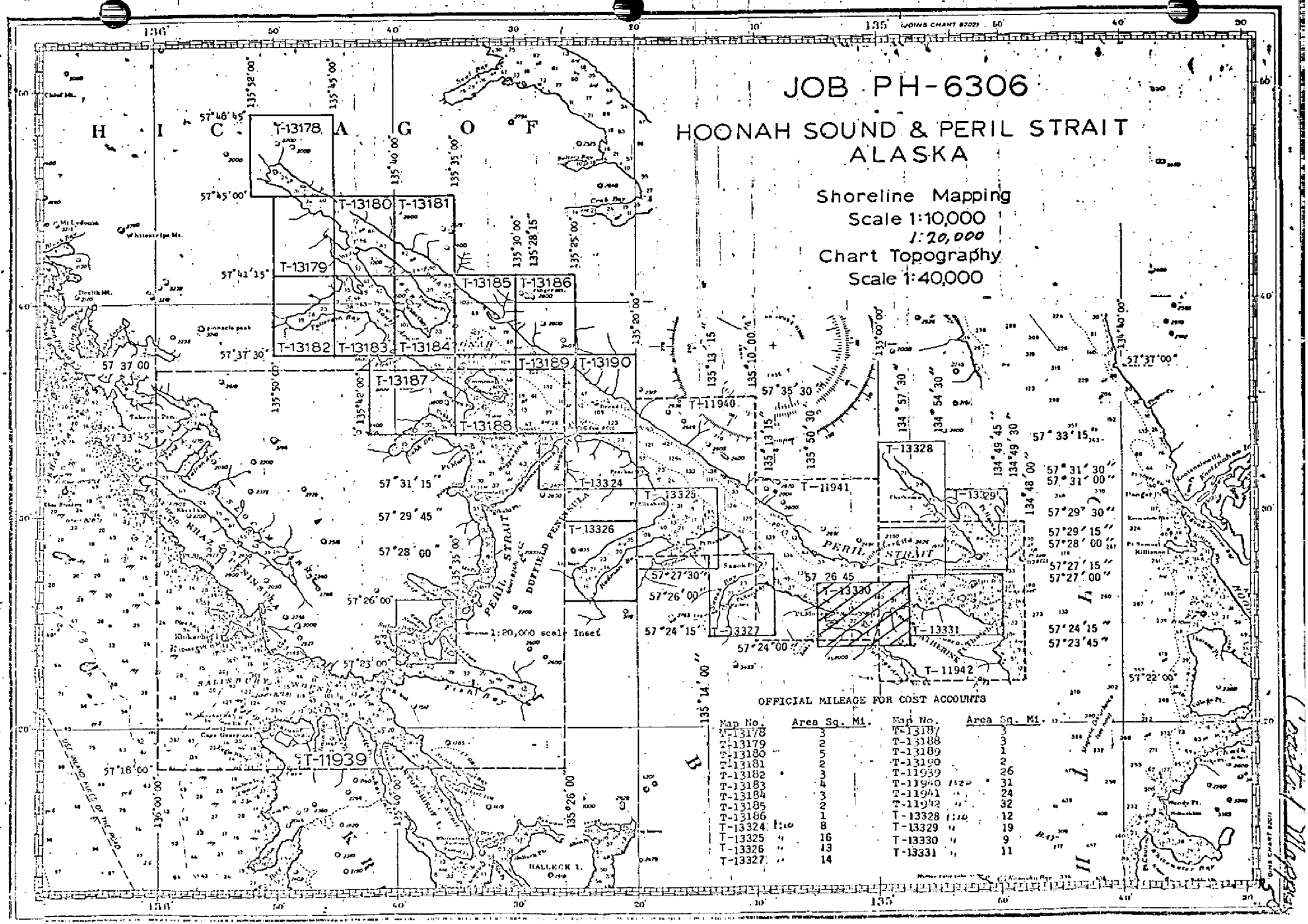
NUMBER OF RECOVERABLE PHOTO STATIONS ESTABLISHED (III): None

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

REMARKS:

T-13330

COMPILATION RECORD	COMPLETION DATE	REMARKS
Compilation Complete Pending Field Edit	April 2, 1970	Superseded
Field Edit Applied; Compilation Complete	Aug. 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	31
T-13184	3	T-11941	24
T-13185	2	T-11942	32
T-13186	1	T-13328	12
T-13324	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-13330

Shoreline survey T-13330 is part of project PH-6306. The project is located in southeastern Alaska in the Hoonah Sound - Peril Straits areas This survey covers from west of Pt. Moses to east of Point Hanus on the southern side of Peril Strait.

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

Compilation was at 1:10,000 scale by B-8 plotter and graphic methods. The B-8 plotter was used to drop shoreline and offshore control points and the detail was delineated from photographs. A copy of the "Incomplete" manuscript, along with ozalids and specially prepared photographs, was furnished for the preparation of the boat sheet, location of photo-hydro signals and field edit use.

Field edit was accomplished during 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 are being forwarded for record and registry.

FIELD INSPECTION

T-13330

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

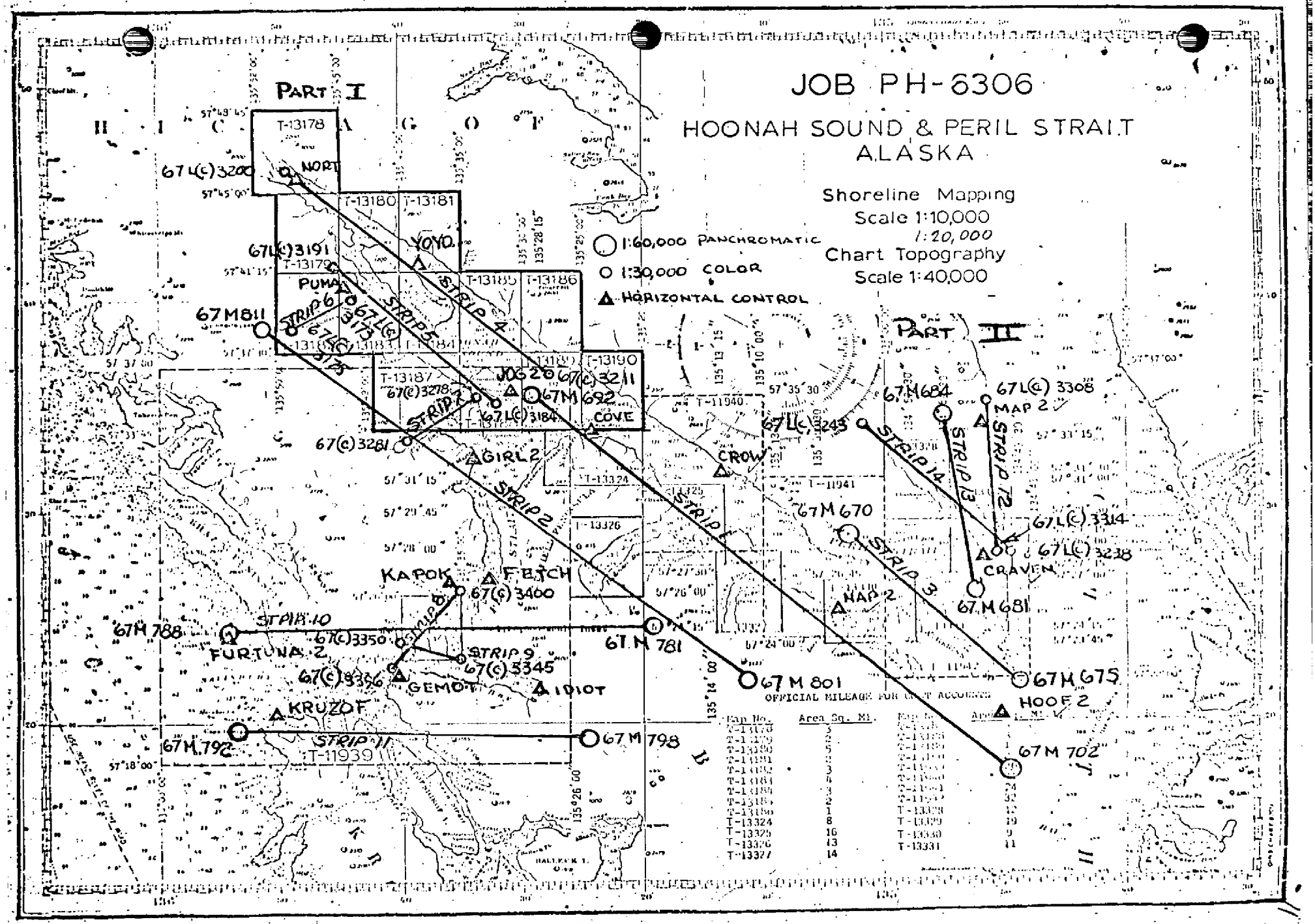
Approved and forwarded,

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 I
PART II
T-13178
T-13180
T-13181
T-13179
T-13185
T-13186
T-13187
T-13190
T-11940
T-11941
T-13324
T-13326
T-11939
67L(c)3200
NORT
67L(c)3191
YOYO
PUMA
67M811
STRIP 6
STRIP 5
STRIP 4
STRIP 2
STRIP 1
STRIP 3
STRIP 14
STRIP 13
STRIP 12
STRIP 10
STRIP 9
STRIP 11
JOG 2
67(c)3211
67M692
67(c)3278
67L(c)3184
COVE
67(c)3281
GIRL 2
CROW
67M684
67L(c)3308
MAP 2
67L(c)3243
67M670
67L(c)3314
67L(c)3238
CRAVEN
67M681
MAP 2
KAPOK
FETCH
67(c)3400
67M788
FURTUNA 2
67(c)3350
67(c)3345
67(c)3356
GEMOT
IDIOT
67M781
67M801
67M675
HOOF 2
67M702
KRUZOF
67M792
67M798
OFFICIAL MILEAGE FOR GRANT ACCOUNTS
Map No. Area Sq. Mi.
T-13178 3
T-13179 2
T-13180 5
T-13181 2
T-13182 3
T-13183 4
T-13184 3
T-13185 2
T-13186 1
T-13324 8
T-13325 16
T-13326 13
T-13327 14
T-13328 12
T-13329 19
T-13330 9
T-13331 11

FORM C&GS-164
(4-68)
USCOMM-DC
50318-P68

ENVIRONMENTAL SCIENCE SERVICES ADMINISTRATION
COAST AND GEODETIC SURVEY

DESCRIPTIVE REPORT CONTROL RECORD

MAP T- 13330 PROJECT NO. PH-6306 SCALE OF MAP 1:10,000 SCALE FACTOR None

STATION	SOURCE OF INFORMATION (INDEX)	DATUM	LATITUDE OR Y COORDINATE LONGITUDE OR X COORDINATE	N.A. 1927 - DATUM DISTANCE FROM GRID OR PROJECTION LIN IN METERS (1 Ft. = 3048006 meter) FORWARD	(BACK
NAP 2, 1960	I.B.M.	N.A. 1927	57° 25' 18.68094" 135° 03' 37.18156"	577.9 620.6	(1278.2) (380.8)

COMPUTED BY Jerry Hinton DATE Jan. 2, 1970 CHECKED BY B.L. Barge DATE Mar. 31, 1970

COMPILATION REPORT

T-13330

31. DELINEATION

The area covered by this Manuscript was bridged on the 1:60,000 scale "M" photography. Though the office was supplied with 1:30,000 scale "L" (color) contacts and ratios, there was no bridge run on this flight. Since it is physically impossible to compile at 1:10,000 scale using 1:60,000 scale "M" photography it was necessary to make worksheets at 1:20,000 scale and use the Wild B-8 to establish pass points to control and fix the photograph centers of the "L" ratios. Once the pass points were dropped on the 1:20,000 scale worksheet they were scaled off (using the coordinatorgraph) and there positions recorded and replotted on this Manuscript. All detail was compiled graphically.

Photography was adequate for coverage, however; the "L" ratios were fuzzy and this 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 Mean High Water line and all alongshore details were delineated from office interpretation of the photographs.

36. OFFSHORE DETAILS

Two Islands were delineated in Hanus Bay from office interpretation.

37. LANDMARKS AND AIDS

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

38. CONTROL FOR FUTURE SURVEYS

None

39. JUNCTIONS

Junctions have been made with T-13331 (1:10,000) to the east, T-11942 (1:20,000) to the east, north and south, T-11941 (1:20,000) to the west, north and south.

40. HORIZONTAL AND VERTICAL ACCURACY

No statement.

41. FIELD EDIT

46. COMPARISON WITH EXISTING MAPS

Comparisons were made with USGS quadrangles SITKA (B-3) and SITKA (B-4) Alaska, scale 1:63,360 dated 1951 with minor revisions in 1962 and 1964 respectively.

47. COMPARISON WITH NAUTICAL CHARTS

A comparison was made with USC&GS Chart 8283, PERIL 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:

A. L. Shands

A. L. Shands
Cartographer
4/2/70

Approved for forwarding:

Melvin J. Umbach

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

Approved:

Alfred C. Holmes

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

16

GEOGRAPHIC NAMES

FINAL NAME SHEET

PH-6303 (Alaska)

T-13330

Baranof Island

Catherine Island

Dead Tree Island

Hanus Bay

Peril Strait

Point Hanus

Point Moses

Portage Arm

Approved by:

A. Joseph Wraight
Chief Geographer

Prepared by:

7-22-73

Frank W. Pickett
Cartographic Technician

T-13330

49. NOTES FOR THE HYDROGRAPHER

None

FORM C&GS-1002
(9-66)

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

PHOTOGRAMMETRIC OFFICE REVIEW

T-13330

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

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
RJP	XX	XX

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

ALONGSHORE AREAS *(Nautical Chart Data)*

12. SHORELINE	13. LOW-WATER LINE	14. ROCKS, SHOALS, ETC.	15. BRIDGES
RJP	RJP	RJP	RXX

16. AIDS TO NAVIGATION	17. LANDMARKS	18. OTHER ALONGSHORE PHYSICAL FEATURES	19. OTHER ALONGSHORE CULTURAL FEATURES
XX	XX	RJP	XX

PHYSICAL FEATURES

20. WATER FEATURES	21. NATURAL GROUND COVER	22. PLANETABLE CONTOURS
RJP	XX	XX

23. STEREOSCOPIC INSTRUMENT CONTOURS	24. CONTOURS IN GENERAL	25. SPOT ELEVATIONS	26. OTHER PHYSICAL FEATURES
XX	XX	XX	RJP

CULTURAL FEATURES

27. ROADS	28. BUILDINGS	29. RAILROADS	30. OTHER CULTURAL FEATURES
XX	XX	XX	XX

BOUNDARIES

31. BOUNDARY LINES	32. PUBLIC LAND LINES
XX	XX

MISCELLANEOUS

33. GEOGRAPHIC NAMES	34. JUNCTIONS	35. LEGIBILITY OF THE MANUSCRIPT
RJP	RJP	RJP

36. DISCREPANCY OVERLAY	37. DESCRIPTIVE REPORT	38. FIELD INSPECTION PHOTOGRAPHS	39. FORMS
XX	RJP		

40. REVIEWER R.J. Pate

SUPERVISOR, REVIEW SECTION OR UNIT: 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 R.E. Smith 8/10/70

Reviewer: R.J. Pate 8/27/70

SUPERVISOR Albert C. Rauck Jr.
Albert C. Rauck, Jr.

43. REMARKS Field Edit Applied From: Field Edit Ozalid & Matte Ratio Photos, Nos: 67-L-3223 thru 3224 and 67-L-3262. Field Edit was adequate with the following exceptions: In some places ledges were indicated on the MHWL. At approx. Lat. 57° 24.9'; Long. 135° 03.3' A small off-shore area was called an island, with a time, date, & elv. When this was complete, it was awash at MHW. This has been shown as a reef.

FIELD EDIT REPORT

MAP T-13330

Peril Strait

Hanus Bay

Field edit of map T-13330 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 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: 67L3223, 67L3224, and 67L3262. All times are based on meridian 120° 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 E. Thomasson

John E. Thomasson
ENS, USESSA

REVIEW REPORT T-13330

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-3) Alaska and Sitka (B-4), Alaska both are dated 1951 and are at 1:63,360 scale. There is general agreement.

64. COMPARISON WITH CONTEMPORARY HYDROGRAPHIC SURVEYS

Comparison was made with an "Advance Information" copy of Boat Sheet H-9128 at 1:10,000 scale dated 1970. They are in good agreement except for some pilings just east of the entrance to Portage Arm. This is shown on the discrepancy print. Some areas of the MLLW line are in slight disagreement. The photogrammetric MLLW line was retained on the survey for whatever use it may be to the chart compiler. The photogrammetric MLLW line was interpreted from photos taken at 0.4 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. They are only in 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:

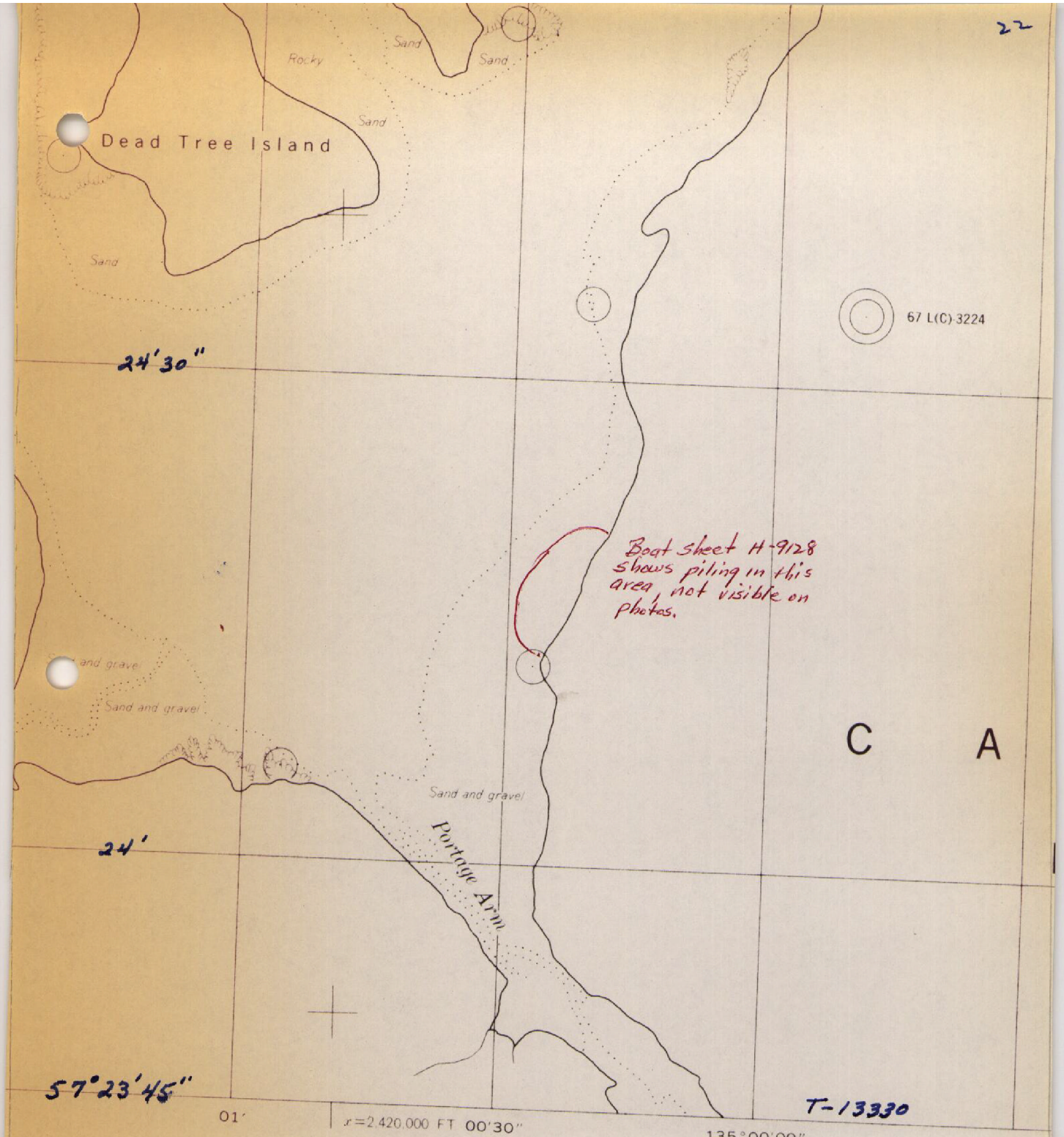
Melvin J. Umbach, CDR, NOAA
Chief, Coastal Mapping Division, AMC

Approved:

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

Approved:

Chief, Photogrammetric Branch Chief, Coastal Mapping Division



LEGEND

Rock ledge

Recoverable horizontal control station of third-order or high

Approximate mean low water line

The heavy shoreline defines the approximate mean high wat

Compiled by photogrammetric methods, from aerial photogr

Date of Photography	June 1967
Date of Field Inspection	None
Date of Field Edit	May 1970
Date of Final Compilation	Aug. 1972
Date of Final Review	