

12187

12187

<p>FORM C&GS-504</p> <p>U.S. DEPARTMENT OF COMMERCE ENVIRONMENTAL SCIENCE SERVICES ADMINISTRATION COAST AND GEODETIC SURVEY</p> <p>DESCRIPTIVE REPORT</p>	
<p>Type of Survey <u>SHORELINE (PHOTOGRAMMETRIC)</u></p>	
<p>Field No.</p>	<p>Office No. <u>T-12187</u></p>
<p>LOCALITY</p>	
<p>State <u>Alaska</u></p>	
<p>General locality <u>Keku Strait</u></p>	
<p>Locality <u>Portage Pass</u></p>	
<p><u>1962-1969</u></p>	
<p>CHIEF OF PARTY</p>	
<p><u>Alfred C. Holmes, Director, AMC</u></p>	
<p>LIBRARY & ARCHIVES</p>	
<p>DATE</p>	

MAP NOT INSPECTED IN QUALITY CONTROL PRIOR
TO REGISTRATION

DESCRIPTIVE REPORT - DATA RECORD
T - 12187

PROJECT NO. (II): <p style="text-align: center;">PH-6206</p>			
FIELD OFFICE (III):		CHIEF OF PARTY	
PHOTOGRAMMETRIC OFFICE (III): <p style="text-align: center;">Atlantic Marine Center Norfolk, Virginia</p>		OFFICER-IN-CHARGE <p style="text-align: center;">Alfred C. Holmes, RADM, NOAA Director, AMC</p>	
INSTRUCTIONS DATED (II) (III):			
January 18, 1965		OFFICE	
August 1, 1966		AMENDMENT II	
November 26, 1965		OFFICE SUPPLEMENT I	
March 18, 1966		OFFICE AMENDMENT I	
May 11, 1965		FIELD	
June 14, 1965		FIELD	
METHOD OF COMPILATION (III): <p style="text-align: center;">Wild B-8</p>			
MANUSCRIPT SCALE (III): <p style="text-align: center;">1:10,000</p>		STEREOSCOPIC PLOTTING INSTRUMENT SCALE (III): <p style="text-align: center;">1:8,333</p>	
DATE RECEIVED IN WASHINGTON OFFICE (IV):		DATE REPORTED TO NAUTICAL CHART BRANCH (IV):	
APPLIED TO CHART NO.		DATE:	DATE REGISTERED (IV): <p style="text-align: center;">Sept. 4, 1975</p>
GEOGRAPHIC DATUM (III): <p style="text-align: center;">N.A. 1927</p>		VERTICAL DATUM (III): MHW MLLW EXCEPT AS FOLLOWS: Elevations shown as (25) refer to mean high water Elevations shown as (5) refer to sounding datum i.e., MLLW mean lower low water	
REFERENCE STATION (III): <p style="text-align: center;">CAN 1927 ✓</p>			
LAT.:	LONG.:	<input checked="" type="checkbox"/> ADJUSTED <input type="checkbox"/> UNADJUSTED	
56° 57' 28.711" (888.1m)		133° 54' 27.586" (466.3m)	
PLANE COORDINATES (IV):		STATE	ZONE
1 871 930. ft ✓ x = 2 637 541.12 ft. ✓		Alaska ✓	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.

DESCRIPTIVE REPORT - DATA RECORD

T-12187

FIELD INSPECTION BY (II): None		DATE:
MEAN HIGH WATER LOCATION (III) (STATE DATE AND METHOD OF LOCATION): 16 June 1962 and 29 July 1965 Air Photo Compilation		
PROJECTION AND GRIDS RULED BY (IV): A. E. Roundtree	DATE 11-04-65	
PROJECTION AND GRIDS CHECKED BY (IV): R. S. Kornspan	DATE 11-04-65	
CONTROL PLOTTED BY (III): R. Smith	DATE 01-12-66	
CONTROL CHECKED BY (III): C. H. Bishop	DATE 01-12-66	
RADIAL PLOT OR STEREOSCOPIC CONTROL EXTENSION BY (III): G. M. Ball	DATE 11- -65	
STEREOSCOPIC INSTRUMENT COMPILATION (III):	PLANIMETRY L. O. Neterer	DATE 03-01-66
	REVIEWED BY: CONTOURS Inapplicable	DATE
MANUSCRIPT DELINEATED BY (III): L. O. Neterer	DATE 04-11-66	
SCRIBING BY (III): J. R. Minton	DATE 01-22-69	
PHOTOGRAMMETRIC OFFICE REVIEW BY (III):	COMPILATION: C.H. Bishop & L.L. Graves March 1966 FIELD EDIT: C.H. Bishop Jan. 1969 SCRIBING & STICK-UP: F.P. Margiotta 01-27-69	
REMARKS: FIELD EDIT BY Ship PATTON June 1968		

DESCRIPTIVE REPORT - DATA RECORD
T-12187

CAMERA (KIND OR SOURCE) (III):

Wild RC-9 and Wild RC-8 "M" and "W"

PHOTOGRAPHS (III)

NUMBER	DATE	TIME	SCALE	STAGE OF TIDE
65 M 228 and 229	29 July 1965	08:45 PST	1:50,000	(From predicted tables) 4.4 feet below MLLW
62 W 5569 and 5570	16 June 1962	09:57 PST	1:20,000	5.8 feet above MLLW

TIDE (III) (PREDICTED)

DIURNAL

		RATIO OF RANGES	MEAN RANGE	SPRING RANGE
REFERENCE STATION:	Ketchikan		13.0	15.4
COORDINATE STATION:	Kake, Keku Strait		11.7	14.0
SUBORDINATE STATION:				

WASHINGTON OFFICE REVIEW BY (IV): *Leo F. Beugnot, AMC*

DATE: *October, 1971*

PROOF EDIT BY (IV):

DATE:

NUMBER OF TRIANGULATION STATIONS SEARCHED FOR (II):

RECOVERED:
4

IDENTIFIED: 0

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

RECOVERED:
0

IDENTIFIED: 0

NUMBER OF RECOVERABLE PHOTO STATIONS ESTABLISHED (III):

2

NUMBER OF TEMPORARY PHOTO HYDRO STATIONS ESTABLISHED (III):

0

REMARKS:

T-12187

COMPILATION RECORD

COMPLETION DATE

REMARKS

Alongshore area for hydrography.	March 1966	Superseded
Field edit applied	Jan. 1969	<i>Superseded</i>
<i>Final Review</i>	<i>Oct. 1971</i> <i>[Nov. 1972]</i>	<i>Superseded</i>
Discrepancies with reviewed hydro surveys resolved; Addendum added to Review Report	Nov. 1972	

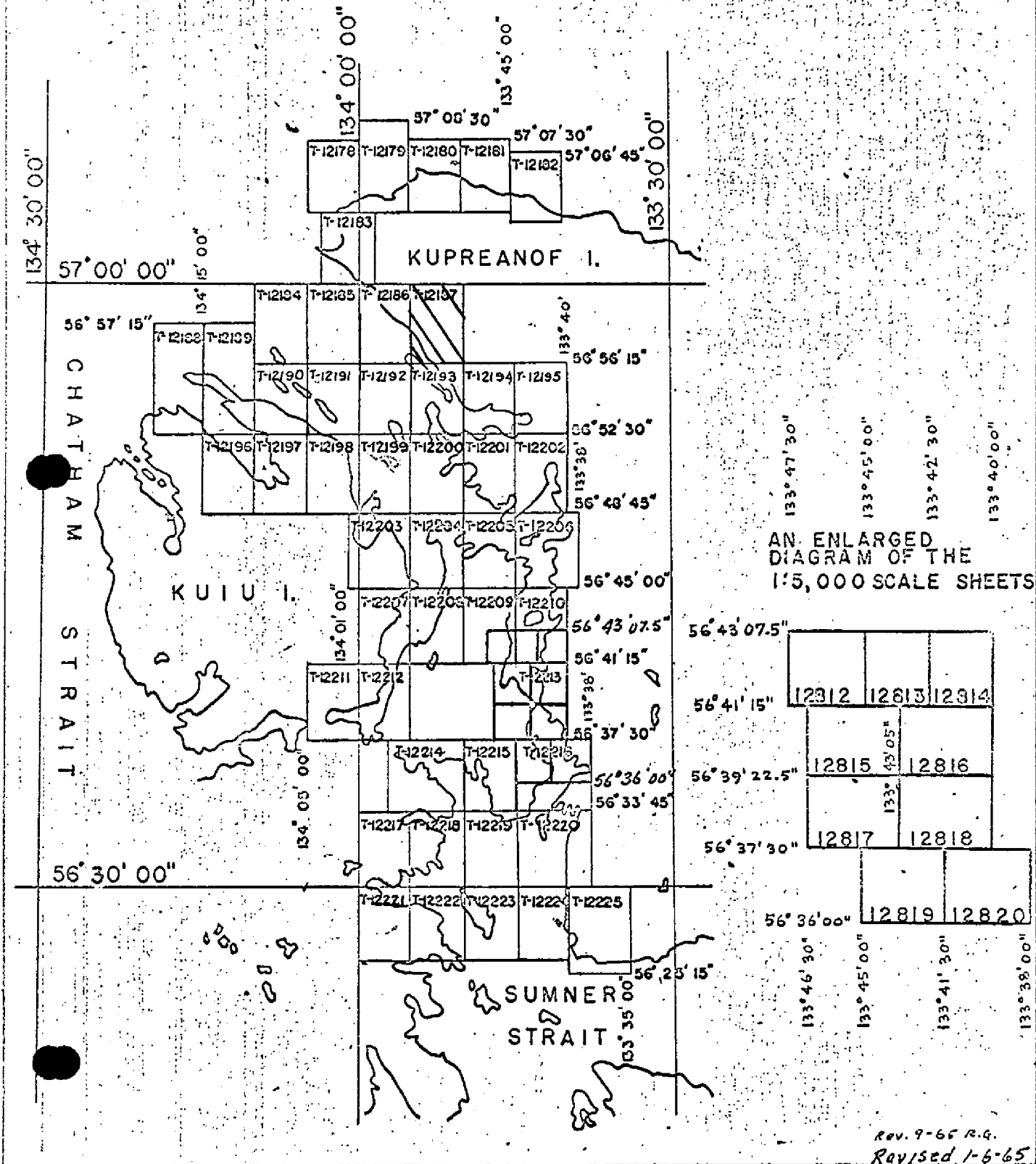
SHORELINE MAPPING PROJECT

Ph-6206

KEKU STRAITS, ALASKA

SCALE 1:10,000

5



AN ENLARGED
DIAGRAM OF THE
1:5,000 SCALE SHEETS

12812	12813	12814
12815	12816	
12817	12818	
12819	12820	

Rev. 9-65 R.G.
Revised 1-6-65

A.R.

SUMMARY TO ACCOMPANY
DESCRIPTIVE REPORT T-12187

Shoreline survey T-12187 is one of 53 similar surveys in project PH-6206. The primary purpose of the project was to provide modern shoreline and photo-hydro support data for hydrographic surveys in the Keku Strait area. See page 5 for the area covered by the project and the location of this survey within the project.

There was no field work prior to compilation with the exception of identification of horizontal control for aerotriangulation. The survey was field edited during the course of hydrography.

Compilation was at 1:10,000 scale by Wild B-8 plotter methods using the photography of June 1962 and July 1965. Copies of the incomplete manuscript along with specially prepared photographs and ozalids were furnished for transfer of the shoreline to the boat sheet, photo-hydro support use and field edit.

The compilation manuscript was a vinylite sheet 3 minutes 45 seconds in latitude by 5 minutes in longitude. After application of field edit data the survey was scribed and reproduced on cronaflex. Final review was in the Atlantic Marine Center in October 1971. One cronaflex positive and a negative of the final reviewed survey are forwarded for record and registry.

FIELD INSPECTION REPORT
PH-6206
T-12187

There was no field inspection prior to compilation.

Photogrammetric Plot Report
Project PH-6206
Keku Straits, Alaska
November 1965

21. Area Covered

This report covers an area of Alaska in the upper portion of Keku Straits and its confluence with Frederick Sound.

22. Method

Analytic aerotriangulation methods were used to bridge four strips of "M" photography at the scale of 1:50,000. The attached sketch of strips bridged shows the amount and placement of triangulation furnished. Closures to control and to tie points have been tabulated.

23. Adequacy of Control

Horizontal control (pre-marked targets) identified and required to adjust the strips bridged was slightly above our minimum requirements. Two of the four strips were adjusted using only three stations and common tie points as a check to our bridging accuracy. The final results are well within the National Standards of Map Accuracy for the fourteen shoreline sheets to be compiled (T-12178, T-12179, T-12183 through T-12192, T-12196 and T-12197).

Control stations that were not used in our final adjustment follow: (1) CORN, 1925, this station is on the tip of a peninsula and so situated that it was impossible to set a model in which this station could have been of any value to our work; (2) KIEKU, 1927, this target was not visible on either the film or the plates. It is our belief, based upon the published description, that the target might have washed away; (3) HAM, 1927, this station was used on Strip #2, however on Strip #3 the target was not visible because the lay-over of trees near the station obscured the target on one photograph.

24. Supplemental Data

Numerous U.S.G.S. quads were used to obtain elevations required for the final adjustment.

25. Photography


Photography was adequate with regard to coverage, overlay and image defination.

Respectfully submitted:



George M. Ball

Approved and forwarded:



Henry P. Eichert
Acting Chief, Aerotriangulation Section

CLOSURE TO CONTROL AND TIE POINTS
(feet)

STRIP #1

BENDEL, 1917
 (0.0 -0.1)
 KELP, 1965
 (-0.1 -0.1)
 PINT, 1965
 (-0.1 -0.1)

STRIP #2

BENDEL, 1917
 (+1.3 0.0)
 CART, 1927
 (-2.0 -0.6)
 KAKE, 1927
 (-1.4 +0.1)
 AGE, 1927
 (+1.3 +0.6)
 AMY, 1927
 S.S. (-0.5 -0.4)

TIES TO STRIP #1

08401 (-0.2 + 2.6)
 08402 (-0.9 +10.1)
 08402 (-0.9 + 9.6)

TIES TO STRIP #3

27401 (+6.7 + 6.2)
 28401 (+9.0 + 9.1)
 29401 (+3.4 - 2.4)
 29401 (+5.5 - 0.7)
 29402 (+9.5 + 6.0)
 29403 (+8.2 + 3.7)
 33401 (+3.2 + 0.4)
 33402 (+5.0 + 5.4)

STRIP #3

KAKE, 1927
 (+1.8 -2.1)
 ALTO, 1927
 (-2.0 +0.5)

STRIP #3 cont.

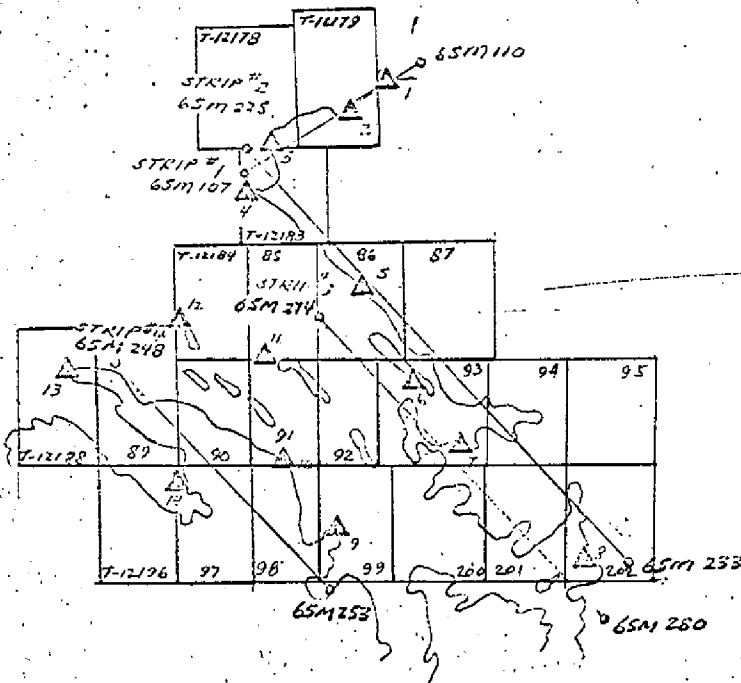
HAM, 1927
 (-2.8 -0.9)
 AGE, 1927
 (+3.4 +3.1)
 AMY, 1927
 S.S. (-0.6 -0.9)

STRIP #4

GNAW, 1965
 (-0.1 0.0)
 LOW, 1927
 (-0.1 0.0)
 LUCK, 1927
 (-0.1 0.0)

TIES TO STRIP #3

74401 (+0.1 +0.2)
 74401 (+0.3 +0.6)
 75401 (+9.3 -6.2)
 76401 (+3.1 +3.2)
 76402 (+6.7 +5.4)



KEKU STRAITS, ALASKA
 PH - 6206
 SHORELINE MAPPING
 SCALE 1:10,000
 SINGLE LENS PHOTO,
 SCALE 1:50,000

KEY TO TRIANGULATION

1. PINT, 1965
2. KELP, 1965
3. BENDEL, 1917
4. CART, 1927
5. KAKE, 1927
6. HAM, 1927
7. ASE, 1927
8. AMY, 1927
9. LUCK, 1927
10. LOW, 1927
11. ALTO, 1927
12. Keku, 1927
13. CORN, 1925
14. GNAW, 1965

COMPILATION REPORT

T-12187

PH-6206

31. DELINEATION:

The wild B-8 stereo plotter was used. Ratios of both the 1962 W and 1965 M photography were furnished and common points were chosen where they could be found.

32. CONTROL:

See Photogrammetric Plot Report dated November 1965.

33. SUPPLEMENTAL DATA:

None.

34. CONTOURS AND DRAINAGE:

Contours are inapplicable. No drainage was delineated.

35. SHORELINE AND ALONGSHORE DETAILS:

The mean high waterline, ledge, and shallow areas, and cultural features were delineated from office interpretation of the photographs.

36. OFFSHORE DETAIL:

All rocks, islands and reef areas were delineated from office interpretation of the photographs.

37. LANDMARKS AND AIDS:

Appropriate copies of Forms 567 for two fixed aids to navigation have been forwarded to the Washington Office.

38. CONTROL FOR FUTURE SURVEYS:

None.

39. JUNCTIONS:

Junctions are in agreement with T-12186 to the west and T-12193 to the south. There are no contemporary surveys to the north or east.

40. HORIZONTAL AND VERTICAL ACCURACY:

No statement.

46. COMPARISON WITH EXISTING MAPS:

A favorable comparison has been made with USGS Quadrangle PETERSBURG (D-6), ALASKA, scale 1:63,360, dated 1951.

47. COMPARISON WITH NAUTICAL CHARTS:

Comparison has been made with Chart 8201, ETOLIN ISLAND to MIDWAY ISLANDS, scale 1:217, 828, 11th edition, revised 7/20/64.

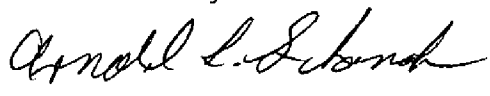
ITEMS TO BE APPLIED TO NAUTICAL CHARTS IMMEDIATELY:

None.

ITEMS TO BE CARRIED FORWARD:

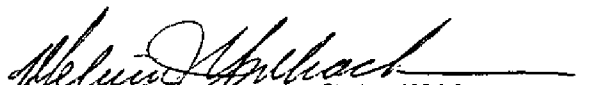
None.

Submitted by:




Arnold L. Shands
Cartographic Technician

Approved for forwarding:


Melvin J. Umbach, CDR, NOAA
Chief, Photogrammetry Division, AMC

Approved:


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

October 20, 1971

GEOGRAPHIC NAMES

FINAL NAME SHEET

PH-6206

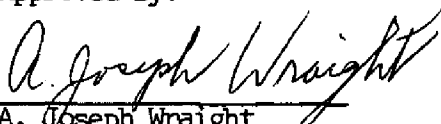
T-12187

Hamilton Island

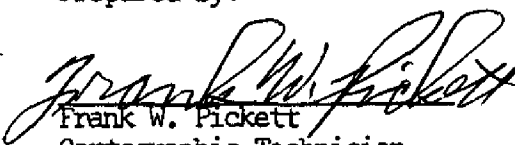
Kupreanof Island

Portage Pass

Approved by:


A. Joseph Wraight
Chief Geographer

Prepared by:


Frank W. Pickett
Cartographic Technician

T-12187

49. NOTES FOR THE HYDROGRAPHER

Foul, shoal and reef areas shown on this sheet were determined by office inspection of aerial photographs of the area and are shown to aid the hydrographer in locating possible hazardous areas. Their existence and extent should be verified by the hydrographer. If a foul, shoal or reef area that is shown does not exist, this fact should be noted on the discrepancy print.

Specific items to be investigated are noted on the discrepancy print.

PHOTOGRAMMETRIC OFFICE REVIEW

T-12187

1. PROJECTION AND GRIDS CHB		2. TITLE CHB		3. MANUSCRIPT NUMBERS CHB		4. MANUSCRIPT SIZE CHB	
CONTROL STATIONS							
5. HORIZONTAL CONTROL STATIONS OF THIRD-ORDER OR HIGHER ACCURACY CHB				6. RECOVERABLE HORIZONTAL STATIONS OF LESS THAN THIRD-ORDER ACCURACY (Topographic stations) CHB		7. PHOTO HYDRO STATIONS XX	
8. BENCH MARKS XX		9. PLOTTING OF SEXTANT FIXES CHB		10. PHOTOGRAMMETRIC PLOT REPORT Bridge (W.O)		11. DETAIL POINTS Wild B-8	
ALONGSHORE AREAS (Nautical Chart Data)							
12. SHORELINE CHB		13. LOW-WATER LINE XX		14. ROCKS, SHOALS, ETC. CHB		15. BRIDGES XX	
16. AIDS TO NAVIGATION CHB		17. LANDMARKS XX		18. OTHER ALONGSHORE PHYSICAL FEATURES CHB		19. OTHER ALONGSHORE CULTURAL FEATURES CHB	
PHYSICAL FEATURES							
20. WATER FEATURES CHB				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 XX	
CULTURAL FEATURES							
27. ROADS XX		28. BUILDINGS CHB		29. RAILROADS XX		30. OTHER CULTURAL FEATURES XX	
BOUNDARIES							
31. BOUNDARY LINES XX				32. PUBLIC LAND LINES XX			
MISCELLANEOUS							
33. GEOGRAPHIC NAMES CHB				34. JUNCTIONS CHB		35. LEGIBILITY OF THE MANUSCRIPT CHB	
36. DISCREPANCY OVERLAY XX CHB		37. DESCRIPTIVE REPORT CHB		38. FIELD INSPECTION PHOTOGRAPHS XX		39. FORMS CHB	
40. REVIEWER <i>Charles H Bishop</i> C.H. Bishop				SUPERVISOR, REVIEW SECTION OR UNIT <i>Albert C. Rauck, Jr.</i> 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 <i>A.L. Shands</i> A.L. Shands Jan. 1969				SUPERVISOR <i>Albert C. Rauck, Jr.</i> Albert C. Rauck, Jr.			
REV. BY: C.H. Bishop Jan. 1969							
43. REMARKS Field edit applied from Field edit ozalid & Field photos Nos. 65M 229.							

T-12187

FIELD EDIT REPORT

There were no field edit reports submitted with the field edit covering the 1966 to 1968 season's work, and no Form 567 was submitted to the compilation office by the field party.

REVIEW REPORT T-12187

SHORELINE

OCTOBER 21, 1971

61. GENERAL STATEMENT

See Summary, which is page 6 of the Descriptive Report.

62. COMPARISON WITH REGISTERED TOPOGRAPHIC SURVEYS

Comparison was made with a copy of survey T-7110, HO-A-62, 1:5,000 scale dated August 1962. This was a planetable survey to establish control for visual hydrography. It is superseded by T-12187 for nautical chart construction purposes.

63. COMPARISON WITH MAPS OF OTHER AGENCIES

A visual comparison was made with USGS PETERSBURG (D-6), ALASKA, 1:63,360 scale quadrangle, dated 1951 with minor revisions made in 1963. The two surveys appear to be in good general agreement.

64. COMPARISON WITH CONTEMPORARY HYDROGRAPHIC SURVEYS

Comparison was made with copies of H-8658 (HO-05-1-62) and H-9039 (DA 10-3-68). It appears that incomplete manuscript T-12187 was the source for some of the rocks shown on the boat sheets. Some of these rocks were not verified by either the field editor or the hydrographer. Some rocks were disproved by soundings and have been removed by the final reviewer.

65. COMPARISON WITH NAUTICAL CHARTS

Comparison was made with the PORTAGE BAY inset of chart 8201, 16th edition, dated November 7, 1970. The boat sheet appears to have been the source for some of the rocks on the inset as they were not shown on the 11th edition dated March 4, 1963, revised July 20, 1964. (See item 64 above).

66. ADEQUACY OF RESULTS AND FUTURE SURVEYS

This survey complies with instructions and meets the National Standard of Map Accuracy.

Reviewed by:

Leo F. Beugnet
Leo F. Beugnet
Cartographer

Approved for forwarding:

Melvin J. Umbach
Melvin J. Umbach, CDR, NOAA
Chief, Photogrammetry Division

Approved:

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

Approved:

Chief, Photogrammetric Branch Chief, Coastal Mapping Division

ADDENDUM TO REVIEW REPORTS

T-12178, T-12179, AND T-12183 THROUGH T-12202

After Maps T-12178, T-12179, and T-12183 through T-12202 had been final reviewed and the reports written and signed, and the hydrographic surveys had been verified and reviewed, the Marine Chart Division requested additional review of the photogrammetric manuscripts to aid in resolving discrepancies between the hydrographic and photogrammetric surveys. Discrepancy prints of each T-sheet and verified copies of the hydrographic surveys were furnished to aid in this review. H-9041 Boat Sheet was used for T-12198 through T-12202, as a verified copy of this survey was not available to the reviewer.

Copies of the hydrographic surveys were used as aids to verify what could be seen on the photographs of the area: If a feature on the hydrographic survey was not positively identifiable on the photographs, it was not added to the T-sheet. This review resulted in the revision of several ledges, some mean high water line, and the addition of several rocks awash. The hydrographer's elevations were not added to the photogrammetric manuscripts.

Questions on the discrepancy prints were answered on separate ozalids and returned to the Marine Chart Division, along with a Chart Maintenance Print reflecting differences between the Advance Manuscript and the Final Reviewed Manuscript for each map.

Comparison prints bound with this report reflect differences with the verified hydrographic surveys, except T-12198 through T-12202, rather than the boat sheets. The sources for shoreline on the verified hydrographic surveys were copies of Advance Manuscripts; therefore, shoreline agreement is generally good.

Charles H. Bishop

Charles H. Bishop
Cartographer
January, 1973

Comparison Print

Purple = H-8658
(reviewed copy)

