

12197

12197

FORM C&GS-504 U.S. DEPARTMENT OF COMMERCE ENVIRONMENTAL SCIENCE SERVICES ADMINISTRATION COAST AND GEODETIC SURVEY	
<h2>DESCRIPTIVE REPORT</h2>	
<i>Type of Survey</i> <u>SHORELINE (PHOTOGRAMMETRIC)</u>	
<i>Field No.</i>	<i>Office No.</i> <u>T-12197</u>
LOCALITY	
<i>State</i> <u>Alaska</u>	
<i>General locality</i> <u>Keku Strait</u>	
<i>Locality</i> <u>Saginaw Creek</u>	
<u>1965-1968</u>	
CHIEF OF PARTY	
Alfred C. Holmes, Director, AMC	
LIBRARY & ARCHIVES	
DATE	

MAP NOT INSPECTED IN QUALITY CONTROL PRIOR
TO REGISTRATION

DESCRIPTIVE REPORT - DATA RECORD

T - 12197

PROJECT NO. (II):

Job PH-6206

FIELD OFFICE (III):

CHIEF OF PARTY

PHOTOGRAMMETRIC OFFICE (III):

Atlantic Marine Center

OFFICER-IN-CHARGE

Alfred C. Holmes, RADM, NOAA
Director, AMC

INSTRUCTIONS DATED (II) (III):

January 18, 1965	OFFICE
November 26, 1965	OFFICE SUPPLEMENT I
March 18, 1966	OFFICE AMENDMENT I
June 8, 1966	OFFICE SUPPLEMENT II
May 11, 1965	FIELD
June 14, 1965	FIELD
January 21, 1965	FIELD

METHOD OF COMPILATION (III):

Wild B-8

MANUSCRIPT SCALE (III):

1:10,000

STEREOSCOPIC PLOTTING INSTRUMENT SCALE (III):

1:8,333 pantographed to 1:10,000

DATE RECEIVED IN WASHINGTON OFFICE (IV):

DATE REPORTED TO NAUTICAL CHART BRANCH (IV):

APPLIED TO CHART NO.

DATE:

DATE REGISTERED (IV):

Sept. 4, 1975

GEOGRAPHIC DATUM (III):

N.A. 1927

VERTICAL DATUM (III):

MHW

~~MEAN LOW 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):

GNAW 1965 ✓

LAT.:

56°52'04.93019" (152.51m) ✓

LONG.:

134°09'26.60233" (450.7m) ✓

ADJUSTED

UNADJUSTED

PLANE COORDINATES (IV):

1 839 342.00 ft. ✓

x = 2 587 461.23 ft. ✓

STATE

Alaska ✓

ZONE

1 ✓

NUMERALS INDICATE WHETHER THE ITEM IS TO BE ENTERED BY (II) FIELD PARTY, (III) PHOTOGRAMMETRIC OFFICE, (IV) WASHINGTON OFFICE.

WHEN ENTERING NAMES OF PERSONNEL ON THIS RECORD GIVE THE SURNAME AND INITIALS, NOT INITIALS ONLY.

DESCRIPTIVE REPORT - DATA RECORD

CAMERA (KIND OR SOURCE) (III):
Wild RC-9 "M"

PHOTOGRAPHS (III)				
NUMBER	DATE	TIME	SCALE	STAGE OF TIDE
65 M 244	07-29-65	09:13	1:50,000	3.1 ^{ft.} below MLLW

PREDICTED	TIDE (III)	DIURNAL		
		RATIO OF RANGES	MEAN RANGE	MEAN RANGE
REFERENCE STATION:	Juneau		13.8	16.4
ORDINATE STATION:	Saginaw Bay, Kuiu Island		11.3	13.8
SUBORDINATE STATION:				

WASHINGTON OFFICE REVIEW BY (IV): *Leo E. Bouquet, AMC* DATE: *Nov. 1971*

PROOF EDIT BY (IV): DATE:

NUMBER OF TRIANGULATION STATIONS SEARCHED FOR (II): RECOVERED: *1* IDENTIFIED: *1*

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

NUMBER OF RECOVERABLE PHOTO STATIONS ESTABLISHED (III):

NUMBER OF TEMPORARY PHOTO HYDRO STATIONS ESTABLISHED (III):

REMARKS:

T-12197

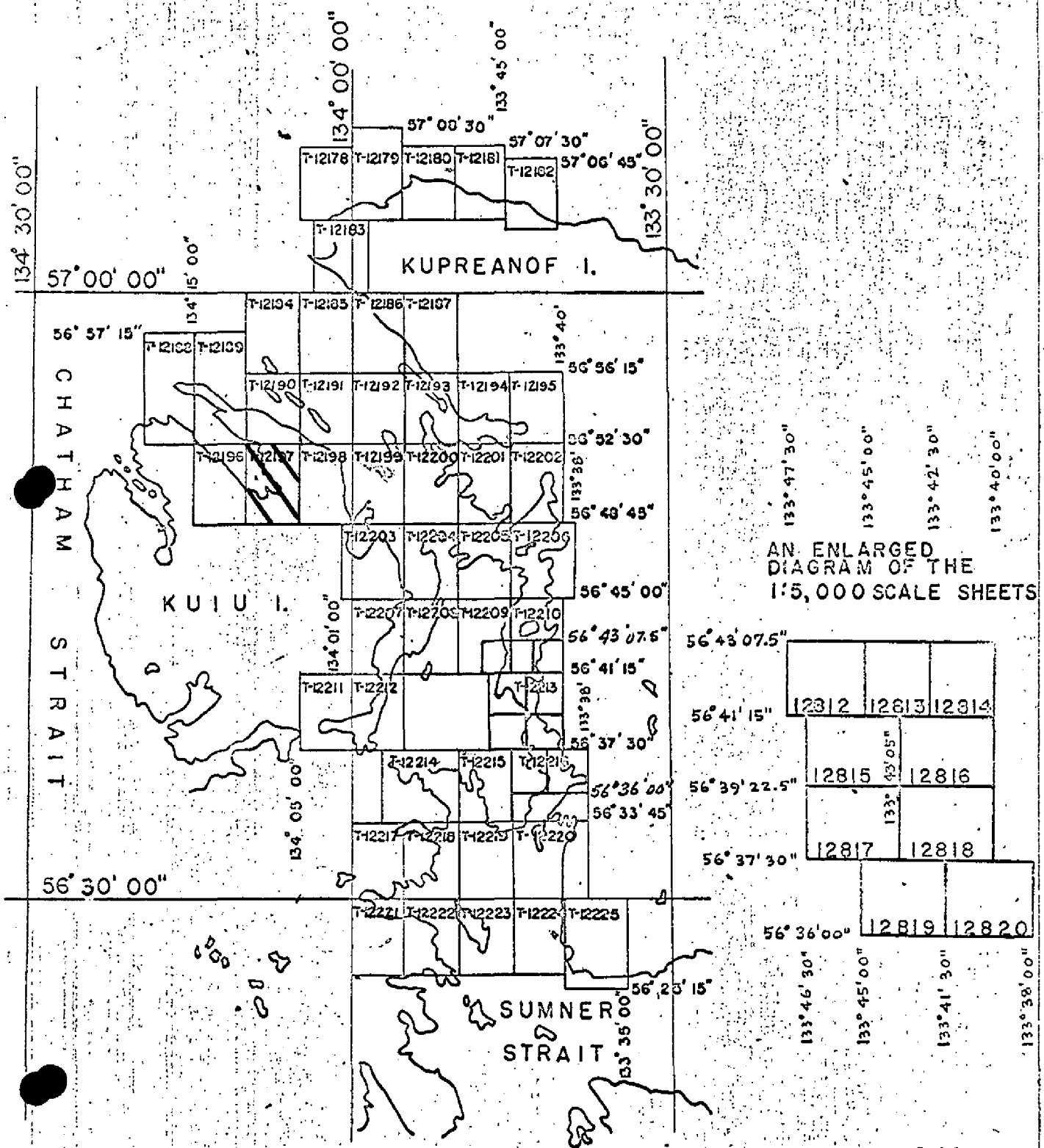
COMPILATION RECORD	COMPLETION DATE	REMARKS
Alongshore area for hydro	July 1966	Superseded
Field Edit applied Compilation Complete	June 1968	<i>Superseded</i>
<i>Final Review</i>	<i>Nov. 1971 & Dec 1972</i>	
Discrepancies with reviewed hydro surveys resolved; Addendum added to Review Report	Dec. 1972	

SHORELINE MAPPING PROJECT

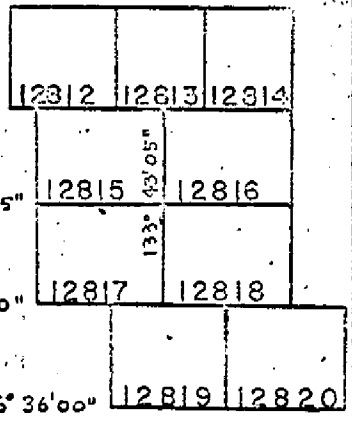
Ph-6206

KEKU STRAITS, ALASKA

SCALE 1:10,000



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



SUMMARY TO ACCOMPANY
DESCRIPTIVE REPORT T-12197

Shoreline survey T-12197 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 methods using the photography of 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 November 1971. One cronaflex positive and a negative of the final reviewed survey are forwarded for record and registry.

FIELD INSPECTION REPORT
JOB PH-6206
T-12197

There was no field inspection prior to compilation.

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Photogrammetric Plot Report
Project FH-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) KEKU, 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 definition.

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	{ +0.0	+ 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.

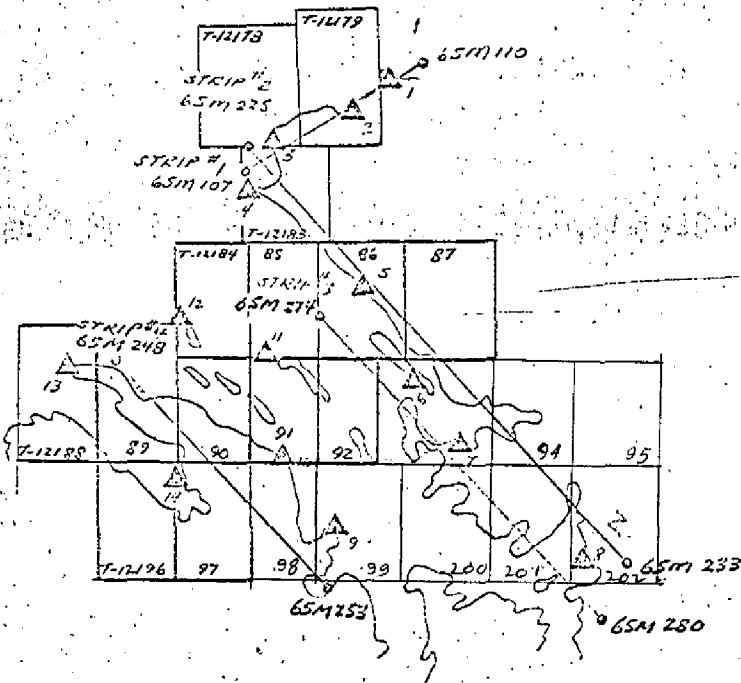
HAM, 1927		
(-2.8	-0.9)	
AGE, 1927		
(+3.4	+3.1)	
AMY, 1927		
S.S. (-0.6	-0.9)	

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. KELA, 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. GNAN, 1965

COMPILATION REPORT
T-12197

31. DELINEATION:

The Wild B-8 was used. Photography was satisfactory.

32. CONTROL:

See Photogrammetric Plot Report dated Nov. 1965.

33. SUPPLEMENTAL DATA:

None

34. CONTOURS AND DRAINAGE:

Contours are inapplicable. Drainage was compiled from office interpretation of the photographs.

35. SHORELINE AND ALONGSHORE DETAIL:

Shoreline and alongshore detail was compiled from office interpretation of the photographs. No Mean Lower Low water was shown.

36. OFFSHORE DETAIL:

Offshore details were compiled from office interpretation of the photographs.

37. LANDMARKS AND AIDS:

None

38. CONTROL FOR FUTURE SURVEYS:

None

39. JUNCTIONS:

Satisfactory junctions have been made with T-12190 to the north, T-12198 to the east and T-12196 to the west; there is no contemporary survey to the south.

40. HORIZONTAL AND VERTICAL ACCURACY:

No statement

46. COMPARISON WITH EXISTING MAPS:

Comparison has been made with U.S.G.S. Quadrangle, PORT ALEXANDER (D-1), ALASKA, scale 1:63,360, dated 1948. No differences were noted.

47. COMPARISON WITH NAUTICAL CHARTS:

A comparison has been made with USC&GS Nautical Chart 8214, scale 1:40,000 dated July 1, 1909, revised 1959.

ITEMS TO BE APPLIED TO NAUTICAL CHARTS IMMEDIATELY:

None.

ITEMS TO BE CARRIED FORWARD:

None.

Submitted by:

Lowell O. Neterer, Jr.

Lowell O. Neterer, Jr.
Cartographic Technician

Approved for forwarding:

Melvin J. Umbach

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

Approved:

Alfred C. Holmes

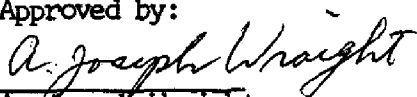
Alfred C. Holmes, RADM, NOAA
Director, Atlantic Marine Center

December 8, 1971

GEOGRAPHIC NAMES
FINAL NAME SHEET
PH-6206 (Alaska)

T-12197

- Kuiu Island
- Saginaw Bay
- Saginaw Creek
- Straight Creek

Approved by:

 A. Joseph Wraight
 Chief Geographer

Prepared by:

 Frank W. Pickeyt
 Cartographic Technician

T-12197

49. NOTES FOR THE HYDROGRAPHER

See Field Edit Ozalid for notes.

T-12197

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-12197

SHORELINE

November 30, 1971

61. GENERAL STATEMENT:

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

62. COMPARISON WITH REGISTERED TOPOGRAPHIC SURVEYS

Comparison was made with registered survey No. 2152, a 1:20,000 scale survey made in 1892. That survey is now obsolete and is superseded by T-12197 for nautical chart construction purposes.

63. COMPARISON WITH MAPS OF OTHER AGENCIES

Comparison was made with USGS PORT ALEXANDER (D-1), ALASKA, 1:63,360 scale quadrangle, edition of 1948 with minor revisions made in 1963. The two surveys are in good general agreement.

64. COMPARISON WITH CONTEMPORARY HYDROGRAPHIC SURVEYS

Comparison was made with a copy of boat sheet H-8960 (PA 10-1-67). The shoreline for that boat sheet was obtained from incomplete manuscript T-12197. Many corrections to the manuscript were made during the application of field edit data. The difference in the shoreline of the two surveys has been shown on the comparison print in purple.

65. COMPARISON WITH NAUTICAL CHARTS

Comparison was made with chart 8214, 4th edition dated December 16, 1968. The two surveys are in good general agreement.

65. COMPARISON WITH NAUTICAL CHARTS (cont'd)

Special attention is called to a small islet near latitude 56°51'40" longitude 134°09'02". The source for this islet on the chart is unknown, however, it was compiled as an islet on incomplete manuscript T-12197. Examination of the photography and the hydrographic survey indicates that the image compiled as the islet is in fact kelp. It has been removed from the final copy of the map.

66. ADEQUACY OF RESULTS AND FUTURE SURVEYS

This survey was compiled from 1:50,000 scale photography. It is considered adequate for photo-hydro support use and nautical chart construction purposes.

Reviewed by:
Leo F. Beugnet
Leo F. Beugnet
Cartographer

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

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

134° 10' 00"
56° 52' 30"

09' 30"

09' x = 2,590,000 FT.

(5) *

COMPARISON PRINT

Purple = H-8960

y = 1,840,000 FT.

GNAW 1965

52'

S
A
G
I
N
A
W

51' 30"

y = 1,835,000 FT.

B
A
Y

65-M-244

T-12197

1:10000

