

12218

12218

NOAA FORM 76-35

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

**DESCRIPTIVE REPORT**

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Type of Survey *Shoreline*.....

Job No. *PH-6206*..... Map No. *T-12218*.....

Classification No. *Field Edited*..... Edition No. ....

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**LOCALITY**

State *Alaska*.....

General Locality *Keku Strait*.....

Locality *Seclusion Island*.....

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1961 TO 1971

Alfred C. Holmes, Director, AMC

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**REGISTRY IN ARCHIVES**

DATE .....

MAP NOT INSPECTED IN QUALITY CONTROL PRIOR  
TO REGISTRATION

DESCRIPTIVE REPORT - DATA RECORD  
T-12218

OBJECT NO. (II):  
PH-6206

FIELD OFFICE (III): None	CHIEF OF PARTY
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PHOTOGRAMMETRIC OFFICE (III): Atlantic Marine Center, Norfolk, VA	OFFICER-IN-CHARGE Alfred C. Holmes, Director, AMC
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INSTRUCTIONS DATED (II) (III):

OFFICE SUPPLEMENT III December 19, 1967  
OFFICE " IV April 14, 1970

METHOD OF COMPILATION (III):  
Wild B-8 Stereo Plotter

MANUSCRIPT SCALE (III): 1:10,000	STEREOSCOPIC PLOTTING INSTRUMENT SCALE (III): 1:20,000 Pantographed To 1:10,000
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DATE RECEIVED IN WASHINGTON OFFICE (IV):	DATE REPORTED TO NAUTICAL CHART BRANCH (IV):
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APPLIED TO CHART NO.	DATE:	DATE REGISTERED (IV): Sept. 4, 1975
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GEOGRAPHIC DATUM (III): N.A. 1927	VERTICAL DATUM (III) <del>MEAN SEA LEVEL</del> HIGH WATER EXCEPT AS FOLLOWS: Elevations shown as (25) refer to mean high water Elevations shown as (5) refer to sounding datum i.e., <del>mean low water</del> or mean lower low water
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REFERENCE STATION (III):  
HAR, 1929

LAT.: 56° 33' 34.093" (1054.6M)	LONG.: 133° 51' 05.427" (92.7M)	<input checked="" type="checkbox"/> ADJUSTED <input type="checkbox"/> UNADJUSTED
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PLANE COORDINATES (IV): y = 1,726,18.20 Ft. x = 2,648,356.89 Ft.	STATE Alaska	ZONE 1
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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

T-12218

FIELD INSPECTION BY (III):  None		DATE:
MEAN HIGH WATER LOCATION (III) (STATE DATE AND METHOD OF LOCATION):  Air Photo Compilation		
PROJECTION AND GRIDS RULED BY (IV):  J. Dempsey		DATE April 10, 1970
PROJECTION AND GRIDS CHECKED BY (IV):  E. Homick		DATE April 10, 1970
CONTROL PLOTTED BY (III):  Aerotriangulation Coradomat Triangulation - L.O. Neterer, Jr.		DATE June 11, 1970 Sept. 4, 1970
CONTROL CHECKED BY (III):  Aerotriangulation - Coradomat Triangulation - R.R. White		DATE June 11, 1970 Sept. 4, 1970
RADIAL PLOT OR STEREOSCOPIC CONTROL EXTENSION BY (III):  Robert Fisher		DATE Feb. 19, 1970
STEREOSCOPIC INSTRUMENT COMPILATION (III):	PLANIMETRY By: L.O. Neterer, Jr. Reviewed By: A.C. Rauck, Jr. & R. White	DATE Aug. 25, 1970 Aug. 24 & 25, 1970
	CONTOURS Inapplicable	DATE
MANUSCRIPT DELINEATED BY (III):  L.O. Neterer, Jr.		DATE Sept. 1970
SCRIBING BY (III):  R.R. White		DATE Jan 7, 1972
PHOTOGRAMMETRIC OFFICE REVIEW BY (III):  Compilation: L.L. Graves		DATE Sept. 24, 1970
REMARKS:  Field Edit By: LTJG W.K. Taguchi		DATE: April 1971

DESCRIPTIVE REPORT - DATA RECORD  
T-12218

NUMERICAL (KIND OR SOURCE) (III):  
Wild RC-8 "E"

PHOTOGRAPHS (III)				
NUMBER	DATE	TIME	SCALE	STAGE OF TIDE
69-E-(c)-1944	Aug. 24, 1969	12:54	1:40,000	8.8 <sub>A</sub> above MLLW
61-W-9435 thru 9438	July 16, 1961	09:11	1:20,000	0.1 <sub>A</sub> above MLLW
61-W-9453 & 9454	July 16, 1961	09:23	1:20,000	0.1 <sub>A</sub> below MLLW
61-W-9458 & 9459	July 16, 1961	09:33	1:20,000	0.2 <sub>A</sub> below MLLW
69-E-(c)-973-976	Aug. 5, 1969	12:15	1:40,000	4.3 <sub>A</sub> above MLLW

Predicted	TIDE (III)	Diurnal		
		RATIO OF RANGES	MEAN RANGE	SPRINGS RANGE
REFERENCE STATION:	Ketchikan, Alaska		13.0	15.4
SUBORDINATE STATION:	Seclusion Harbor, Alaska		10.2	12.3
SUBORDINATE STATION:				

Atlantic Marine Center <del>Washington Center</del> REVIEW BY (IV):	C.H. Bishop	DATE:	March 1973
PROOF EDIT BY (IV):		DATE:	
NUMBER OF TRIANGULATION STATIONS SEARCHED FOR (II):		RECOVERED:	1
		IDENTIFIED:	1
NUMBER OF BM(S) SEARCHED FOR (II):	None	RECOVERED:	None
		IDENTIFIED:	None
NUMBER OF RECOVERABLE PHOTO STATIONS ESTABLISHED (III):	None		
NUMBER OF TEMPORARY PHOTO HYDRO STATIONS ESTABLISHED (III):	None		

REMARKS:

T-12218

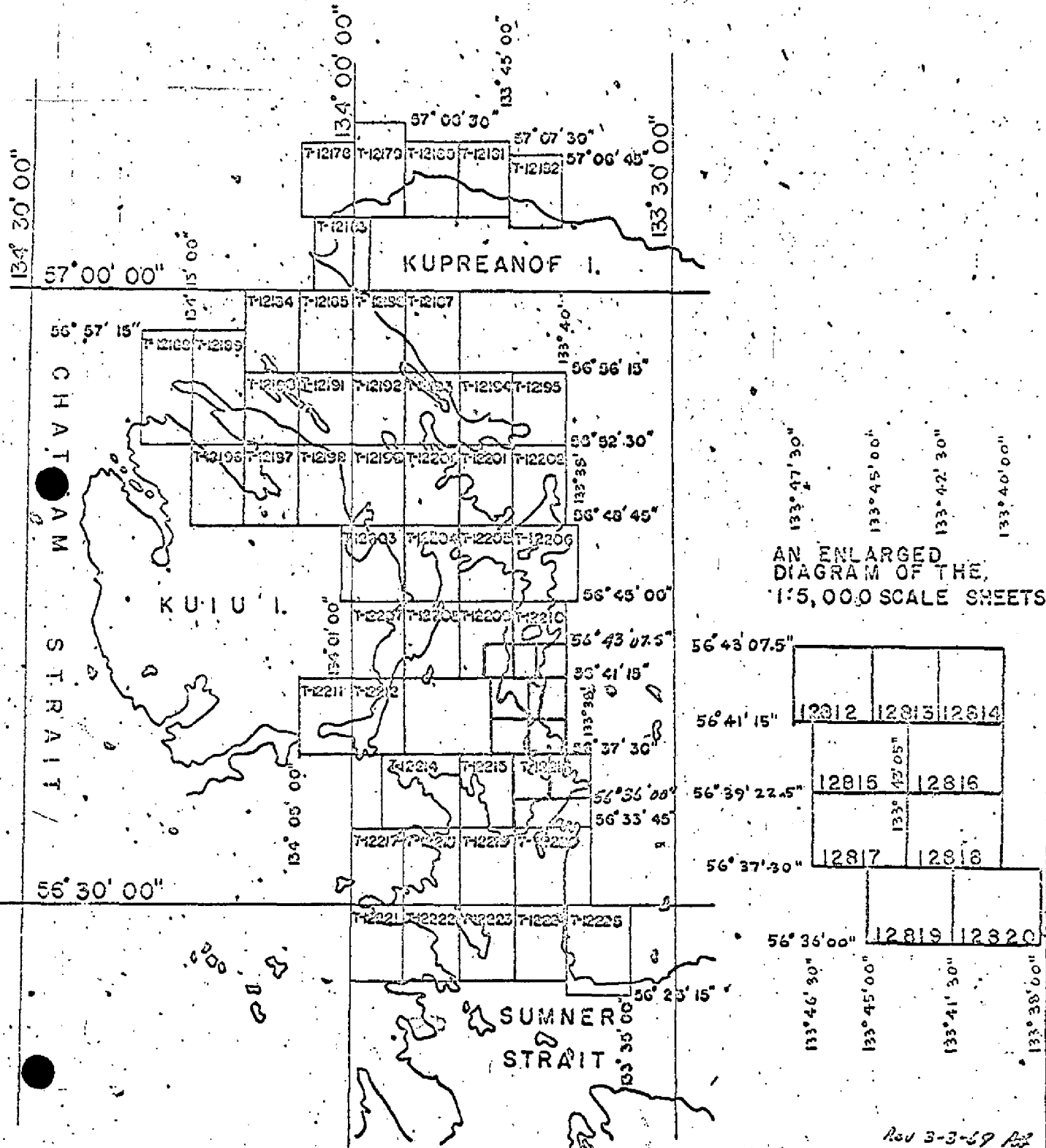
COMPILATION RECORD	COMPLETION DATE	REMARKS
Compilation Complete Pending Field Edit	Sept. 1970	Superseded
Field Edit Applied	July 27, 1971	Superseded
Final Review	March 1973	

# SHORELINE MAPPING PROJECT

Ph-6206

## KEKU STRAITS, ALASKA

### SCALE 1:10,000



Rev 3-3-59 P2  
Rev. 9-55 R.G.  
Revised 1-6-65  
A.P.

SUMMARY TO ACCOMPANY  
DESCRIPTIVE REPORT T-12218

This 1:10,000 scale shoreline manuscript is one of 53 maps that comprise Project PH-6206, Keku Strait, Alaska. The project diagram indicates the location of T-12218 in the project.

There was no field work before compilation, except the identification of horizontal control for aerotriangulation. Compilation was by Wild B-8 methods with control based on a stereoplanigraph bridge using color photographs taken above half tide on August 24, 1969. Panchromatic photographs taken in July 1961 near low water were used to compile graphically the mean lower low water line, rocks and reefs. Stable transparent copies of the map manuscript, ozalids, and specially prepared photographs were furnished for transfer of shoreline to the boat sheet, location of photo-hydro signals and field edit.

Field edit was done in conjunction with hydrography in 1971. After application of field edit data to the map, it was scribed and reproduced on cronaflex.

Final review was done at the Atlantic Marine Center in March, 1973.

The compilation manuscript was a vinylite sheet 3 minutes 45 seconds in latitude by 5 minutes in longitude.

A cronaflex copy of the final reviewed manuscript and a negative have been forwarded for record and registry.



## FIELD INSPECTION REPORT

Project PH-6206

T-12218

There was no field inspection prior to compilation.

Aerotriangulation Report  
PH-6206  
Keku Strait, Alaska

February 19, 1970

21. Area Covered

This project covers areas in the vicinity of Keku Strait -  
Kuiu Island, Alaska. T-sheets covered are as follows:

T-12203 thru T-12225  
all T-sheets are at 1:10,000 scale

22. Method

Five strips were bridged to provide horizontal positions  
of pass points needed for compilation. Strip #12 was  
bridged in two parts, 12a and 12b, because of open water.  
Strip #14 was not bridged due to satisfactory pass point  
coverage from Strips 13, 15 and 16.

Strip #11 was bridged on the C-5. Strips 12a, 12b, 13, 15  
and 16 were bridged on the C-8. All were adjusted by  
electronic computer.

Strip #11 used seven control points and a tie point in  
a third degree adjustment.

Strip #12a used a first degree adjustment with two control  
points. One tie point was available for a check.

Strip #12b used a third degree adjustment with five control  
points.

Strip #13 used three control points in a second degree  
adjustment.

Strips 15 and 16 used four control points in third degree  
adjustments.

All pass points, except one in Strip #16, were drilled.

Corresponding tie point values were averaged.

This project was tied through common control stations with  
the 1966 project in this area.

23. Adequacy of Control

Horizontal control was adequate in all strips. However station "SPIT 1927" and its subpoint appearing in both Strip #11 of this project and in Strip #1 of the adjacent "Summer Strait" project had residual errors on the order of 15 feet in X. These errors were similar in direction and magnitude for both points and in both strips. The reason for not obtaining a better check with these points is not known.

Many control stations in this project were recovered in 1965 and pricked on 1964, 1:20,000 scale photography. The 1970 bridge was run with new 1:40,000 scale photography, therefore, much of the old control was not visible in these bridges. All 1969 identified control used in this project was targeted.

The RMS errors in fit to control for the 1969 identified control, (except "SPIT 1927") and including the 1965 identified control "ALL 1927" and "CEN 1927" were 2.5 feet in X and 1.2 feet in Y. The maximum errors were 6.8 feet in X and 3.3 feet in Y.

24. Supplemental Data

U. S. Geological Survey quadrangles were used to provide elevations for vertical adjustment of the bridges.

25. Photography

Photography was satisfactory with regards to coverage, overlap and definition.

Submitted by,

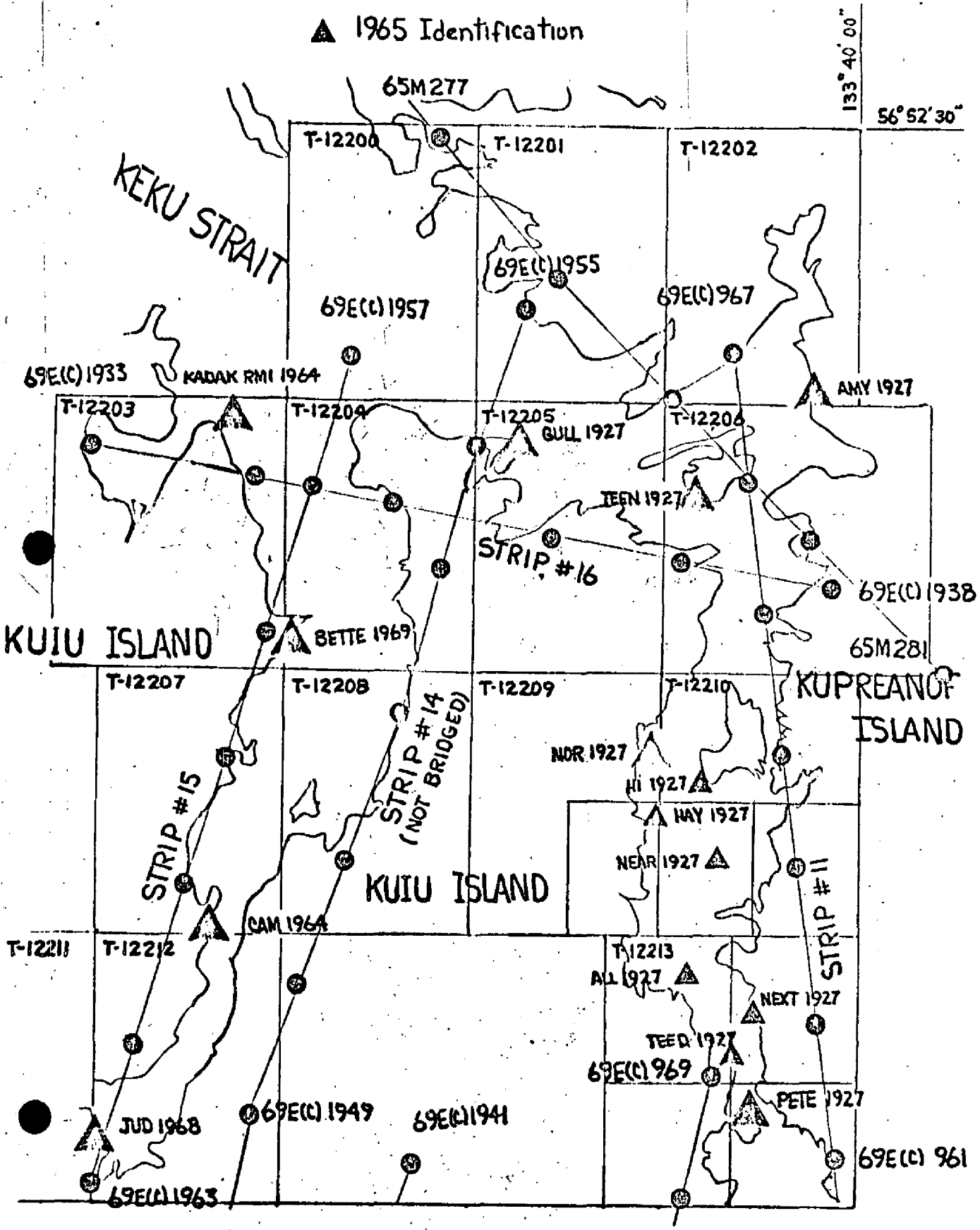
*Robert E. Fisher*  
Robert E. Fisher  
Cartographer (Photo)

Approved and forwarded,

*Henry P. Eichert*  
Henry P. Eichert  
Chief, Aerotriangulation  
Section

# KEKU STRAIT ALASKA PH 6206 FEB 1970

▲ 1969 Identification  
▲ 1965 Identification



# KEKU STRAIT ALASKA

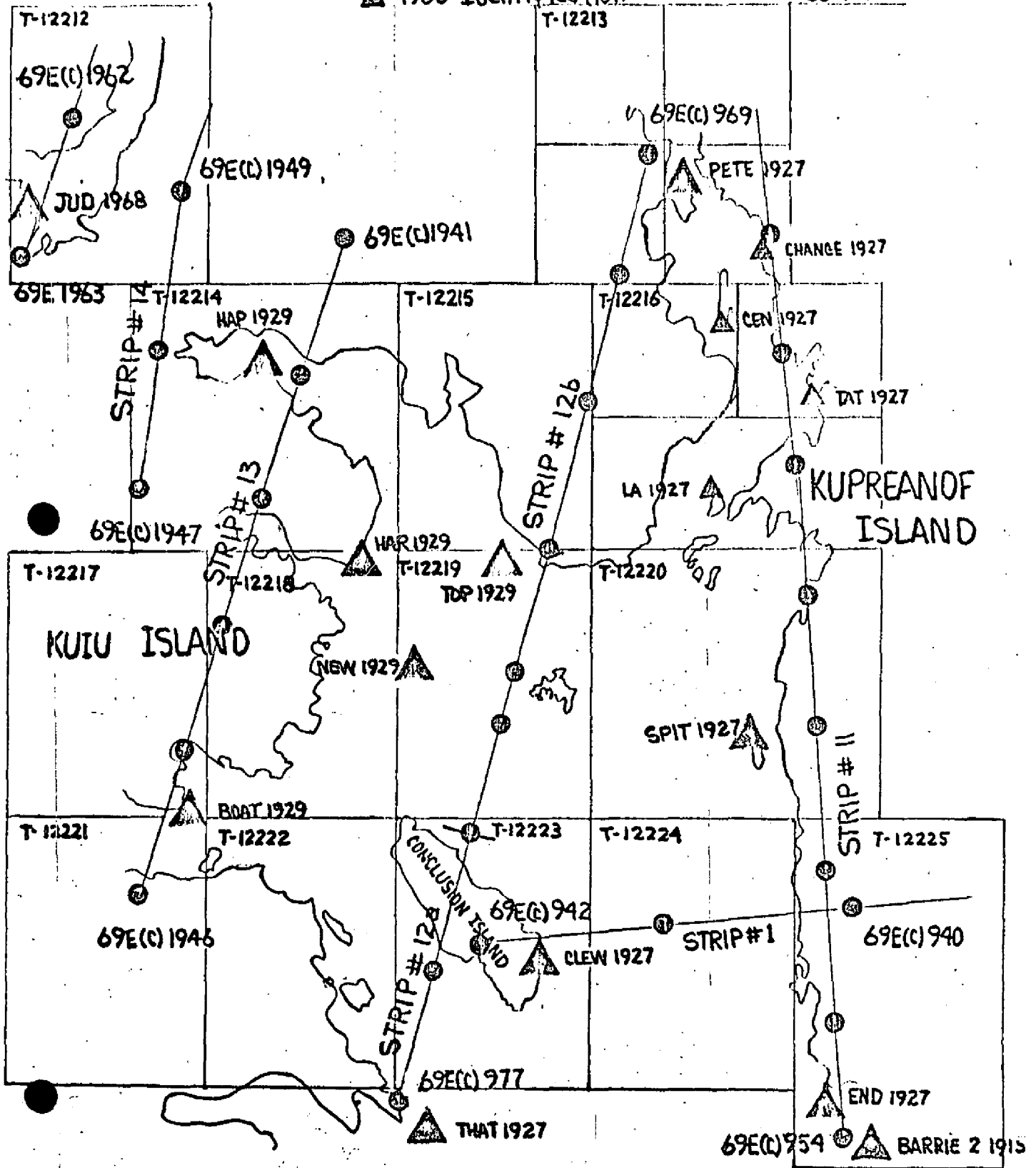
PH 6206

▲ 1969 Identification

▲ 1965 Identification

133° 40' 00"

56° 41' 15"



DESCRIPTIVE REPORT CONTROL RECORD

MAP T- 12218 PROJECT NO. PH-6206 SCALE OF MAP 1:10,000 SCALE FACTOR None

STATION	SOURCE OF INFORMATION (INDEX)	DATUM	LATITUDE OR Y COORDINATE LONGITUDE OR X COORDINATE	DISTANCE FROM GRID OR PROJECTION LINE IN METERS (1 Ft. = 3048006 meters) FORWARD (BACK)	N.A. 1927 - DATUM DISTANCE FROM GRID OR PROJECTION LINE IN METERS (1 Ft. = 3048006 meters) (BACK)
HAR, 1929	Horizontal Control Data Alaska 5613R14	N.A. 1927	56°33' 34.093"	1054.6	(801.3)
SEE, 1927	" " P. 29	"	133°51' 05.427"	92.7	(932.2)
THIS, 1929	" " P. 33	"	56°30' 02.264"	70.0	(1785.8)
" SECTION, 1929	" " P. 29	"	133°50' 04.929"	84.3	(942.2)
			56°30' 36.445"	1127.3	(728.6)
			133°53' 18.503"	316.5	(709.7)
			56°32' 33.338"	1031.2	(624.7)
			133°51' 39.066"	667.6	(357.7)

## COMPILATION REPORT

T-12218

September 4, 1970

31. DELINEATION

The Wild B-8 was used to compile the mean high water line from 1969 E color photography. 1969 W panchromatic photographs were used to compile the mean lower low water line graphically. The photographic coverage was adequate. The 1969 E color photographs would have been more satisfactory if they had been flown at high water.

32. CONTROL

See Aerotriangulation Report dated February 19, 1970.

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

The mean high water line was compiled from office interpretation of the 1969 E color photographs. The mean lower low water line was compiled graphically from office interpretation of 1961 W panchromatic photographs taken at low water.

36. OFFSHORE DETAIL

All offshore detail was compiled from office interpretation of the 1961 W photographs.

37. LANDMARKS AND AIDS

None

38. CONTROL FOR FUTURE SURVEYS

No statement

39. JUNCTIONS

Satisfactory junctions have been made with T-12214 to the north, T-12219 to the east, T-12222 to the south and T-12217 to the west.

40. HORIZONTAL AND VERTICAL ACCURACY

No statement.

41 through 45.

Inapplicable.

46. COMPARISON WITH EXISTING MAPS

A comparison was made with U.S.G.S. Quadrangle PETERSBURG (C-6), ALASKA, dated 1948, minor revisions 1963, scale 1:63,360.

47. COMPARISON WITH NAUTICAL CHARTS

A comparison was made with Chart 8201, scale 1:217,828, 15th edition, dated November 15, 1969.

ITEMS TO BE APPLIED TO NAUTICAL CHARTS IMMEDIATELY

None

ITEMS TO BE CARRIED FORWARD

None


Submitted:

*Lowell O. Neterer, Jr.*


Lowell O. Neterer, Jr.  
Cartographic Technician



Approved for forwarding:

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

Approved:

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

August 28, 1972

## GEOGRAPHIC NAMES

## FINAL NAME SHEET

PH-6206

T-12218

Conclusion Island

Keku Strait

Kuiu Island

No Name Bay

Salt Lagoon

Seclusion Harbor

Approved by:

*A. J. Wright*  
A. Joseph Wright  
Chief Geographer

Prepared by:

*F. W. Pickett (F. W. P.)*  
Frank W. Pickett  
Cartographic Technician

49. NOTES FOR THE HYDROGRAPHER

None

FORM C&GS-1002 (9-66) U.S. DEPARTMENT OF COMMERCE  
 PHOTOGRAMMETRIC OFFICE REVIEW T.12218  
 ESSA  
 COAST AND GEODETIC SURVEY

1. PROJECTION AND GRIDS LLG	2. TITLE LLG	3. MANUSCRIPT NUMBERS LLG	4. MANUSCRIPT SIZE LLG
<b>CONTROL STATIONS</b>			
5. HORIZONTAL CONTROL STATIONS OF THIRD-ORDER OR HIGHER ACCURACY LLG	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 Rockville Science Center	11. DETAIL POINTS LLG
<b>ALONGSHORE AREAS (Nautical Chart Data)</b>			
12. SHORELINE LLG	13. LOW-WATER LINE LLG	14. ROCKS, SHOALS, ETC. LLG	15. BRIDGES XX
16. AIDS TO NAVIGATION XX	17. LANDMARKS XX	18. OTHER ALONGSHORE PHYSICAL FEATURES XX	19. OTHER ALONGSHORE CULTURAL FEATURES XX
<b>PHYSICAL FEATURES</b>			
20. WATER FEATURES LLG	21. NATURAL GROUND COVER LLG		22. PLANETABLE CONTOURS XX
23. STEREOSCOPIIC INSTRUMENT CONTOURS XX	24. CONTOURS IN GENERAL XX	25. SPOT ELEVATIONS XX	26. OTHER PHYSICAL FEATURES LLG
<b>CULTURAL FEATURES</b>			
27. ROADS XX	28. BUILDINGS XX	29. RAILROADS XX	30. OTHER CULTURAL FEATURES XX
<b>BOUNDARIES</b>			
31. BOUNDARY LINES XX		32. PUBLIC LAND LINES XX	
<b>MISCELLANEOUS</b>			
33. GEOGRAPHIC NAMES LLG	34. JUNCTIONS LLG		35. LEGIBILITY OF THE MANUSCRIPT LLG
36. DISCREPANCY OVERLAY LLG	37. DESCRIPTIVE REPORT LLG	38. FIELD INSPECTION PHOTOGRAPHS XX	39. FORMS LLG
40. REVIEWER L.L. Graves		SUPERVISOR, REVIEW SECTION OR UNIT Sept. 9, 70	
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 L.O. Neterer, Jr. 7/27/71		SUPERVISOR	
Reviewed By: T.J. Bulfer Sept. 2, 71			
43. REMARKS Field Edit Applied From: Field Edit Ozalid and Field Photos 61-W-9437 and 61-W-9460.			

## FIELD EDIT REPORT

SOUTH KEKU STRAIT

SOUTHEAST ALASKA

CPR - 448

APRIL 1971

INTRODUCTION

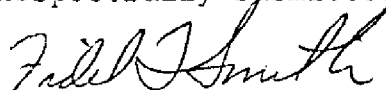
Field edit reports are attached for the following T-sheets:

T-12214	Mouth of Three Mile Arm
T-12215	Head of Three Mile Arm
T-12217	Keku Strait - No Name Bay
T-12218	Seclusion Harbor
T-12219	Monte Carlo Island
T-12221	No Name Bay
T-12222	Alvin Bay
T-12223	West End of Conclusion Island

Inspection for field edit of the shoreline, the foreshore and the offshore areas were performed in April and May 1971 by the NOAA Ship DAVIDSON's personnel with the assistance of Mr. Lowell C. Neterer Jr. from the photogrammetry branch of the Atlantic Marine Center in Norfolk.

Notes have been made on the field photographs and have been cross referenced on the field edit ozalids by photograph number. All times are on the 105° W Meridian. Reports for each individual sheet is enclosed.

Respectfully submitted,



Fidel T. Smith  
LCDR. NOAA

FIELD EDIT REPORT  
MAP T-12218  
KEKU STRAIT-SECLUSION HARBOR  
SOUTHEAST ALASKA  
APRIL 1971

Field edit of this map was performed by Ltjg. Warren K. Taguchi with the assistance of Lowell O. Neterer Jr. in April 1971. A small boat was used to visit the areas in question.

METHOD

Field photographs and a copy of the field edit ozalid were taken into the field and the areas in question visited and carefully investigated. The shoreline was inspected visually and verified by shoreline soundings in a hydro launch. The MHWL and the MLLW line appear to be accurate. Answers to the individual questions and any differences are shown on the field edit ozalid and cross referenced to the photographs. Two offshore rocks awash and shoals were located on boatsheet DA 10-2-71 and a copy of this boatsheet will be furnished to AMC. Notes are on the following photograph 61W9453.

ADEQUACY OF COMPILATION

Compilation of the map is good. Hydrographic location of rocks awash, boulders and occasional ledge limits agree with photogrammetric locations. Field edit of this map is complete.

RECOMMENDATIONS

It is recommended

It is recommended that this map be revised in accordance with the notes and that the map be accepted as an advance manuscript.

Respectfully submitted,

*Warren K. Taguchi*  
Warren K. Taguchi  
Ltjg. NOAA

## APPROVAL SHEET

Field Edit

South Keku Strait

Southeast Alaska

OPR - 448

April 1971

The field work on this edit was accomplished  
under my supervision.



Ray E. Moses  
CDR. NOAA  
Commanding Officer  
NOAA Ship DAVIDSON

## REVIEW REPORT T-12218

## SHORELINE

March 21, 1973

61. GENERAL STATEMENT

See Summary which is page 6 of the Descriptive Report.

62. COMPARISON WITH REGISTERED TOPOGRAPHIC SURVEYS

No registered topographic surveys were available for comparison. T-12218 supersedes all previous surveys for nautical chart construction purposes.

63. COMPARISON WITH MAPS OF OTHER AGENCIES

A visual comparison was made with U.S.G.S. Quadrangle PETERSBURG (C-6), ALASKA scale 1:63,360 dated 1948. Significant differences are shown in brown on the comparison print.

64. COMPARISON WITH CONTEMPORARY HYDROGRAPHIC SURVEYS

A comparison was made with copies of boat sheets of Survey Nos. H-9213 and H-9214, scale 1:10,000, dated 1971. The hydrographic surveys are in good general agreement with T-12218. Significant differences are noted in purple on the comparison print.

65. COMPARISON WITH NAUTICAL CHARTS

A comparison was made with Chart 8201, scale 1:217,828, 16th Edition, dated November 7, 1970. The chart scale was too small for a good comparison. However, two charted rocks, not previously mapped on T-12218, were searched for on the photographs, found, and added to the map manuscript.

66. ADEQUACY OF RESULTS AND FUTURE SURVEYS

This survey complies with job instructions and meets the requirements of the National Standards for Map Accuracy.



Reviewed by:

*Charles H. Bishop*

Charles H. Bishop  
Cartographer

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

Approved:

Chief, Photogrammetric Branch      Chief, Coastal Mapping Division

31'00"  
y=1,710,000 FT.

COMPARISON PRINT

Purple = H-9214  
Brown = U.S.G.S

30'30"

\* (Approx)

NO NAME BAY

y=1,705,000 FT.

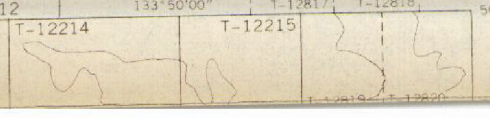
56°30'00" 133°55'00" 54'30" 54'00" x=2,640,000 FT. 53'

INDEX TO ADJOINING SHEETS JOB PH-6206

134°05'00"	134°00'00"	133°55'00"	133°46'30"	133°43'05"	133°40'00"
T-12211	T-12212	T-12214	T-12215	T-12817	T-12818
					133°38'00"
					56°37'30"

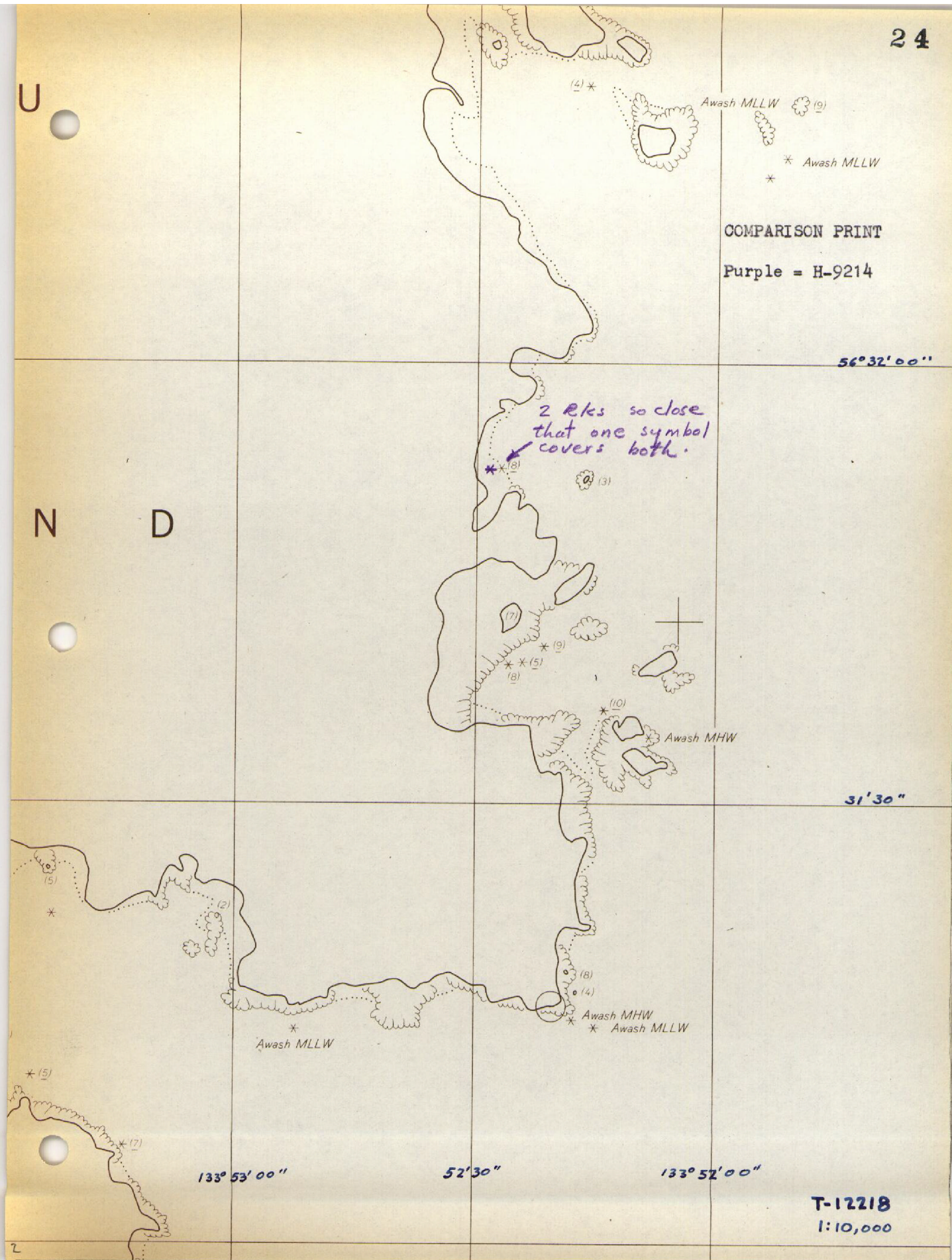
T-12218  
1:10,000

NOTE:  
plot p



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N D



COMPARISON PRINT  
 Purple = H-9214

56°32'00"

31'30"

133° 53' 00"

52'30"

133° 52' 00"

T-12218  
 1:10,000

2

LLW

y=1.720.000 FT.

32'30"

COMPARISON PRINT

Purple = H-9214

Awash MHW

Rks not on H-9214, but visible on low water photos 61w9459-60

Awash MLLW

56°  
32'00"

Awash MLLW

Awash MHW

y=1.715.000 FT.

31'30"

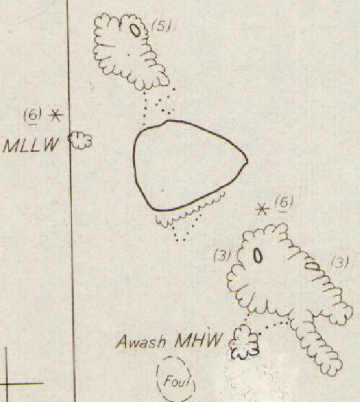
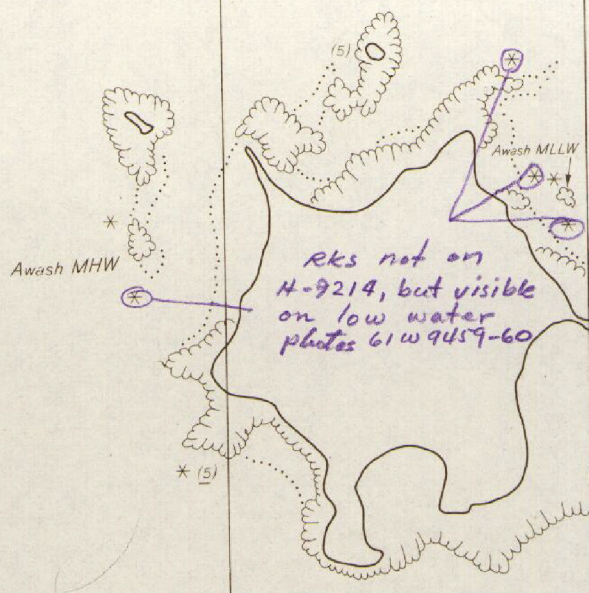
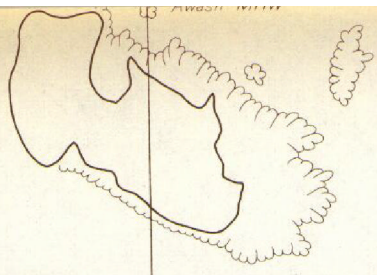
\* Rk

51'00"

50'30"

133°50'00"

T-12218  
1:10,000



\* Rk

COMPARISON PRINT

Purple = H-9213

52'30"

x=2,645,000 FT.

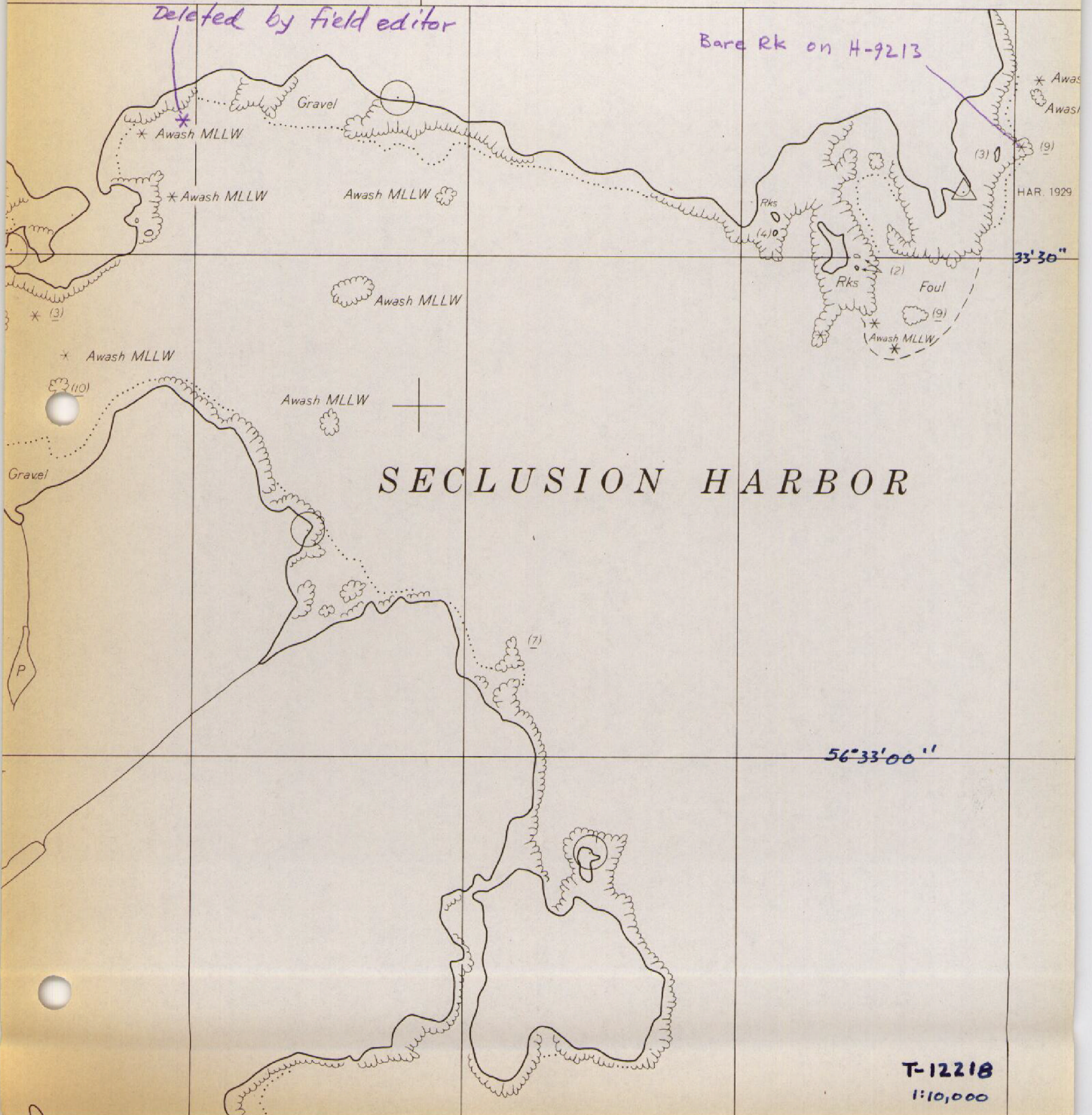
52'00"

51'30"

133° 51'00"

*Deleted by field editor*

*Bare Rk on H-9213*



# SECLUSION HARBOR

56'33'00"

T-12218  
1:10,000