

12820

12820

FORM C&GS-504 U.S. DEPARTMENT OF COMMERCE ENVIRONMENTAL SCIENCE SERVICES ADMINISTRATION COAST AND GEODETIC SURVEY	
DESCRIPTIVE REPORT	
<i>Type of Survey</i> <u>Shoreline (Photogrammetric)</u>	
<i>Field No.</i>	<i>Office No.</i> <u>T-12820</u>
LOCALITY	
<i>State</i> <u>Alaska</u>	
<i>General locality</i> <u>Keku Strait</u>	
<i>Locality</i> <u>N.W. Of Tunehean Creek</u>	
<u>1961-69</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-12820

OBJECT NO. (II):

PH-6206

FIELD OFFICE (III):

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 INSTRUCTIONS January 18, 1965
 " SUPPLEMENT III December 19, 1967
 " IV April 14, 1970
 FIELD INSTRUCTIONS February 11, 1969

METHOD OF COMPILATION (III):

Wild B-8 and Graphic

MANUSCRIPT SCALE (III):

1:5,000

STEREOSCOPIC PLOTTING INSTRUMENT SCALE (III):

1:7,500 Pantographed to 1:5,000

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):

MEAN HIGH WATER

MEAN SEA LEVEL 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~~ mean lower low water

REFERENCE STATION (III):

None

LAT.:

LONG.:

ADJUSTED

UNADJUSTED

PLANE COORDINATES (IV):

STATE

ZONE

Y =

X =

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

T12820

FIELD INSPECTION BY (II): None		DATE:
MEAN HIGH WATER LOCATION (III) (STATE DATE AND METHOD OF LOCATION): Air Photo Compilation Date of Photography: June 16, 1964		
PROJECTION AND GRIDS RULED BY (IV): L. F. Van Scoy		DATE Sept. 21, 1967
PROJECTION AND GRIDS CHECKED BY (IV): R. Glaser		DATE Sept. 27, 1967
CONTROL PLOTTED BY (III): B. L. Barge		DATE Nov. 11, 1967
CONTROL CHECKED BY (III): L. O. Neterer		DATE Nov. 11, 1967
RADIAL PLOT OR STEREOSCOPIC CONTROL EXTENSION BY (III): W. Heinbaugh		DATE Not Known
STEREOSCOPIC INSTRUMENT COMPILATION (III):	PLANIMETRY W.S. Davis, Jr. B.L. Barge	DATE July 1968
	CONTOURS Inapplicable	DATE
MANUSCRIPT DELINEATED BY (III): B. Barge		DATE July 1968
SCRIBING BY (III): F. P. Mangiotta		DATE Feb. 11, 1972
PHOTOGRAMMETRIC OFFICE REVIEW BY (III): C. H. Bishop		DATE July, 1968
REMARKS:		

DESCRIPTIVE REPORT - DATA RECORD

T-12820

MERA (KIND OR SOURCE) (III):

Wild RC-8 "W"

PHOTOGRAPHS (III)

NUMBER	DATE	TIME	SCALE	STAGE OF TIDE
64-W(c)-1158 thru 1160	16 June 1964	10:52	1:15,000	3.5 ft. above MLLW
61-W 9543 & 9544	16 July 1961	10:35	1:20,000	0.4 ft. below MLLW

Predicted TIDE (III)

Diurnal

	RATIO OF RANGES	MEAN RANGE	SPRING RANGE
REFERENCE STATION: Ketchikan, Alaska		13.0	15.4
SUBORDINATE STATION: Beck Island, Keku Strait		11.5	13.8
SUBORDINATE STATION:			

Atlantic Marine Center
WORKING COPY REVIEW BY (IV): C. H. Bishop DATE: February 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: None IDENTIFIED: None

NUMBER OF RECOVERABLE PHOTO STATIONS ESTABLISHED (III): None

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

REMARKS:

T-12820

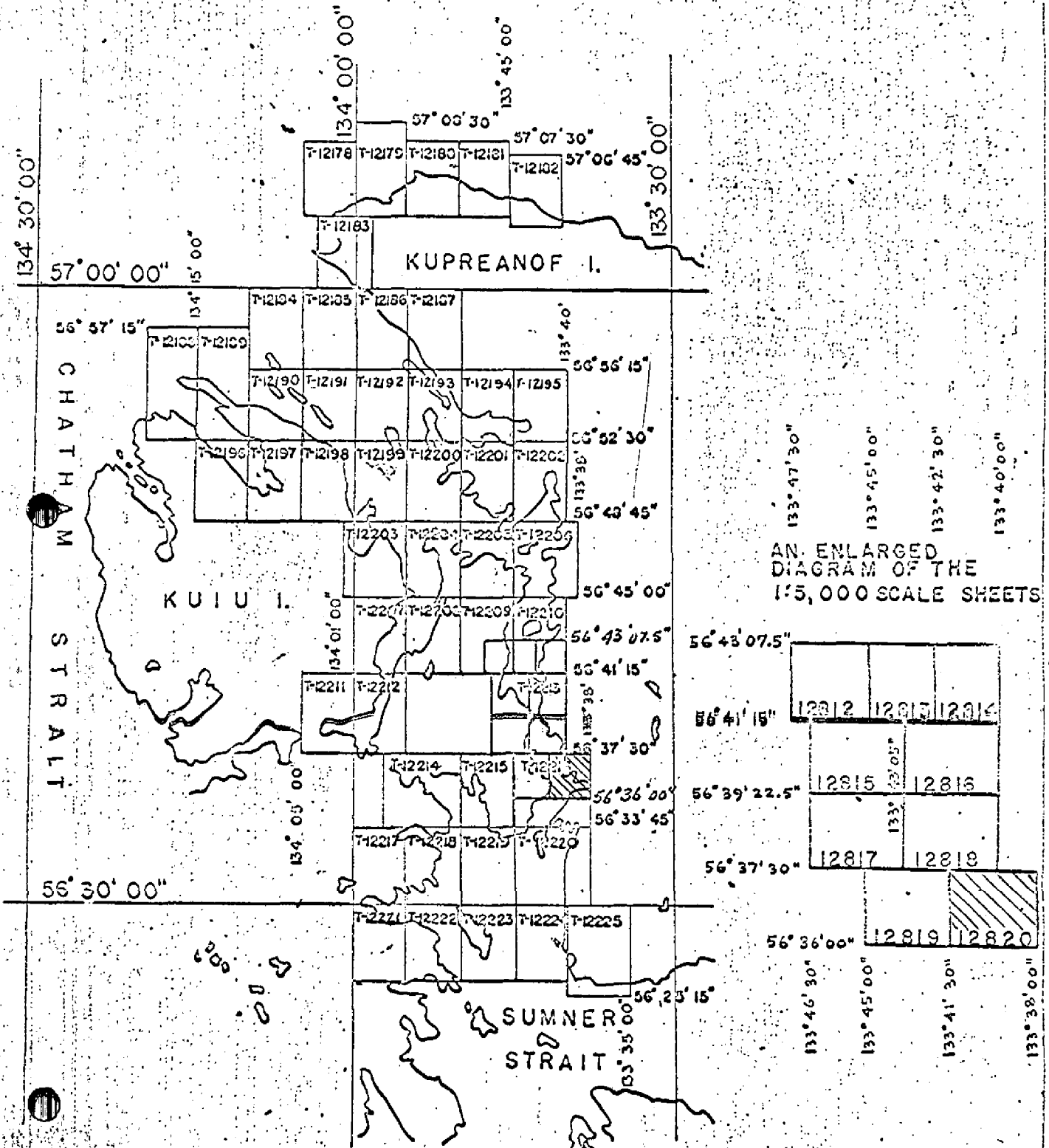
COMPILATION RECORD	COMPLETION DATE	REMARKS
Compilation Complete Pending Field Edit	July 1969	Superseded
Field Edit Applied	Feb. 1970	Superseded
Final Review	Feb. 1973	

SHORELINE MAPPING PROJECT

Ph-6206

KEKU STRAITS, ALASKA

SCALE 1:10,000



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

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

A.R.

SUMMARY TO ACCOMPANY
DESCRIPTIVE REPORT T-12820

This 1:5,000 scale shoreline manuscript is one of 53 maps that comprise Project PH-6206, Keku Strait, Alaska. The project diagram indicates the location of T-12820 in the project.

There was no field work prior to compilation, except the identification of horizontal control for aerotriangulation.

Compilation was by Wild B-8 methods, using panchromatic photographs taken in 1961 and color photographs taken in 1964. Control was based on a stereoplanigraph bridge. 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 1969. 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 February, 1973.

The compilation manuscript was a vinylite sheet 1 minute 30 seconds in latitude by 3 minutes 30 seconds in longitude.

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

FIELD INSPECTION REPORT

T-12820

PROJECT PH-6206

There was no field inspection prior to compilation.

AEROTRIANGULATION REPORT
Keku Straits, Alaska
Job PH-6206

21. Area Covered

This report pertains to that portion of Keku Straits between 56° 33' 45" and 56° 45' 00".

22. Method

Two strips of photography were bridged using stereoplani-graph and emulsion-drilled diapositives. Measurements made by the stereoscopic instruments were adjusted using 1620 IBM programs.

23. Adequacy of Control

Number and location of field-identified horizontal control stations were adequate to control the bridges with sufficient accuracy to comply with National Standards of Map Accuracy. Station LO 1927 did not hold in the adjustment but closer investigation revealed that an apparent transposition of distances to the substitute stations had occurred. After re-computing the positions all control held satisfactorily.

24. Supplemental Data

U.S.G.S. quadrangles, Petersburg (C-5 and C-6), Alaska, scale 1:63,360, 1948 edition, were used to determine elevations to provide vertical control where required.

25. Photography

Photography was adequate for coverage, definition and endlap.

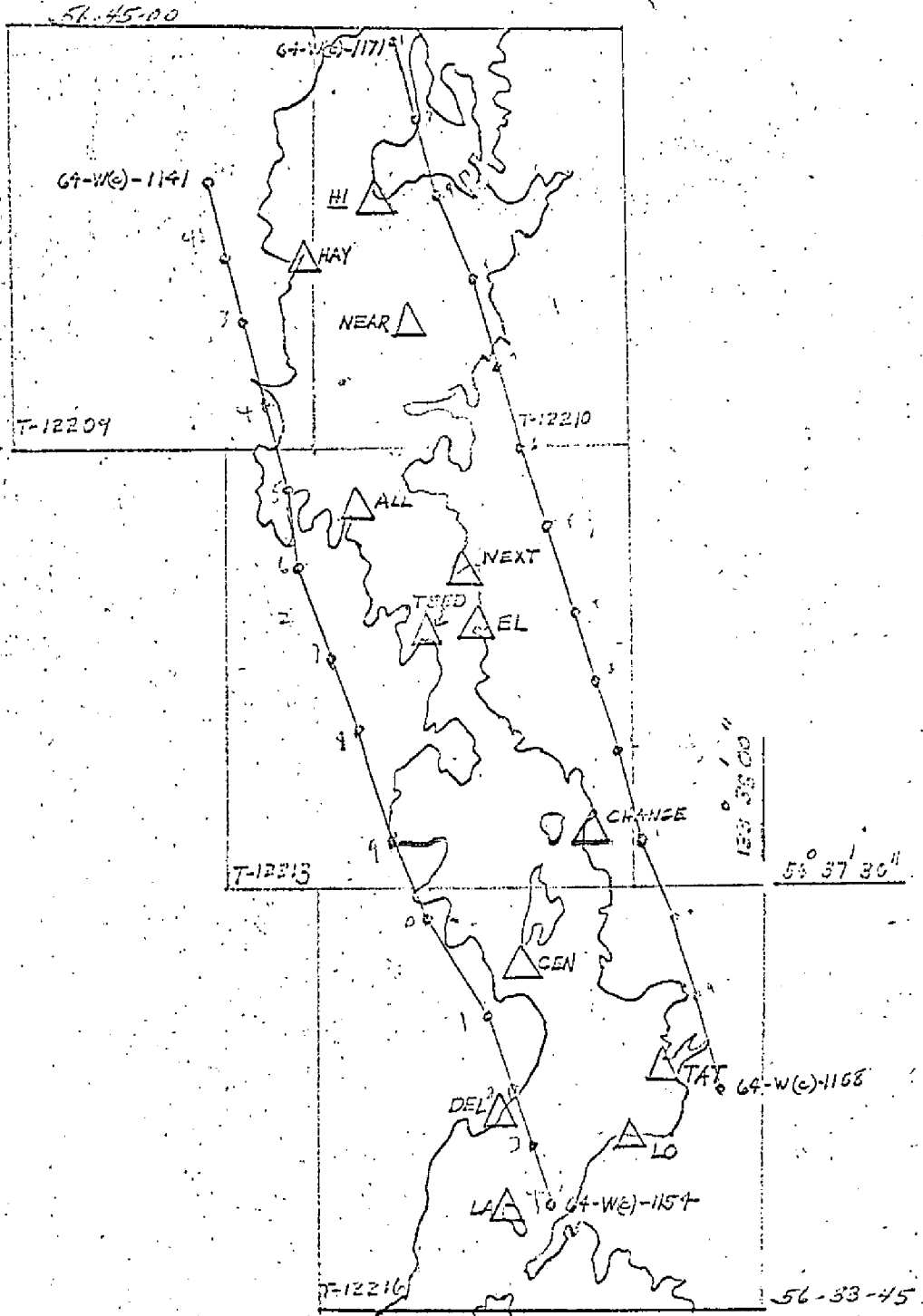
Respectfully submitted:

William Heinbaugh
W. Heinbaugh

Approved by:

John D. Perrow Jr.

KEKU STRAITS, ALASKA PH - 6206



COMPILATION REPORT

T-12820

31. DELINEATION

This manuscript was compiled on the Wild B-8 using two parallel bridging strips of 1964 color photography which was flown without sufficient side lap. This left a hiatus in the detail along the edge of each flight line which was mapped by graphic compilation using 1961 panchromatic photography.

There was no field inspection prior to compilation.

32. CONTROL

See "AEROTRIANGULATION REPORT" by W. Heinbaugh, not dated.

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

All shoreline and alongshore area details were compiled in the office without the benefit of prior field inspection. The interpretation and placement of detail however, is considered to be very good. The field editor has been asked for a confirmation of questionable delineation.

36. OFFSHORE DETAILS

Offshore details were compiled in the same manner as the shoreline and alongshore details.

37. LANDMARKS AND AIDS

Appropriate copies of Form 567 have been forwarded.

38. CONTROL FOR FUTURE SURVEYS

None

39. JUNCTIONS

Satisfactory junctions have been made with sheet T-12818 to the north and T-12819 to the west. There is no contemporary survey to the east and no contemporary 1:5,000 scale survey to the south.

40. HORIZONTAL AND VERTICAL ACCURACY

No statement.

46. COMPARISON WITH EXISTING MAPS

A comparison was made with USGS Quadrangles PETERSBURG (C-5) and PETERSBURG (C-6) scale 1:63,360, dated 1948.

47. COMPARISON WITH NAUTICAL CHARTS

A comparison was made with USC&GS Chart 8272, KEKU STRAIT, scale 1:20,000, 2nd Edition dated Nov. 14, 1960, revised March 18, 1963.

ITEMS TO BE APPLIED TO NAUTICAL CHARTS IMMEDIATELY

None

ITEMS TO BE CARRIED FORWARD

None

Respectfully submitted,

Charles H. Bishop

for B. L. Barge
Cartographic Technician

Approved for forwarding:

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

Approved:

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

GEOGRAPHIC NAMES

FINAL NAME SHEET

PH-6206 (Keku Strait, Alaska)

T-12820

Eagle Island

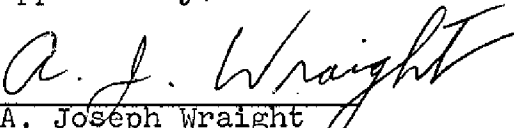
Keku Strait

Kuiu Island

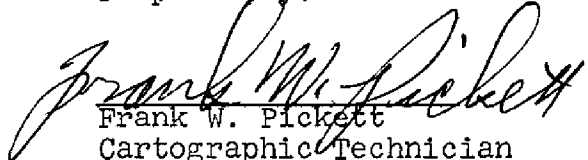
Kupreanof Island

Tunehean Creek

Approved by:


A. Joseph Wraight
Chief Geographer

Prepared by:


Frank W. Pickett
Cartographic Technician

NOTES FOR THE HYDROGRAPHER:

- 1- There was no field inspection prior to compilation; therefore, occasional measurements should be made from identifiable points on the photographs to the MHWL to verify compilation.
- 2- If there are landmarks or fixed aids to navigation within the area of this map, investigate and submit Form 567.
- 3- Give character of foreshore areas (sand, mud, etc.).
- 4- Foul, shoal, and reef areas and rocks shown on this manuscript were determined by office interpretation of aerial photographs of the area. Their existence and extent should be verified by the hydrographer. If a foul, shoal, or reef area or rock does not exist, this fact should be noted on the Field Edit Ozalid.
- 5- See Field Edit Ozalid for other notes.

PHOTOGRAMMETRIC OFFICE REVIEW
T. 12820

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 None				6. RECOVERABLE HORIZONTAL STATIONS OF LESS THAN THIRD-ORDER ACCURACY (Topographic stations) X		7. PHOTO HYDRO STATIONS X	
8. BENCH MARKS X		9. PLOTTING OF SEXTANT FIXES X		10. PHOTOGRAMMETRIC PLOT REPORT Bridge-W.O.		11. DETAIL POINTS CHB	
ALONGSHORE AREAS (Nautical Chart Data)							
12. SHORELINE CHB		13. LOW-WATER LINE CHB		14. ROCKS, SHOALS, ETC. CHB		15. BRIDGES None	
16. AIDS TO NAVIGATION CHB		17. LANDMARKS None		18. OTHER ALONGSHORE PHYSICAL FEATURES CHB		19. OTHER ALONGSHORE CULTURAL FEATURES CHB	
PHYSICAL FEATURES							
20. WATER FEATURES CHB				21. NATURAL GROUND COVER X		22. PLANETABLE CONTOURS X	
23. STEREOSCOPIC INSTRUMENT CONTOURS X		24. CONTOURS IN GENERAL X		25. SPOT ELEVATIONS X		26. OTHER PHYSICAL FEATURES CHB	
CULTURAL FEATURES							
27. ROADS X		28. BUILDINGS X		29. RAILROADS X		30. OTHER CULTURAL FEATURES X	
BOUNDARIES							
31. BOUNDARY LINES X				32. PUBLIC LAND LINES X			
MISCELLANEOUS							
33. GEOGRAPHIC NAMES CHB			34. JUNCTIONS CHB			35. LEGIBILITY OF THE MANUSCRIPT CHB	
36. DISCREPANCY OVERLAY CHB		37. DESCRIPTIVE REPORT		38. FIELD INSPECTION PHOTOGRAPHS None		39. FORMS CHB	
40. REVIEWER C. H. Bishop				SUPERVISOR, REVIEW SECTION OR UNIT A. 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 C. H. Bishop				SUPERVISOR A. C. Rauck, Jr.			
43. REMARKS Field Edit applied from: Field Edit Ozalid, Field Photos 64 W 1151, 1160 and 1162, and film ozalid.							

FIELD EDIT REPORTS

Keku Strait
Southeast Alaska
OPR-448

MAPS

T-12812
T-12813
T-12814
T-12815
T-12816
T-12817
T-12818
T-12819
T-12820

June-August 1969

FIELD EDIT REPORTS

Keku Strait
Southeast Alaska
OPR-448

June-August 1969

INTRODUCTION

Field edit reports are attached for the following maps:

T-12812	T-12817
T-12813	T-12818
T-12814	T-12819
T-12815	T-12820
T-12816	

Field photographs and copies of the field edit ozalids were taken into the field. The mean high water line was verified by visual inspection of the shoreline and ozalids in the field. Isolated rocks, high points of ledges, ledge limits, and some shoreline were located by three-point fixes with check angles. Fixes were plotted on boat sheets:

DA-5-2-69
DA-5-3-69
DA-5-4-69
DA-5-5-69

and then transferred to the T-sheets and ozalids for comparison.

Notes have been made in violet on the field photographs and have been cross-referenced on the Field Edit Ozalids by photograph number. All times are based on 105° West meridian.

Generally compilation of the maps is good. It is recommended that the maps be revised in accordance with the notes on the photographs and that the maps, with the exceptions of T-12813, T-12815, and T-12818, be accepted as advance manuscripts. Maps T-12813, T-12815, and T-12818 should be compiled using the recent photographs. It is recommended that the compiler obtain copies of the above boat sheets and use them in compiling the advance manuscripts.

Field inspection of these maps is complete except for map T-12820.

Copies of "Nonfloating Aids or Landmarks for Charts", form C&GS 567, are attached.

FIELD EDIT REPORT
MAP T-12820

Keku Strait
Southeast Alaska
OPR-448

August 1969

Field edit of map T-12820 was done by LT Edward Gelb and LT(jg) Bruce Fisher between 27 July and 11 August 1969. Inspection was done on foot and in a 12-foot whaler.

METHOD

Due to poor weather only copies of the "Field Edit Ozalid" could be taken into the field. Shoreline was verified by visual comparison of the ozalid to the shoreline in the field. Isolated rocks, high points of ledges, and ledge limits were located by three-point fixes with check angles. Fixes were plotted on boat sheet DA-5-5-69 and then transferred to the T-sheet and ozalid for comparison.

Notes have been made in violet on the field photographs and have been cross-referenced on the "Field Edit Ozalid" by photograph number. All times are based on 105° West meridian. Notes are on the following photographs:

64W1151
64W1160
64W1162

ADEQUACY OF COMPILATION

Compilation of this map is good. Hydrographic location of isolated rocks compares well with the photogrammetric location of the same rocks. Several islands on the northeast corner of the map would be better represented by rock symbols. Also several of the ledge areas, even though containing some ledge, would be better described as rocky areas.

Field inspection of this map was not completed south of Lat. 56°36'15".

RECOMMENDATIONS

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

MAP T-12820

ATTACHMENTS

A copy of "Nonfloating Aids or Landmarks for Charts", C&GS 567, is attached.

Respectfully submitted

Bruce W. Fisher

Bruce W. Fisher
LTJG USESSA

APPROVAL SHEET

for

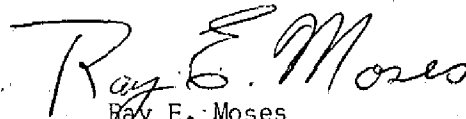
FIELD EDIT
Keku Strait
Southeast Alaska
OPR-448

June-August 1969

The field edit of the following manuscripts was accomplished under my supervision:

T-12812	T-12817
T-12813	T-12818
T-12814	T-12819
T-12815	T-12820
T-12816	

Frequent inspections of the field edit work and of plotted comparisons on the boat sheets were made.



Ray E. Moses
CDR, USESSA
Commanding Officer
USC&GSS DAVIDSON

NONFLOATING AIDS OR LANDMARKS FOR CHARTS

~~TO BE CHARTED~~
~~TO BE REVISED~~
~~TO BE DELETED~~ } STRIKE OUT TWO

Keku Strait, Southeast Alaska August 19 69

I recommend that the following objects which have *(have not)* been inspected from seaward to determine their value as landmarks be charted on *(deleted from)* the charts indicated.

The positions given have been checked after listing by Glenn H. Endrud, LTJG USESSA

Ray E. Moses
CDR Ray E. Moses
Chief of Party

CHARTING NAME	DESCRIPTION	SIGNAL NAME	POSITION						METHOD OF LOCATION AND SURVEY NO.	DATE OF LOCATION	HARBOR CHART	INSHORE CHART	OFFSHORE CHART	CHARTS AFFECTED
			LATITUDE*		LONGITUDE*		DATUM							
			° ' "	D.M. METERS	° ' "	D.P. METERS								
W "13"	Daybeacon #13 (white)	519	56 37	13 9	428.7	133 40	49.6	N.A. Hydro sig 1927 DA-5-5-69	7-69	X			8272	
R "12"	Daybeacon #12 (red)	518	56 36	41.7	1290.4	133 40	54.0	N.A. Hydro sig 1927 DA-5-5-69	7/69	X			8272	
W "11"	Daybeacon #11 (white)	517	56 36	32.4	1002.4	133 40	59.0	N.A. Hydro sig 1927 DA-5-5-69	7/69	X			8272	
	The position of each aid listed on this form is in agreement with the corresponding position on Map Manuscript T-12820. As there are no other fixed aids or landmarks in this area, this form was not duplicated by the Photogrammetric Branch, Atlantic Marine Center.													
	<i>Allen L. Powell</i> Allen L. Powell Director, AMC.													

This form shall be prepared in accordance with Hydrographic Manual, Publication 20.2, Sec. 1-55, 2-39, 6-36, 7-18 to 22 inclusive, and Fig. 79. Positions of charted landmarks and nonfloating aids to navigation, if redetermined, shall be reported on this form. Revisions shall show both the old and new positions. The data should be considered for the charts of the area and not by individual field survey sheets. Information under each column heading should be given.

REVIEW REPORT T-12820

SHORELINE

FEBRUARY 12, 1973

61. GENERAL STATEMENT

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

62. COMPARISON WITH REGISTERED TOPOGRAPHIC SURVEYS

A comparison was made with Survey No. 4331, scale 1:10,000, dated August-September 1927. Significant differences between this survey and T-12820 were shown in blue on the comparison print.

Survey No. 4331 is now obsolete for chart construction purposes. The compared area is superseded by T-12820.

63. COMPARISON WITH MAPS OF OTHER AGENCIES

A visual comparison was made with USGS Quadrangle PETERSBURG (C-5) and (C-6), ALASKA, scale 1:63,360, dated 1951 and 1948. No significant differences were noted.

64. COMPARISON WITH CONTEMPORARY HYDROGRAPHIC SURVEYS

A comparison was made with Survey H-9081, scale 1:5,000, dated July-August 1969. Shoreline compared well, as T-12820 was the source of shoreline for the area compared.

Several rocks were mapped on H-9081 that had not been mapped on T-12820. A search was made for each rock on the photographs and those that were visible were added to T-12820.

H-9081 indicates ledge and three rocks awash at Lat. $56^{\circ}37'00''$, Long. $133^{\circ}40'45''$. Ledge visible on Photo 61 W 9543 (-0.4 ft. predicted tide) was added to T-12820. Rocks shown on T-12820 in this ledge area were identified by the field editor. Rock heights determined by the field editor were not in agreement with rock heights determined by the hydrographer. The northerly rock shown on H-9081 was not visible on the photographs at the position indicated.

Unresolved differences between H-9081 and T-12820 were shown in purple on the comparison print.

65. COMPARISON WITH NAUTICAL CHARTS

A comparison was made with Chart 8272, scale 1:20,000, 4th edition, dated 21 November 1970. Shoreline appears to be the same as shoreline on T-4331 and is, therefore, shown on the comparison print with a blue line. Other significant differences between Chart 8272 and T-12820 are shown in red on the comparison print.

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

I

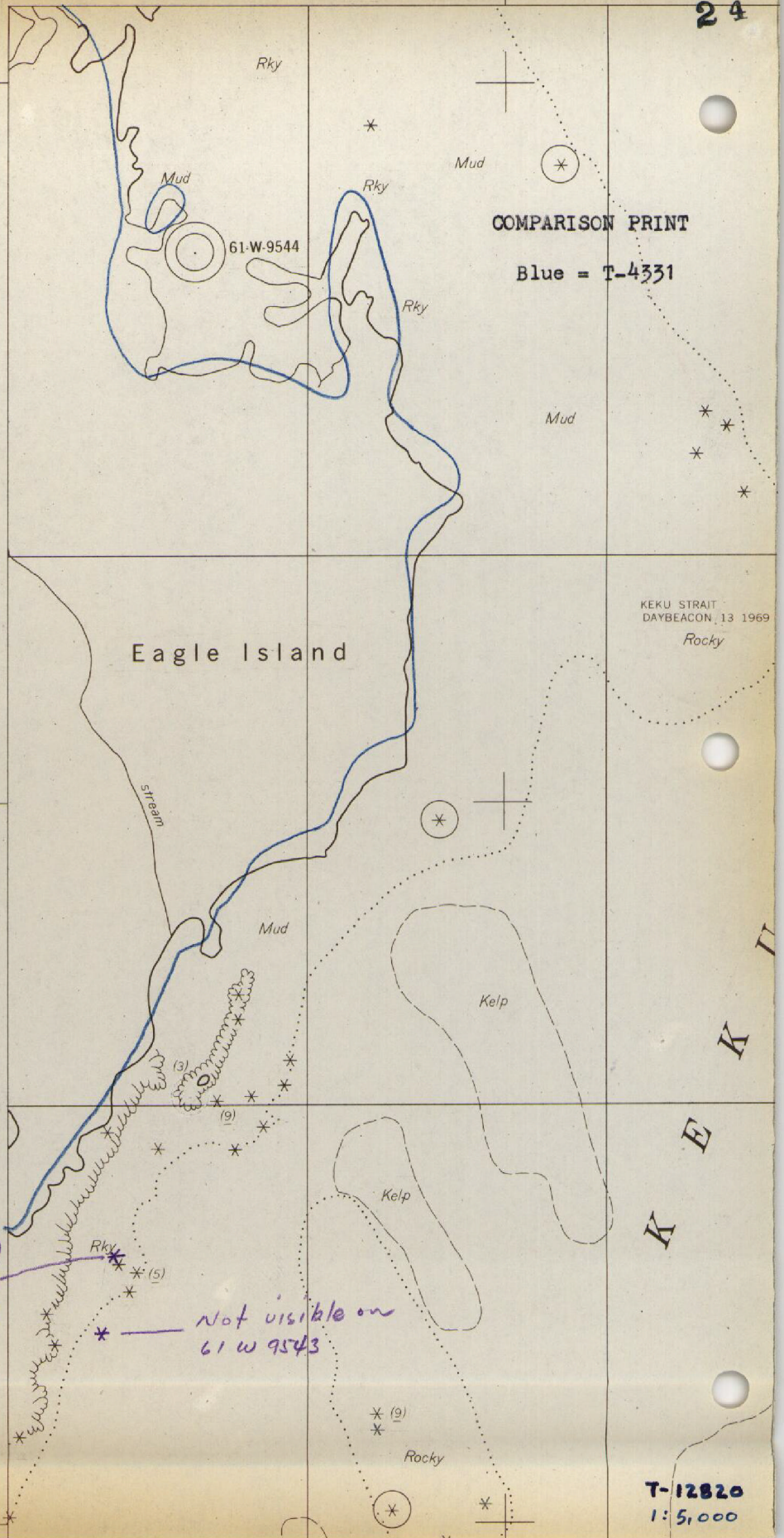
56° 37' 30"

y = 1,750,000 FT.

41' 15" x = 2,682,000 FT.

41' 00"

24



COMPARISON PRINT

Blue = T-4331

61-W-9544

Eagle Island

KEKU STRAIT
DAYBEACON, 13 1969
Rocky

y = 1,748,000 FT.

37' 00"

y = 1,746,000 FT.

2 rks 5 m apart.
Only S'y rk shown
on T-12820

Not visible on
61 W 9543

T-12820
1:5,000

2 rks 5 m. apart.
E'y rlc shown on T-12820

S
T
R
A
I
T

COMPARISON PRINT

Blue = T-4331
Red = Chart 8272
Purple = H-9081

37'15"

Different points on
same rock

Not visible on 61W9543

K
U
P

(Rks. on T-12820 are from
field edit; Ledge is from
office interpretation of
61W 9543 during Final Review.

56°37'00"

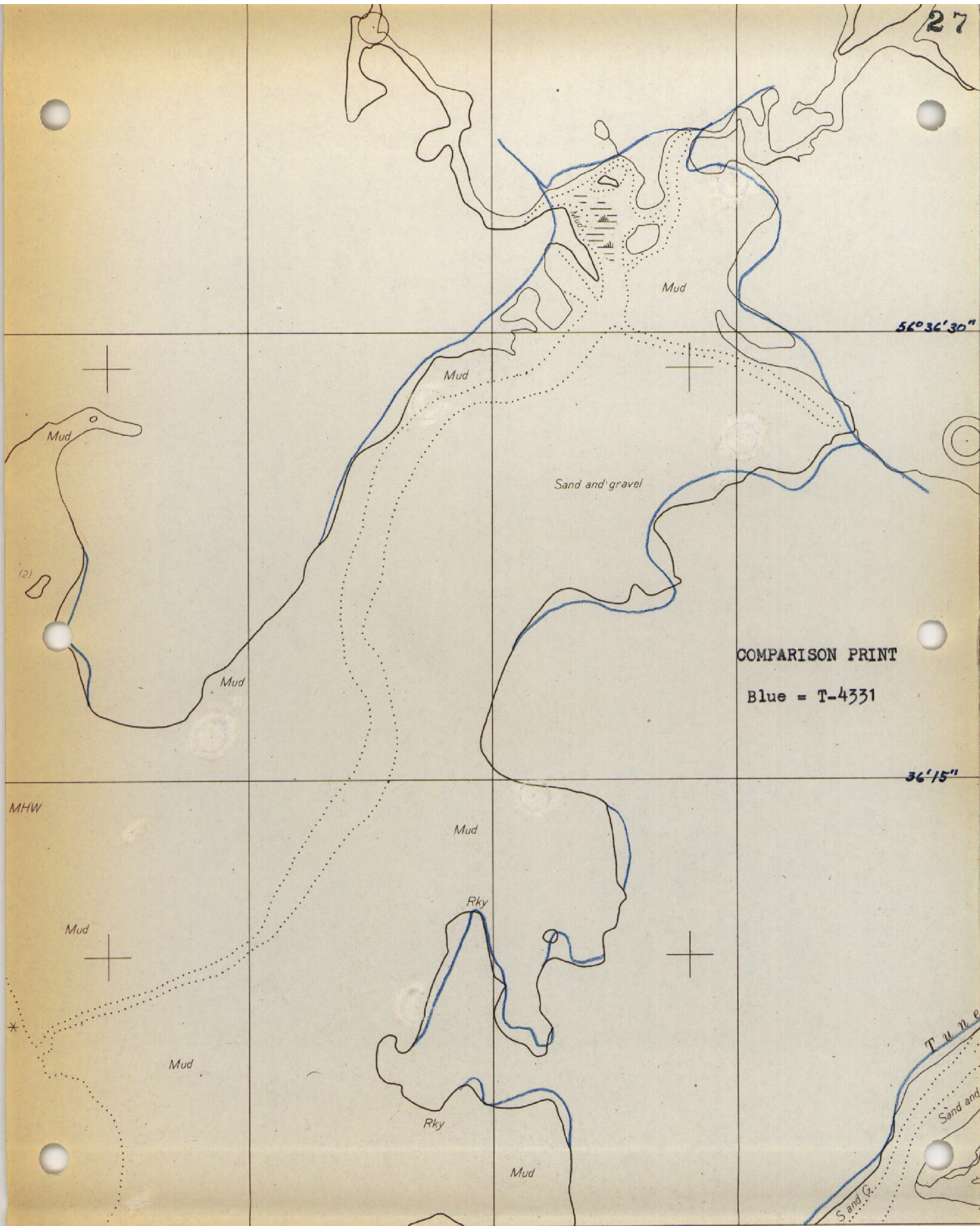
Does not exist
(Field edit, 1969)

o Do1

Rk cov 1 ft MLLW
Rk cov 1 ft MLLW

Mud

Rky



56° 36' 30"

COMPARISON PRINT

Blue = T-4331

36' 15"

MHW

T-12820
1: 5,000

00" x=2,686,000 FT. 39' 45" 133° 39' 30" x=2,688,000 FT. 39' 15" 39

64-W(C)-1159

COMPARISON PRINT

Blue = T-4331

56°30'30"

36'15"



T-12 820
1:5000

00"

38'45" | x=2,690,000 FT, 138°38'30"

38'15" | x=2,692,000 FT.

133°