

12222

12222

NOAA FORM 76-35	
U.S. DEPARTMENT OF COMMERCE NATIONAL OCEANIC AND ATMOSPHERIC ADMINISTRATION NATIONAL OCEAN SURVEY	
DESCRIPTIVE REPORT	
<i>Type of Survey</i> Shoreline (Photogrammetric)...	
<i>Job No.</i> PH-6206	<i>Map No.</i> T-12222
<i>Classification No.</i> Field Edited	<i>Edition No.</i>
LOCALITY	
<i>State</i> Alaska	
<i>General Locality</i> Keku Strait	
<i>Locality</i> Alvin Bay Mouth Of	
<hr/> 1961 TO 19 71 <hr/> Alfred C. Holmes, Director, AMC	
REGISTRY IN ARCHIVES	
DATE	

MAP NOT INSPECTED IN QUALITY CONTROL PRIOR
TO REGISTRATION

DESCRIPTIVE REPORT - DATA RECORD
T-12222

1

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 SUPPLEMENT III December 19, 1967 OFFICE " IV April 14, 1970 OFFICE INSTRUCTIONS January 18, 1965 FIELD INSTRUCTIONS February 11, 1967			
METHOD OF COMPILATION (III): Wild B-8 and Graphic			
MANUSCRIPT SCALE (III): 1:10,000		STEREOSCOPIC PLOTTING INSTRUMENT SCALE (III): 1:20,000 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): MEAN SEA LEVEL HIGH WATER EXCEPT AS FOLLOWS: Elevations shown as (25) refer to mean high water Elevations shown as (5) refer to sounding datum i.e., mean low water or mean lower low water	
REFERENCE STATION (III): DAL, 1929			
LAT.: 56°26'28.828"	LONG.: 133°53'51.162"	<input checked="" type="checkbox"/> ADJUSTED <input type="checkbox"/> UNADJUSTED	
PLANE COORDINATES (IV): y = 1,683,193.76 Ft. x = 2,638,925.47 Ft.		STATE Alaska	ZONE 1
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-12222

FIELD INSPECTION BY (II): None		DATE:
MEAN HIGH WATER LOCATION (III) (STATE DATE AND METHOD OF LOCATION): Air Photo Compilation Date of Photography: August 5 & 24, 1969		
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): Coradomat	DATE April 10, 1970	
CONTROL CHECKED BY (III): Coradomat	DATE April 10, 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.	DATE Aug. 18, 1970
	Reviewed By: R. White & A. Shands	Aug. 18, 1970
	CONTOURS Inapplicable	DATE
MANUSCRIPT DELINEATED BY (III): B. Wilson	DATE Sept. 18, 1970	
SCRIBING BY (III): Frank Margiotta	DATE 5/1/72	
PHOTOGRAMMETRIC OFFICE REVIEW BY (III): L.L. Graves	DATE Oct. 6, 1970	
REMARKS:		

DESCRIPTIVE REPORT - DATA RECORD

T-12222

CAMERA (KIND OR SOURCE) (III):

Wild RC-8 "E"

PHOTOGRAPHS (III)

NUMBER	DATE	TIME	SCALE	STAGE OF TIDE
69-E-(c)-1946	Aug. 24, 1969	12:54	1:40,000	+8.8
69-E-(c)-976 & 977	Aug. 5, 1969	12:15	"	+4.3
61-W-(p)-9447 thru 9450	July 16, 1961	9:23	1:20,000	-0.1
61-W-(p)-9439 thru 9441	"	9:11	"	+0.1
61-W-(p)-9486	"	9:50	"	-0.5

Predicted TIDE (III)

Diurnal

	RATIO OF RANGES	MEAN RANGE	SPRING RANGE
REFERENCE STATION: Ketchikan, Alaska		13.0	15.4
SUBORDINATE STATION:			
COORDINATE STATION: Monte Carlo I, Alaska		10.3	12.5

Atlantic Marine Center WASHINGTON DC DIRECTOR OF PISE REVIEW BY (IV): C.H. Bishop	DATE: April 1973
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PROOF EDIT BY (IV):	DATE:
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NUMBER OF TRIANGULATION STATIONS SEARCHED FOR (II): 4	RECOVERED: 4	IDENTIFIED: None
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NUMBER OF BM(S) SEARCHED FOR (II): None	RECOVERED: None	IDENTIFIED:
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NUMBER OF RECOVERABLE PHOTO STATIONS ESTABLISHED (III):	None
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NUMBER OF TEMPORARY PHOTO HYDRO STATIONS ESTABLISHED (III):	None
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REMARKS:

T-12222

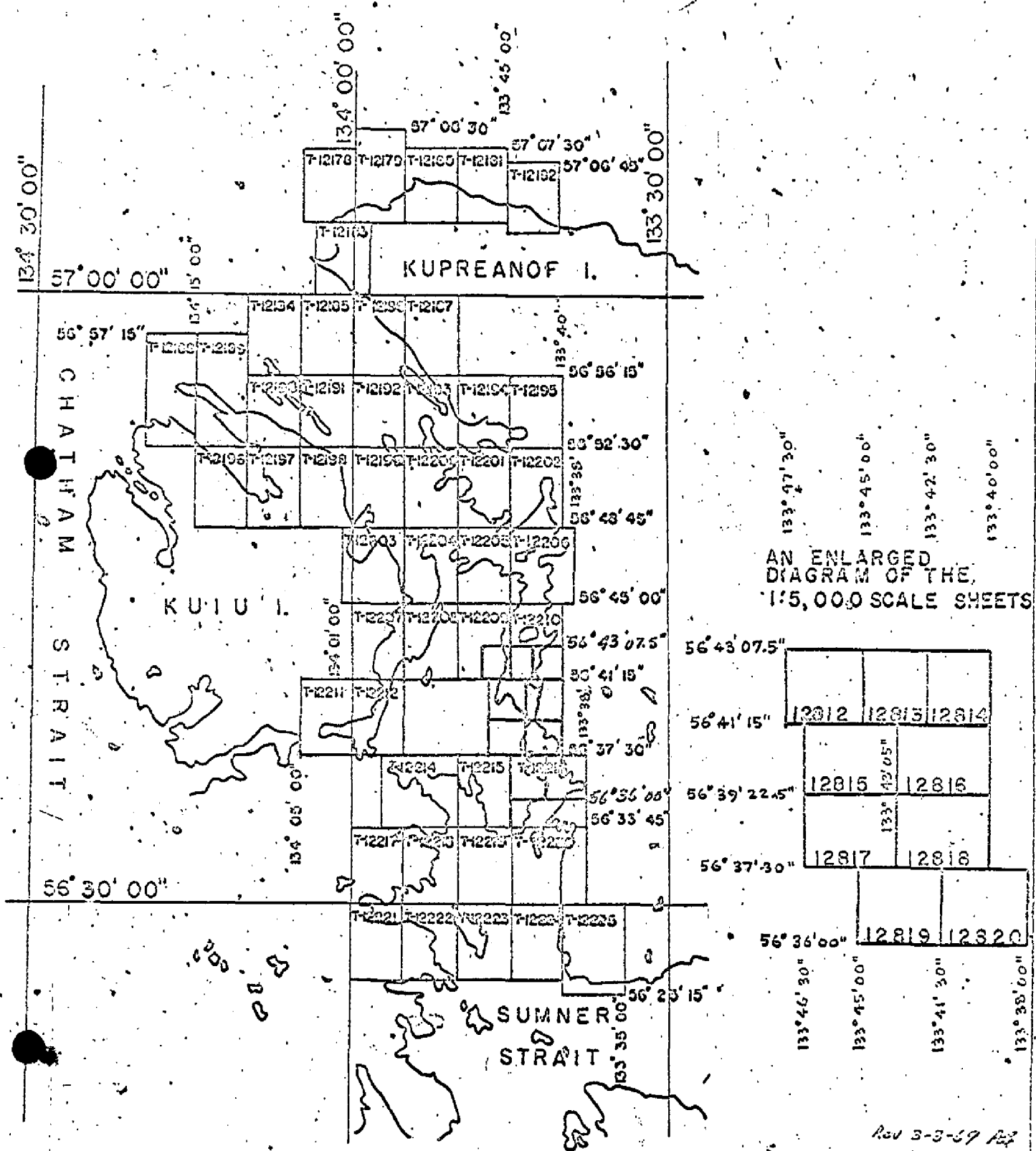
COMPILATION RECORD	COMPLETION DATE	REMARKS
Compilation Complete Pending Field Edit	Sept. 1970	Superseded
Field Edit Applied	July 1971	Superseded
Final Review	April 1973	

SHORELINE MAPPING PROJECT

Ph-6206

KEKU STRAITS, ALASKA

SCALE 1:10,000



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

56° 41' 15"	12812	12813	12814
		133° 42' 05"	
56° 39' 22.5"	12815		12816
		133° 41' 30"	
56° 37' 30"	12817		12818
56° 36' 00"	12819		12820

Rev 3-3-69 R2
Rev. 9-65 R.G.
Revised 1-4-65

SUMMARY TO ACCOMPANY
DESCRIPTIVE REPORT T-12222

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-12222 in the project.

There was no field work before compilation, except the identification of horizontal control for aerotriangulation. No identified station was within the limits of this map. Compilation was by Wild B-8 plotter with control based on a stereoplanigraph bridge using color photographs taken in August 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 by the Ship DAVIDSON 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 April, 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 were forwarded for record and registry.

FIELD INSPECTION REPORT

Project PH-6206

T-12222

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 "Sumner 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,

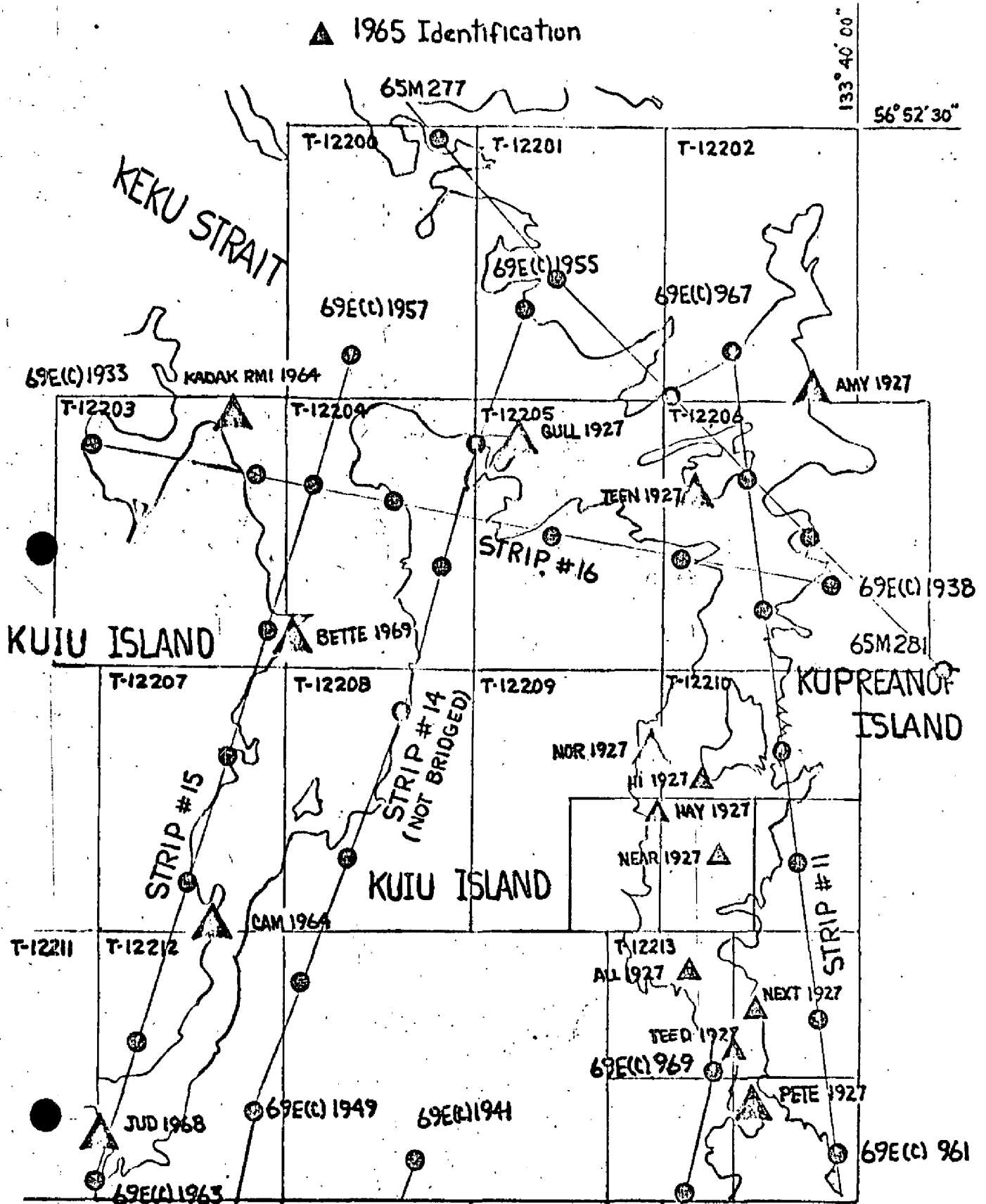
Henry P. Eichert
Henry P. Eichert
Chief, Aerotriangulation
Section

KEKU STRAIT ALASKA

PH 6206 FEB 1970

▲ 1969 Identification

▲ 1965 Identification



KEKU STRAIT ALASKA

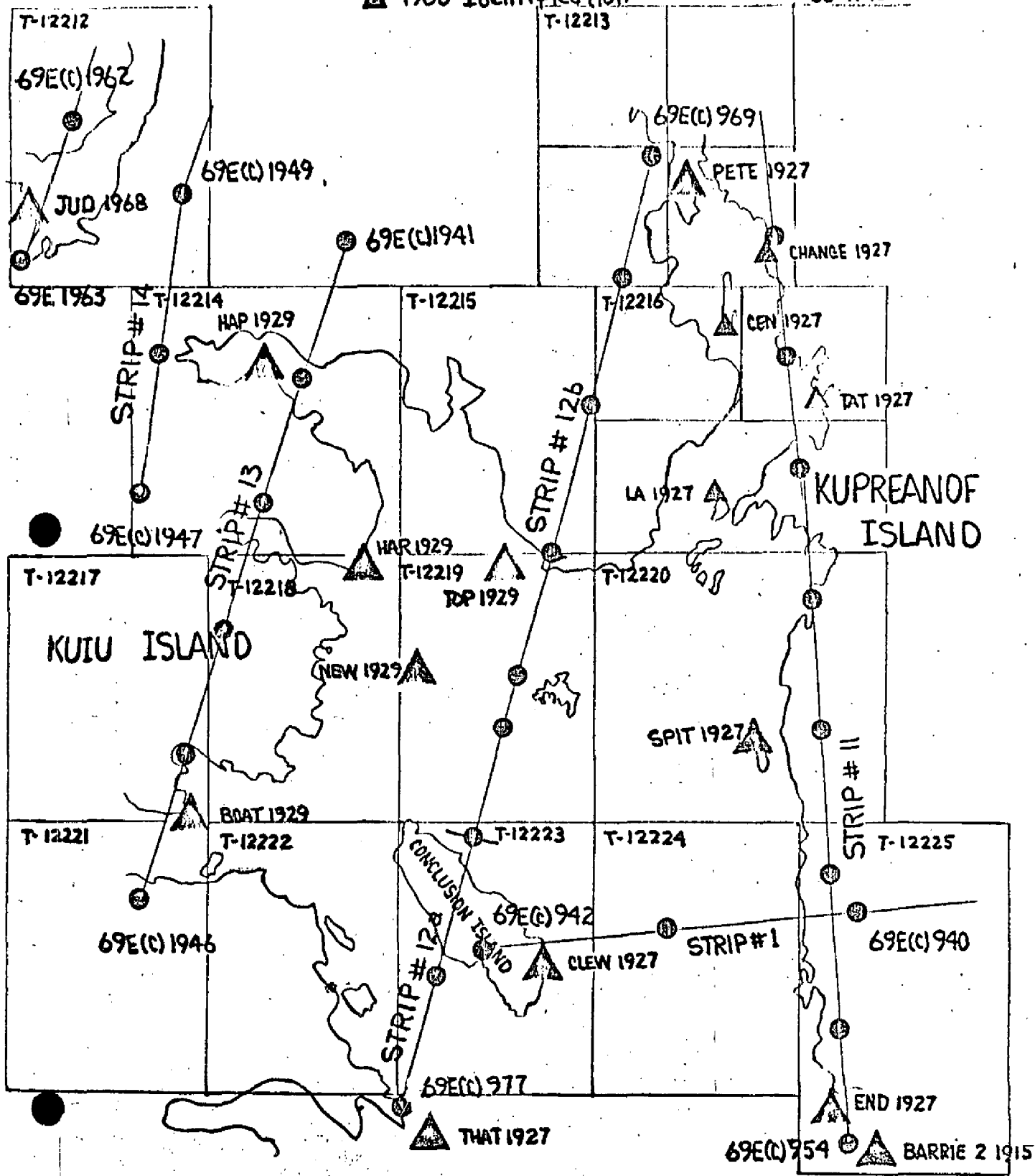
PH 6206

▲ 1969 Identification

▲ 1965 Identification

133° 40' 00"

56° 41' 15"



DESCRIPTIVE REPORT CONTROL RECORD

MAP T- 12222 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)	N.A. 1927 - DATUM FORWARD (BACK)
DAL, 1929	Vol. 2 Page 540	N.A. 1927	56° 26' 28.828"	891.7	(964.2)
IS, 1927	Vol. 2 Page 368	"	133° 53' 51.162"	876.6	(151.4)
THEM, 1929	Vol. 2 Page 535	"	56° 27' 29.815"	922.2	(933.7)
WAS, 1927	Vol. 2 Page 535	"	133° 50' 28.296"	484.6	(543.0)
			56° 29' 35.654"	1102.8	(753.1)
			133° 53' 56.498"	966.7	(60.0)
			56° 28' 53.453"	1653.4	(202.5)
			133° 52' 30.355"	519.6	(507.4)

COMPUTED BY B. Wilson DATE Sept. 4, 1970
 CHECKED BY C.E. Blood DATE Sept. 4, 1970
 12

COMPILATION REPORT

T-12222

31. DELINEATION

The Wild B-8 plotter was used with color photography of August, 1969 for compilation of the shoreline. The foreshore, MLLW line, and offshore details were compiled graphically, using low water photography taken in July, 1961.

There was no field inspection prior to compilation.

The 1969 photography, was poor in definition due to the large ratio of enlargement. The 1961 photographs (which did not cover Alvin Bay) were difficult to tie to the 1969 photographs because they were of very poor scale and tilt was in evidence.

32. CONTROL

See "Aerotriangulation Report," dated February 19, 1970.

33. SUPPLEMENTAL DATA

None

34. CONTOURS AND DRAINAGE

Contours are inapplicable.

Drainage has been delineated from office interpretation of the photographs.

35. SHORELINE AND ALONGSHORE DETAILS

The shoreline and all alongshore details were delineated from office interpretation of the photographs.

36. OFFSHORE DETAILS

No statement.

37. LANDMARKS AND AIDS

None

38. CONTROL FOR FUTURE SURVEYS

None

39. JUNCTIONS

Satisfactory junctions were made with T-12221 to the west, T-12218 to the north, T-12223 to the east, and T-10707 (PH-5702) to the south.

40. HORIZONTAL AND VERTICAL ACCURACY

No statement.

46. COMPARISON WITH EXISTING MAPS

Comparison has been made with USGS Quadrangle PETERSBURG (B-6), ALASKA, scale 1:63,360 dated 1948.

47. COMPARISON WITH NAUTICAL CHARTS

A comparison has been made with Chart 8201 scale 1:217,828, 15th Edition, Nov. 15, 1969, corrected through N.M. 46/69.

ITEMS TO BE APPLIED TO NAUTICAL CHARTS IMMEDIATELY

None

ITEMS TO BE CARRIED FORWARD

None

Respectfully submitted:

Charles H. Bishop

for B. Wilson
Cartographic Technician
Sept. 21, 1970

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-12222

Alvin Bay

Conclusion Island

Kern Strait

Kuiu Island

No Name Bay

Approved by:

A. J. Wright
A. Joseph Wright
Chief Geographer

Prepared by:

F. W. Pickett (by A. J. W.)
Frank W. Pickett
Cartographic Technician

T-12222

49- NOTES FOR THE HYDROGRAPHER

The area south and east of latitude $56^{\circ} 29' 00''$ and longitude $133^{\circ} 51' 30''$ to latitude $56^{\circ} 25' 15''$ and longitude $133^{\circ} 50' 00''$ should be investigated for rocks or dangers as shown on chart 8201.

These rocks shown on the manuscript are only approximate positions and it is believed others exist within the area.

FORM C&GS-1002 (9-66)		U.S. DEPARTMENT OF COMMERCE ESSA COAST AND GEODETIC SURVEY	
PHOTOGRAMMETRIC OFFICE REVIEW T-12222			
1. PROJECTION AND GRIDS LLG	2. TITLE LLG	3. MANUSCRIPT NUMBERS LLG	4. MANUSCRIPT SIZE XX
CONTROL STATIONS			
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	9. PLOTTING OF SEXTANT FIXES	10. PHOTOGRAMMETRIC PLOT REPORT	11. DETAIL POINTS
ALONGSHORE AREAS (Nautical Chart Data)			
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 LLG	19. OTHER ALONGSHORE CULTURAL FEATURES LLG
PHYSICAL FEATURES			
20. WATER FEATURES LLG	21. NATURAL GROUND COVER LLG		22. PLANETABLE CONTOURS XX
23. STEREOSCOPIC INSTRUMENT CONTOURS XX	24. CONTOURS IN GENERAL XX	25. SPOT ELEVATIONS XX	26. OTHER PHYSICAL FEATURES LLG
CULTURAL FEATURES			
27. ROADS XX	28. BUILDINGS LLG	29. RAILROADS XX	30. OTHER CULTURAL FEATURES XX
BOUNDARIES			
31. BOUNDARY LINES XX		32. PUBLIC LAND LINES XX	
MISCELLANEOUS			
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		Oct. 6, 70	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 B. Wilson		July 28, 71	SUPERVISOR A.C. Rauck, Jr.
43. REMARKS Field Edit Applied From: Field Edit Ozalid; Photos 61-W-9448 and 9452.			

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-12222
KEKU STRAIT
SOUTHEAST ALASKA
APRIL 1971

The field edit of map T-12222 was done by Ltjg. Howard W. Herz with the assistance of Lowell O. Neterer Jr. Inspection was done on foot and from a small boat.

METHOD

The field photographs and a copy of the field edit ozalid were used in conjunction with the physical inspection of the area compiled on the map. The questionable areas were diligently inspected by occupying them and making the necessary comments on the field edit ozalid. The MHWL was closely inspected visually and appears correct as shown. The 61-W photographs were very good for showing the low water limits. The foul areas are foul with kelp which holds floating debris which is mistaken in many instances for rocks. Isolated rock, high points of ledges and ledge limits agreed well with the Boat Sheet DA-10-3-65. Notes have been made on the Field Edit Ozalid and cross-referenced to the proper photograph involved. All times are on 105° W meridian. Notes are on the following photographs:

- 61-W-9447
- 61-W-9448

ADEQUACY OF COMPILATION

Compilation of the map is very good. Hydrographic location of detail compares well with the photogrammetric location. Field edit of this map is complete.

RECOMMENDATIONS

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

Respectfully submitted,

Howard W. Herz

Howard W. Herz
Ltjg. NOAA

Lowell O. Neterer Jr.

Lowell O. Neterer Jr.
Photogrammetrist

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-12222

SHORELINE

April 23, 1973

61. GENERAL STATEMENT

See summary which is page 6 of this Descriptive Report.

62. COMPARISON WITH REGISTERED TOPOGRAPHIC SURVEYS

A visual comparison was made with T-4330, 1:20,000 scale, dated Sept.-Oct. 1927. Part of the west side of Conclusion Island, the only area of T-12222 covered by T-4330, was in good general agreement. No significant differences were noted. T-12222 supercedes all previous surveys for nautical chart construction purposes.

63. COMPARISON WITH MAPS OF OTHER AGENCIES

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

64. COMPARISON WITH CONTEMPORARY HYDROGRAPHIC SURVEYS

North of Lat. $56^{\circ}28'45''$ a comparison was made with a copy of the boat sheet for H-9214 (DA-10-2-71), scale 1:10,000, surveyed in 1971. Comparison was good; only two differences were noted on the comparison print.

South of Lat. $56^{\circ}28'45''$ a comparison was made with Survey H-9101 (PA-10-3-65), scale 1:10,000 surveyed in 1965. There were numerous differences in shoreline, reefs, and ledges. Apparently the base map for these features was the preliminary survey compiled around 1965.

Differences between the hydrographic surveys and T-12222 are indicated on the comparison print in purple.

65. COMPARISON WITH NAUTICAL CHARTS

A visual comparison was made with Chart 8201, scale 1:217,828, 16th edition, dated November 7, 1970. No significant differences were noted. The scale was too small for adequate comparison.

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
Cartographer

Approved for forwarding:



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

Approved:



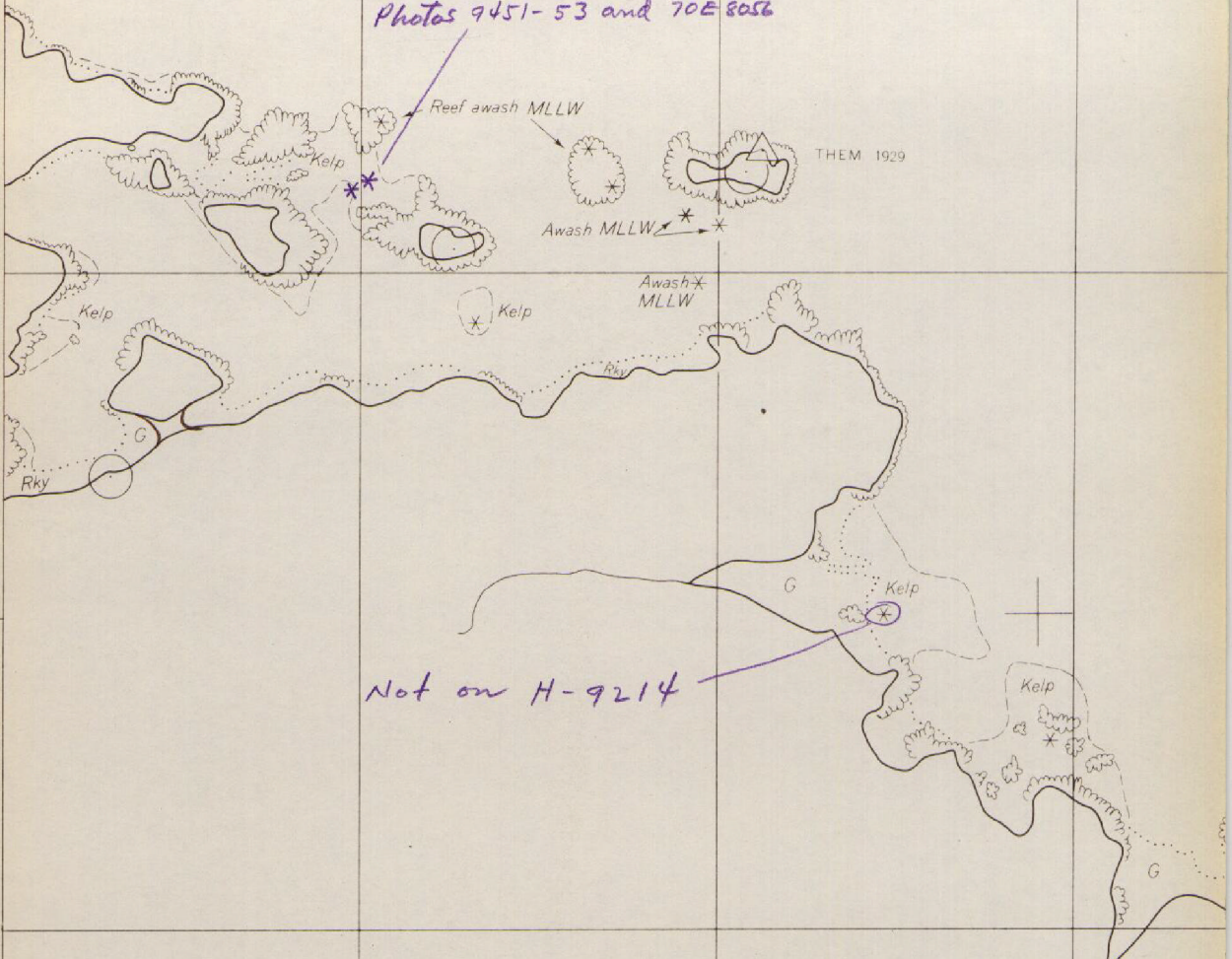
Alfred C. Holmes
RADM, NOAA
Director, Atlantic Marine Center

Approved:

Chief, Photogrammetric Branch Chief, Coastal Mapping Division

N o N a m e B a y

Not on H-9214; not identifiable as rks. on Photos 9451-53 and 70E 8056



Not on H-9214

COMPARISON PRINT

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

52'30"

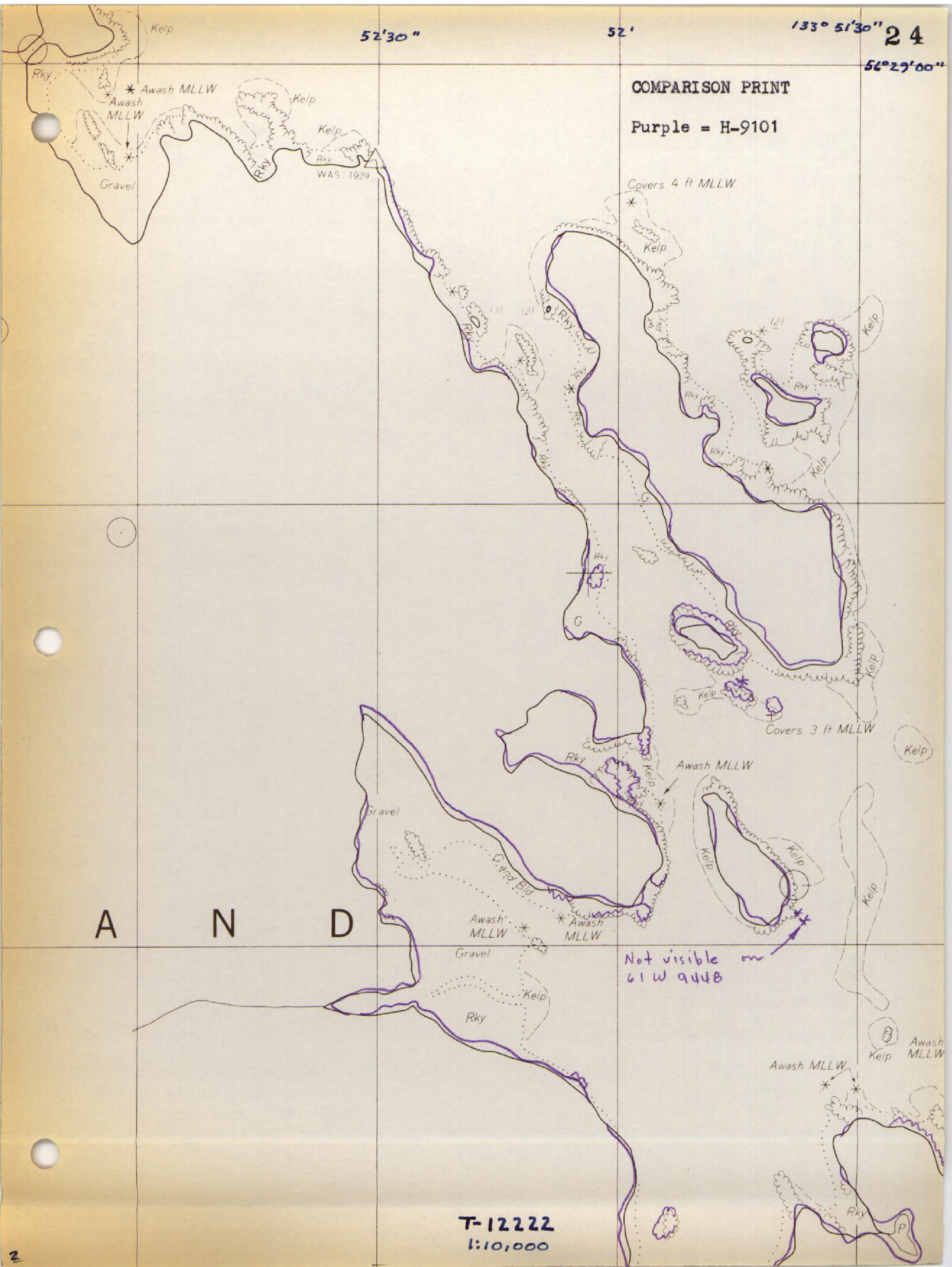
52'

133° 51'30" 24

56°29'00"

COMPARISON PRINT

Purple = H-9101



T-12222
1:10,000

51'

50'30"

133°50'00"

25

56°28'30"

y=1 695.000 F

Not visible on
61 W 9449

56°28'00"

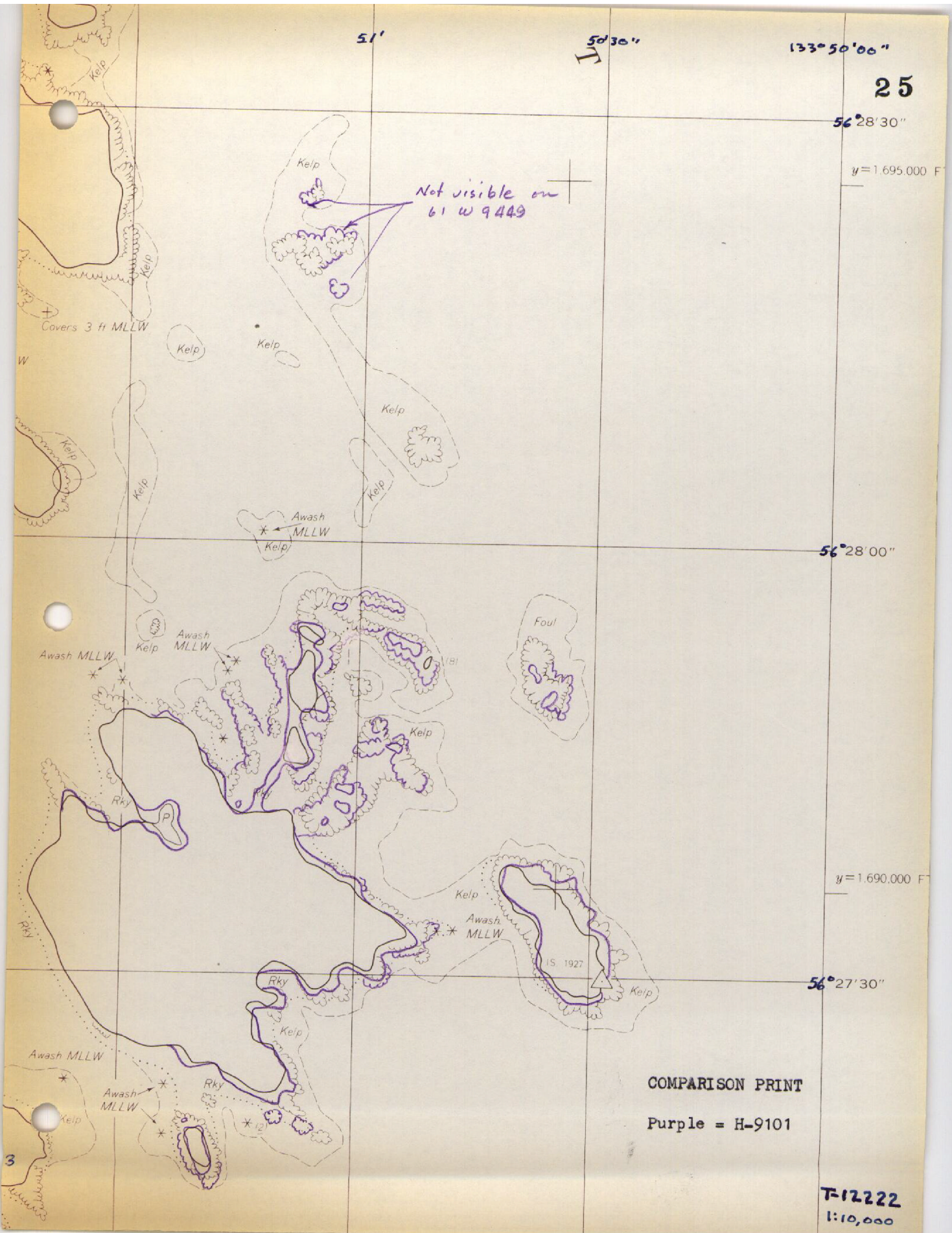
y=1 690.000 F

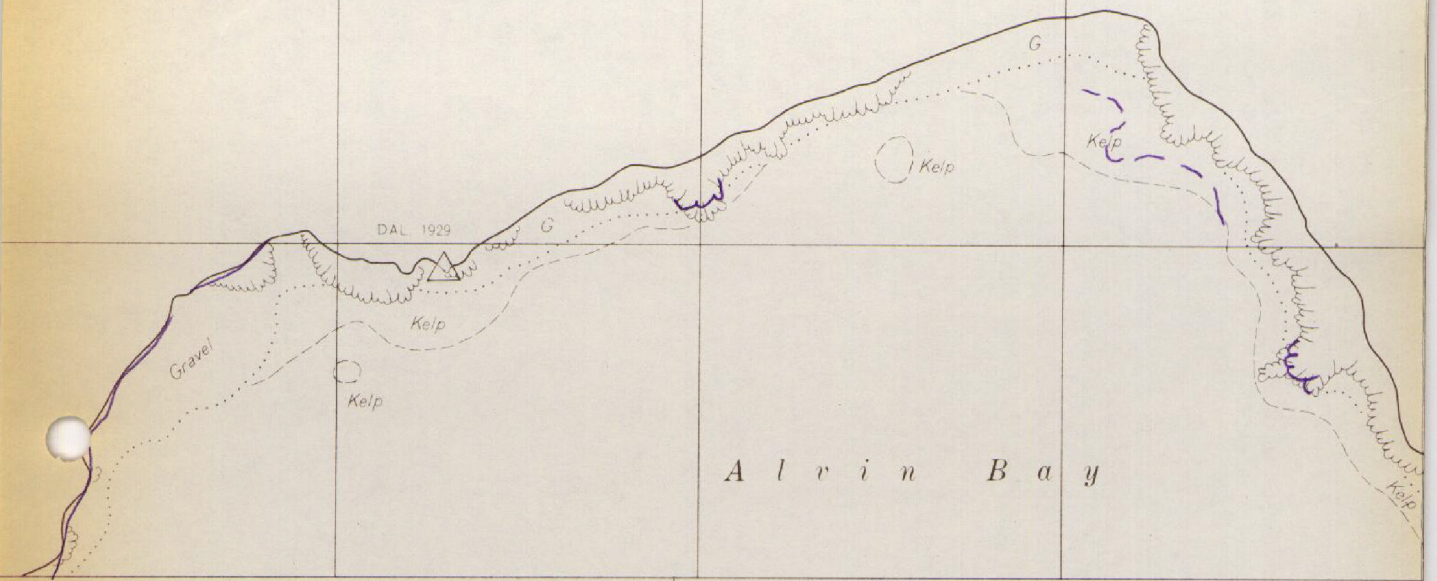
56°27'30"

COMPARISON PRINT

Purple = H-9101

T-12222
1:10,000





54'00"

s = 2,640,000 FT

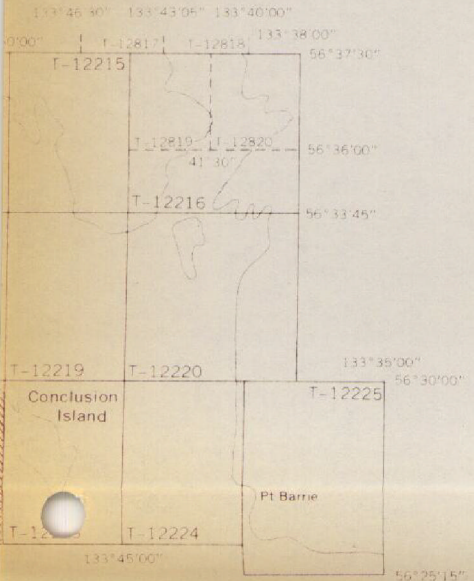
53'30"

133°53'00"

52'

SHEETS JOB PH-6206

NOTE: Unlabeled circles are photogrammetric plot points, not map features



COMPARISON PRINT

Purple = H-9101

T-12222
1:10,000

133° 52' 30"

56° 27' 00"

COMPARISON PRINT

Purple = H-9101

T-12222
1:10,000

53' 00"

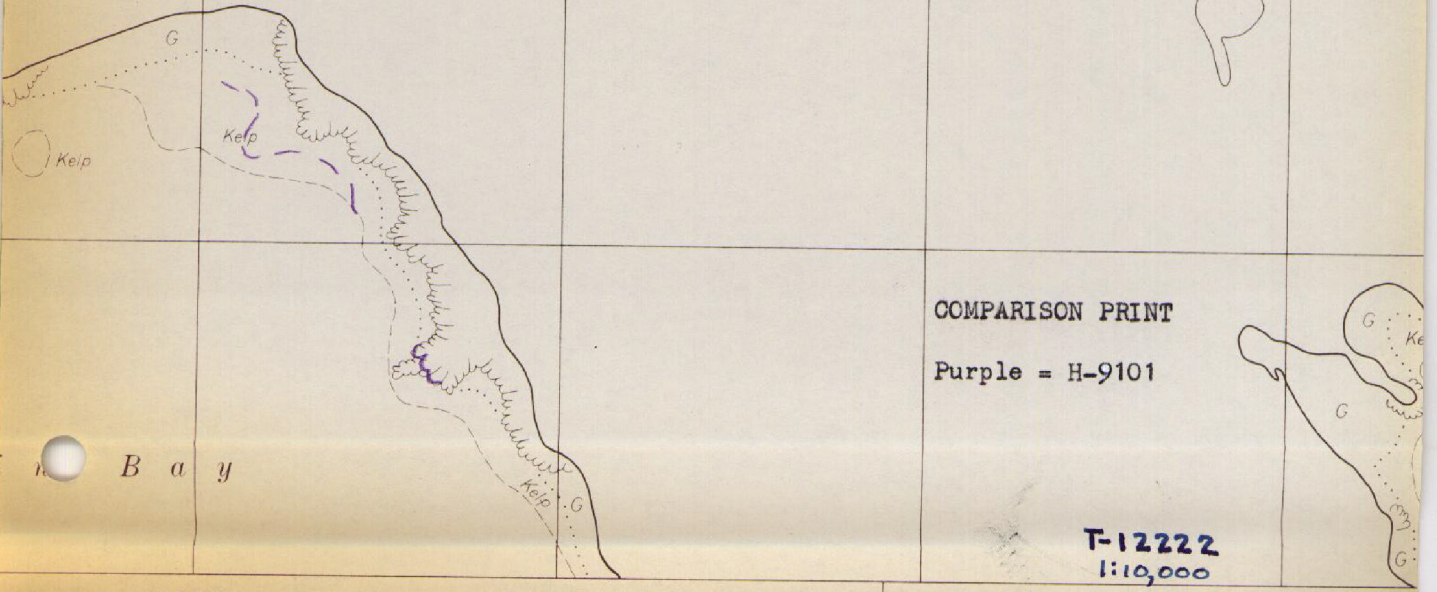
52' 30"

x = 2,645,000 FT

52' 00"

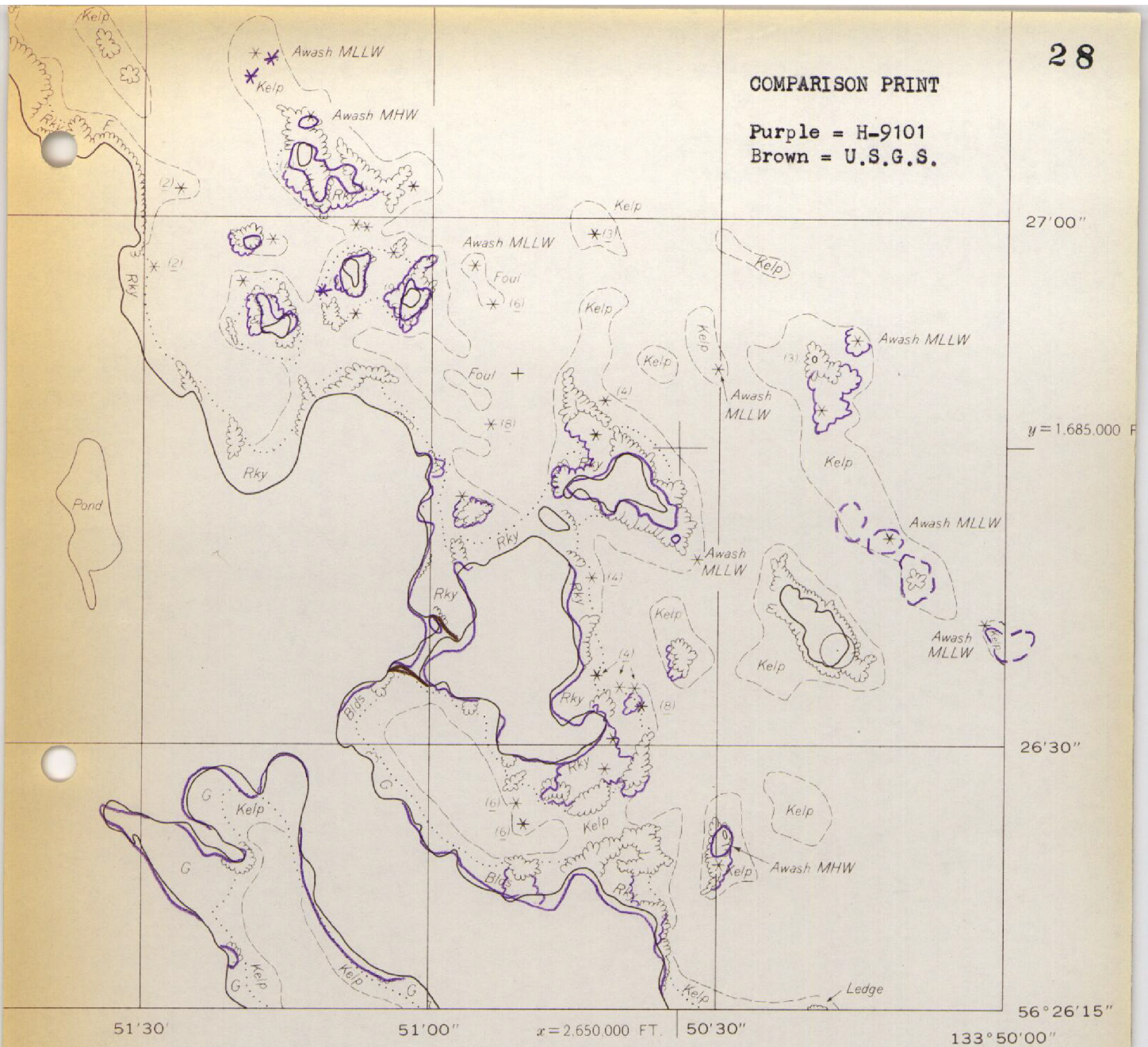
51' 30"

B a y



COMPARISON PRINT

Purple = H-9101
Brown = U.S.G.S.



able horizontal control station of third-order or higher accuracy
 imate mean lower low-water line
 eavy shoreline defines the approximate mean high water.
 led by photogrammetric methods, from aerial photographs
 of Photography July 1961 Aug 1969
 of Field Inspection None
 of Field Edit April 1971
 of Final Compilation May 1972
 of Final Review April 1973

NATIONAL OCEAN SURVEY
 SHORELINE MANUSCRIPT
 T-12222
 ALASKA
 KEKU STRAIT
 ALVIN BAY, MOUTH OF
 SCALE 1:10,000
 (1 inch = 833.33 ft.)
 CONTROL DATA

Polyconic projection: 1927 North American Datum
 5,000 foot grid based on Alaska (Zone 1) plane coordinate system
 Datum plane: Mean High Water