

12221

12221

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-12221.....
<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 Head Of.....	
<hr/> 1961 TO 1971	
Alfred C. Holmes, Director, AMC	
REGISTRY IN ARCHIVES	
DATE	

MAP NOT INSPECTED IN QUALITY CONTROL PRIOR
TO REGISTRATION

DESCRIPTIVE REPORT - DATA RECORD
T-12221

OBJECT NO. (II): PH-6206			
FIELD OFFICE (II): 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, 1969			
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: Sept. 4, 1975	DATE REGISTERED (IV):
GEOGRAPHIC DATUM (III): N.A. 1927		VERTICAL DATUM (III): MEAN LOW WATER HIGH WATER Elevations shown as (25) refer to mean high water Elevations shown as (5) refer to sounding datum i.e., mean low water mean lower low water	
REFERENCE STATION (III): FIN, 1929			
LAT.: 56°29'44.369" (1380.7M)	LONG.: 133°55'06.935 (118.7M)	<input checked="" type="checkbox"/> ADJUSTED <input type="checkbox"/> UNADJUSTED	
PLANE COORDINATES (IV): y = 1,703,077.94 Ft. x = 2,634,738.93 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-12221

FIELD INSPECTION BY (III): None		DATE:
MEAN HIGH WATER LOCATION (III) (STATE DATE AND METHOD OF LOCATION): Air Photo Compilation Date of Photography: Aug. 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 June 11, 1970
CONTROL CHECKED BY (III): Coradomat		DATE June 11, 1970
RADIAL PLOT OR STEREOSCOPIC CONTROL EXTENSION BY (III): Robert E. Esher		DATE Feb. 19, 1970
STEREOSCOPIC INSTRUMENT COMPILATION (III):	PLANIMETRY By: L.O. Neterer, Jr. B.L. Barge	DATE Aug. 25, 1970 Sept. 9, 1970
	CONTOURS Inapplicable	DATE
MANUSCRIPT DELINEATED BY (III): L.O. Neterer, Jr.		DATE Aug. 1970
SCRIBING BY (III):		DATE
PHOTOGRAMMETRIC OFFICE REVIEW BY (III): B. Wilson		DATE Sept. 24, 1970
REMARKS:		

DESCRIPTIVE REPORT - DATA RECORD
T-12221

CAMERA (KIND OR SOURCE) (III):

Wild RC-8 "E"

PHOTOGRAPHS (III)

NUMBER	DATE	TIME	SCALE	STAGE OF TIDE
69-E-(c)-1946	8/24/69	12:54	1:40,000	8.8 ft. above MLLW
61-W-9439 ^a	7/16/61	09:13	1:20,000	0.1 ft. above MLLW
61-W-9452	"	09:23	"	0.1 ft. below MLLW

Predicted TIDE (III)

Diurnal

	RATIO OF RANGES	MEAN RANGE	MIN RANGE
REFERENCE STATION: Ketchikan, Alaska		13.0	15.4
SUBORDINATE STATION: Seclustion Harbor, Kuiu Island, Alaska		10.2	12.3
SUBORDINATE STATION:			

Atlantic Marine Center
WASHINGTON OFFICE REVIEW BY (IV):

C.H. Bishop

DATE:
April 1973

PROOF EDIT BY (IV):

DATE:

NUMBER OF TRIANGULATION STATIONS SEARCHED FOR (II):

1

RECOVERED:

1

IDENTIFIED:

0

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-12221

COMPILATION RECORD

COMPLETION DATE

REMARKS

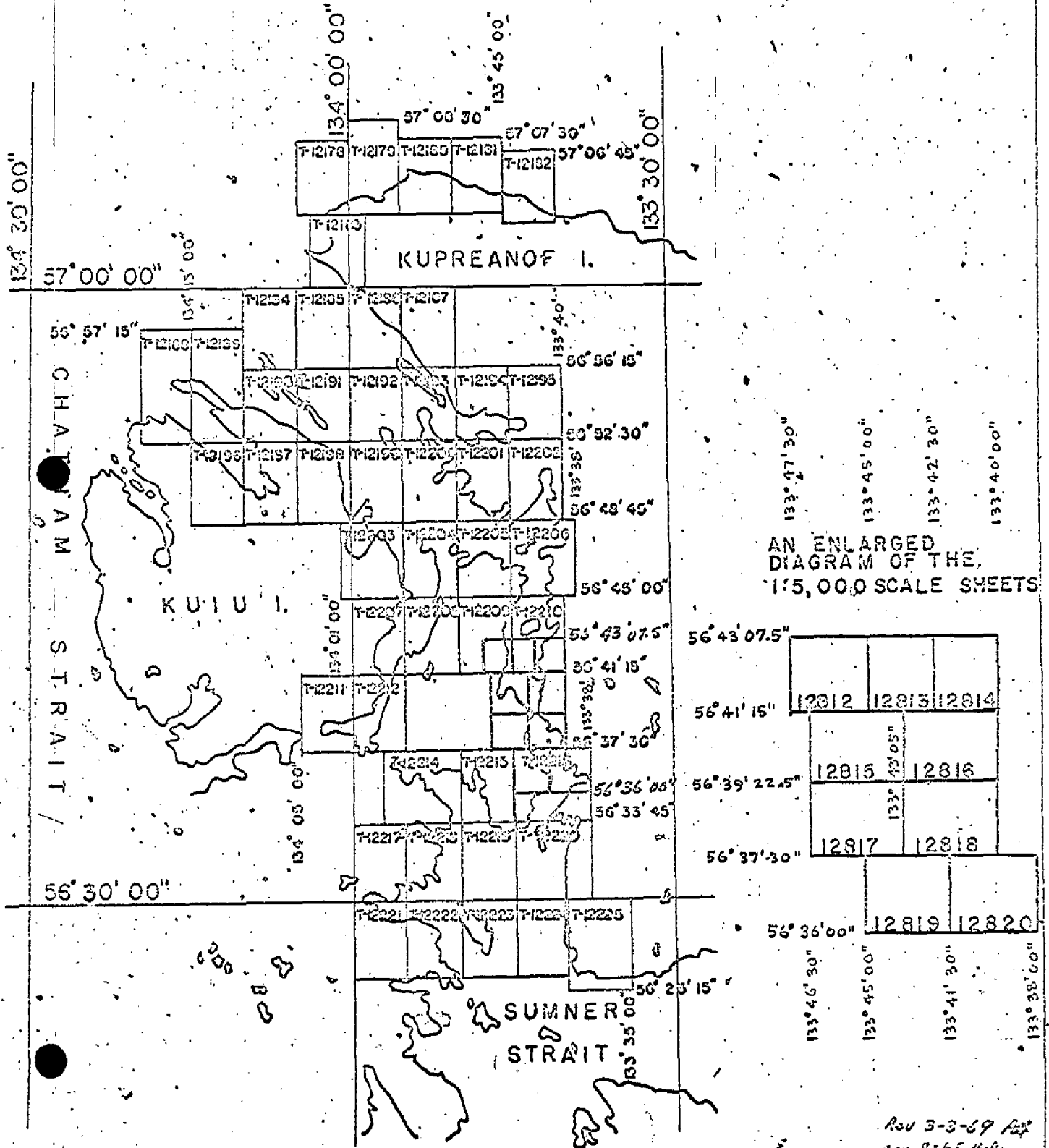
Compilation Complete Pending Field Edit	Sept. 1970	Superseded
Field Edit Applied	Aug. 1971	Superseded
Final Review	April 1973	

SHORELINE MAPPING PROJECT

Ph-6206

KEKU STRAITS, ALASKA

SCALE 110,000



AN ENLARGED
DIAGRAM OF THE
15,000 SCALE SHEETS

56° 43' 07.5"	12812	12813	12814
56° 41' 15"		12815	12816
56° 39' 22.5"			
56° 37' 30"	12817	12818	
56° 36' 00"	12819	12820	

Rev 3-3-69 P&S
Rev. 9-65 H.G.
Revised 1-6-65

SUMMARY TO ACCOMPANY
DESCRIPTIVE REPORT T-12221

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-12221 in the project.

There was no field work before compilation, except the identification of horizontal control for aerotriangulation. 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 east of Long. $133^{\circ} 55' 30''$. There was no low water coverage west of this longitude and no mean lower low water line was mapped. 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 April, 1973. At that time, comparison with USGS Quadrangle PETERSBURG (B-6) and with H-9214 indicated rocks and reefs that were not previously compiled. A study of Photos 70 E(C) contact prints taken at 6.5 feet above MLLW revealed most of these features. They were added to T-12221 by use of the contact color photos in the vertical projector.

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-12221

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.

Sunday _____ at _____ and _____

-2-

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,

John D. Bertram, Jr. for
Robert E. Fisher
Cartographer (Photo)

Approved and forwarded,

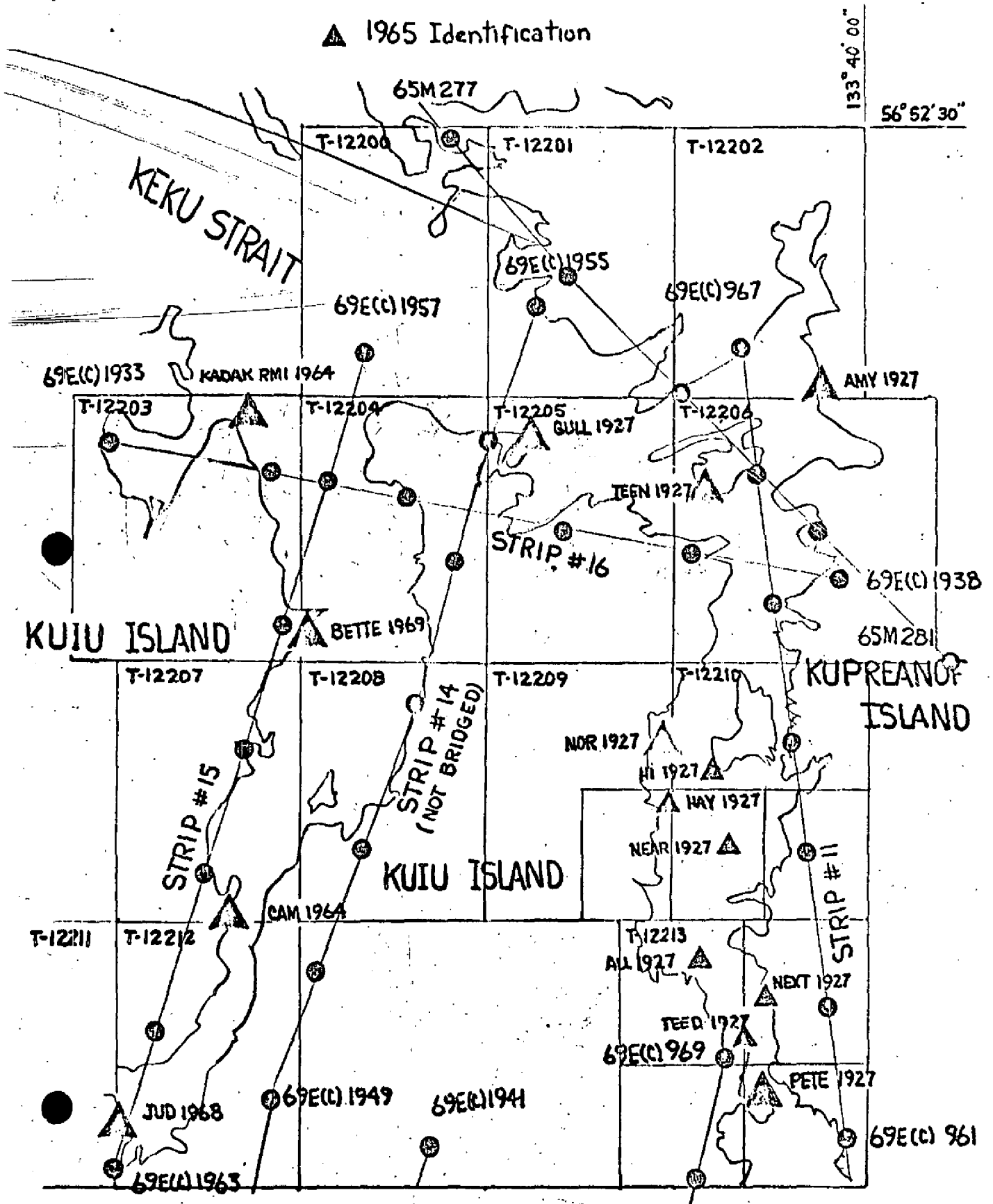
Henry P. Eichert
Henry P. Eichert
Chief, Aerotriangulation
Section

KEKU STRAIT ALASKA

PH 6206 FEB 1970

▲ 1969 Identification

▲ 1965 Identification



KEKU STRAIT ALASKA

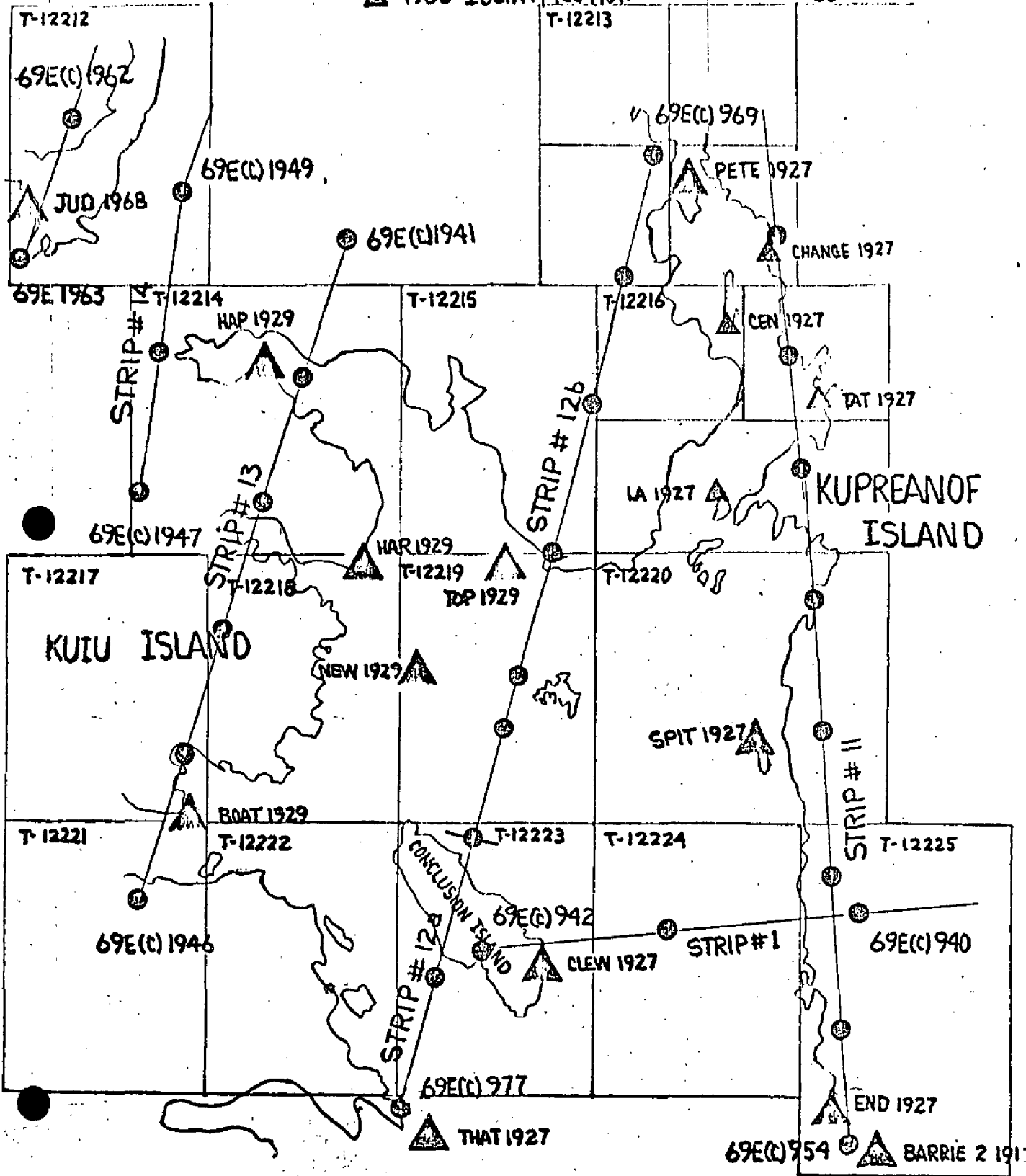
PH 6206

▲ 1969 Identification

▲ 1965 Identification

133° 40' 00"

56° 41' 15"



COMPILATION REPORT

Project PH-6206

T-12221

31. DELINEATION

The mean high water line, pass points for photo-hydro support, and other features that were distinguishable were delineated with the Wild B-8 plotter, using photography of August, 1969, taken at 8.8 feet above MLLW. East of Long. $133^{\circ}55'30''$ ratio prints of low water photographs taken in July, 1961 were used graphically to delineate the MLLW and offshore features not visible in the B-8 models.

32. CONTROL

See Aerotriangulation Report, dated February 19, 1970.

33. SUPPLEMENTAL DATA

That part of Alvin Bay which is within the area of T-12221 was traced from T-10706, Project PH-5702.

34. CONTOURS AND DRAINAGE

Contours are inapplicable. Drainage was done by office interpretation of the photographs.

35. SHORELINE AND ALONGSHORE DETAILS

Shoreline and alongshore details were delineated from office interpretation of the photographs.

36. OFFSHORE DETAILS

Offshore details east of Long. $133^{\circ}55'30''$ were compiled graphically from office interpretation of low-water photography. No low water coverage west of this longitude was available. Therefore, only the features visible on the photos taken at an 8 foot tide stage were mapped. No MLLW line was mapped in this area.

37. LANDMARKS AND AIDS

None

38. CONTROL FOR FUTURE SURVEYS

None

39. JUNCTIONS

Satisfactory junctions were made with T-12217 to the north, T-12222 to the east, and T-10706 (PH-5702) to the south. There was no contemporary survey to the west.

40. HORIZONTAL AND VERTICAL ACCURACY

No statement.

46. COMPARISON WITH EXISTING MAPS

A comparison was made with USGS Quadrangle PETERSBURG (B-6), ALASKA, scale 1:63,360, dated 1948.

47. COMPARISON WITH NAUTICAL CHARTS

A comparison was made with Chart 8201, scale 1:217,828, 11th edition dated March 4, 1963, revised 7/20/64.

ITEMS TO BE APPLIED TO NAUTICAL CHARTS IMMEDIATELY

None

ITEMS TO BE CARRIED FORWARD

None

Submitted:

Charles H. Bishop

for Bernice L. Barge
Cartographic Technician
September 11, 1970

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

August 28, 1972

GEOGRAPHIC NAMES

FINAL NAME SHEET

PH-6206

T-12221

Alvin Bay

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-12221

49. NOTES FOR THE HYDROGRAPHER

None

FORM C&GS-1002 (9-66)		U.S. DEPARTMENT OF COMMERCE ESSA COAST AND GEODETIC SURVEY	
PHOTOGRAMMETRIC OFFICE REVIEW			
T-12221			
1. PROJECTION AND GRIDS BW	2. TITLE BW	3. MANUSCRIPT NUMBERS BW	4. MANUSCRIPT SIZE BW
CONTROL STATIONS			
5. HORIZONTAL CONTROL STATIONS OF THIRD-ORDER OR HIGHER ACCURACY BW	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 BW	11. DETAIL POINTS BW
ALONGSHORE AREAS (Nautical Chart Data)			
12. SHORELINE BW	13. LOW-WATER LINE BW	14. ROCKS, SHOALS, ETC. BW	15. BRIDGES XX
16. AIDS TO NAVIGATION XX	17. LANDMARKS XX	18. OTHER ALONGSHORE PHYSICAL FEATURES BW	19. OTHER ALONGSHORE CULTURAL FEATURES XX
PHYSICAL FEATURES			
20. WATER FEATURES BW		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 BW
CULTURAL FEATURES			
27. ROADS XX	28. BUILDINGS XX	29. RAILROADS XX	30. OTHER CULTURAL FEATURES XX
BOUNDARIES			
31. BOUNDARY LINES XX		32. PUBLIC LAND LINES XX	
MISCELLANEOUS			
33. GEOGRAPHIC NAMES BW		34. JUNCTIONS BW	35. LEGIBILITY OF THE MANUSCRIPT BW
36. DISCREPANCY OVERLAY Field Edit Ozalid BW	37. DESCRIPTIVE REPORT BW	38. FIELD INSPECTION PHOTOGRAPHS XX	39. FORMS BW
40. REVIEWER B. Wilson 9/24/70		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 F.P. Margiotta Aug. 10, 1971		SUPERVISOR	
43. REMARKS Field Edit Applied From: Field Edit Ozalid and Photo 69-E-(c)-1946.			

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 G. 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-12221
 KEKU STRAIT - NO NAME BAY
 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 a photograph. In the area in No Name Bay where there was no low water photographs some rocks awash, reefs, ledges and foul areas were located by hydrographic means on Boat Sheet DA-10-2-71 and are shown on the field edit ozalid and cross referenced to the boat sheet. A copy of the boat sheet will be sent to AMC when available. All times are based on the 105° W meridian. Notes are on the following photographs:

69-E-1946
 61-W-9453

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 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,

for *Warren K. Taguchi*
 Warren K. Taguchi
 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-12221

SHORELINE

April 18, 1973

61. GENERAL STATEMENT

See summary which is page 6 of this Descriptive Report.

62. COMPARISON WITH REGISTERED TOPOGRAPHIC SURVEYS

No registered topographic surveys were available for comparison.

T-12221 supersedes all previous surveys for nautical chart construction purposes.

63. COMPARISON WITH MAPS OF OTHER AGENCIES

A comparison was made with USGS Quadrangle PETERSBURG (B-6), Scale 1:63,360, dated 1948. One difference between this map and T-12221, was shown in brown on the Comparison Print at Lat. 56°29.8' Long. 133°57.6'.

64. COMPARISON WITH CONTEMPORARY HYDROGRAPHIC SURVEYS

A comparison was made with a copy of the boat sheet for Survey H-9214, scale 1:10,000, dated 1971. Shoreline compared well. The base for shoreline was the Incomplete Manuscript for T-12221. Differences between the two surveys are indicated in purple on the comparison print.

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

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

COMPARISON PRINT

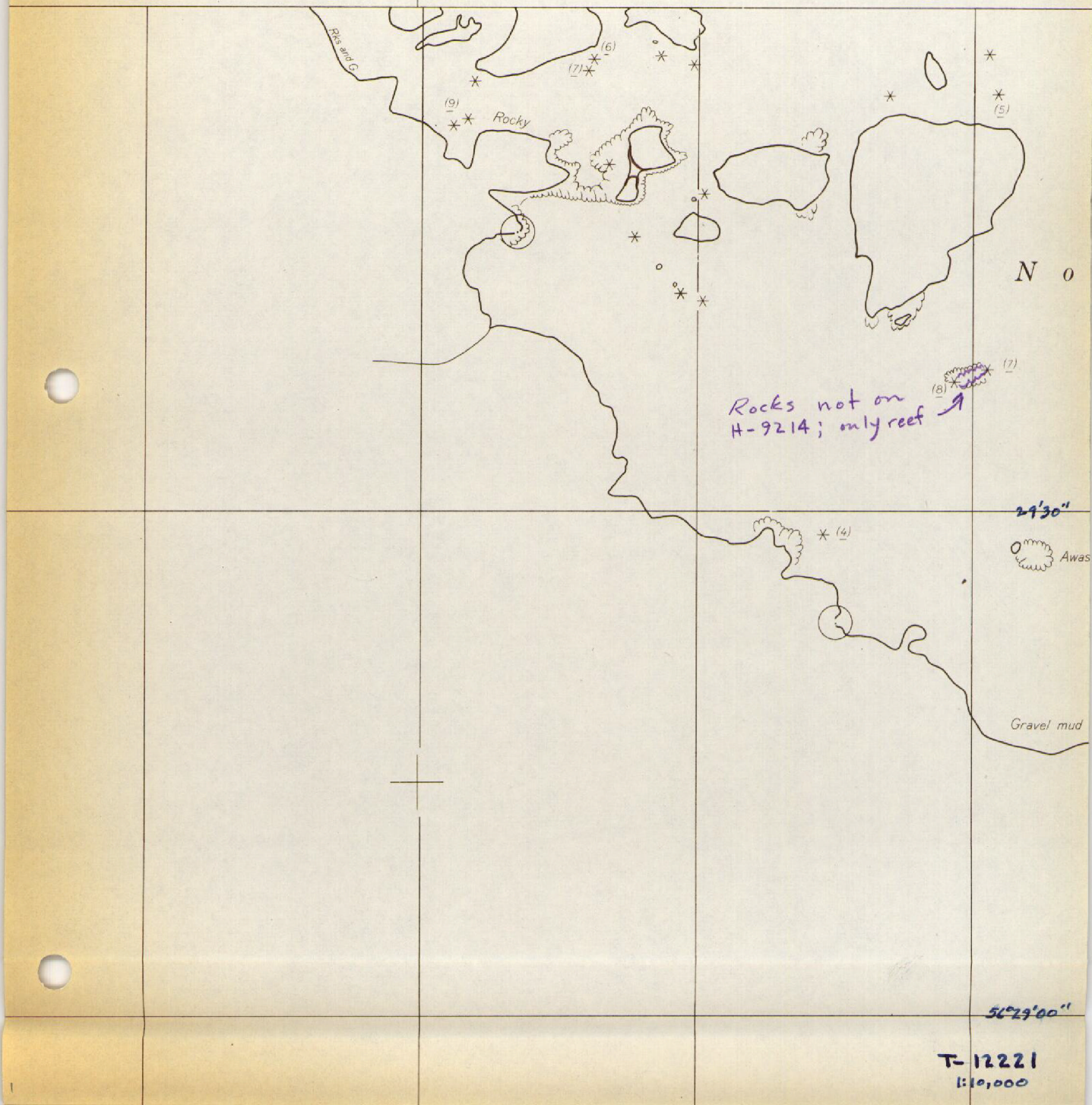
Purple = H-9214
Brown = U.S.G.S.

58'30"

x=2,625,000 FT. | 58'00"

57'30"

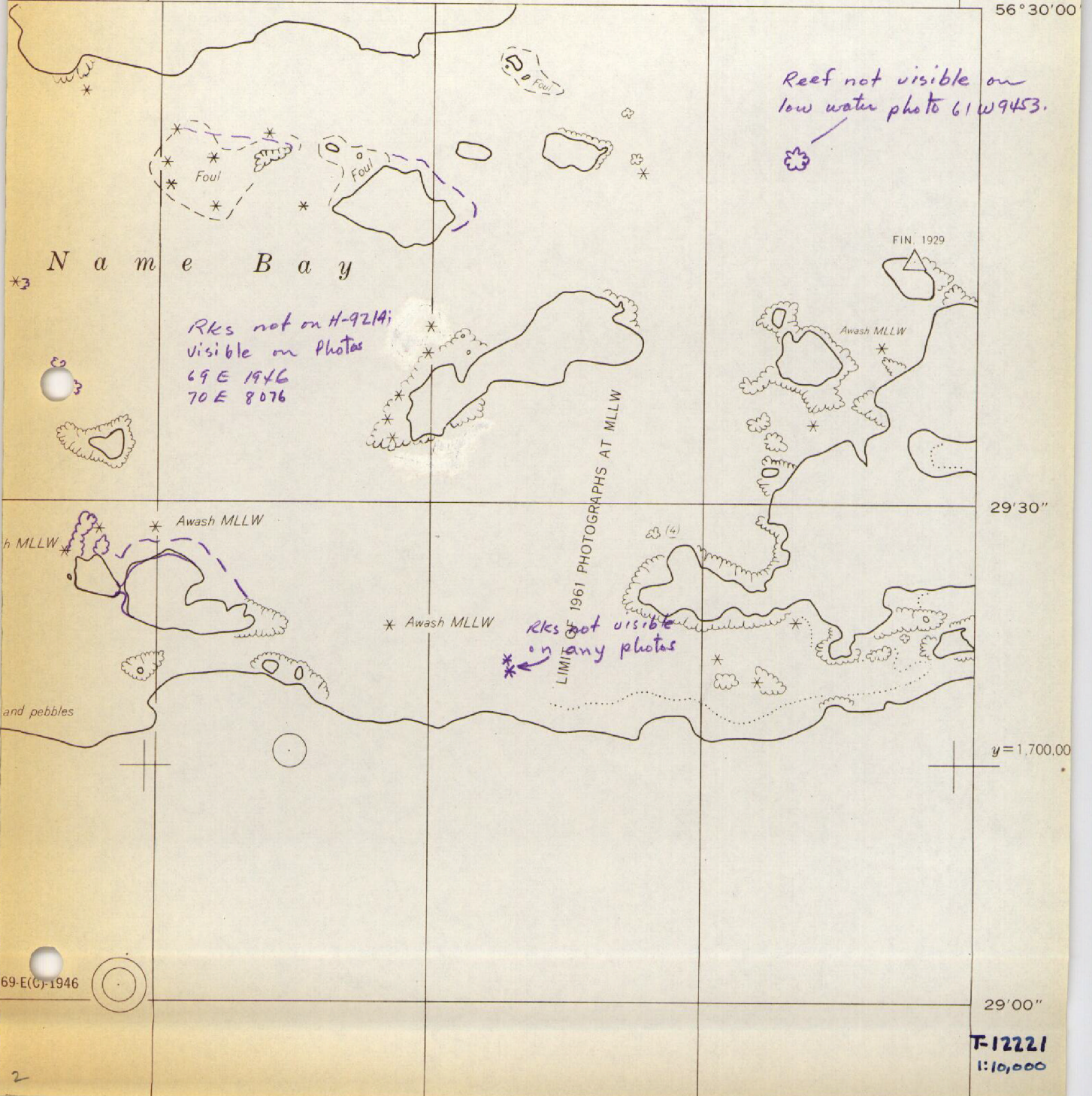
133°57'00"



COMPARISON PRINT

Purple = H-9214

x=2,630,000 FT. 56'30" 56'00" 55'30" x=2,635,000 FT. 133°55'00" 56°30'00"



T-12221
1:10,000