

12223

12223

NOAA FORM 76-35

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

DESCRIPTIVE REPORT

Type of Survey *Shoreline (Photogrammetric)*

Job No. *PH-6206* Map No. *T-12223*

Classification No. *Field Edited* Edition No.

LOCALITY

State *Alaska*

General Locality *Keku Strait*

Locality *Conclusion Island*

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-12223

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		
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	
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): CLEW, 1927		
LAT.: 56° 27' 54.817" (1695.5M)	LONG.: 133° 46' 23.221" (397.6M)	<input checked="" type="checkbox"/> ADJUSTED <input type="checkbox"/> UNADJUSTED
PLANE COORDINATES (IV): y = 1,691,857.82 Ft. x = 2,664,117.23 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-12223

FIELD INSPECTION BY (II): None		DATE:
MEAN HIGH WATER LOCATION (III) (STATE DATE AND METHOD OF LOCATION): Air Photo Compilation - August 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 E. Fisher		DATE Feb. 19, 1970
STEREOSCOPIC INSTRUMENT COMPILATION (III):	PLANIMETRY L.O. Neterer Reviewed By: R. White & A. Gards	DATE Aug. 18, 1970 Aug. 18, 1970
	CONTOURS Inapplicable	DATE
MANUSCRIPT DELINEATED BY (III): B. Wilson		DATE Sept. 2, 1970
SCRIBING BY (III): F. Margiotta		DATE 5/4/72
PHOTOGRAMMETRIC OFFICE REVIEW BY (III): L.L. Graves		DATE Sept. 10, 1970
REMARKS:		

DESCRIPTIVE REPORT - DATA RECORD

T-12223

INSTRUMENT (KIND OR SOURCE) (III):

Wild RC-8 "E"

PHOTOGRAPHS (III)

NUMBER	DATE	TIME	SCALE	STAGE OF TIDE
* 61-W-(p)-9448	July 16, 1961	09:23	1:20,000	-0.1 ft.
* 61-W-(p)-9482 thru 9488	July 16, 1961	09:50	1:20,000	-0.5 ft.
69-E-(c)-975 thru-977	Aug. 5, 1969	12:15	1:40,000	+4.3 ft.

Predicted

TIDE (III)

Diurnal

		RATIO OF RANGES	MEAN RANGE	SPRING RANGE
REFERENCE STATION:	Ketchikan, Alaska		13.0	15.4
SUBORDINATE STATION:				
SUBORDINATE STATION:	Monte Carlo I., Alaska		10.3	12.5
Atlantic Marine Center WASHINGTON OFFICE REVIEW BY (IV):	Charles H. Bishop	DATE: April 1973		
PROOF EDIT BY (IV):		DATE:		
NUMBER OF TRIANGULATION STATIONS SEARCHED FOR (III):	3	RECOVERED: 3	IDENTIFIED: 2	
NUMBER OF BM(S) SEARCHED FOR (III):	None	RECOVERED: None	IDENTIFIED None	
NUMBER OF RECOVERABLE PHOTO STATIONS ESTABLISHED (III):	None			
NUMBER OF TEMPORARY PHOTO HYDRO STATIONS ESTABLISHED (III):	None			

REMARKS:

* Photographs used for low water detail only.

T-12223

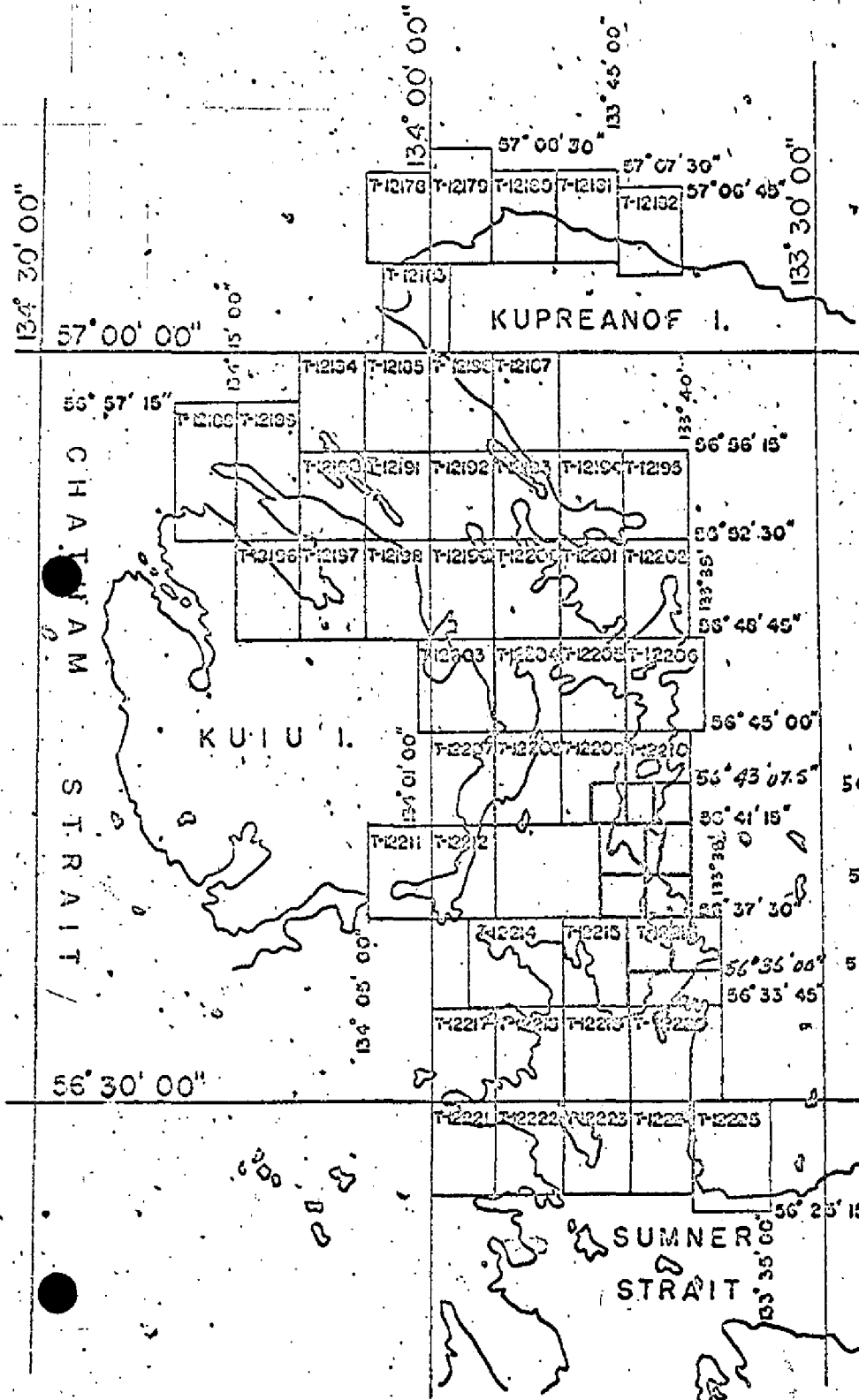
COMPILATION RECORD	COMPLETION DATE	REMARKS
Compilation Complete Pending Field Edit	Sept. 1970	Superseded
Field Edit Applied	July 1971	Superseded
Final Review	April 1973	

SHORELINE MAPPING PROJECT

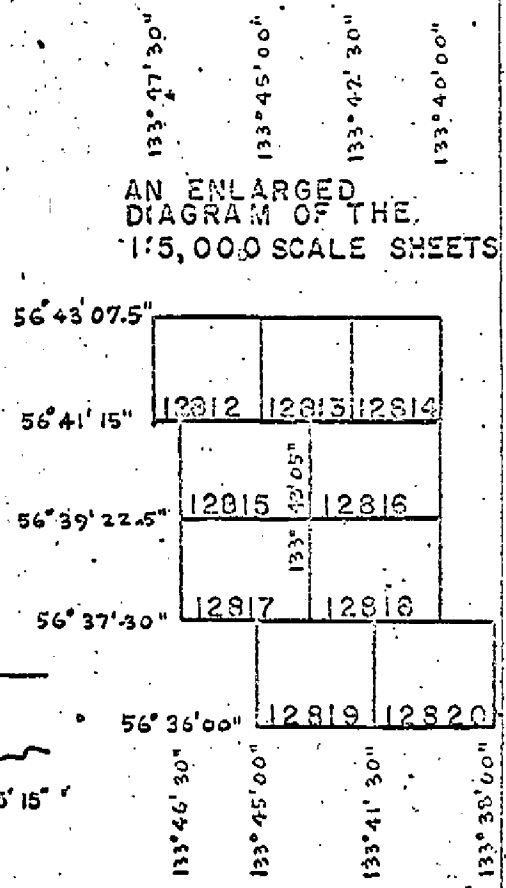
Ph-6206

KEKU STRAITS, ALASKA

SCALE 1:10,000



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



Rev 3-3-59 *LLP*
Rev. 9-65 R.G.
Revised 1-6-65

SUMMARY TO ACCOMPANY
DESCRIPTIVE REPORT T-12223

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-12223 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. 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

JOB PH-6206

T-12223

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.

-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 P. Beranek, Jr. for
Robert E. Fisher
Cartographer (Photo)

Approved and forwarded,

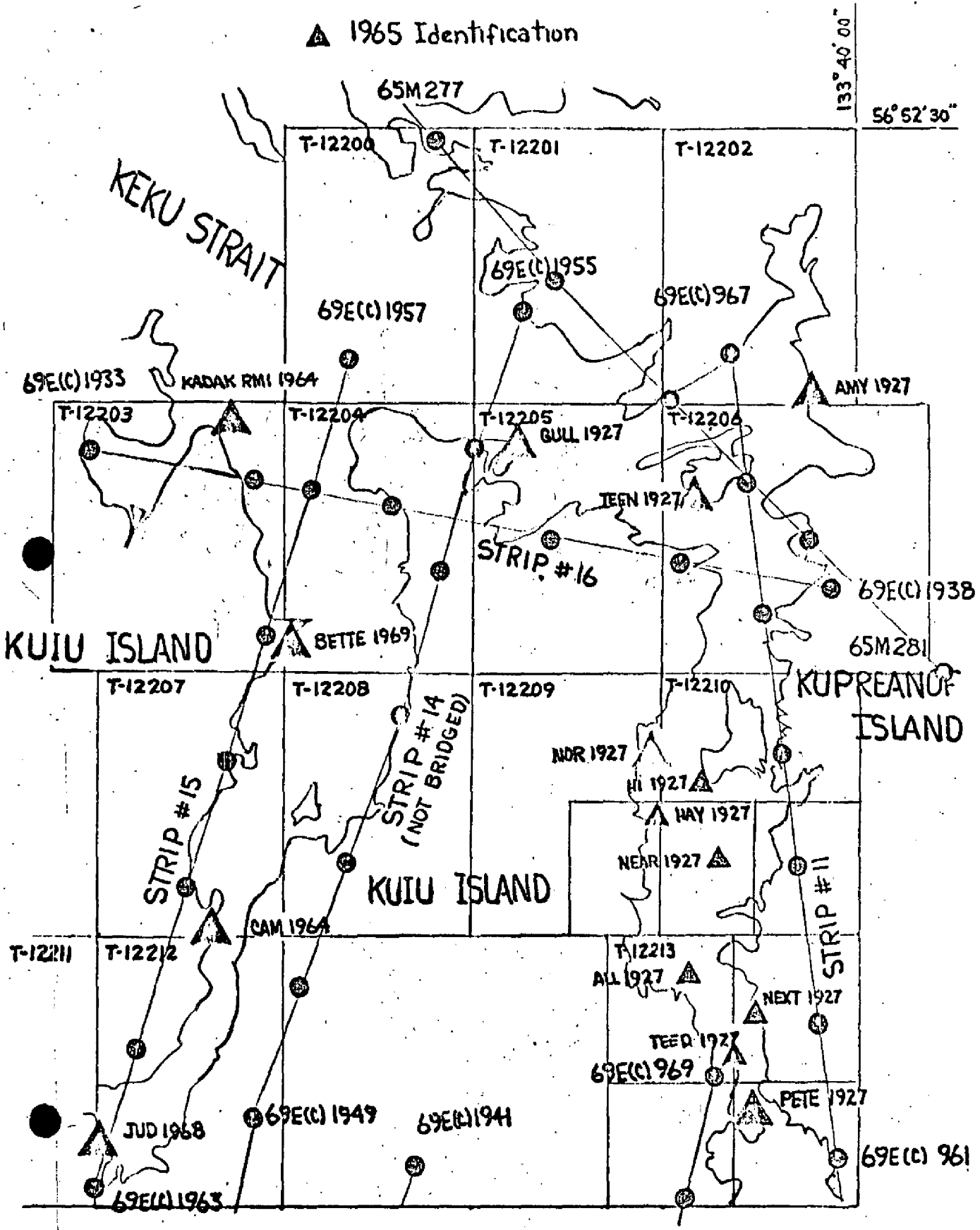
Henry P. Eichert
Henry P. Eichert
Chief, Aerotriangulation
Section

KEKU STRAIT ALASKA

PH 6206 FEB 1970

▲ 1969 Identification

▲ 1965 Identification



KEKU STRAIT ALASKA

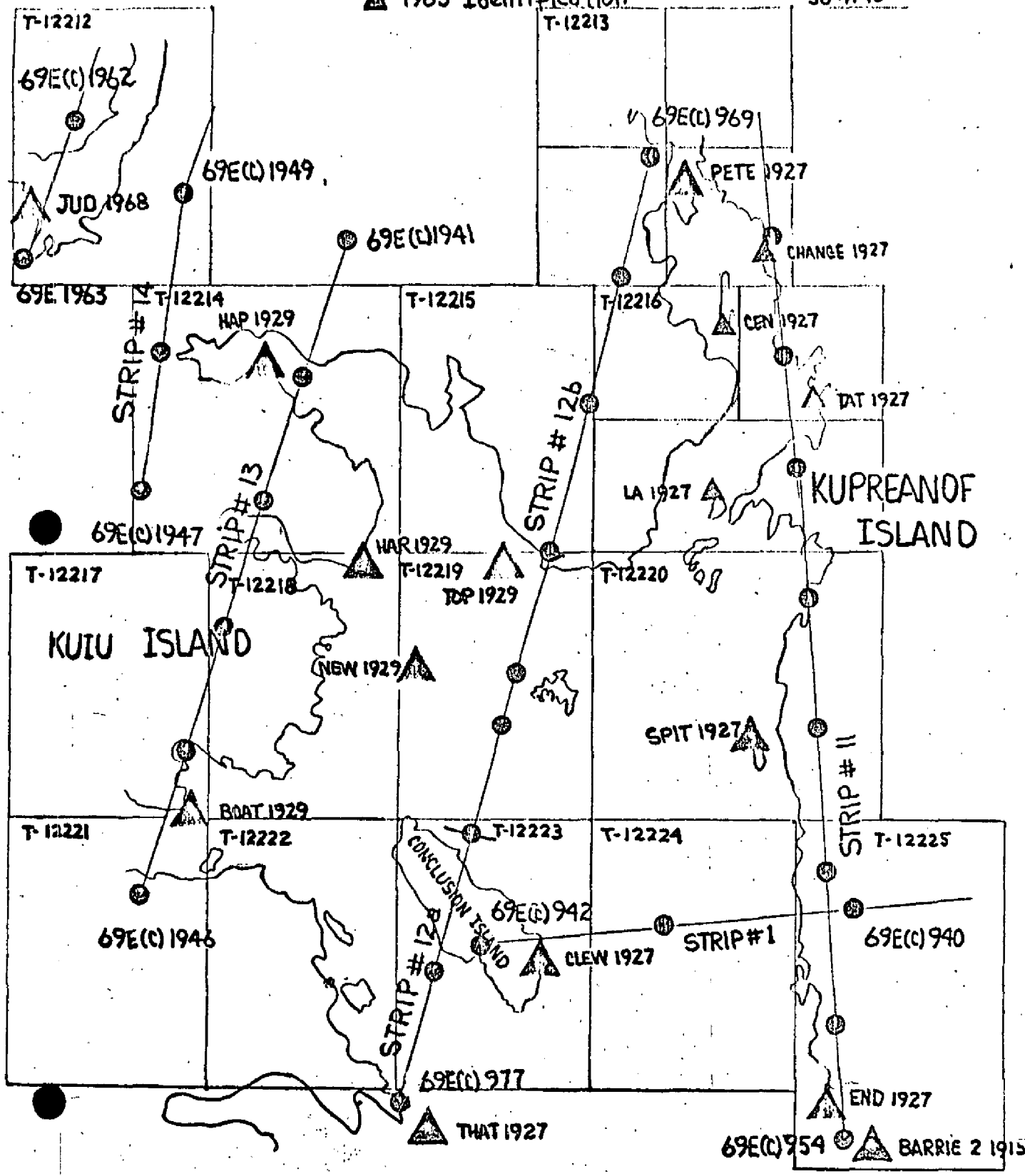
PH 6206

▲ 1969 Identification

▲ 1965 Identification

133° 40' 00"

56° 41' 15"



DESCRIPTIVE REPORT CONTROL RECORD

MAP T-12223

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)	
CLEW, 1927	Vol. 2, Page 362	N.A. 1927	56° 27' 54.817"	1695.5	(160.3)	
	" " " 368	"	133° 46' 23.221"	397.6	(629.8)	
ALL, 1927	" " " 368	"	56° 28' 10.967"	339.2	(1516.7)	
	" " " "	"	133° 49' 03.136"	53.7	(973.6)	
EX, 1927	" " " "	"	56° 29' 01.503"	46.5	(1809.4)	
	" " " "	"	133° 47' 40.540"	693.8	(333.1)	

COMPUTED BY B. Wilson
 CHECKED BY C. Blood
 DATE Aug. 27, 1970
 DATE Aug. 27, 1970
 H
 N

COMPILATION REPORT

T-12223

31. DELINEATION

The Wild B-8 plotter was used. The photography was satisfactory. There was no field inspection.

32. CONTROL

See Aerotriangulation Report, dated Feb. 19, 1970.

33. SUPPLEMENTAL DATA

None

34. CONTOURS AND DRAINAGE

Contours are inapplicable. Drainage has been delineated from office interpretation of the photos.

35. SHORELINE AND ALONGSHORE DETAILS

The shoreline and alongshore details were delineated from office interpretation of the photographs; the shoreline primarily from the 1969 photographs, the foreshore from the 1961 photographs.

36. OFFSHORE DETAILS

No statement.

37. LANDMARKS AND AIDS

None

38. CONTROL FOR FUTURE SURVEYS

None

39. JUNCTIONS

Satisfactory junctions have been made with T-12222 to the west, T-12224 to the east, T-12219 to the north, and T-10708 (Job 5702) to the south.

40. HORIZONTAL AND VERTICAL ACCURACY

No statement.

41 through 45: Not used.

46. COMPARISON WITH EXISTING MAPS

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

47. COMPARISON WITH NAUTICAL CHARTS

Comparison has been made with Chart 8201, scale 1:217,828, 11th edition, March 4, 1963, revised July 20, 1964.

ITEMS TO BE APPLIED TO NAUTICAL CHARTS IMMEDIATELY

None

ITEMS TO BE CARRIED FORWARD

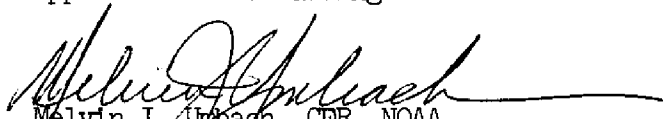
None

Respectfully submitted,


Charles H. Bishop

for B. Wilson
Cartographic Technician
Sept. 2, 1970

Approved for forwarding:


Melvin J. Urbach, 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-12223

Conclusion Island

Keku Strait

Approved by:

A. J. Wright
A. Joseph Wright
Chief Geographer

Prepared by:

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

FORM C&GS-1002 (9-66)		U.S. DEPARTMENT OF COMMERCE ESSA COAST AND GEODETIC SURVEY	
PHOTOGRAMMETRIC OFFICE REVIEW T-12223			
1. PROJECTION AND GRIDS LLG	2. TITLE LLG	3. MANUSCRIPT NUMBERS LLG	4. MANUSCRIPT SIZE LLG
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 XX	9. PLOTTING OF SEXTANT FIXES XX	10. PHOTOGRAMMETRIC PLOT REPORT Rockville Science Center	11. DETAIL POINTS LLG
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	18. OTHER ALONGSHORE PHYSICAL FEATURES LLG	19. OTHER ALONGSHORE CULTURAL FEATURES LLG
PHYSICAL FEATURES			
20. WATER FEATURES LLG	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 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		SUPERVISOR, REVIEW SECTION OR UNIT Albert 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 Reviewed By: T.J. Bulfer		July 22, 71	SUPERVISOR Albert C. Rauck, Jr.
43. REMARKS Field Edit Applied From: 1971 Field Edit Ozalid; Photos 61-W-9483, 61-W-9486, 61-W-9447, and a page-size tracing from H-9101 (PA-10-3-65).			

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 O. Keterer 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-12223
KEKU STRAIT
SOUTHEAST ALASKA
APRIL 1971

The field edit of map T-12223 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-9486
61-W-9447

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-12223

SHORELINE

April 25, 1973

61. GENERAL STATEMENT

See Summary which is page 6 of this Descriptive Report.

62. COMPARISON WITH REGISTERED TOPOGRAPHIC SURVEYS

A comparison was made with Survey No. 4330, 1:20,000 scale, dated Sept. 1 - Oct. 15, 1927. Differences between this old plane-table survey and T-12223 were shown in blue on the comparison print.

T-12223 supersedes 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 between the two surveys.

64. COMPARISON WITH CONTEMPORARY HYDROGRAPHIC SURVEYS

North of Lat. 56°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. The Incomplete Manuscript for T-12223 was the base map for shoreline in this area. The comparison was good.

South of Lat. 56°28'45" a comparison was made with a copy of the boat sheet for 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 these hydrographic surveys and T-12223 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

Charles H. Bishop
Cartographer

Approved for forwarding:

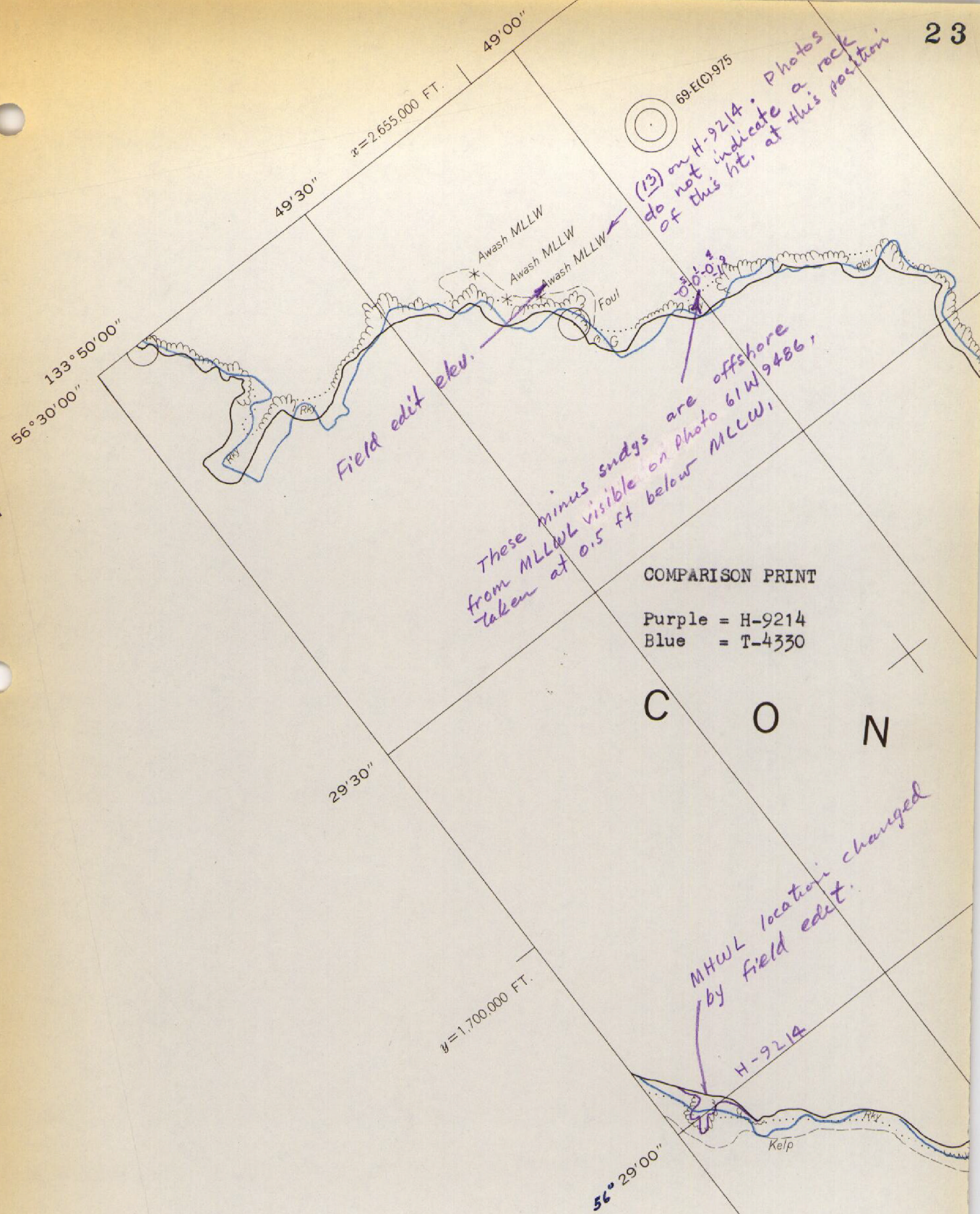
Melvin J. Umbach
Melvin J. Umbach, CDR, NOAA
Chief, Coastal Mapping Division, AMC

Approved:

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

Approved:

Chief, Photogrammetric Branch Chief, Coastal Mapping Division



49'30" x=2,655,000 FT.
49'00"

69-EC-975
(13) on H-9214. Photos do not indicate a rock of this ht. at this position.

Field edit elev.

These minus snags are offshore from MLLW visible on Photo 61W9486, taken at 0.5 ft below MLLW,

COMPARISON PRINT

Purple = H-9214
Blue = T-4330

C O N

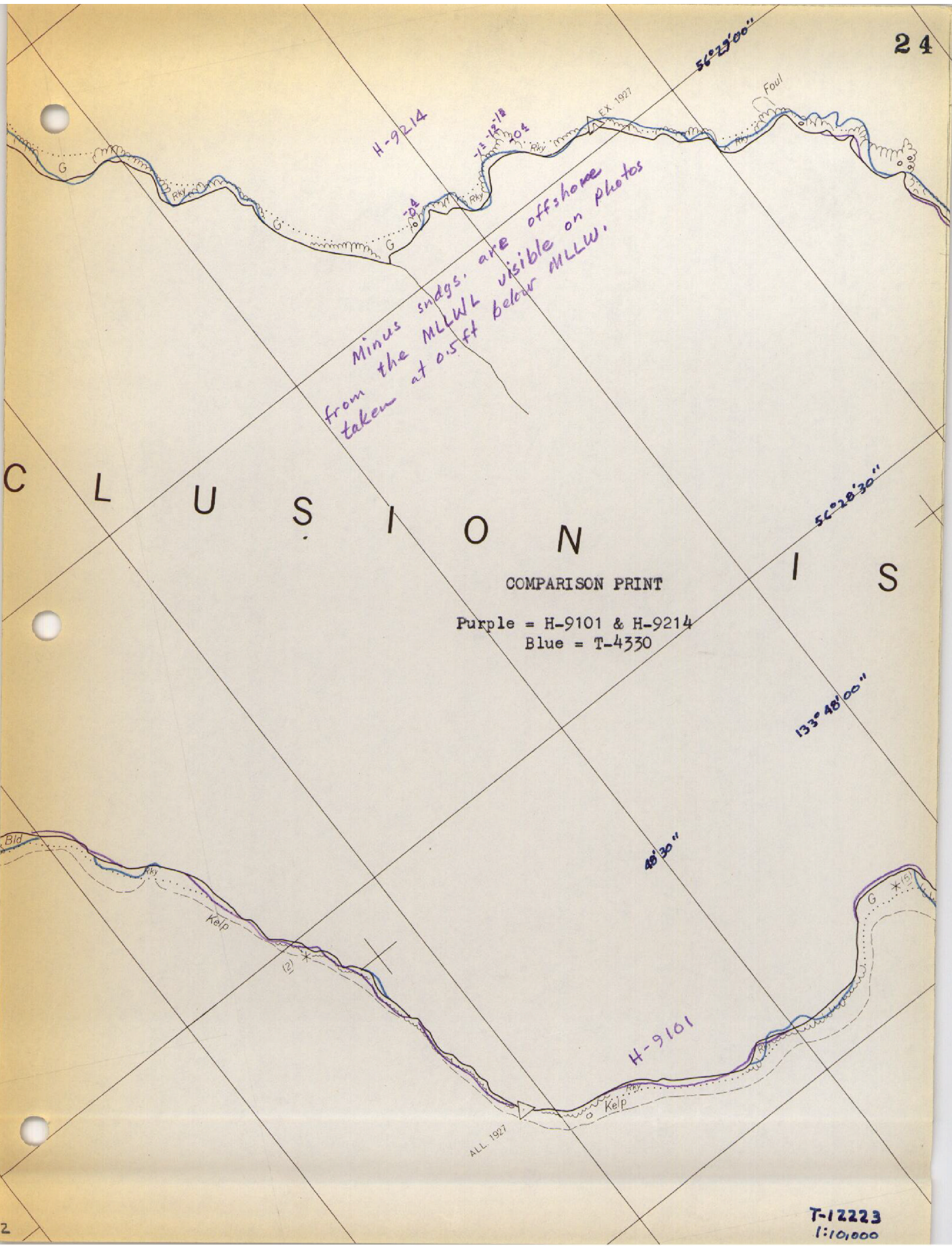
MHWL location changed by field edit.

H-9214

y=1,700,000 FT.

56°29'00"

*Minus snags, are offshore
from the MLLWL visible on photos
taken at 0.5 ft below MLLW.*



C L U S I O N I S

COMPARISON PRINT

Purple = H-9101 & H-9214
Blue = T-4330

H-9214

H-9214

EX 1927

Foul

-0.4

ALL 1927

H-9101

133° 48' 00"

T-12223
1:10,000



L A N D

COMPARISON PRINT

Purple = H-9101
 Blue = T-4330

NOTE:
 location and delineation of features
 high-water line on this survey
 final. The contemporary
 the area where available,
 delineation.

T-12223
 1:10,000

3