ORIGINAL

12216

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-12216

Classification No. Field Edited *Edition No.*

LOCALITY

State Alaska

General Locality Keku Strait

Locality Eagle Island

1961 TO 1969

Alfred C. Holmes, Director, AMC

REGISTRY IN ARCHIVES

DATE

☆ U.S. GOVERNMENT PRINTING OFFICE: 1972-760-593

12216

MAP NOT INSPECTED IN QUALITY CONTROL PRIOR

TO REGISTRATION

FORM C&GS-181a
(3-66)

U.S. DEPARTMENT OF COMMERCE
ENVIRONMENTAL SCIENCE SERVICES ADMINISTRATION
COAST AND GEODETIC SURVEY

1

DESCRIPTIVE REPORT - DATA RECORD

T-12216

PROJECT NO. (II):

PH-6206

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

INSTRUCTIONS DATED (II) (III):

Office Supplement III December 19, 1967
Office Supplement IV April 14, 1970

METHOD OF COMPILATION (III):

Wild B-8

MANUSCRIPT SCALE (III):	STEREOSCOPIC PLOTTING INSTRUMENT SCALE (III):
1:10,000	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):	VERTICAL DATUM (III):
N.A. 1927	MEAN MHW 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):

CEN, 1927

LAT.:	LONG.:	
56°36'48.190" 1490.6m	133°41'51.881" 884.9m	[X] ADJUSTED [ ] UNADJUSTED

PLANE COORDINATES (IV):	STATE	ZONE
Y = 1,745,965.30 Ft. X = 2,679,383.10 Ft.	Alaska	1

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.

USCOMM-DC 36393-P66

FORM C&GS-181b
(3-66)

U.S. DEPARTMENT OF COMMERCE
ENVIRONMENTAL SCIENCE SERVICES ADMINISTRATION
COAST AND GEODETIC SURVEY

DESCRIPTIVE REPORT - DATA RECORD

T-12216

FIELD INSPECTION BY (II): None	DATE:
MEAN HIGH WATER LOCATION (III) (STATE DATE AND METHOD OF LOCATION): AirPPhoto Compilation Date of Photography- July 16, 1961 Aug. 5, 1969	
PROJECTION AND GRIDS RULED BY (IV): J. Dempsey - Coradomat	DATE: April 10, 1970
PROJECTION AND GRIDS CHECKED BY (IV): Emil Homick - Coradomat	DATE: April 10, 1970
CONTROL PLOTTED BY (III): Aerotriangulation - Coradomat Triangulation - L.O. Neterer, Jr.	DATE: April 10, 1970 July 2, 1970
CONTROL CHECKED BY (III): Aerotriangulation - Coradomat Triangulation - C. Blood	DATE: April 10, 1970 July 2, 1970
RADIAL PLOT OR STEREOSCOPIC CONTROL EXTENSION BY (III):	DATE:
STEREOSCOPIC INSTRUMENT COMPILATION (III): PLANIMETRY: L.O. Neterer, Jr. Checked:By: A.C. Rauck, Jr.	DATE: July 2, 1970 July 2, 1970
CONTOURS: Inapplicable	DATE:
MANUSCRIPT DELINEATED BY (III): Charles E. Blood	DATE: August 14, 1970
SCRIBING BY (III):	DATE:
PHOTOGRAMMETRIC OFFICE REVIEW BY (III): Compilation	DATE: Sept. 30, 1971
REMARKS: Field Edit By: Gregory L. Miller	DATE: Oct. 9, 1971

USCOMM-DC 36393-P66

FORM C&GS-181c (3-66)

U.S. DEPARTMENT OF COMMERCE
ENVIRONMENTAL SCIENCE SERVICES ADMINISTRATION
COAST AND GEODETIC SURVEY

3

DESCRIPTIVE REPORT - DATA RECORD

T-12216

CAMERA (KIND OR SOURCE) (III):

RC-8 "E" & "W"

PHOTOGRAPHS (III)

NUMBER	DATE	TIME 120W	SCALE	STAGE OF TIDE
69-E-(c)-959 & 960	Aug. 5, 1969	12:02	1:40,000	4.5 ft. above MLLW
61-W-9541 thru 9543	July 16, 1961	10:25	1:20,000	0.2 ft. below MLLW
61-W-9629 and 9630	July 16, 1961	11:29	1:20,000	1.4 ft. above MLLW
61-W-9505	July 16, 1961	10:09	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: Monte Carlo Island, Keku Strait		10.3	12.5
SUBORDINATE STATION:			

Atlantic Marine Center
[redacted] REVIEW BY (IV): C.H. Bishop — DATE: March 1973

PROOF EDIT BY (IV): — DATE:

NUMBER OF TRIANGULATION STATIONS SEARCHED FOR (II):	5	RECOVERED: 5	IDENTIFIED: 5
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:

USCOMM-DC 36393C-P66

T-12216

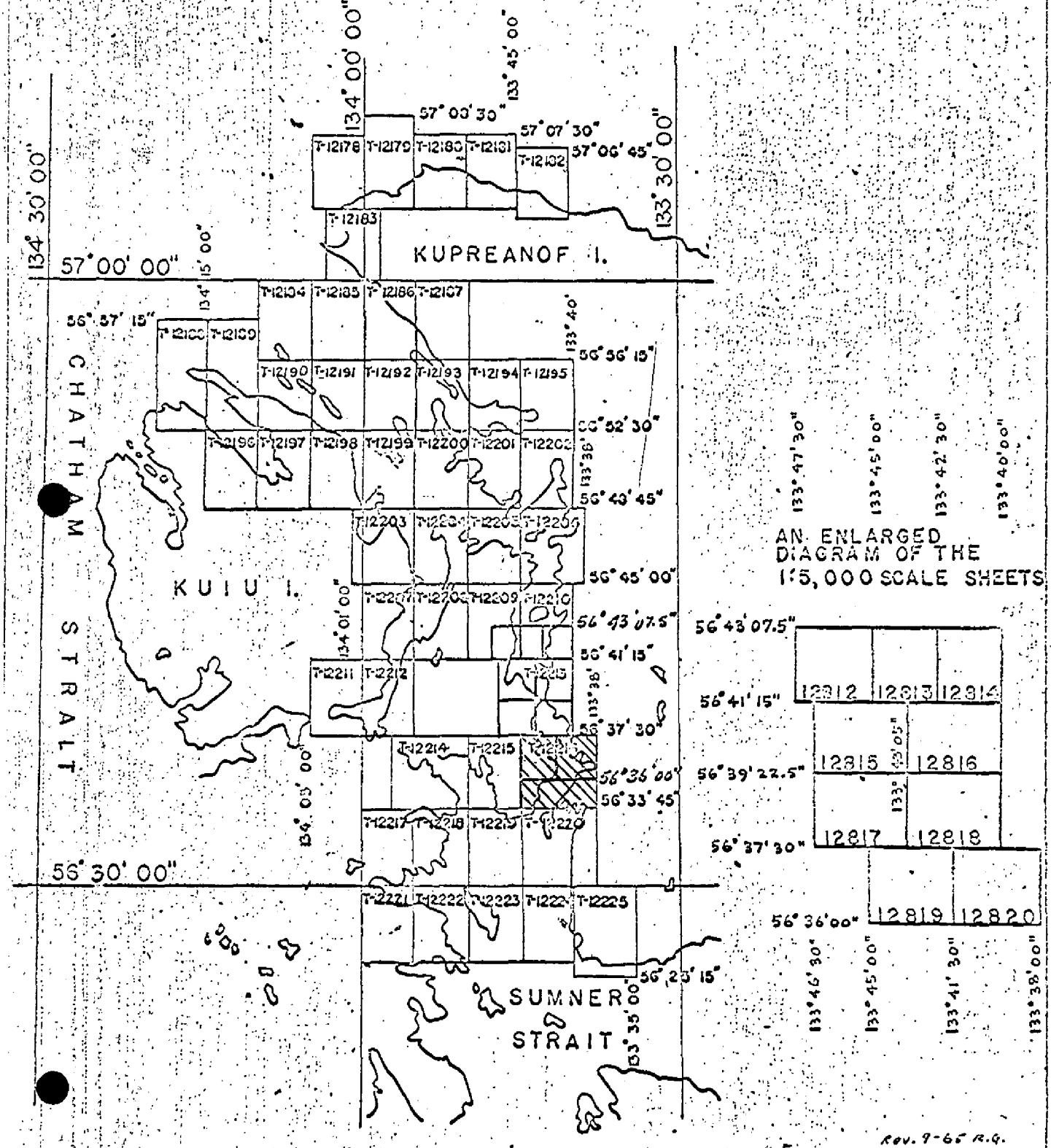
COMPILATION RECORD	COMPLETION DATE	REMARKS
Compilation Complete Pending Field Edit	August 1970	Superseded
Field Edit Applied	Sept. 1971	Superseded
Final Review	March 1973	

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.Q.
Revised 1-6-65

A.R.

SUMMARY TO ACCOMPANY

DESCRIPTIVE REPORT T-12216

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-12216 in the project.

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

Only the area south of Lat. 56°36'00" was compiled on T-12216. The area north of that latitude was compiled at 1:5,000 scale on T-12819 and T-12820. Compilation was by Wild B-8 Plotter and graphic methods, using panchromatic photographs.taken in 1969. 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. See Final Review Report, Item 61.

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 7 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-12216

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
Cartographer (Photo)

Approved and forwarded,

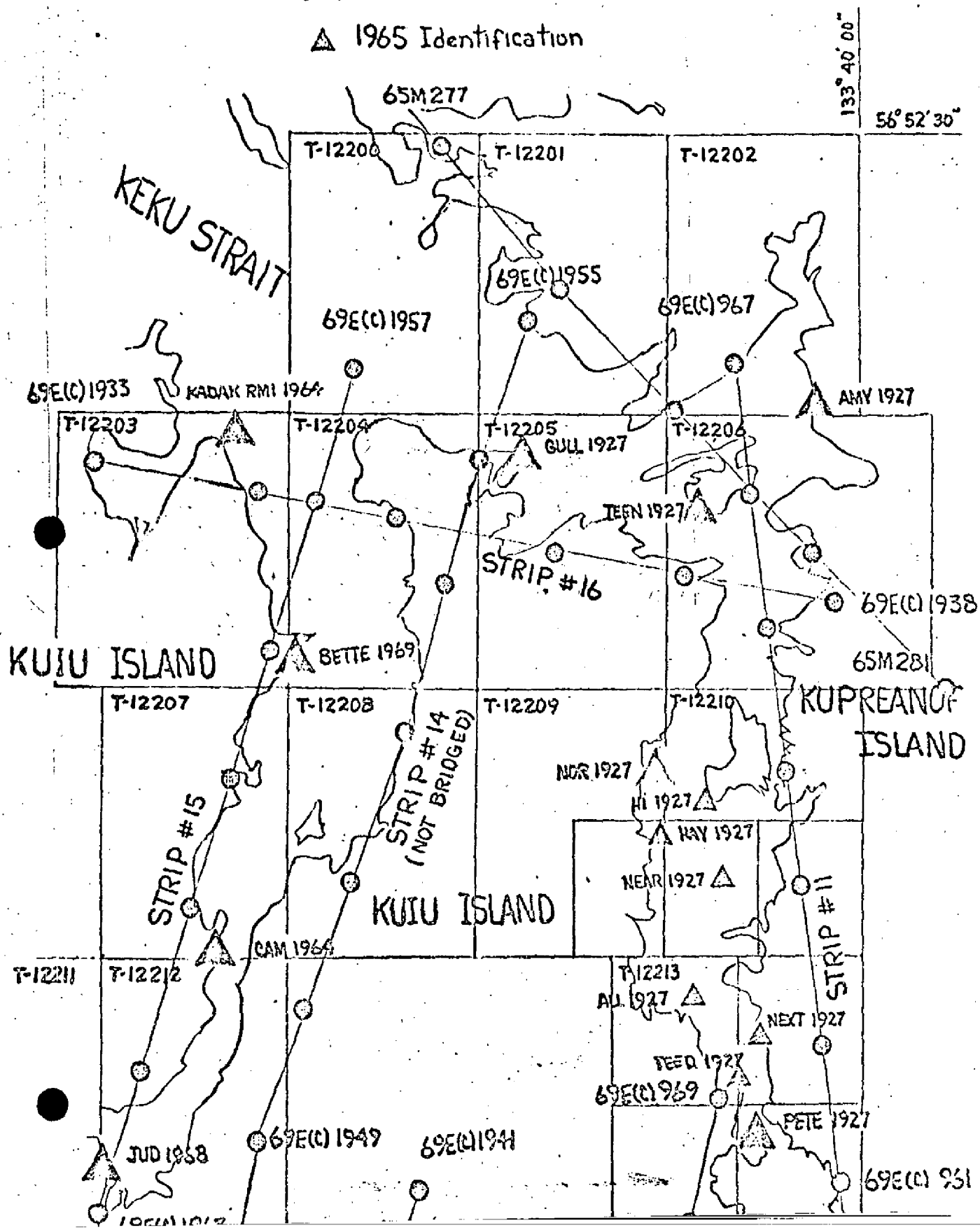
Henry P. Eichert
Chief, Aerotriangulation
Section

KEKU STRAIT ALASKA

PH 6206 FEB 1970

△ 1969 Identification

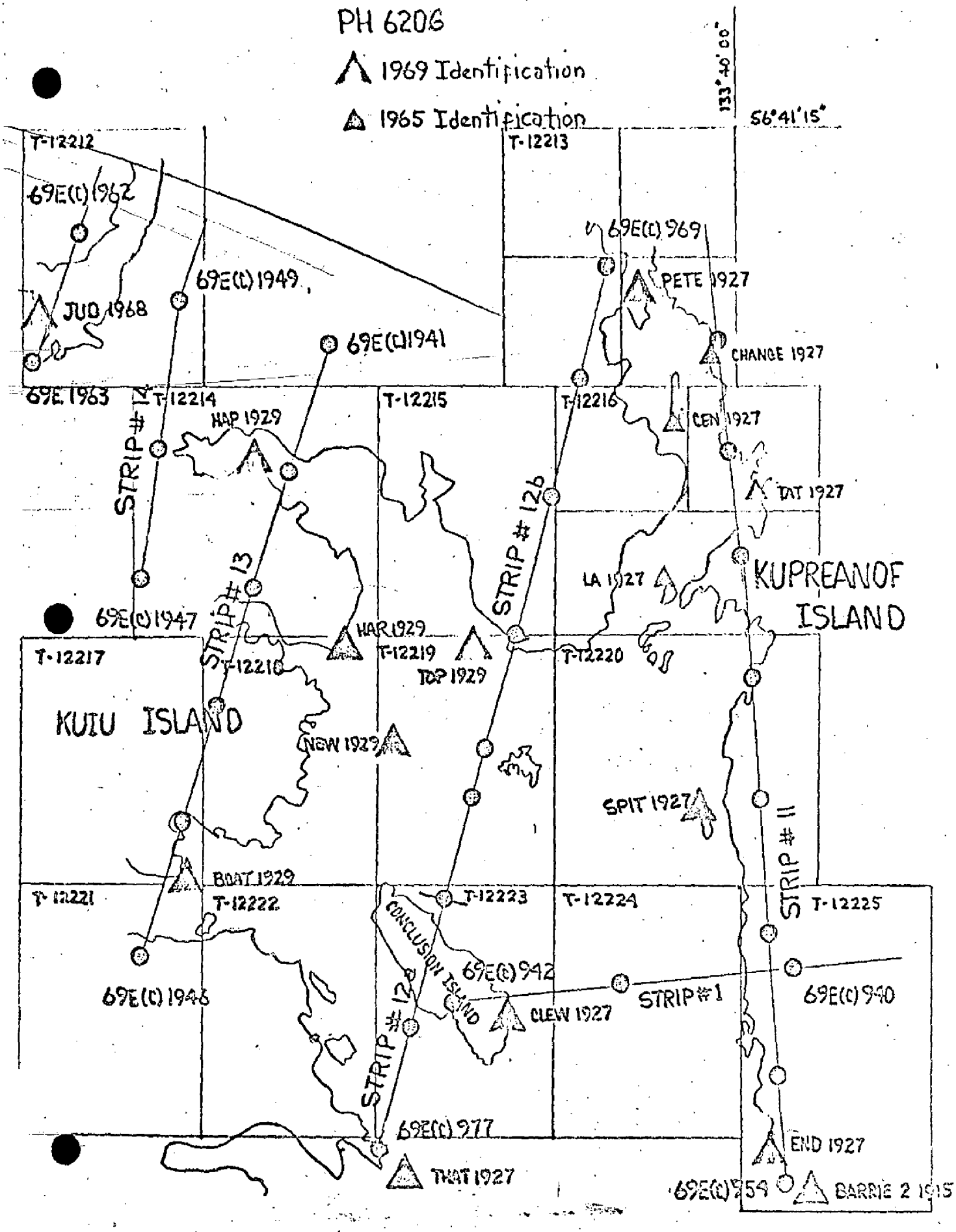
△ 1965 Identification



KEKU STRAIT ALASKA
PH 6206

△ 1969 Identification

△ 1965 Identification



FORM C&GS-164
(4-68)
USCOMM-DC
50318-P68

U.S. DEPARTMENT OF COMMERCE
ENVIRONMENTAL SCIENCE SERVICES ADMINISTRATION
COAST AND GEODETIC SURVEY

DESCRIPTIVE REPORT CONTROL RECORD

MAP T- 12216 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	N.A. 1927 - DATUM DISTANCE FROM GRID OR PROJECTION LINE IN METERS (1 Ft. = 3048006 meter) FORWARD	(BACK)
CEN 1927	G.P. Vol. 2 P. 366	N.A. 1927	56° 36' 48.190"	1490.6	(365.3)
			133° 41' 51.881"	884.9	(138.5)
DEL 1927	G.P. Vol. 2 P. 362	"	56° 35' 15.892"	491.6	(1364.3)
			133° 42' 27.638"	471.7	(552.4)
LA 1927	G.P. Vol. 2 P. 362	"	56° 34' 37.961"	1174.2	(681.7)
			133° 42' 10.412"	177.8	(846.6)
LO 1927	G.P. Vol. 2 P. 362	"	56° 35' 12.203"	377.5	(1478.5)
			133° 40' 14.594"	249.1	(775.0)
TAT 1927	G.P. Vol. 2 P. 361	"	56° 35' 52.373"	1620.0	(235.9)
			133° 39' 33.980"	579.8	(444.0)
WAN, 1927	G.P. Vol. 2 P. 361	"	56° 36' 13.146"	406.6	(1449.3)
			133° 41' 20.453"	348.9	(674.7)
ISA, 1927	G.P. Vol. 2 362	"	56° 34' 03.361	104.0	(1751.9)
			133° 43' 34.502"	589.2	(435.4)

COMPUTED BY B.L. Barge DATE 11/29/67 CHECKED BY L.O. Neterer, Jr. DATE 7/2/70

12

COMPILATION REPORT

Project PH-6206

T-12216

31. DELINEATION

Delineation was by Wild B-8 plotter. There was no field inspection prior to compilation. Photographic coverage was adequate.

Ratio photographs of 1961 panchromatic photography was used to delineate rocks, the mean lower low water line, ledge, reef and foul areas. The definition of the 1961 photography was excellent.

32. CONTROL

See Aerotriangulation Report, dated February 19, 1970.

33. SUPPLEMENTAL DATA

None

34. CONTOURS AND DRAINAGE

Contours are inapplicable. Drainage was delineated from office interpretation of 1969 color photography.

35. SHORELINE AND ALONGSHORE DETAILS

The shoreline was delineated from office interpretation of the 1969 color photography, without the aid of field inspection. See Item 31 for low water delineation.

36. OFFSHORE DETAILS

Many small islands, rocks, reefs and foul areas were delineated from both 1969 color and 1961 panchromatic photography. Questionable areas were referred to the field editor for field investigation.

37. LANDMARKS AND AIDS

Form 567 for five fixed aids to navigation dated 16 Sept. 1970 were forwarded to the Washington Science Center by the commanding officer of the NOAA Ship DAVIDSON.

38. CONTROL FOR FUTURE SURVEYS

No statement.

39. JUNCTIONS

Junctions have been made with T-12220 to the south, T-12215 to the west, T-12820 (1:5,000 scale) to the north. There is no contemporary survey to the east.

40. HORIZONTAL AND VERTICAL ACCURACY

No statement.

42. COMPARISON WITH PREVIOUS BUREAU SURVEYS

A comparison was made with Register Number 4330, scale 1:20,000 dated October 15, 1927 and Register Number 4331, scale 1:10,000, dated September, 1927.

43 through 45 are inapplicable.

46. COMPARISON WITH EXISTING MAPS

Comparisons have been made with USGS Quadrangles PETERSBURG (C-5), Alaska dated 1951, with minor revisions in 1965, scale 1:63,360 and PETERSBURG (C-6) Alaska dated 1948, with minor revisions in 1963 scale 1:63,360.

47. COMPARISON WITH NAUTICAL CHARTS

Comparisons have been made with charts 8272, dated October 17, 1966, 3rd edition scale 1:20,000, and 8201 dated November 15, 1969 (corrected through Notice to Mariners 46/69, scale 1:217,828).

ITEMS TO BE APPLIED TO NAUTICAL CHARTS IMMEDIATELY

None

ITEMS TO BE CARRIED FORWARD

None

Submitted by:

C. E. Blood

C. E. Blood
Cartographic Technician
August 14, 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-12216

Eagle Island

Keku Strait

Kuiu Island

Kupreanof Island

Tunehean Creek

Approved by:

A. J. Wraight

A. Joseph Wraight
Chief Geographer

Prepared by:

F. W. Pickett (by A.J.W.)

Frank W. Pickett
Cartographic Technician

T- 12216

9. 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.

FORM C&GS-1002 (9-66)

U.S. DEPARTMENT OF COMMERCE
ESSA
COAST AND GEODETIC SURVEY

PHOTOGRAMMETRIC OFFICE REVIEW

T-12216

1. PROJECTION AND GRIDS	2. TITLE	3. MANUSCRIPT NUMBERS	4. MANUSCRIPT SIZE
LLG	LLG	LLG	LLG

CONTROL STATIONS

5. HORIZONTAL CONTROL STATIONS OF THIRD-ORDER OR HIGHER ACCURACY	6. RECOVERABLE HORIZONTAL STATIONS OF LESS THAN THIRD-ORDER ACCURACY *(Topographic stations)*	7. PHOTO HYDRO STATIONS
LLG	LLG	XX

8. BENCH MARKS	9. PLOTTING OF SEXTANT FIXES	10. PHOTOGRAMMETRIC PLOT REPORT	11. DETAIL POINTS
XX	XX	Rockville Science Center	LLG

ALONGSHORE AREAS *(Nautical Chart Data)*

12. SHORELINE	13. LOW-WATER LINE	14. ROCKS, SHOALS, ETC.	15. BRIDGES
LLG	LLG	LLG	XX

16. AIDS TO NAVIGATION	17. LANDMARKS	18. OTHER ALONGSHORE PHYSICAL FEATURES	19. OTHER ALONGSHORE CULTURAL FEATURES
LLG	XX	LLG	XX

PHYSICAL FEATURES

20. WATER FEATURES	21. NATURAL GROUND COVER	22. PLANETABLE CONTOURS
LLG	LLG	XX

23. STEREOSCOPIC INSTRUMENT CONTOURS	24. CONTOURS IN GENERAL	25. SPOT ELEVATIONS	26. OTHER PHYSICAL FEATURES
XX	XX	XX	LLG

CULTURAL FEATURES

27. ROADS	28. BUILDINGS	29. RAILROADS	30. OTHER CULTURAL FEATURES
XX	XX	XX	LLG

BOUNDARIES

31. BOUNDARY LINES	32. PUBLIC LAND LINES
XX	XX

MISCELLANEOUS

33. GEOGRAPHIC NAMES	34. JUNCTIONS	35. LEGIBILITY OF THE MANUSCRIPT
LLG	LLG	LLG

36. DISCREPANCY OVERLAY	37. DESCRIPTIVE REPORT	38. FIELD INSPECTION PHOTOGRAPHS	39. FORMS
LLG	LLG	XX	LLG

40. REVIEWER	SUPERVISOR, REVIEW SECTION OR UNIT
L.L. Graves Aug. 24, 1970	

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	SUPERVISOR
L.O. Neterer, Jr. 9/15/71	
Reviewed By: B. Wilson Sept. 30, 1971	

43. REMARKS

Field Edit Applied From Field Edit Ozalid, Matte Photograph 69-E-(c)-959 and 1 form 76-40. Many elevations given by the editor were not used because they were proven in error by the photographs.

FIELD EDIT REPORT
Keku Strait
Southeast Alaska
OPR-448

June - October 1970

INTRODUCTION

Field edit reports are attached for the following maps:

T-12205	(TP-00205)
T-12206	(TP-00206)
T-12209	(TP-00209)
T-12210	
T-12216	
T-12220	
T-12224	
T-12225	

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-10-4-70
DA-10-5-70
DA-10-6-70
DA-10-7-70

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

Notes have been made in red 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. Individual reports by manuscripts are attached.

TIDE NOTES

The following tide stations were used for hydrography in the Keku Strait area:

Pup Island
High Island
Eagle Island
Monte Carlo Island

Manuscripts T-12201 and T-12202 were inspected. Since no field edit was requested by the compilers the inspection was to check the manuscript in general. The manuscripts agreed quite well with the field inspection.

FIELD EDIT REPORT
MAP T-12216
Keku Strait
Southeast Alaska
September-October 1970

Field edit of Map T-12216 was done by Ens. Gregory L. Miller during September and October 1970. Inspection was done on foot and in a small whaler.

METHOD

Field photographs and a copy of the field edit ozalid were taken into the field. The mean high water line was verified by visual inspection of the shoreline and ozalid 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 boatsheet Da-10-7-70 and then checked with the T-sheet and ozalid. Specific items of question, as listed on the ozalid, were visited for verification. Notes have been made in violet on the field photographs and have been cross referenced on the Field Edit Ozalid by photograph number. Notes on the ozalid have been made in blue. All times are based on 105° W meridian. Notes are on the following photographs:

69 E 959

ADEQUACY OF COMPILATION

Compilation of the map is good. Hydrographic location of boulders compares well to the photogrammetric location of the same boulders.

Field inspection of the 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.

ATTACHMENTS

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

Respectfully submitted,

Warren K. Taguchi Jr

Gregory L. Miller
ENS. NOAA

APPROVAL SHEET FOR FIELD EDIT

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

T-12205.....TP-00205
T-12206.....TP-00206
T-12209.....TP-00207
T-12210
T-12216
T-12220
T-12224
T-12225

Inspection of the work was made.

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

FORM C&GS-567
(-66)

U.S. DEPARTMENT OF COMMERCE
ENVIRONMENTAL SCIENCE SERVICES ADMINISTRATION
COAST AND GEODETIC SURVEY

NONFLOATING AIDS OR LANDMARKS FOR CHARTS

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

PH-6206

16 September, 1970

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 Russell C. Arnold RCA

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

STATE			POSITION					METHOD OF LOCATION AND SURVEY NO.	DATE OF LOCATION	HARBOR CHART	INSHORE CHART	OFFSHORE CHART	CHARTS AFFECTED
			LATITUDE*		LONGITUDE*								
CHARTING NAME	DESCRIPTION	SIGNAL NAME	° ′	″ D.M. METERS	° ′	″ D.S. METERS	DATUM						
Fl 4 sec. 12 ft 8m	4'x 4'x8' Red & white Light-house. ~~Keku Strait Light.~~	701	56 34	21.7 03.36 104	133 43	30.7 54.5 589	N.A. 1927	Topo. DA 10-7-70	9/16/70		x		8272
R "2"	Keku Strait Day Beacon No. 2 Red triangle on a steel post	702	56 33	36.3 1742	133 43	18.2 312	"	"	"		x		8272
R "4"	Keku Strait Day Beacon No. 4 Red triangle on a steel post	704	56 35	03.7 12	133 42	26.3 448	"	"	"		x		8272
R "6"	Keku Strait Day Beacon No. 6 Red triangle on a steel post	706	56 35	10.6 328	133 42	01.3 22	"	"	"		x		8272
R "8"	Keku Strait Day Beacon No. 8 Red triangle on a steel post	708	56 35	39.8 1232	133 40	48.4 826	"	"	"		x		8272
C "9"	Black & white can buoy No. 9		56 36	04 110	133 40	47 800	"	"	"		x		8272
All landmarks agreed with the chart.													

* 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.

USCOMM-DC 36435-P66

REVIEW REPORT T-12216

SHORELINE

March 16, 1973

61. GENERAL STATEMENT

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

More than usual difficulty was encountered in applying field edit to this map. Many field edit notes appeared to be on the wrong objects; both the field edit compiler and the final reviewer felt that the editor definitely had an identification problem. In several instances, a feature would be indicated as awash or bare at MHW, when, in fact, it was awash or not even visible on the photographs that were taken at a 4.5 foot tide above MLLW. Mean high water in this area is 11.7 feet above MLLW. Therefore, rather than to have erroneous elevations on the manuscript, the field edit elevations that were obviously incorrect or on wrong objects were not applied to the manuscript. It was felt that the hydrographer's elevations should be used where field edit elevations were omitted.

62. COMPARISON WITH REGISTERED TOPOGRAPHIC SURVEYS

A comparison was made with a copy of Survey No. 4330, scale 1:20,000, dated September - October 1927 and a copy of Survey No. 4331, scale 1:10,000, dated August - September 1927. Significant differences between these surveys and T-12216 are shown on the comparison print in blue. Survey Nos. 4330 and 4331 are now obsolete for nautical chart construction purposes.and the compared areas are now superseded by T-12216.

63. COMPARISON WITH MAPS OF OTHER AGENCIES

A comparison was made with U.S.G.S. Quadrangles PETERSBURG (C-5 and C-6), both scale 1:63,360, and both dated 1948. No significant differences were noted.

64. COMPARISON WITH CONTEMPORARY HYDROGRAPHIC SURVEYS

Comparison was made with copies of boat sheets for H-9160 and H-9161, both 1:10,000 scale and both dated 1969. Significant differences between these surveys and T-12216 are shown on the

64. COMPARISON WITH CONTEMPORARY HYDROGRAPHIC SURVEYS

comparison print in purple. Shoreline is in good agreement, as the Incomplete Manuscript for T-12216 was the base map for shoreline in the compared area. The mean lower low water line was not in complete agreement; it was retained on T-12216 for whatever use it may be to the chart compiler.

65. COMPARISON WITH NAUTICAL CHARTS

A comparison was made with Chart 8272, scale 1:20,000, 4th edition, dated November 21, 1970. Shoreline differences between this chart and T-12216 were found to be the same as shoreline differences between the registered topographic surveys and T-12216 and are shown with the same blue line on the comparison print. Other differences are shown in red.

66. ADEQUACY OF RESULTS AND FUTURE SURVEYS

This survey complies with project instructions and the National Standards for Map Accuracy.

Reviewed by:

Charles H. Bishop

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

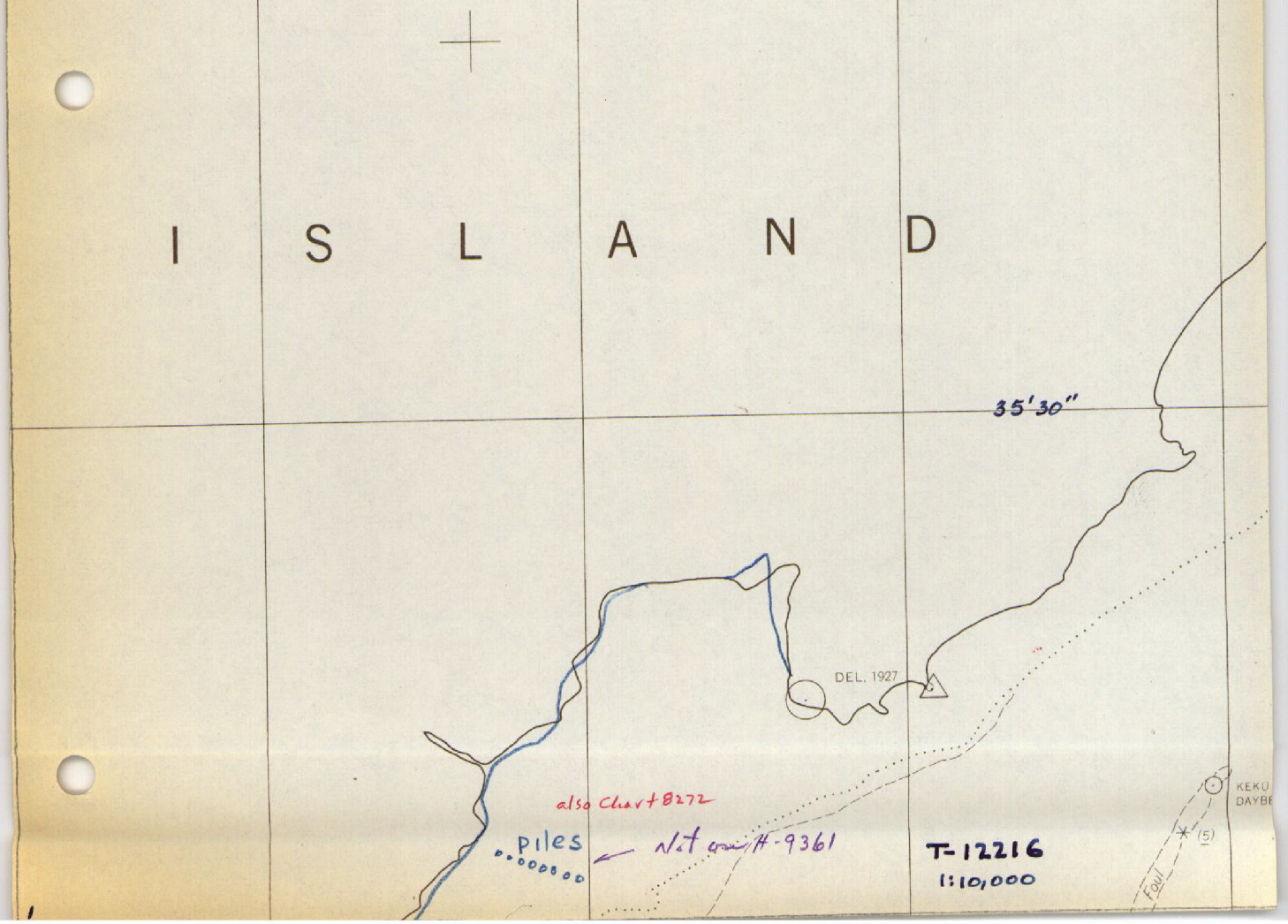
133°43'00"

42'30"

COMPARISON PRINT

Blue = T-4331
Red = Chart 8272
Purple = H-9161

56°36'00"



69-E(C)-960

133°41'00"

40'30"

WAN 1927

COMPARISON PRINT

Blue = T-4331
Red = Chart 8272
Purple = H-9161

56°36'00"

NOTE:
"The photogrammetric location and delineation of features offshore from the mean high-water line on this survey may not be complete or final. The contemporary reviewed hydrographic survey of the area where available, should be consulted for the final delineation."

KEKU STRAIT DAYBEACON 8 1970 Foul

K E K U S T R A I T

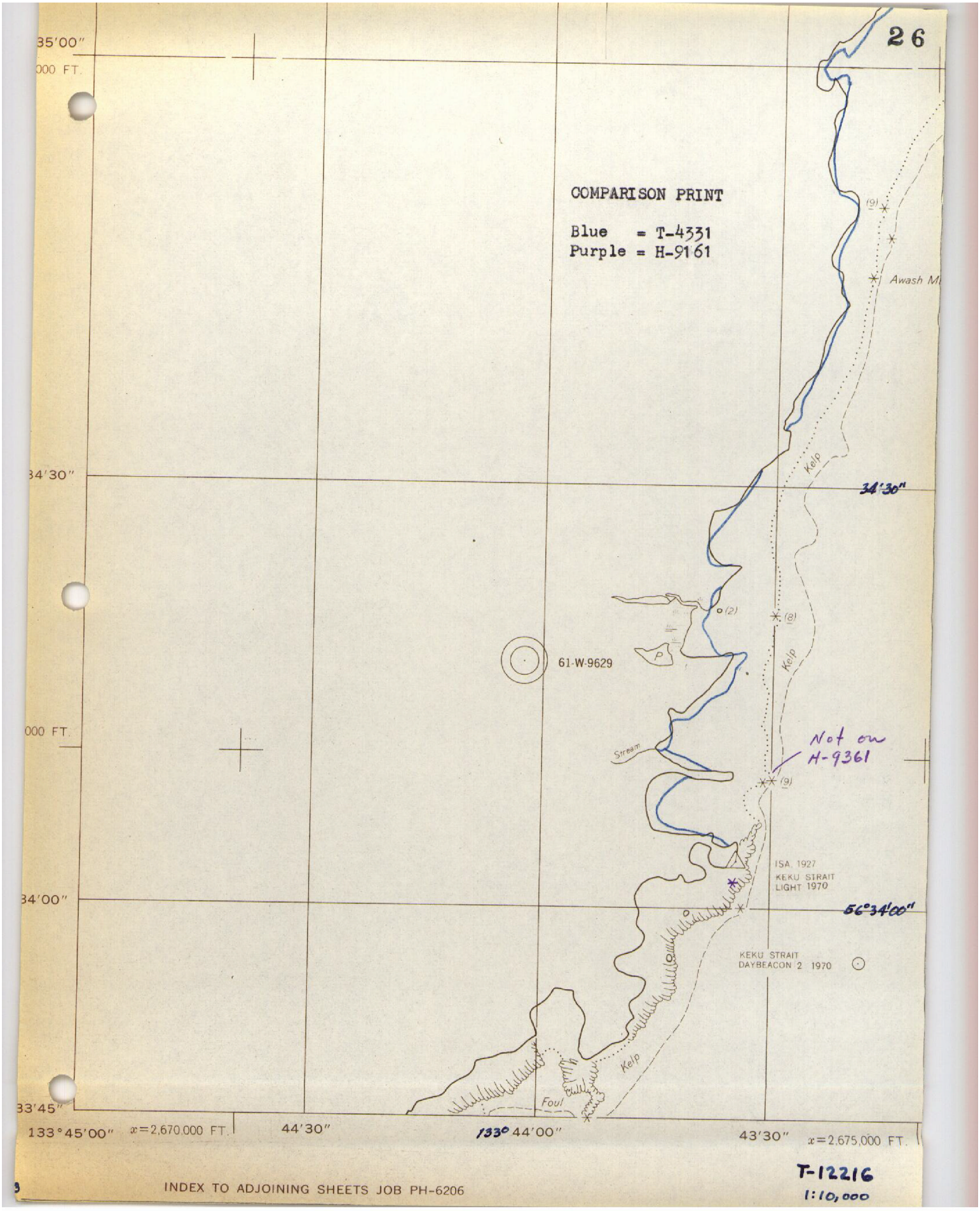
35'30"

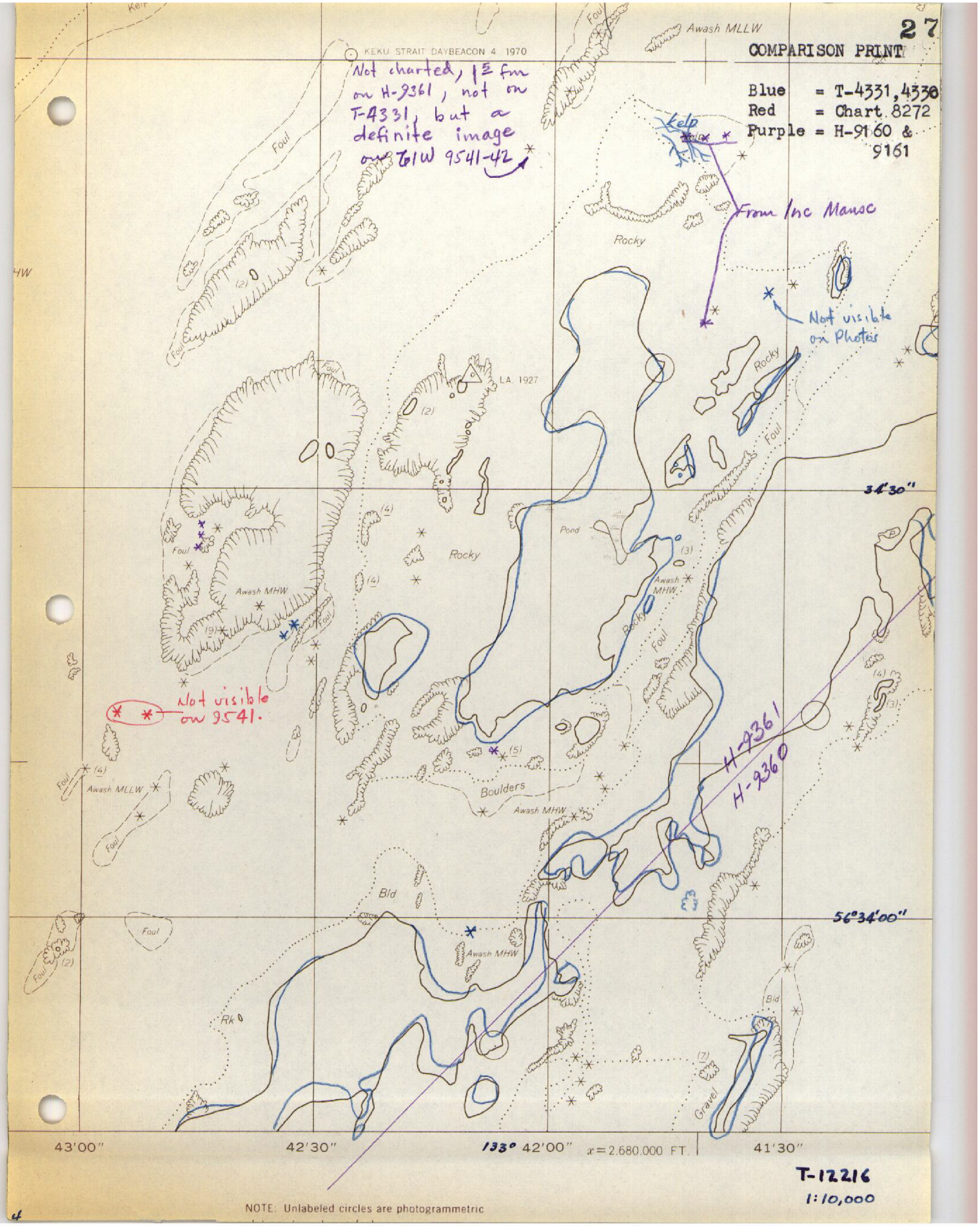
61-W-9542

Also chart 8272
pile
1
Not on H-9361

LO 1927

T-12216
1:10,000


26
COMPARISON PRINT
Blue = T-4331
Purple = H-9161
35'00"
000 FT.
34'30"
34'30"
000 FT.
34'00"
56°34'00"
33'45"
133°45'00"
x=2,670,000 FT.
44'30"
133° 44'00"
43'30"
x=2,675,000 FT.
61-W-9629
(2)
(8)
(9)
(9)
Awash M
Kelp
Kelp
Kelp
Stream
Not on H-9361
ISA 1927
KEKU STRAIT
LIGHT 1970
KEKU STRAIT
DAYBEACON 2 1970
Foul
INDEX TO ADJOINING SHEETS JOB PH-6206
T-12216
1:10,000


KEKU STRAIT DAYBEACON 4 1970
Awash MLLW
27
COMPARISON PRINT
Blue = T-4331, 4330
Red = Chart 8272
Purple = H-9160 & 9161
Not charted, 1½ fm on H-9361, not on T-4331, but a definite image on 761W 9541-42
Kelp
From Inc Mansc
Not visible on Photos
Rocky
Foul
LA. 1927
Pond
Awash MHW
Awash MLLW
Not visible on 9541.
H-9361
H-9360
Boulders
Bld
Rk
Gravel
34'30"
56°34'00"
43'00"
42'30"
133° 42'00"
x = 2,680,000 FT.
41'30"
T-12216
1:10,000
NOTE: Unlabeled circles are photogrammetric

Not on H-9361

K U P R E A

I S L A

Rks on B.S. from Inc Mansc. They are insignificant and not shown on T-12216 final copy.

Rocky

H-9361
H-9360

69-E(C)-959

COMPARISON PRINT

Blue = T-4331 & 4330
Purple = H-9160 & 9161

56° 34' 30"

61-W-9541

Boulders

Bld

34'00"

Le not on B.S.

41'00" | 40'30" x=2,685,000 FT. | 133° 40'00" | 39'30"

T-12216
1:10,000

LEGEND

△ Recoverable horizontal control station of third-order or higher accuracy