ORIGINAL

12207

FORM C&GS-504

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

DESCRIPTIVE REPORT

Type of Survey SHORELINE (PHOTOGRAMMETRIC)

Field No. ..... *Office No.* T-12207

LOCALITY

State ALASKA

General locality KEKU STRAIT

Locality CRANE CREEK

1961-1970

CHIEF OF PARTY
Alfred C. Holmes
Director, Atlantic Marine Center

LIBRARY & ARCHIVES

DATE .....

12207

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

DESCRIPTIVE REPORT - DATA RECORD

T - 12207

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

INSTRUCTIONS DATED (II) (III):

OFFICE SUPPLEMENT	III	DECEMBER 19, 1967
OFFICE SUPPLEMENT	IV	APRIL 14, 1970
FIELD INSTRUCTIONS		FEBRUARY 11, 1969
OFFICE INSTRUCTIONS		JANUARY 18, 1965

METHOD OF COMPILATION (III):

WILD B-8 STEREOPLOTTER

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):

NA 1927

VERTICAL DATUM (III):

~~MEAN SEA LEVEL~~ Mean 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):

CRANE, 1968

LAT.:	LONG.:	
56° 43' 14.9189"	133° 56' 21.1640"	[X] ADJUSTED [ ] UNADJUSTED

PLANE COORDINATES (IV):	STATE	ZONE
X =	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 36393A-P66

FORM C&GS-181b
(12-61)

U.S. DEPARTMENT OF COMMERCE
COAST AND GEODETIC SURVEY

DESCRIPTIVE REPORT - DATA RECORD

T-12207

FIELD INSPECTION BY (II): NONE	DATE:
MEAN HIGH WATER LOCATION (III) (STATE DATE AND METHOD OF LOCATION): AIR PHOTO COMPILATION DATED: August 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): A. SHANDS	DATE: June 11, 1970
CONTROL CHECKED BY (III): F. MARGIOTTA	DATE: JUNE 11, 1970
RADIAL PLOT OR STEREOSCOPIC CONTROL EXTENSION BY (III): ROBERT E. FISHER	DATE: FEB. 19, 1970
STEREOSCOPIC INSTRUMENT COMPILATION (III): PLANIMETRY A. Shands Reviewed R. White	DATE: June 23, 1970 June 23, 1970
CONTOURS INAPPLICABLE	DATE:
MANUSCRIPT DELINEATED BY (III): A. L. Shands	DATE: June 26, 1970
SCRIBING BY (III): R. White	DATE: July 14, 1971
PHOTOGRAMMETRIC OFFICE REVIEW BY (III): L. L. Graves	DATE: July 16, 1970

REMARKS:

FIELD EDIT BY: LTJG TAGUCHI

USCOMM-DC 16276-P61

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

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

DESCRIPTIVE REPORT - DATA RECORD

T-12207

CAMERA (KIND OR SOURCE) (III):

Wild RC-8 "E" + "W"

PHOTOGRAPHS (III)

NUMBER	DATE	TIME	SCALE	STAGE OF TIDE
69 E(c)-1960 & 69 E(c)-1961	24 Aug. 1969	1311 PST	1:40,000	9.6 ft. above MLLW
61 W 9588 through 61 W 9591	16 July 1961	1108 PST	1:20,000	0.8 ft. above MLLW

PREDICTED TIDE (III) Diurnal

	RATIO OF RANGES	MEAN RANGE	~~SPRING RANGE~~
REFERENCE STATION: KETCHIKAN, ALASKA		13.0	15.4
SUBORDINATE STATION: Port Camden, Kuiu Island, Alaska		11.5	13.9
SUBORDINATE STATION:			

WASHINGTON OFFICE REVIEW BY (IV): Leo F. Beugnet, AMC — DATE: April 1972

PROOF EDIT BY (IV): — DATE:

NUMBER OF TRIANGULATION STATIONS SEARCHED FOR (II): 3	RECOVERED: 3	IDENTIFIED: NONE	
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-12207

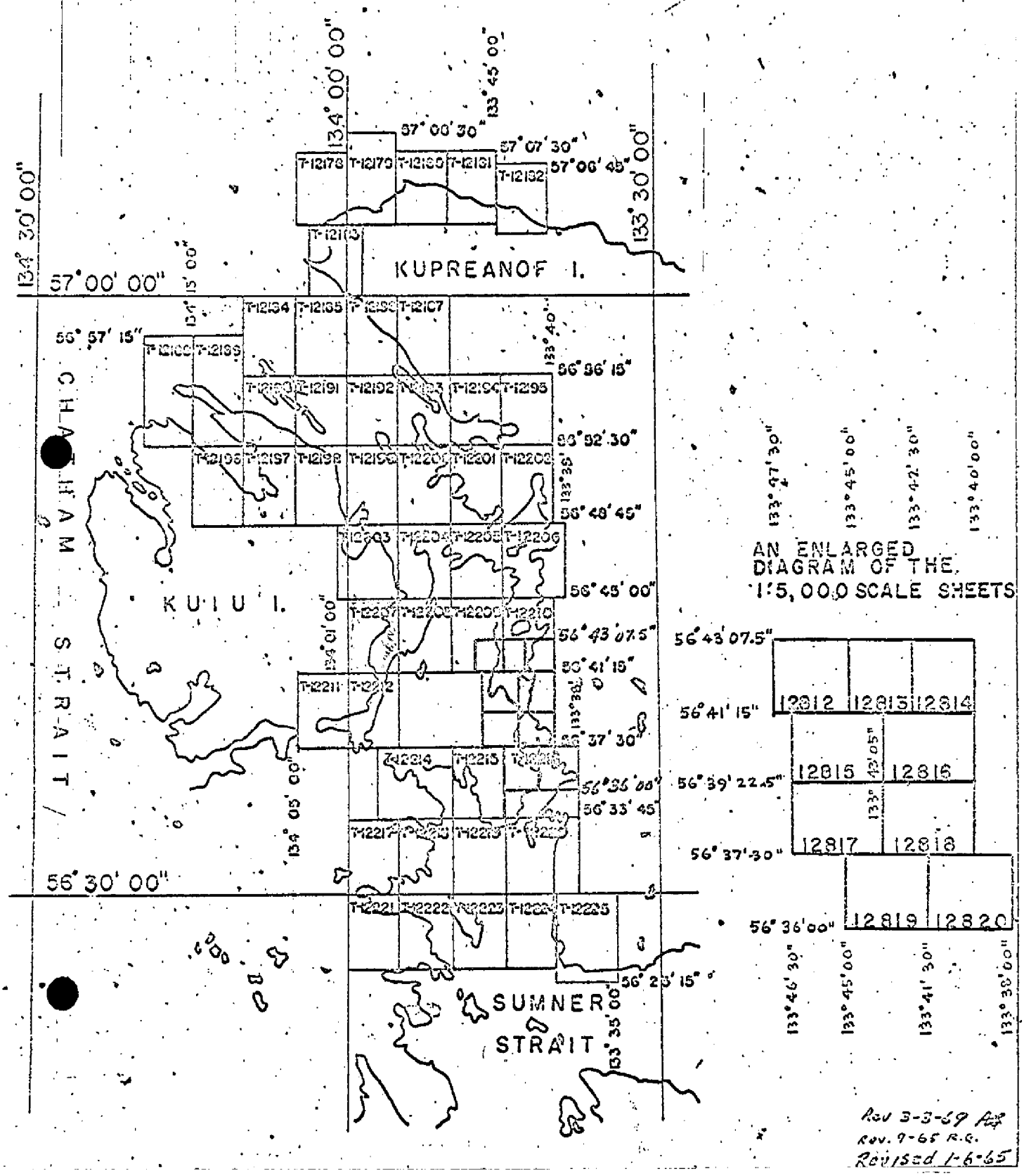
COMPILATION RECORD	COMPLETION DATE	REMARKS
Compilation Complete, Pending Field Edit	June, 1970	Superseded
Field Edit Applied	June, 1971	
Final Review	April 1972	

SHORELINE MAPPING PROJECT

Ph-6206

KEKU STRAITS, ALASKA

SCALE 1:10,000



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

Rev 3-3-69 AJP
Rev. 9-65 R.C.
Revised 1-6-65

SUMMARY TO ACCOMPANY

DESCRIPTIVE REPORT T-12207

Shoreline survey T-12207 is one of 53 similar surveys in project PH-6206. The primary purpose of the survey was to provide modern shoreline for nautical charts and photo-hydro support data for hydrographic surveys in the Keku Strait area. Because of difficulty during Aerotriangulation the compilation of the manuscript was delayed and it was not furnished for hydro support.

There was no field work prior to compilation with the exception of identification of horizontal control for aerotriangulation. The survey was subsequently field edited during the 1970 field season.

Compilation was at 1:10,000 scale by Wild B-8 Plotter methods using the photography of July 1961 and August 1969. The manuscript was a vinylite sheet 3 minutes 45 seconds in latitude by 5 minutes in longitude. After application of field edit data the survey was scribed and reproduced on cronaflex. Final review was in the Atlantic Marine Center in April 1972. One cronaflex positive and a negative of the final reviewed survey are forwarded for record and registry.

FIELD INSPECTION REPORT

JOB PH-6206

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,

John D Parman Jr. for.

Robert E. Fisher
Cartographer (Photo)

Approved and forwarded,

Henry P. Eichert
Chief, Aerotriangulation
Section

Saturday _____ at _____ a.m. and _____ p.m.

_____ at _____ a.m. and _____ p.m.

Sunday _____ at _____ a.m. and _____ p.m.

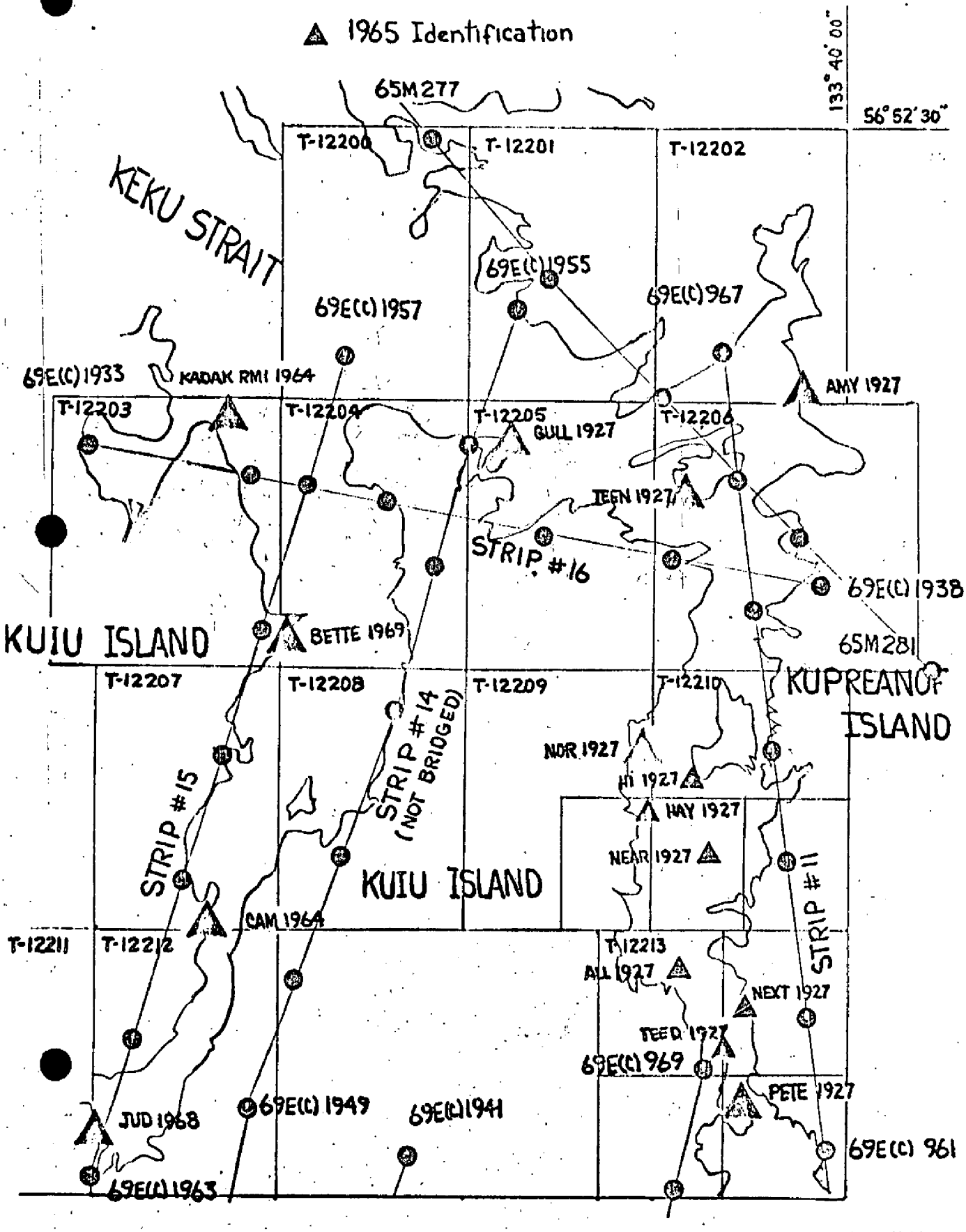
_____ a.m. and _____ p.m.

KEKU STRAIT ALASKA

PH 6206 FEB 1970

△ 1969 Identification

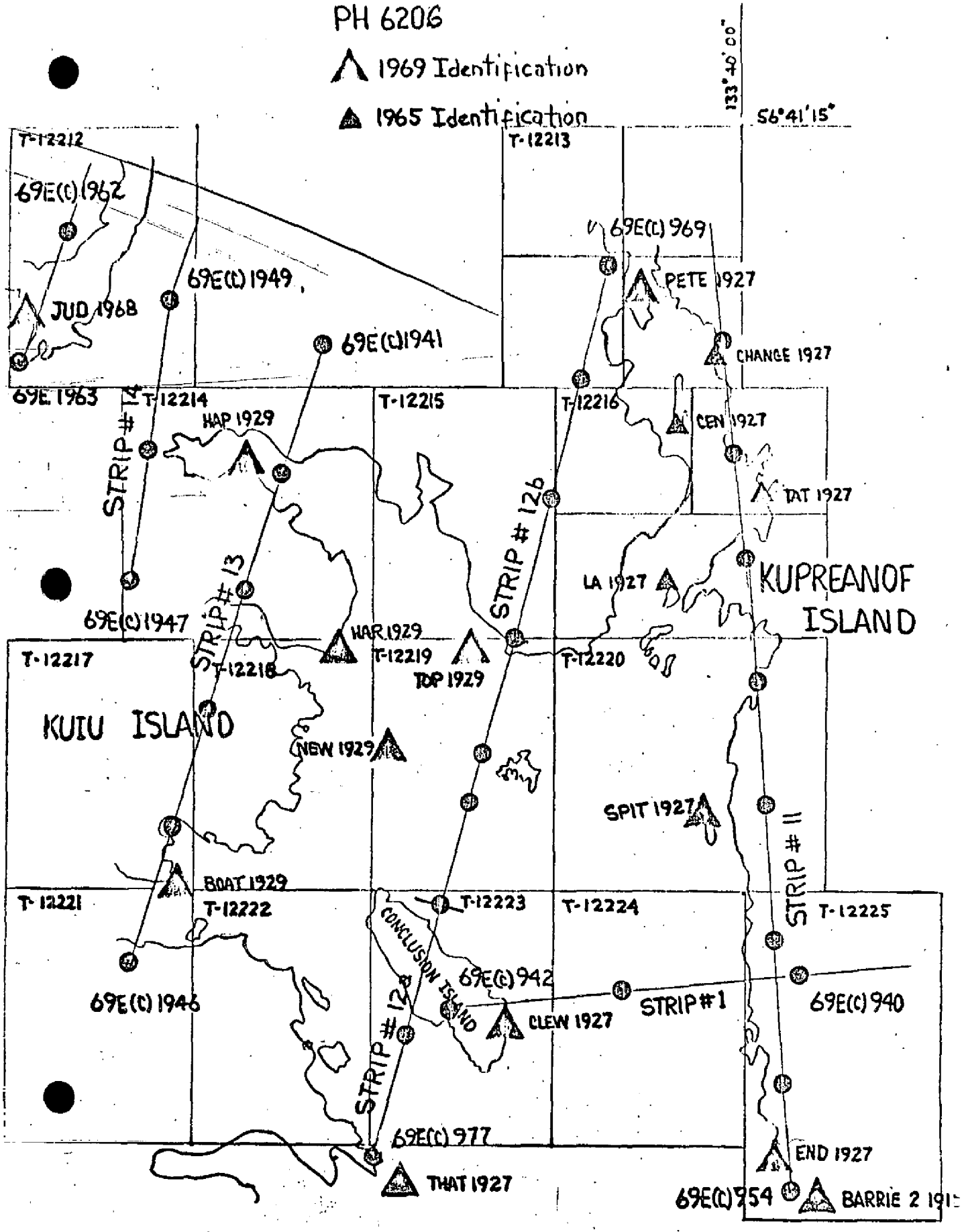
▲ 1965 Identification



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- 12207 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)
Crane, 1969	G.P. Vol.111 page 1045	N.A. 1927	56°43'14.9189" 133°56'21.1640"	461.47 359.96	(1394.47) (660.54)
Dove, 1969	" " " " "	" "	56°43'32.6299" 133°55'50.6075"	1009.31 860.63	(846.63) (159.77)
Peg, 1969	" " " " "	" "	56°41'40.3508" 133°56'45.6736"	1248.13 777.36	(607.80) (243.77)
Mary, 1969	" " "	NA 1927	56° 41' 22.7275" 133° 56' 06.6643"		

COMPUTED BY	DATE	CHECKED BY	DATE
Frank P. Margiotta	June 30, 1971	T.J. Bulfer	June 30, 1971

PH-6206

Compilation Report

T-12207

31. DELINEATION

The Wild B-8 was used to delineate the mean high water line from the 1:40,000 scale color photography of August 1969. All detail below the mean high water line was compiled graphically from the 1:20,000 scale panchromatic photography of July, 1961.

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 the photographs.

35. SHORELINE AND ALONGSHORE DETAILS

The shoreline and all alongshore area details were compiled from office interpretation of the photographs without benefit of prior field inspection. The field editor has been asked to verify all such detail.

36. OFFSHORE DETAILS

Several islands and rocks were located offshore during instrument compilation. No difficulty was encountered in locating and delineating these features. See item # 31.

37. LANDMARKS AND AIDS

None

38. CONTROL FOR FUTURE SURVEYS

None

39. JUNCTIONS

Junctions are in agreement with T-12203, to the north T-12212 to the south and T-12208 to the east. There is no contemporary survey to the west.

40. HORIZONTAL AND VERTICAL ACCURACY

No statement.

46. COMPARISON WITH EXISTING MAPS

A comparison has been made with U.S.G.S. Quadrangle PETERSBURG (C-6), ALASKA, scale 1:63,360, dated 1948 with minor revisions in 1963.

47. COMPARISON WITH NAUTICAL CHARTS

A comparison was made with Chart 8201, scale 1:217,828, 15 edition dated November 15, 1969.

ITEMS TO BE APPLIED TO NAUTICAL CHARTS IMMEDIATELY

None

ITEMS TO BE CARRIED FORWARD

None

Submitted by:

A. L. Shands

A. L. Shands
Cartographer
7/1/70

Approved for forwarding:

Melvin J. Umbach, CDR, NOAA
Chief, Photogrammetry Division, AMC

Approved:

Alfred C. Holmes
RADM, NOAA
Director, AMC

GEOGRAPHIC NAMES

FINAL NAME SHEET

PH-6206 (Keku Strait, Alaska)

T-12207

Cam Island-fp.

Crane Creek

Kuiu Island

Port Camden

Approved by:

A. J. Wraight

A. Joseph Wraight
Chief Geographer

Prepared by:

Frank W. Pickett

Frank W. Pickett
Cartographic Technician

O.K. 4-4-72

FORM C&GS-1002
(9-66)

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

PHOTOGRAMMETRIC OFFICE REVIEW

T-12207

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
XX	XX	

8. BENCH MARKS	9. PLOTTING OF SEXTANT FIXES	10. PHOTOGRAMMETRIC PLOT REPORT	11. DETAIL POINTS
XX	XX	RSC	

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**
XX	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	XX

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 7-16-70	

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
F.P. Margiotta June 30,1971	

43. REMARKS

Field Edit applied from: Field Edit Ozalid, Field Photos 69 E 1960, 61 W 9589 through 9591

FIELD EDIT REPORT
OPR-448
Port Camden
Southeast Alaska

INTRODUCTION

Field edit reports are attached for the following maps:

T-12203
T-12204
T-12207
T-12208
T-12211
T-12212

Field photographs and copies of the field edit ozalid were taken into the field. The mean high water line was verified by visual inspection of the shoreline and ozalids in the field and paced distances from photo-identifiable objects.

Notes have been made in red-violet ink on the photographs and cross-referenced with the ozalids. All times are based on 105° W meridian.

Field inspection of these maps is completed and it is recommended that they be revised in accordance with this field edit and accepted as advance manuscripts.

FIELD EDIT REPORT
MAP-T-12207
Port Camden
OPR-448

The investigation was done by Lt(jg) Taguchi. Field work was done from a 17' boston whaler.

METHOD

Field photographs and a copy of the field edit ozalid were taken into the field. All verification was done by visual observation. The specific items of question, as listed on the ozalid were visited for verification. The MHWL was determined by pacing from a photo-identifiable object.

Notes have been made in violet on the field photographs and crossed referenced in the field edit ozalid by circling the photographic number. Notes on the ozalid have been made in blue. Notes are on the following photographs:

61 W 9590
61 W 9589
61 W 9591
69 E 1960

The 1961 photograph proved to be superior than the larger 1969 photo because of its size and sharper representation of the working area. The larger photo was very difficult to work with out in the field from an open boat; especially when a rainy day was a typical working day in Southeast Alaska. The 1969 photo also covered too much area creating a problem of some areas not being covered adequately in a sharp clear zone. Also it was near impossible to use the pocket steroscope on the larger photographs.

ADEQUACY OF COMPILATION

The compilation of the map is good.

RECOMMENDATIONS

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

Respectfully submitted,

F.J. Smith

F.T. Smith
LCdr. NOAA

APPROVAL SHEET FOR FIELD EDIT
OPR-448
Port Camden

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

T-12203
T-12204
T-12207
T-12208
T-12211
T-12212

Inspection of the work was made.

Ray E. Moses

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

REVIEW REPORT T-12207

SHORELINE

April 25, 1972

61. GENERAL STATEMENT

See Summary, which is page 6 of the descriptive report.

62. COMPARISON WITH REGISTERED TOPOGRAPHIC SURVEYS

A visual comparison was made with registered survey No. 2116. This is a 1:80,000 scale survey made in 1893. It is now obsolete and is superseded by T-12207 for nautical chart construction purposes.

63. COMPARISON WITH MAPS OF OTHER AGENCIES:

Comparison was made with USGS PETERSBURG (C-6), ALASKA, 1:63,360 scale quadrangle, edition of 1948. The surveys were found to be in good general agreement.

64. COMPARISON WITH CONTEMPORARY HYDROGRAPHIC SURVEYS

Comparison was made with copies of boat sheets H-9082 (DA-10-4-69) and H-9083 (DA-10-5-69). The hydrography on these surveys was accomplished prior to the compilation of shoreline surveys in this area. No mean high water line, ledges or foul areas are shown on the boat sheets and only a few rocks are plotted.

The mean lower low water line of the surveys is in only fair agreement. This line has been indicated as approximate on T-12207 and retained for any value it may be to the nautical chart compiler.

~~Special attention is called to two rocks near latitude 56°41'12", longitude 133°56'97". These rocks, located by the field editor, are not shown on the boat sheet.~~

65. COMPARISON WITH NAUTICAL CHARTS

A visual comparison was made with Chart 8201, 16th edition, dated November 7, 1970. No major discrepancies between the two surveys were noted.

66. ADEQUACY OF RESULTS AND FUTURE SURVEYS

This survey complies with instructions and meets the National Standards of Map Accuracy.

Reviewed by:

Leo F. Beugnet
Cartographer

Approved for forwarding:

Melvin J. Umbach, CDR, NOAA
Chief, Photogrammetry Division, AMC

Approved:

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

Approved:

Chief, Photogrammetric Branch Chief, Coastal Mapping Division