T-13281

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-6301 *Map No.* T-13281

Classification No. Final *Edition No.* 1

Field Edited Map

LOCALITY

State Alaska

General Locality Kamishak Bay

Locality McNeil Cove, McNeil Islet

1962 TO 1968

REGISTRY IN ARCHIVES

DATE

T-13281

☆ U.S. GOVERNMENT PRINTING OFFICE: 1974-762-901

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 -13281

PROJECT NO. (II):
PH-6301

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

INSTRUCTIONS DATED (II) (III):
Office March 18, 1965
Office, Supplement I - February 10, 1966
Office, Supplement II - May 5, 1967
Office, Supplement III - December 27, 1967
Office, Supplement IV - April 2, 1968
Office, Supplement V - April 9, 1968

METHOD OF COMPILATION (III):
Graphic

MANUSCRIPT SCALE (III):	STEREOSCOPIC PLOTTING INSTRUMENT SCALE (III):
10,000	
DATE RECEIVED IN WASHINGTON OFFICE (IV):	**DATE REPORTED TO NAUTICAL CHART BRANCH (IV):**

APPLIED TO CHART NO.	DATE:	DATE REGISTERED (IV):

GEOGRAPHIC DATUM (III):	VERTICAL DATUM (III): high water
N.A. 1927	MEAN ~~SEA LEVEL~~ 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~~ mean lower low water*

REFERENCE STATION (III):
McNeil, 1946

LAT.:	LONG.:	
59°06'03.724" (115.2M)	154°12'01.034" (16.5M)	[X] ADJUSTED [ ] UNADJUSTED

PLANE COORDINATES (IV):		STATE	ZONE
863,435.43 ft.	X = 462,345.52 ft.	Alaska	5

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
(3-66)

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

(2)

DESCRIPTIVE REPORT - DATA RECORD

T-13281

FIELD INSPECTION BY (II):	DATE:
None	

MEAN HIGH WATER LOCATION (III) (STATE DATE AND METHOD OF LOCATION):

Air photo compilation - June 18, 1962 date of photography

PROJECTION AND GRIDS RULED BY (IV): A. Bethea	DATE 4/16/68
PROJECTION AND GRIDS CHECKED BY (IV): L.F. VanScoy	DATE 4/17/68
CONTROL PLOTTED BY (III): J.Steinberg	DATE 4/19/68
CONTROL CHECKED BY (III): . Serena	DATE 4/19/68
RADIAL PLOT OR STEREOSCOPIC CONTROL EXTENSION BY (III): G.M.Ball (for 1:20,000 compilation) T-12337	DATE May 1966
STEREOSCOPIC INSTRUMENT COMPILATION (III): PLANIMETRY A.L. Shands	DATE 5/1/68
CONTOURS Inapplicable	DATE
MANUSCRIPT DELINEATED BY (III): L.L. Graves	DATE 5/2/68
SCRIBING BY (III):	DATE
PHOTOGRAMMETRIC OFFICE REVIEW BY (III): C.H. Bishop	DATE 11/19/68

REMARKS:

Field edit by W.R. Cameron, June-July 1968

USCOMM-DC 36985-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-13281

CAMERA (KIND OR SOURCE) (III):

USC&GS Type "W" and "M"*

PHOTOGRAPHS (III)

NUMBER	DATE	TIME	SCALE	STAGE OF TIDE
62W6617 - 6619	6/18/62	1700	1:30,000	13.8' above MLLW

Predicted TIDE (III) Diurnal

	RATIO OF RANGES	MEAN RANGE	~~SPRING~~ RANGE
REFERENCE STATION: Seldovia, Kachemak Bay, Alaska		15.4	17.8
SUBORDINATE STATION: Iliamna Bay, Alaska	H=0.81 L=0.87	12.3	14.5
SUBORDINATE STATION:			

WASHINGTON OFFICE REVIEW BY (IV): J.B. Phillips — DATE: April 1976

PROOF EDIT BY (IV): — DATE:

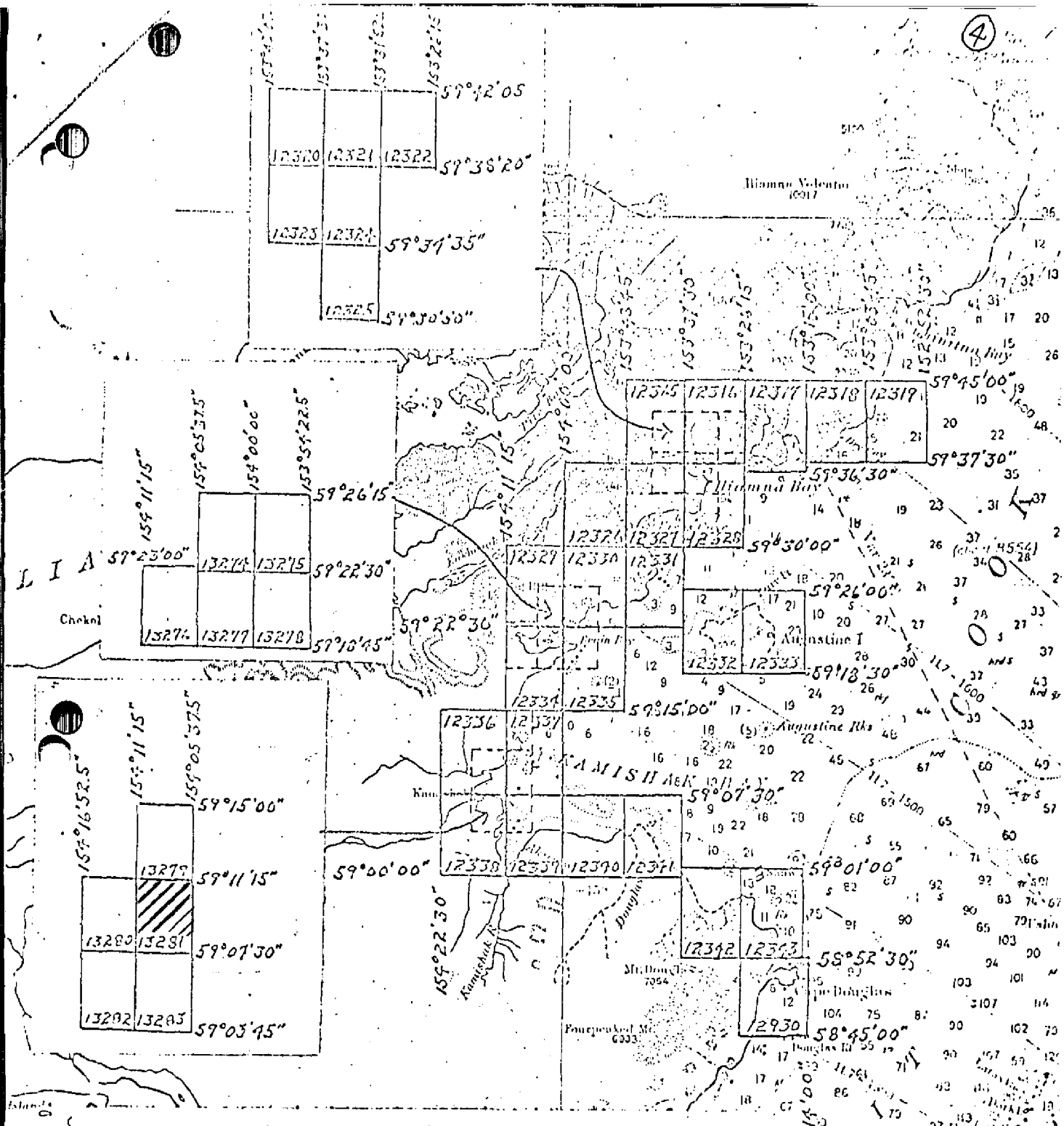
NUMBER OF TRIANGULATION STATIONS SEARCHED FOR (II):	0	RECOVERED: 0	IDENTIFIED: 0
NUMBER OF BM(S) SEARCHED FOR (II):	0	RECOVERED: 0	IDENTIFIED 0

NUMBER OF RECOVERABLE PHOTO STATIONS ESTABLISHED (III): 0

NUMBER OF TEMPORARY PHOTO HYDRO STATIONS ESTABLISHED (III): 0

REMARKS:

*"M" photography at 1:50,000 scale used for compilation of T-12337



JOB PH-6301 (PART-1)

COOK INLET, ALASKA

SHORELINE MAPPING

Scale 1:10,000 & 1:20,000

Revised 4-3-68 LFV

SUMMARY

T-1328/ is one of 40 shoreline maps comprising Job PH-6301 (Part I) compiled for use in contemporary hydrographic survey and nautical charting operations.

Field work, prior to compilation, consisted of the recovery and identification of horizontal control.

Compilation was by Wild B-8 stereoplotter, using 1:30,000 scale color photography. Cronaflex positives and ozalids of the manuscript were forwarded for the use of the field editor and the preparation of the hydrographer's boat sheets. Accompanying these were specially prepared ratio photographs to aid in the location of hydrographic signals.

Final edit was accomplished during 1968

Final review was accomplished at the Rockville Office in April 1976

A cronaflex positive copy of the map and a Descriptive Report will be registered in the NOS Archives.

T-13281

COMPILATION RECORD	COMPLETION DATE	REMARKS
Compilation complete pending field edit		
Alongshore area for hydro	5/2/68	Superseded
Partial Field Edit Applied	9/68	
Remainder of Field Edit applied, compilation complete	11/68	

FIELD INSPECTION

T-13281

There was no field inspection prior to compilation. Field work accomplished was limited to the recovery and identification of the horizontal control necessary for the aerotriangulation of the project.

PHOTOGRAMMETRIC PLOT REPORT
Kamishak Bay, Alaska
Job PH-6301
May 1966

21. Area Covered

This report covers an area of Alaska, in the western portion of Kamishak Bay to be mapped on five T-sheets (T-12334, T-12336, T-12337, T-12338 and T-12339).

22. Method

Analytic aerotriangulation methods were used to bridge one strip of "M" photography at the scale of 1:50,000. The attached sketch shows the placement of and closure to the triangulation points used in the final adjustment. Due to the excessive forward overlap in the strip, numerous photographs were omitted from the bridge.

23. Adequacy of Control

Horizontal control identified and required to adjust this strip was adequate. Neither CHENIK SS-A, which could not be positively identified, nor KAMAK SS-A, which was not visible, were used in the final adjustment. The results of the bridge, which is void of common tie points, should comply to the National Standards of Map Accuracy for these five shoreline manuscripts.

24. Supplemental Data

Numerous U.S.G.S. quads were used to obtain elevations required for the final horizontal and vertical adjustment.

25. Photography

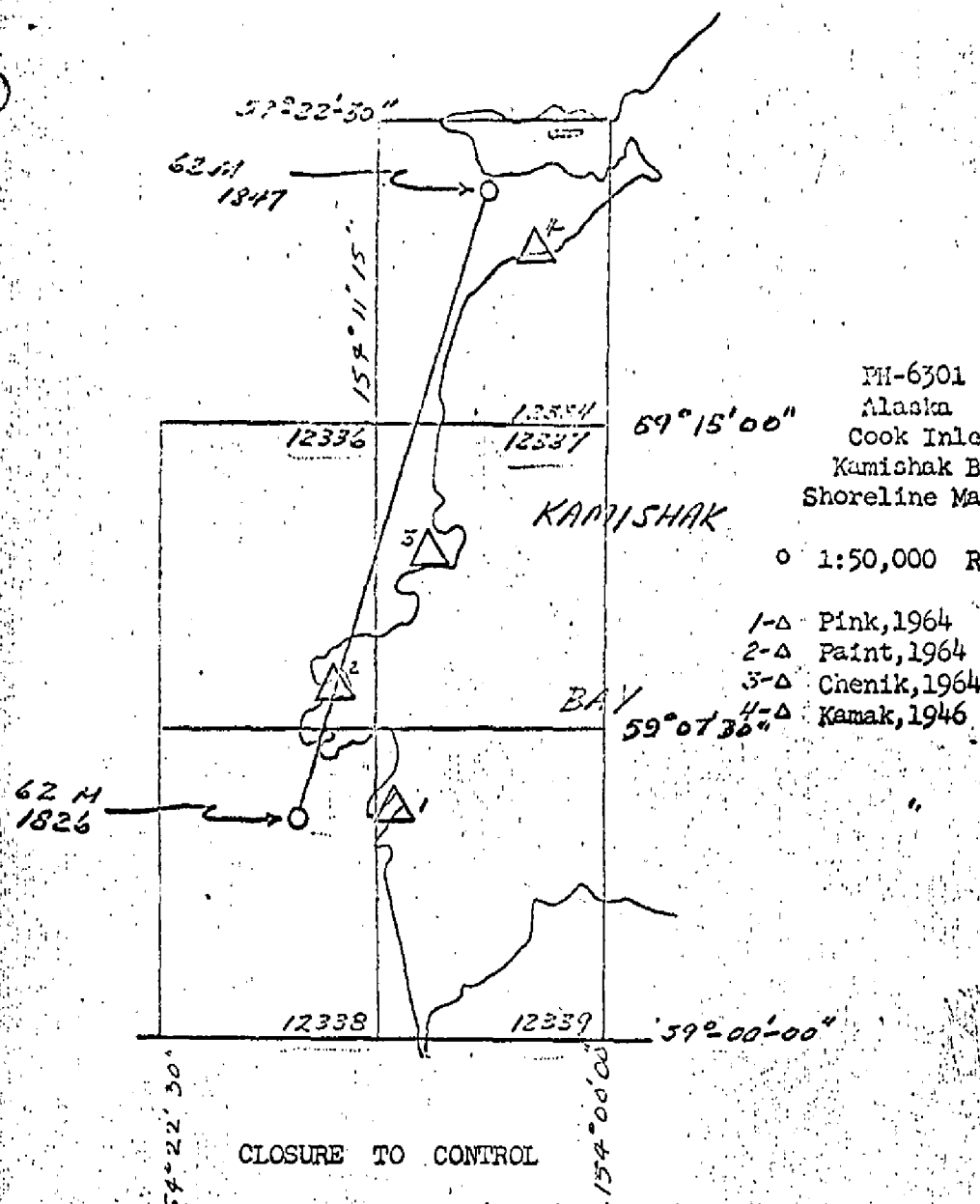
Photography was adequate with regard to coverage, overlap and image definition.

Respectfully submitted:

George M. Ball

Approved by:

Henry P. Eichert, Acting Chief
Aerotriangulation Section



PH-6301
Alaska
Cook Inlet
Kamishak Bay
Shoreline Mapping

o 1:50,000 RC69

1-Δ Pink,1964
2-Δ Paint,1964
3-Δ Chenik,1964
4-Δ Kamak,1946

CLOSURE TO CONTROL

Pink	SS A	(0.5)	(-0.2)
	SS B	(0.4)	(000)
Paint	SS A	(-1.4)	(0.6)
	SS B	(0.6)	(-1.5)
Chenik	SS A	Point could not be positively identified	
	SS B	(1.3)	(-1.0)
Kamak	SS A	Point was not visible	
	SS B	(-0.2)	(0.1)

Compilation Report
T-13281
PH-6301

31. Delineation

The shoreline and planimetry was delineated graphically by the use of 1962W, ratio photography. Refer to page // for additional comments.

32. Control

See Photogrammetric Plot Report for 1:20,000 manuscript of this area.

Shoreline passpoints on the 1:20,000 manuscript of this area were scaled and plotted on this manuscript in addition ot the use of bridging control. Shoreline passpoints used on the 1:20,000 ratio photography were re-established on the 1:10,000 ratioed photographs used for the compilation of this manuscript.

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

Numerous rocks, ledge, and shallow areas were delineated from office interpretation of the photographs. No low water line was shown.

36. Offshore Details

Two small islands, ledges, shallow areas, and offshore rocks, were compiled from 1:30,000 scale color photographs with the use of a vertical projector.

Reefs, shallow areas, and rocks northeast of McNeil Islet were compiled by the same method, using 1:15,000 scale panchromatic photography. These positions are labeled approximate.

37. Landmarks and Aids - None

38. Control for Future Surveys - None

39. Junctions

Junctions are in agreement with T-13279 (scale 1:10,000) and T-12337 (1:20,000) to the north, T-12337 (1:20,000) to the east, T-13283 (1:10,000) and T-12339 (1:20,000) to the south, T-13280 (1:10,000) and T-12336 (1:20,000) to the west.

T-13281

(11)

NOTES FOR REPORTS FOR THE FOLLOWING T-SHEETS COVERING MC NEIL COVE AND BRUIN BAY:

T-13274 through T-13283

PLEASE USE THIS NOTE FOR EACH REPORT UNDER ITEM #31 DELINEATION.

The area of this manuscript was previously compiled at 1:20,000 scale under one of the following manuscripts: T-12329, T-12330, T-12334, T-12335 T-12336, T-12337, T-12338 or T-12339, using 1962 and 1967 "M" photography at 1:50,000 scale, June 18, 1962 and 1:60,000 scale, July 9, 1967, respectively.

Other "W" photography taken in 1962, also dated June 18, cover these areas. These were used to supplement the shoreline delineation of the "M" photos, especially in areas of shoreline layover.

The new or more recent re-compilation of this sheet at 1:10,000 scale was accomplished in the following manner:

1. Shoreline passpoints from the 1:20,000 compilations were scaled on the coordinatograph and recorded.

2. The same passpoints were re-plotted on the 1:10,000 projection sheets.

3. Readout positions of bridge passpoints for the 1:20,000 sheets were also plotted on the 1:10,000 scale sheets.

4. The entire shoreline was graphically delineated, then edited and revised, if necessary, through the use of the processed 1962 "W" ratio prints. Areas where these revisions were deemed necessary will be reduced with the vertical projector and corrected on the 1:20,000 manuscripts.

The remaining alterative for the compilation of these 1:10,000 scale sheets, would be by the ratio of 5X and 6X of the 1962 and 1967 "M" photos. Inasmuch as these ratios would far exceed the 3X ratios of the 1962W photos, and the vertical projector ratio of 2X, and the essence of meeting the June 15, 1968 ship schedule, it was felt that the method used was the most expedient and accurate.

WAS DISCUSSED WITH THE ROCKVILLE, MD. PHOTO OFFICE WHO CONCURRED

40. Horizontal and Vertical Accuracy - No statement

41. thru 45. Inapplicable

46. Comparison with Existing Maps

A comparison was made with USGS quadrangles Iliamna (A-3) Alaska, scale 1:63,360, dated 1951, and Iliamna (A-4), Alaska, scale 1:63,360, dated 1951.

47. Comparison with Nautical Charts

A comparison was made with Nautical Chart 8554 (Cook Inlet, Southern Part) scale 1:200,000, 9th edition, dated May 10, 1965.

Items to be Applied to Nautical Charts Immediately: None

Items to be Carried Forward: - None

Submitted by,

L.L. Graves
Carto Tech
May 1968

Approved and forwarded:

J. Bull
Director
Atlantic Marine Center

(13)

T - 13281
PH - 6301

49. NOTES FOR THE HYDROGRAPHER AND/OR THE FIELD EDITOR

It has been considered good practice to delineate upon the manuscript all shoal and shallow areas which might be considered as a danger to navigation to the Hydrographer. The use of color photography often intensifies these features so that, that which is delineated as a shoal or shallow, might be only a bottom change, or a change in marine vegetation. These shoal or shallow lines should be verified, or deleted if they do not exist.

The process of bringing a manuscript from "Incomplete" to Advance" necessitates a complete application of field or hydro edit. This "Advance" copy is required in order to furnish a "smooth shoreline" for boat sheets and/or the processing of hydro sounding data. If extraneous information is not deleted from our "field edit ozalid" by the field and/or hydro editor, it can inadvertantly be carried forward to the "Advance" copy and eventually become a detriment to the hydro processor.

Your cooperation in applying all of your edit corrections, deletions, explanatory notes, fix information, dangers or aids, or other items to be delineated on the manuscripts directly to the ozalid copies and/or field (matte) photos, will greatly facilitate the complete conclusion of an "Advance" copy. Your return of this information to the compilation office from whence it originated, will do much to alleviate the problem of keeping all edit material together for more complete application.

Items of questionable nature, requiring your attention, which are not noted hereon, will be found on the accompanying "field edit ozalid".

(14)

FIELD EDIT REPORT

SHEET T-13281

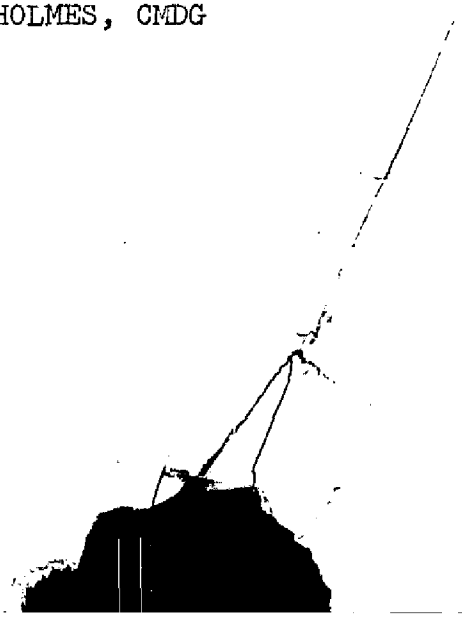
McNEIL ISLET

PH-6301

JULY 1968

USC&GSS PATHFINDER

CDR A. C. HOLMES, CMDG



51 Methods

The field edit of this map was done in accordance with photogrammetric instructions and project instructions to the Commanding Officer, Ship PATHFINDER, dated April 3, 1968.

All deletions, additions, and corrections to be applied to the manuscript appear on the Field Edit Ozalid. This ozalid. is an index and inventory of all field edit work performed. General notes on the ozalid are in violet ink. Features marked in green are to be deleted. Red circles show the approximate location of hydrographic signals used in the field edit.

No field ratio prints are a part of the field edit data for this sheet.

52 Adequacy of Compilation

Compilation of the manuscript was adequate and complete considering there was no field inspection of the area prior to compilation.

54 Recommendations

None.

56 Additional Information

Alaska Daylight Time, time meridian 135 W, was used for the entire survey.

Hydrographic signal positions used in fixes on rocks, reefs, etc. are listed on a sheet attached to the Field Edit Ozalid. Signals are listed by number rather than name to conform with the requirements of electronic data processing.

The MHWL was visually verified and found to be correct as compiled. No measurements were necessary.

The features marked position approximate were delineated by three-point sextant fixes and were found to be slightly out of position on the manuscript. The poor compilation was probably due to the lack of adequate photography, especially low-water coverage, of the area.

William R. Cameron
William R. Cameron
LTJG-USESSA
Photo Officer

Approved:

A. C. Holmes
A. C. Holmes
CDR-USESSA
Commanding Officer

(16)

NOAA FORM 75-74
(2-74)

U.S. DEPARTMENT OF COMMERCE
NOAA
NATIONAL OCEAN SURVEY

PHOTOGRAMMETRIC OFFICE REVIEW

T-13281 ~~T-10363~~ XXXXXX

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
NONE	XX	NONE

8. BENCH MARKS	9. PLOTTING OF SEXTANT FIXES	10. PHOTOGRAMMETRIC PLOT REPORT	11. DETAIL POINTS
XX	NONE		

ALONGSHORE AREAS *(Nautical Chart Data)*

12. SHORELINE	13. LOW-WATER LINE	14. ROCKS, SHOALS, ETC.	15. BRIDGES
LLG	NONE	LLG	XX

16. AIDS TO NAVIGATION	17. LANDMARKS	18. OTHER ALONGSHORE PHYSICAL FEATURES	19. OTHER ALONGSHORE CULTURAL FEATURES
NONE	NONE	LLG	LLG

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
NONE	NONE	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		NONE	

40. REVIEWER	SUPERVISOR, REVIEW SECTION OR UNIT
C.H. Bishop	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	SUPERVISOR
A.L. Shands 9/25/68 Reviewer: C.H.Bishop 11/19/68	A.C. Rauck, Jr.

43. REMARKS

Field Edit applied from: Field Edit ozalid, T-13281 and enlargement of T-12337.

Review Report T-13281
Shoreline Survey
April 1976

61. General Statement

Refer to item 31 in the compilation report for an explanation of the methods used to compile this map. This same area was compiled at 1:20,000 scale on T-12337. To avoid repetition, the 1:10,000 scale map will be the only one reviewed.

62. Comparison with Registered Topographic Surveys - None

63. Comparison with Maps of Other Agencies - Refer to item 46 of the Compilation Report.

64. Comparison with Contemporary Hydrographic Surveys

H-9014 1:10,000 1968
H-9001 1:20,000 1968-1970

Comparison was made with the final reviewed hydrographic surveys. The outer ledge limits were removed from the Class I manuscript where they conflicted with the hydrographer's soundings and depth curves. There are differences in rock elevations due to the hydrographer's use of actual tide readings.

65. Comparison with Nautical Charts

Chart 8554 1:200,000 13th Edition, May 1974

66. Adequacy of Results and Future Surveys

This map meets the standards of map accuracy and complies with Bureau requirements.

Submitted by,
J.B. Phillips
J.B. Phillips

Approved:

Chief, Photogrammetric Branch

Chief, Coastal Mapping Division

T-13281
PH-6301

48. GEOGRAPHIC NAME LIST

AMAKDEDULIA COVE

KAMISHAK BAY

McNEIL ISLET