T-13283

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-13283

Classification *No.* Final *Edition No.* 1

Field Edited Map

LOCALITY

State Alaska

General Locality Kamishak Bay

Locality McNeil Cove, Horseshoe Cove

1962 TO 1968

REGISTRY IN ARCHIVES

DATE

T-13283

☆ 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 -13283

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, 2/10/66
Office, Supplement II, 5/5/67
Office, Supplement III, 12/27/67
Office, Supplement IV, 4/2/68
Office, Supplement V, 4/9/68

METHOD OF COMPILATION (III):

Graphic

MANUSCRIPT SCALE (III):	STEREOSCOPIC PLOTTING INSTRUMENT SCALE (III):
1:10,000	
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 ~~[redacted]~~ EXCEPT AS FOLLOWS: *Elevations shown as (25) refer to mean high water* *Elevations shown as (5) refer to sounding datum* *i.e., ~~[redacted]~~ or mean lower low water*

REFERENCE STATION (III):

PINK, 1964

LAT.:	LONG.:	
59°03'50.6508" (1567.3M)	154°10'48.7483" (776.9M)	☒ ADJUSTED ☐ UNADJUSTED

PLANE COORDINATES (IV):	STATE	ZONE
Y = 849,916.6 ft. X = 466,084.03 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 36393-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-13283

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 4/17/68
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): V.E. Serena	DATE 4/19/68
RADIAL PLOT OR STEREOSCOPIC CONTROL EXTENSION BY (III): G.M. Ball (for 1:20,000 compilation) T-12339	DATE 5/66
STEREOSCOPIC INSTRUMENT COMPILATION (III): PLANIMETRY A.L. Shands	DATE 5/68
CONTOURS Inapplicable	DATE
MANUSCRIPT DELINEATED BY (III): A.L. Shands	DATE 5/5/68
SCRIBING BY (III):	DATE
PHOTOGRAMMETRIC OFFICE REVIEW BY (III): B. Wilson	DATE 5/5/68

REMARKS:

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

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-13283

CAMERA (KIND OR SOURCE) (III):

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

PHOTOGRAPHS (III)

NUMBER	DATE	TIME	SCALE	STAGE OF TIDE
62W6613-6616	6/18/62	1700	1:30,000	13.8' above MLLW
62W6508 - 6510	"	1605	"	14.3' 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: May 1976

PROOF EDIT BY (IV): — DATE:

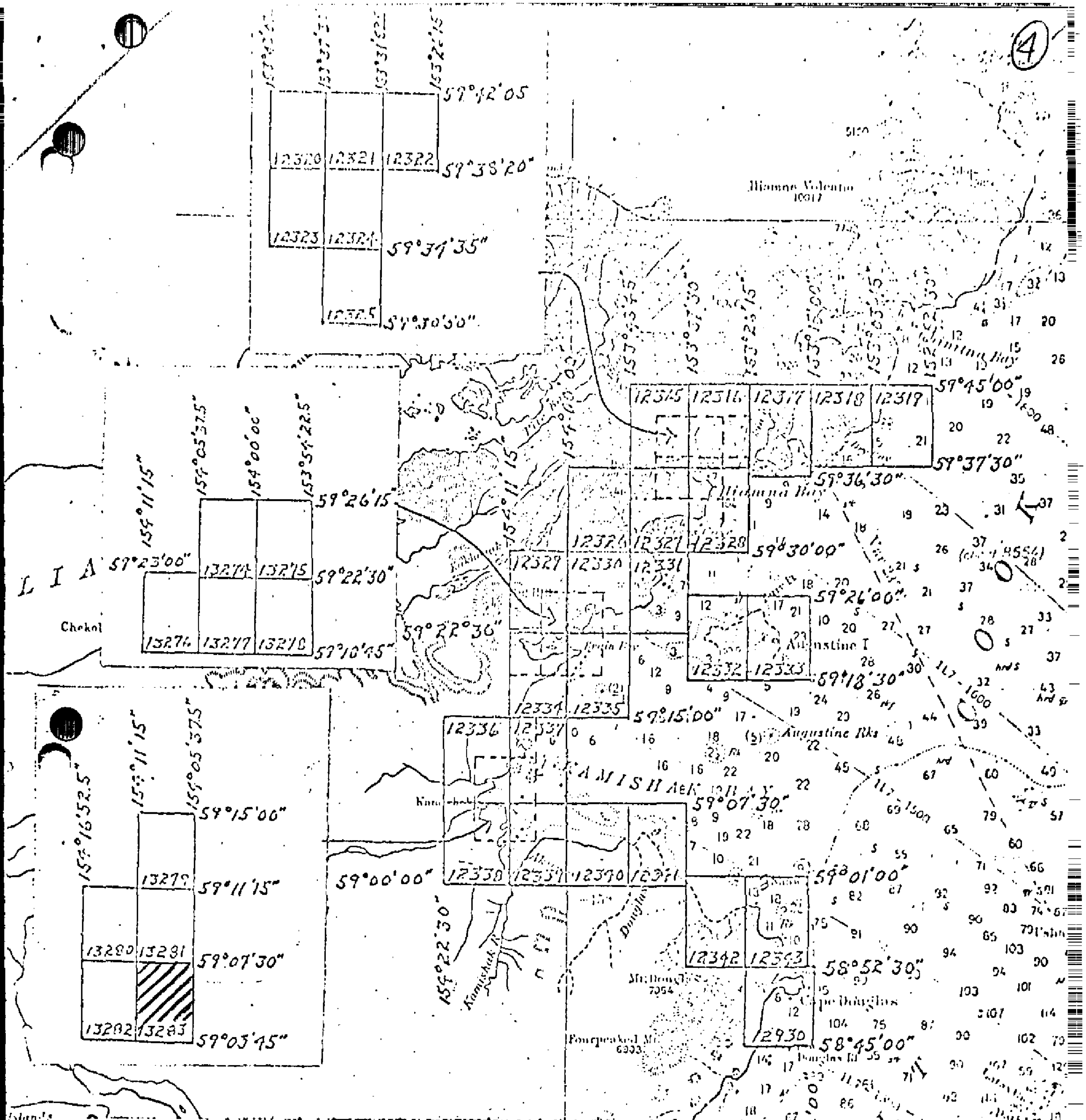
NUMBER OF TRIANGULATION STATIONS SEARCHED FOR (II):	1	RECOVERED: 1	IDENTIFIED: 1
NUMBER OF BM(S) SEARCHED FOR (II):	0	RECOVERED: 0	IDENTIFIED 0

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 in the compilation of T-12339



JOB PH-6301 (PART-1)

COOK INLET, ALASKA

SHORELINE MAPPING

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

Revised 4-3-68 LFV

(5)

SUMMARY

T-13283 is one of 40 shoreline maps comprising Job PH-6301 (Part 1) 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 July 1968

Final review was accomplished at the Rockville Office in May 1976

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

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T-13283

COMPILATION RECORD	COMPLETION DATE	REMARKS
Compilation complete pending field edit		
Alongshore area for hydro	May 1968	Superseded
Partial field edit applied	Sept. 1968	
Application of field edit complete	Nov. 1968	

FIELD INSPECTION

T-13283

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.

(8)

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

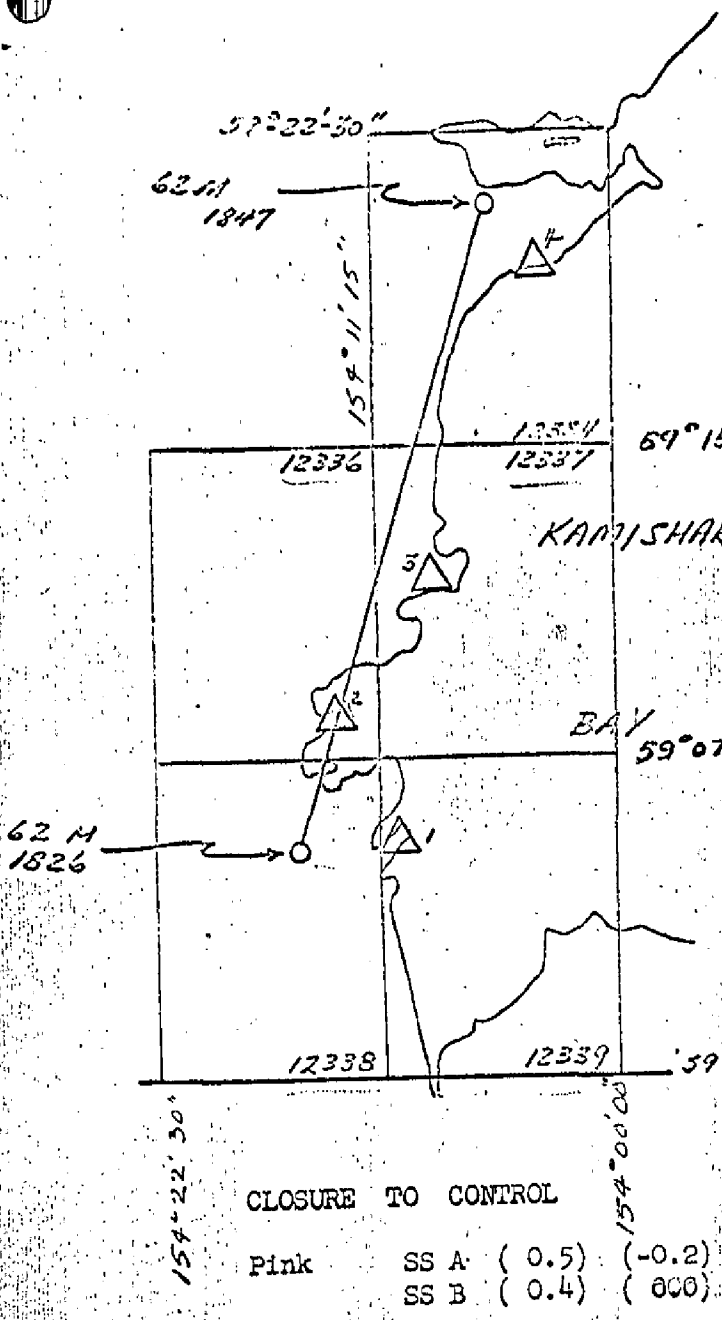
Photography was adequate with regard to coverage, overlap and image definition.

Respectfully submitted:

George M. Ball

Approved by:

Henry P. Eichert, Acting Chief
Aerotriangulation Section



MI-6301
Alaska
Cook Inlet
Kamishak Bay
Shoreline Mapping

o 1:50,000 RC69

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

CLOSURE TO CONTROL

Pink	SS A	(0.5)	(-0.2)
	SS B	(0.4)	(0.0)
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
Kamishak Bay, Alaska
T-13283
PH-6301

31. Delineation

The manuscript was delineated graphically using 62W ratio photography.

There was no field inspection prior to compilation.
(See page 11 for additional comments on delineation.)

32. Control

See Photogrammetric Plot Report for the 1:20,000 scale manuscripts of the same area.

Shoreline passpoints which were dropped on the 1:20,000 (T-12339) manuscript covering the same area were scaled off on the coordinatograph and replotted on this manuscript along with the bridge points for use as control.

33. Supplemental Data - None

34. Contours and Drainage - [illegible]

Contours are inapplicable.. Drainage was delineated from office interpretation of the photographs.

35. Shoreline and Alongshore Details

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

Any alongshore detail appearing on this manuscript which is not visible on the 62W ratios was taken from the 1:20,000 manuscript.

36. Offshore Details

All reefs, rocks, and shallow limits were delineated with 62M photography on the 1:20,000 manuscript and re-established on this manuscript.

37. Landmarks and Aids - None

38. Control for Future Surveys - None

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

(11)

T-13283

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 decided that the method used was the most expedient and accurate.

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

39. Junctions

Junctions are in agreement with T-12338 (1:20,000) and T-13282(1:10,000) to the west, T-12337 (1:20,000) and T-13281 (1:10,000) to the north and T-12339 (1:20,000) to the east and south.

40. Horizontal and Vertical Accuracy - No statement

41. thru 45. Inapplicable

46. Comparison with Existing Maps

Comparison has been made with USGS Quadrangle Iliamnia (A-4) scale, 1:63,360, dated 1951.

47. Comparison with Nautical Charts

Comparison was made with USC&GS chart No. 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,

Arnold L. Shands
Carto (Tech)
May 1968

Approved and forwarded:

J. Bull, RADM
Director, Atlantic Marine Center

(13)

FIELD EDIT REPORT

SHEET T-13283

HORSESHOE COVE

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 Field Edit Ozalid are in violet ink. Features to be deleted are marked in green. 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 135W, 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 correctly compiled. No measurements were necessary.

The field edit data for the area south of Lat. 59-06N will be shown on the Field Edit Ozalid for sheet T-12339, scale 1:20,000. This area is outside the limits of the 1:10,000 survey.

McNeil Head is a prominent feature and should be charted.

William R. Cameron

William R. Cameron
LTJG-USESSA
Photo Officer

Approved:

A. C. Holmes
CDR-USESSA
Commanding Officer

(15)

NOAA FORM 75-74
(2-74)

U.S. DEPARTMENT OF COMMERCE
NOAA
NATIONAL OCEAN SURVEY

PHOTOGRAMMETRIC OFFICE REVIEW

~~T-10363~~
T-13283

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

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
B.W.	XX	CHB

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

ALONGSHORE AREAS *(Nautical Chart Data)*

12. SHORELINE	13. LOW-WATER LINE	14. ROCKS, SHOALS, ETC.	15. BRIDGES
BW	BW	BW	XX
16. AIDS TO NAVIGATION	**17. LANDMARKS**	**18. OTHER ALONGSHORE PHYSICAL FEATURES**	**19. OTHER ALONGSHORE CULTURAL FEATURES**
NONE	NONE	BW	X

PHYSICAL FEATURES

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

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

CULTURAL FEATURES

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

BOUNDARIES

31. BOUNDARY LINES	32. PUBLIC LAND LINES
XX	XX

MISCELLANEOUS

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

36. DISCREPANCY OVERLAY	37. DESCRIPTIVE REPORT	38. FIELD INSPECTION PHOTOGRAPHS	39. FORMS
A.S.	BW	NONE	BW

40. REVIEWER	SUPERVISOR, REVIEW SECTION OR UNIT
B. Wilson 5/5/68	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 C.H. Bishop 11/26/68	A.C. Rauck, Jr.

43. REMARKS Field edit applied from: field edit ozalid, T-13283 and enlargement of T-12339.

SUPERSEDES C&GS FORM 1002 WHICH MAY BE USED UNTIL EXISTING STOCK IS DEPLETED.

Review Report T-13283
Shoreline Survey
May 1976

61. General Statement

Refer to item 31 in the Descriptive Report for detailed information concerning the unusual handling of the compilation of this map. The same area is covered at 1:20,000 scale on T-12339. To avoid repetition, that portion of T-12339 that covers this same area will not be reviewed.

62. Comparison with Registered Topographic Surveys - None

63. Comparison with Maps of Other Agencies

Refer to the Compilation Report, item 46.

64. Comparison with Contemporary Hydrographic Surveys

H-9001 1:20,000 1968-1970

Comparison was made with the final reviewed hydrographic survey. Some ledge symbol was removed during review where it conflicted with the hydrographer's soundings and depth curves.

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-13283
PH-6301
GEOGRAPHIC NAME LIST

Akumwarvik Bay

Horseshoe Cove

Kamishak Bay

McNeil Head

Pinkidulia Cove

NOAA FORM 76-41 FORMERLY FORM C&GS-(64)

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

DESCRIPTIVE REPORT CONTROL RECORD

MAP T- 13283 PROJECT NO. PH-6301 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)
PINK, 1964	Vol. IV p. 815	N.A. 1927	59°03'50.6508"	1567.3	(289.3)
			154°10'48.7483"	776.9	(179.3)

COMPUTED BY A.C. Rauck, Jr. DATE 4/22/68

CHECKED BY B. Wilson, A.L. Shands DATE 5/24/68, 5/5/68

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