T- 13276

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-13276

Classification No. Final *Edition No.* 1

Field Edited Map

LOCALITY

State Alaska

General Locality Kamishak Bay

Locality Bruin Bay, Head of

1962 TO 1971

REGISTRY IN ARCHIVES

DATE

T-13276

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

FORM C&GS-181a
(3-65)

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

(1)

DESCRIPTIVE REPORT - DATA RECORD

T-13276

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 1, Feb. 10, 1966
Office, Supplement II, May 5, 1967
Office, Supplement III, Dec. 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):
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):
N.A. 1927	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~~ mean lower low water*

REFERENCE STATION (III):

KAMAK, 1964

LAT.:	LONG.:	
59°18'41.7527" (1292.0M)	154°05'26.5475" (420.0M)	☒ ADJUSTED ☐ UNADJUSTED

PLANE COORDINATES (IV):		STATE	ZONE
Y = 1,940,341.11 ft.	X = 483,051.38 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-13276

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: Apr. 15, 1968
PROJECTION AND GRIDS CHECKED BY (IV): L.F. VanScoy	DATE: 4/16/68
CONTROL PLOTTED BY (III): J. Steinberg	DATE: 4/18/68
CONTROL CHECKED BY (III): E. Serena	DATE: 4/18/68
RADIAL PLOT OR STEREOSCOPIC CONTROL EXTENSION BY (III): G.M. Ball (for 1:20,000 compilation) T-12334 P.J. Dempsey (for 1:20,000 compilation) T-12334	DATE: 5/66 1/22/68
STEREOSCOPIC INSTRUMENT COMPILATION (III): PLANIMETRY: A.L. Shands	DATE: 4/68
CONTOURS: Inapplicable	DATE:
MANUSCRIPT DELINEATED BY (III): A.L. Shands	DATE: 5/68
SCRIBING BY (III):	DATE:
PHOTOGRAMMETRIC OFFICE REVIEW BY (III): L.L. Graves	DATE: Unknown

REMARKS:
Field edit by Alan P. Vonderohe in July 1971

USCOMM-DC 56930-P66

FORM C&GS-181c
(8-66)

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

(3)

DESCRIPTIVE REPORT - DATA RECORD

T-13276

CAMERA (KIND OR SOURCE) (III):

U.S.C&GS Type "W" and "M" *

PHOTOGRAPHS (III)

NUMBER	DATE	TIME	SCALE	STAGE OF TIDE
62W6629 - 32	6/18/62	1709	1:30,000	13.5' 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

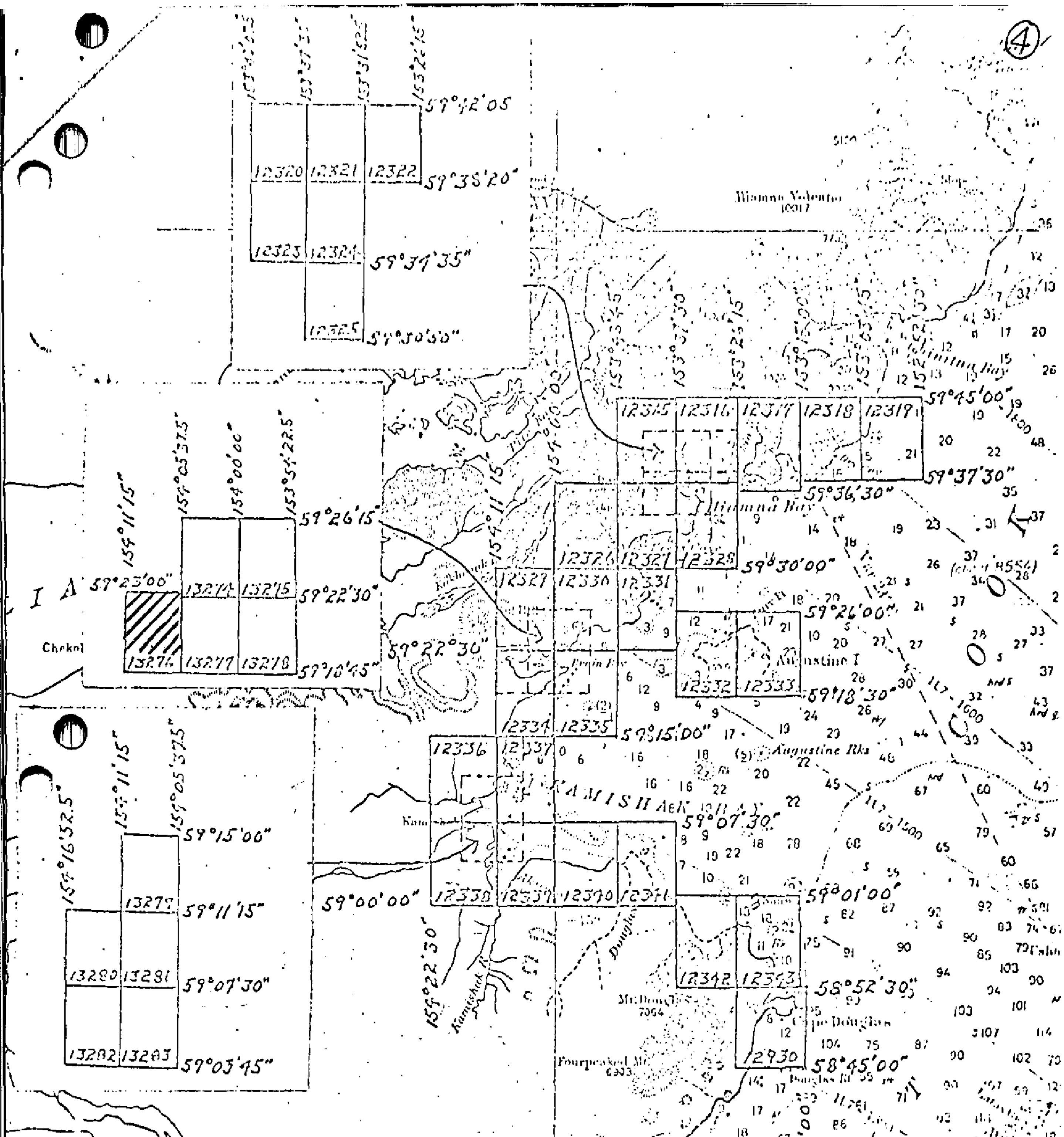
NUMBER OF RECOVERABLE PHOTO STATIONS ESTABLISHED (III): 0

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

REMARKS:

"M" photography at 1:50,000 and 1:60,000 scale used for compilation of T-12334

USCOMM-DC 56303C-P66



153°42'22.5"
153°37'37.5"
153°31'52.5"
153°26'15"
59°42'05"
12320
12321
12322
59°38'20"
12323
12324
59°34'35"
12325
59°30'50"
154°11'15"
154°05'37.5"
154°00'00"
153°54'22.5"
59°26'15"
59°23'00"
13274
13275
59°22'30"
13276
13277
13278
59°18'45"
154°16'52.5"
154°11'15"
154°05'37.5"
59°15'00"
13279
59°11'15"
13280
13281
59°07'30"
13282
13283
59°03'45"
Iliamna Volcano
12315
12316
12317
12318
12319
59°45'00"
59°37'30"
59°36'30"
Iliamna Bay
12326
12321
12328
59°30'00"
12327
12330
12331
59°26'00"
Augustine I
12332
12333
59°18'30"
59°22'30"
12334
12335
59°15'00"
12336
12337
Augustine Rks
KAMISHAK BAY
59°07'30"
59°00'00"
12338
12339
12340
12341
59°01'00"
12342
12343
58°52'30"
154°22'30"
Mt Douglas
7064
Cape Douglas
Fourpeaked Mt
6903
12930
58°45'00"
Black Cape

JOB PH-6301 (PART-1)

COOK INLET, ALASKA

SHORELINE MAPPING

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

Revised 4-3-68 LFV

SUMMARY

T-13276 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 July 1971

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-13276

COMPILATION RECORD	COMPLETION DATE	REMARKS
Compilation complete pending field edit		
Alongshore Area for Hydro	May 1968	Superseded
Field Edit Applied - Compilation complete	Nov. 1972	

FIELD INSPECTION

T-13276

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
Job PH-6301
Kamishak Bay, Alaska

January 22, 1968

21. Area Covered

This report covers the northern part of Kamishak Bay, Alaska, consisting of thirteen (13) 1:20,000 scale map manuscripts -- T-12315 thru T-12319, T-12326 thru T-12331, T-12334 and T-12335, and six (6) 1:10,000 scale map manuscripts -- T-12320 thru T-12325.

22. Method

Analytic aerotriangulation methods were used to bridge strips 1, 2 and 3 at 1:60,000 scale using premarked and field identified control. Numerous tie points were located to control strips 41, 42 and 43, which were bridged by stereoplanigraph.

The attached sketch of strips bridged shows the placement of triangulation used in the final strip adjustments. Closures to control are shown on the IBM readouts along with all the bridge points.

23. Adequacy of Control

Horizontal control was adequate for bridging strips 1, 2 and 3. Strips 41, 42 and 43 were bridged using tie points and are adequate. The premarked paneling at Station OIL, 1913 was removed prior to photography and could not be identified. Station TENDER, 1967 fell off of model and was not used. SKIN, 1967, Subpoint A and Subpoint B, were too poor to read and were not used in the adjustment.

24. Supplemental Data

Vertical control needed for the adjustment was taken from USGS quadrangles.

25. Photography

The definition and quality of the RC-9 and RC-8 photography were good. Ratio prints have been ordered to compilation scale.

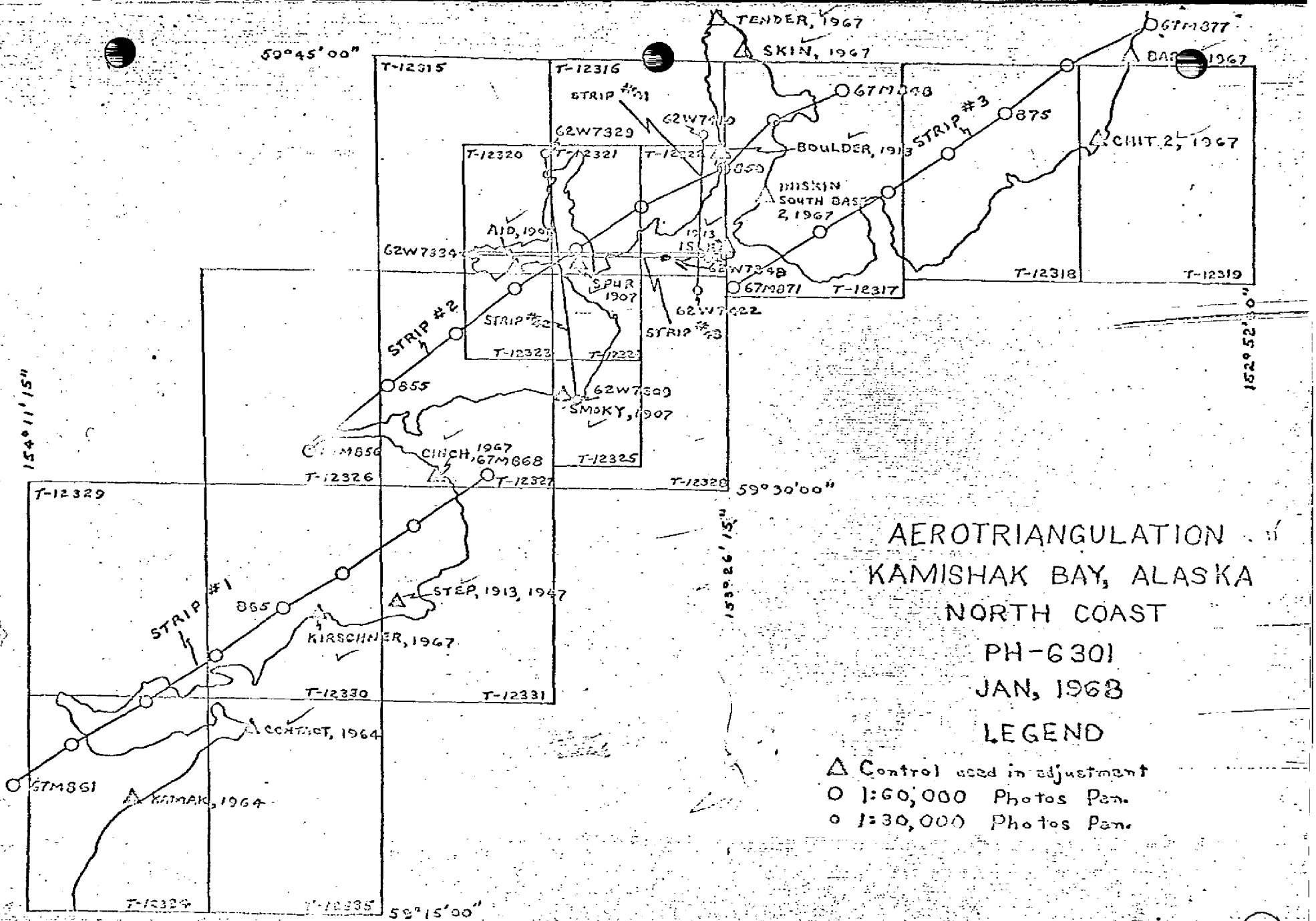
Submitted by:

P. J. Dempsey

Approved and forwarded:

H. P. Eichert, Chief
Aerotriangulation Section

12



AEROTRIANGULATION
KAMISHAK BAY, ALASKA
NORTH COAST
PH-6301
JAN, 1968

LEGEND

△ Control used in adjustment
○ 1:60,000 Photos Pan.
○ 1:30,000 Photos Pan.

Compilation Report
T-13276
Kamishak Bay
PH-6301

31. Delineation

The manuscript was compiled graphically using 62W ratio photography. Pass points used on the 67M rations in the compilation of the 1:20,000 manuscript (T-12334) were transferred to the 62W ratios for use as control. (Refer to next page)

There was no field inspection prior to compilation.

32. Control

See Photogrammetric Plot Report.

Pass Points which were dropped on the 1:20,000 manuscript (T-12334) covering the same area were scaled off on the coordinatograph and re-established on this manuscript along with the bridge points for use as control.

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 alongshore details were delineated from office interpretation of the photographs.

Any alongshore details appearing on this manuscript which are not visible on the 62W ratios were taken from the 1:20,000 scale manuscript (T-12334).

36. Offshore Details - None

37. Landmarks and Aids - None

38. Control for Future Surveys - None

39. Junctions

Junctions have been made with T-12329 (1:20,000) to the north, T-12334 (1:20,000) and T-13277(1:10,000) to the east, T-12334 (1:20,000) to the south. There is no contemporary survey to the west.

(11)

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

V3276

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

40. Horizontal and Vertical Accuracy - No statement

41. thru 45. Inapplicable

46. Comparison with Existing Maps

Comparison has been made with USGS Quadrangle ILIAMNA (B-3), Alaska, scale 1:63,360, dated 1954.

47. Comparison with Nautical Charts

Comparison has been made with USC&GS Chart No. 8554 (Cook Inlet-Southern Part) scale 1:200,000, dated May 10, 1965, 9th Edition.

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, AMC

T-13276
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-13276

LOWER COOK INLET

(BRUIN BAY)

PH-6301

JULY 1971

NOAA SHIP PATHFINDER

CAPT. H.R. LIPPOLD JR., CMDG.

51 Methods

The field edit of this map was done in accordance with photogrammetric instructions and project instructions to the Commanding Officer, NOAA SHIP PATHFINDER, dated 26 March 1971. A gently sloping beach made surf landings in skiffs a necessity when shore inspection was required. Sextant fixes were used to verify and locate objects that could not be seen or positively verified on the photographs.

All deletions, additions, verification 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. All features marked in green on the ozalid are to be deleted. Red circles on the ozalid indicate the approximate location of the signals used in the field work. Cross references on the field edit ozalid to the photographs are also a part of the compilation.

52 Adequacy of Compilation

Compilation of the manuscript was adequate and complete for all areas within the boundaries indicated on the field edit ozalid.

54 Recommendations

None

56 Additional Information

Time meridian 135°W was used for all the work on this sheet.

All photogrammetric and ground survey signals used during the project are listed on a sheet attached to the field edit ozalid and are also included in this report. Signals used for field edit fixes are included in the list.

All fixes taken during the field edit are identified by number on the field edit ozalid and also on the mylar prints. A running tabulation of this data appears on the field edit ozalid.

Alan P. Vonderohe

Alan P. Vonderohe
LTJG, NOAA
Photo Officer

Horizontal Control

Bruin Bay, Kamishak Bay

SIGNAL NAME	LATITUDE ° ' meters	LONGITUDE ° ' meters	ORIGIN OF POSITION photo	triangulation station
001	59 23 0307.0	153 56 0879.0	T-13275	
002	59 23 1629.0	153 57 0543.0	T-13275	
003	59 23 0940.0	153 58 0613.0	T-13275	
004	59 22 0916.0	154 00 0887.0	T-13274	
005	59 23 0622.0	154 02 0272.0	T-13274	
006	59 22 0891.0	154 04 0548.0	T-13274	
009	59 21 1207.0	154 03 0360.0	T-13277	
010	59 21 1768.0	154 03 0460.0	T-13277	
011	59 20 1660.0	154 03 0715.0	T-13277	
012	59 21 1280.0	154 02 0459.0	T-13277	
013	59 21 0534.0	154 02 0027.0	T-13277	
014	59 22 0098.0	154 01 0555.0	T-13277	
015	59 21 0710.0	153 59 0642.0	T-13278	
016	59 22 0537.0	153 59 0243.0	T-13278	
100	59 23 1550.7	153 58 0796.8	T-13275	
101	59 23 0173.0	153 59 0698.7	T-13275	
102	59 22 1523.5	153 59 0482.2	T-13275	
103	59 21 1816.7	153 58 0707.7	T-13278	
104	59 21 1450.6	153 57 0564.3	T-13278	
Contact	59 21 0909.0	153 57 0043.3	T-13278	CONTACT
BAY	59 23 0461.4	153 56 0694.9	T-13275	BAY (1913)
KIRSCHNER	59 25 0314.2	153 53 0111.9	T-12330	KIRSCHNER (1967)
200	59 24 0727.4	153 55 0195.6	T-13275	

(16A)

NOAA FORM 75-74
(2-74)

U.S. DEPARTMENT OF COMMERCE
NOAA
NATIONAL OCEAN SURVEY

PHOTOGRAMMETRIC OFFICE REVIEW

~~T-10363~~
T-13276

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	XX	LLG

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

40. REVIEWER	SUPERVISOR, REVIEW SECTION OR UNIT
L.L. Graves	A.C. Rauck

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
C. Blood	11/17/72	A.C. Rauck
S. Kumer	12/8/72	

43. REMARKS

Field edit applied from Field Edit Ozalid report

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

Review Report T-13276
Shoreline Survey
April 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. To avoid repetition, that portion of T-12334 that covers this same area at 1:20,000 scale has not been 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 - None

All of the low water lines were removed from this map during final review. The low water limit had been determined by hydrography and this limit falls on T-13277 which joins this sheet to the east.

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

Approved:

Chief, Photogrammetric Branch

Chief, Coastal Mapping Division

(18)

T-13276
PH-6301

48. Geographic Name List

Bruin Bay