

T-13277

T-13277

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-13277.....

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

Field Edited Map

LOCALITY

State Alaska.....

General Locality .. Kamishak Bay.....

Locality .. Bruin Bay, South Shore.....

1962 TO 1968, 1971

REGISTRY IN ARCHIVES

DATE

DESCRIPTIVE REPORT - DATA RECORD

T-13277

PROJECT NO. (II):
PH-6301

FIELD OFFICE (III): None	CHIEF OF PARTY
-----------------------------	----------------

PHOTOGRAMMETRIC OFFICE (III): Atlantic Marine Center, Norfolk, VA	OFFICER-IN-CHARGE J. Bull, Director
--	--

INSTRUCTIONS DATED (II) (III):

- Office, March 18, 1965
- Office, Supplement I, 2/10/66
- Office, Supplement II, 3/5/67
- 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): 10,000	STEREOSCOPIC PLOTTING INSTRUMENT SCALE (III):
-----------------------------------	---

DATE RECEIVED IN WASHINGTON OFFICE (IV):	DATE REPORTED TO NAUTICAL CHART BRANCH (IV):
--	--

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

GEOGRAPHIC DATUM (III): N.A. 1927	VERTICAL DATUM (III): MHW MEAN LOW WATER EXCEPT AS FOLLOWS: Elevations shown as (25) refer to mean high water Elevations shown as (3) refer to sounding datum i.e. mean lower low water
--------------------------------------	---

REFERENCE STATION (III):
KAMAK, 1964

LAT.: 59°18'41.7527" (1292.0M)	LONG.: 154°05'26.5475" (420.0M)	<input checked="" type="checkbox"/> ADJUSTED <input type="checkbox"/> UNADJUSTED
-----------------------------------	------------------------------------	---

PLANE COORDINATES (IV): y = 940,341.11 ft. x = 483,051.38 ft.	STATE Alaska	ZONE 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.

DESCRIPTIVE REPORT - DATA RECORD
T-13277

FIELD INSPECTION BY (III): None		DATE:
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 4/15/68
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
STEREOSCOPIC INSTRUMENT COMPILATION (III):	PLANIMETRY A.L. Shands	DATE 4/68
	CONTOURS Inapplicable	DATE
MANUSCRIPT DELINEATED BY (III): C.E. Blood		DATE 5/68
SCRIBING BY (III):		DATE
PHOTOGRAMMETRIC OFFICE REVIEW BY (III): Unknown		DATE

REMARKS: Field edit by Alan P. Vonderohe July 1971
(field edit also accomplished in 1968)

DESCRIPTIVE REPORT - DATA RECORD
T-13277

CAMERA (KIND OR SOURCE) (iii):

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

PHOTOGRAPHS (iii)

NUMBER	DATE	TIME	SCALE	STAGE OF TIDE
62W6633-6636	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
COORDINATE 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): 1

RECOVERED: 1

IDENTIFIED: 1

NUMBER OF BMS(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.

SUMMARY

T-13277 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-13277

COMPILATION RECORD

COMPLETION DATE

REMARKS

Compilation complete pending field edit		
Alongshore area for hydro	May 1968	Superseded
Field edit applied	Nov. 1972	

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
P. J. Dempsey

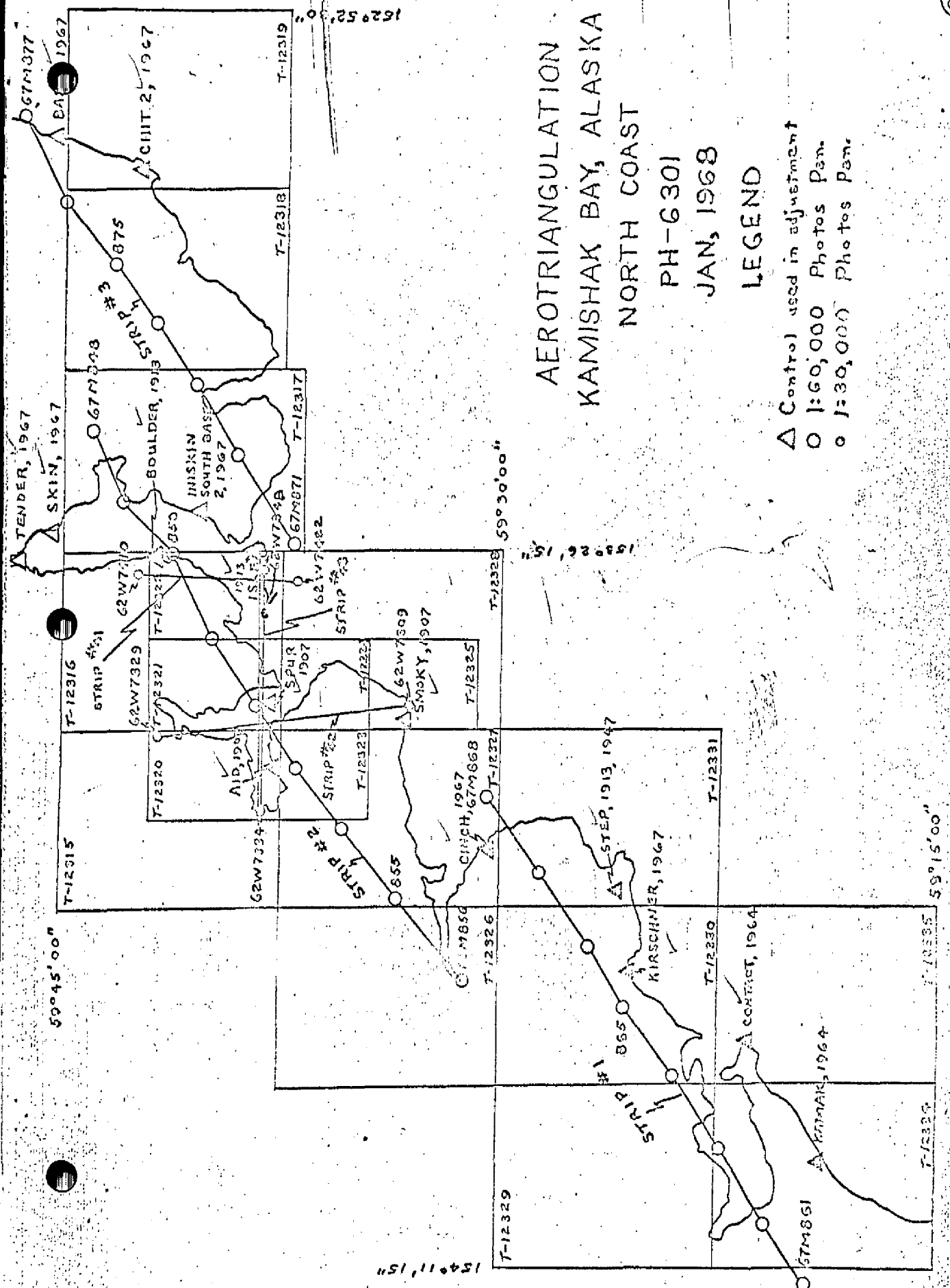
Approved and forwarded:
H. P. Eichert
H. P. Eichert, Chief
Aerotriangulation Section

AEROTRIANGULATION KAMISHAK BAY, ALASKA NORTH COAST

PH-6301
JAN, 1968

LEGEND

- Δ Control used in adjustment
- \circ 1:60,000 Photos Pan.
- \circ 1:30,000 Photos Pan.



Compilation Report
T-13277

31. Delineation

Photography was satisfactory. The area of this manuscript was previously compiled with the Wild B-8 plotter at 1:20,000 scale (NE quarter of T-12334) using "M" photos at extreme low tide. (See next page)

The same readout positions of bridge passpoints and shoreline passpoints from the 1:20,000 scale manuscript, were scaled on the coordinatograph and recorded. Later, these recorded positions were replotted on the 1:10,000 scale sheet.

The ledge and sand and gravel limits and the top of bluff lines (except for minor graphic revision of the bluff) are a vertical enlargement of the 1:20,000 scale compilation. The mean high water line (MHWL) and the rocks, bare and awash, were graphically compiled from the 1962 "W" photos.

Due to a shadow from a high bluff between Lat 59°19'; Long. 154°03' and Lat 59°20', Long. 154°01', the MHWL could not be seen, therefore, an approximate MHWL has been shown.

32. Control - See Photogrammetric Plot Report

33. Supplemental Data - None

34. Contours and Drainage

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

35. Shoreline and Alongshore Details

Shoreline and alongshore details were delineated by office interpretation of photographs. See item 31 for use of approximate MHWL.

36. Offshore Details - No statement

37. Landmarks and Aids - None

38. Control for Future Surveys - None

39. Junctions

Satisfactory junctions were made with T-13274 to the North, T-13276 to the West, T-13278 to the East and 1:20,000 scale manuscript T-12334 to the South.

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

10

T-13277

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 alternative 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 Accuracy - No statement

41. thru 45. Inapplicable

46. Comparison with Existing Maps

A comparison was made with USGS quadrangle ILIAMNA, ALASKA, dated 1952 scale 1:250,000.

47. Comparison with Nautical Charts

Comparison has been made with C&GS chart 8554 scale 1:200,000, 9th Edition, May 10, 1965.

Items to be Applied to Nautical Charts Immediately - None

Items to be Carried Forward - None.

Submitted

Charles E. Blood
Carto (Tech)
May 1968

Approved:

J. Bull, RADM
Director, AMC

FIELD EDIT REPORT

SHEET T-13277

LOWER COOK INLET

(BRUIN BAY)

PH-6301

JULY 1971

NOAA SHIP PATHFINDER

CAPT. H.R. LIPPOLO 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 this 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

Field edit was accomplished on this sheet in both 1968 and 1971. The data presented on the field edit ozalid has been color-coded to distinguish between these two year's work.

The 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 and is part of this report.

Alan P. Vonderohe
Alan P. Vonderohe
LTJG, NOAA
Photo Officer

Horizontal Control

Bruin Bay, Kamishak Bay

<u>SIGNAL NAME</u>	<u>LATITUDE</u> meters	<u>LONGITUDE</u> meters	<u>ORIGIN OF POSITION</u>	
			<u>photo</u>	<u>triangulation station</u>
001	59 23 0307.0	153 56 0879.0	T-13275	
002	59 23 1629.0	153 57 0843.0	T-13275	
003	59 23 0940.0	153 58 0613.0	T-13275	
004	59 22 0916.0	154 00 0397.0	T-13274	
006	59 23 0622.0	154 02 0272.0	T-13274	
008	59 22 0391.0	154 04 0548.0	T-13274	
009	59 21 1207.0	154 03 0350.0	T-13277	
010	59 21 1768.0	154 03 0460.0	T-13277	
011	59 20 1660.0	154 03 0713.0	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 0093.0	154 01 0355.0	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 0664.3	T-13278	
Contact	59 21 0909.0	153 57 0043.3	T-13278	CONTACT
SAY,	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 0193.6	T-13275	

FIX NO.	TIME DATE	OBJECT	HEIGHT (DEPTH)	DATUM	LOCATION	
					SIGNALS	ANGLES
219	1008	Rock on boulder line	9 (5) +3 ft.	Water	006	97° 48'
	8/25/71				010 011	26° 39'
221	1013	Rock on boulder line	6 (2) +½ ft.	Water	SAME	92° 10'
	8/25/71					
222	1016	Rock on boulder line	16 (6) +4 ft.	Water	SAME	82° 46'
	8/25/71					
223	1020	Rock on boulder line	15 (9) +8 ft.	Water	SAME	66° 00'
	8/25/71					
224	1022	Rock on boulder line	AW MLLW +½ ft.	Water	SAME	59° 28'
	8/25/71					
225	1025	Rock on boulder line	15 (5) +4 ft.	Water	SAME	50° 15'
	8/25/71					
227	1033	Rock on boulder line	13 (4) +3 ft.	Water	010	26° 35'
	8/25/71				009 011	38° 12'
226	1052	Rock on boulder line	13 (2) +1 ft.	Water	SAME	57° 35'
	8/25/71					
229	1054	Rock on boulder line	13 (3) +2 ft.	Water	SAME	81° 50'
	8/25/71					
230	1056	Rock on boulder line	Awash	Water	SAME	79° 26'
	8/25/71					
231	1058	Rock on boulder line	(2) +1 ft.	Water	SAME	72° 24'
	8/25/71					
253	1103	Rock on boulder line	(4) +2½ ft.	Water	006	113° 28'
	8/25/71				010 009	52° 04'

FIX NO.	DATE	OBJECT	HEIGHT (DEPTH)	DATUM	LOCATION	
					SIGNALS	ANGLES
234	1105 8/25/71	Rock on boulder line	1.3 (3) +2 ft.	Water	016 010 009	91° 36' 27° 00'
235	1109 8/25/71	Rock on boulder line	1.4 <i>Aw MLLW</i> +½ ft.	Water	SAME	102° 17' 17° 17'
236	1112 8/25/71	Rock on boulder line	(2) +1 ft.	Water	008 004 016	54° 45' 13° 04'
237	1116 8/25/71	Rock on boulder line	Awash <i>MLLW</i>	Water	SAME	57° 38' 14° 20'
238	1119 8/25/71	Rock on boulder line	(4) +3 ft.	Water	008 006 004	83° 50' 62° 23'
239	1123 8/25/71	Rock on boulder line	(4) +3 ft.	Water	008 006 016	89° 53' 84° 04'
240	1129 8/25/71	Rock on boulder line	Awash <i>MLLW</i>	Water	006 004 016	89° 30' 14° 45'
241	1131 8/25/71	Rock on boulder line	1.7 (4) +2½ ft.	Water	SAME	80° 10' 21° 24'
242	1135 8/25/71	Rock on boulder line	(2) +½ ft.	Water	008 006 016	65° 33' 98° 30'
243	1141 8/25/71	Isolated rock	Awash <i>MLLW</i>	Water	015 013 011	85° 25' 22° 55'
244	1145 8/25/71	Isolated rock	(3) +1 ft.	Water	SAME	82° 20' 36° 08'
245	1149 8/25/71	Isolated rock	(3) +1 ft.	Water	SAME	79° 00' 43° 55'

FYI NO.	DATE	OBJECT	HEIGHT (DEPTH)	DATUM	LOCATION	
					SIGNALS	ANGLES
246	1151	Isolated rock	2.8 (3) +½ ft.	Water	015	74° 12'
	8/25/71				013	54° 45'
247	1153	Isolated rock	(3) +1 ft.	Water	SAME	64° 48'
	8/25/71					60° 15'
248	1154	Isolated rock	(2) Awash	Water	SAME	64° 13'
	8/25/71					61° 52'
249	1200	Rock on boulder line	(3) +1 ft.	Water	012	73° 34'
	8/25/71				014	28° 10'
250	1203	Rock on boulder line	(3) +½ ft.	Water	SAME	77° 13'
	8/25/71					23° 33'
251	1206	Rock on boulder line	(3) +½ ft.	Water	015	85° 22'
	8/25/71				013	54° 49'
252	1208	Rock on boulder line	(4) +2 ft.	Water	SAME	69° 51'
	8/25/71					60° 04'
253	1210	Rock on boulder line	(3) +½ ft.	Water	SAME	47° 35'
	8/25/71					86° 04'
254	1216	Rock on boulder line	2.9 (4) +½ ft.	Water	SAME	32° 48'
	8/25/71					89° 11'
255	1223	Edge of ledge	(4) +3 ft.	Water	SAME	35° 26'
	8/25/71					79° 54'
256	1225	Edge of ledge	(4) +3 ft.	Water	SAME	36° 14'
	8/25/71					80° 12'
257	1228	Edge of ledge	(4) +3 ft.	Water	SAME	38° 36'
	8/25/71					77° 24'



U.S. DEPARTMENT OF COMMERCE
National Oceanic and Atmospheric Administration
NATIONAL OCEAN SURVEY

18

Date : Nov.21,1972

Reply to Attn. of:

To : Reviewers.

From : Albert C. Rauck, Jr.
Coastal Mapping

Subject: Field edit ozalids on Job Ph-6301

You will note that several of the field edit ozalids for this project have a multitude of 3-point fixes lettered in purple.

One sheet has as many as 168 fixes assigned to the location of the outer edge of rock ledge. All of these were plotted and checked and when thus located, were laid over the ozalid on a light table. It was found that the plotted positions of these fixes coincided exactly with those on the ozalid.

It was suspected and later proven by a phone call to Mr. George Fernandes, that this is exactly what the field editor did after he plotted his fixes on his film ozalid furnished for this purpose. Mr. Fernandes verified this by conversation with the field works officer and his officers.

It was found to be not practical to re-plot these fixes again and the data was taken directly from the ozalids and applied to the map manuscripts. Phone verification was made 12:45 P.M. Nov.21,1972.

PHOTOGRAMMETRIC OFFICE REVIEW
T-13277 ~~T-10263~~

1. PROJECTION AND GRIDS		2. TITLE		3. MANUSCRIPT NUMBERS		4. MANUSCRIPT SIZE	
CONTROL STATIONS							
5. HORIZONTAL CONTROL STATIONS OF THIRD-ORDER OR HIGHER ACCURACY				6. RECOVERABLE HORIZONTAL STATIONS OF LESS THAN THIRD-ORDER ACCURACY (Topographic stations) XX		7. PHOTO HYDRO STATIONS	
8. BENCH MARKS XX		9. PLOTTING OF SEXTANT FIXES		10. PHOTOGRAMMETRIC PLOT REPORT		11. DETAIL POINTS	
ALONGSHORE AREAS (Nautical Chart Data)							
12. SHORELINE		13. LOW-WATER LINE		14. ROCKS, SHOALS, ETC.		15. BRIDGES XX	
16. AIDS TO NAVIGATION		17. LANDMARKS		18. OTHER ALONGSHORE PHYSICAL FEATURES		19. OTHER ALONGSHORE CULTURAL FEATURES	
PHYSICAL FEATURES							
20. WATER FEATURES				21. NATURAL GROUND COVER		22. PLANETABLE CONTOURS XX	
23. STEREOSCOPIC INSTRUMENT CONTOURS XX		24. CONTOURS IN GENERAL XX		25. SPOT ELEVATIONS XX		26. OTHER PHYSICAL FEATURES	
CULTURAL FEATURES							
27. ROADS		28. BUILDINGS		29. RAILROADS XX		30. OTHER CULTURAL FEATURES	
BOUNDARIES							
31. BOUNDARY LINES XX				32. PUBLIC LAND LINES XX			
MISCELLANEOUS							
33. GEOGRAPHIC NAMES				34. JUNCTIONS		35. LEGIBILITY OF THE MANUSCRIPT	
36. DISCREPANCY OVERLAY		37. DESCRIPTIVE REPORT		38. FIELD INSPECTION PHOTOGRAPHS		39. FORMS	
40. REVIEWER Unknown				SUPERVISOR, REVIEW SECTION OR UNIT 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 C. Blood 12/1/72 S. Kume 12/8/72				SUPERVISOR A.C. Rauck			
43. REMARKS Field edit applied from : Field edit report and ozalid							

Review Report T-13277
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

- H-9100 1:10,000 1968-1971
- H-9072 1:20,000 1969-1971

Comparison has been made with both of the final reviewed hydrographic surveys. Differences exist in elevations of rocks, due to the hydrographer's use of actual tide readings and difficulties encountered in tide determinations by the hydrographer. Refer to the Hydrographic Survey Report for H-9100. During review most of the low water line and the foul limit lines were removed from the Class I manuscript. The hydrographer had developed these areas with soundings and had furnished the position of the low water line.

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: *[Signature]*
Chief, Photogrammetric Branch

[Signature]
Chief, Coastal Mapping Division

T-13277
PH-6301

48. Geographic Name List

Bruin Bay

Cook Inlet

Kamishak Bay

