

T-13274

T-13274

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-13274.....
Classification No. Final Edition No. ..1.....
Field Edited Map

LOCALITY

State Alaska.....
General Locality ... Kamishak Bay.....
Locality Bruin Bay, Big Hill.....

1962 TO 1968-71

REGISTRY IN ARCHIVES

DATE

DESCRIPTIVE REPORT - DATA RECORD

T-13274

①

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 - 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):

1:10,000

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): HIGH WATER

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 lower low water~~

REFERENCE STATION (III):

KIRSCHNER, 1967

LAT.:

59°25'10.175" (314.9M)

LONG.:

153°53'07.112" (112.2M)

ADJUSTED
 UNADJUSTED

PLANE COORDINATES (IV):

1,979,779.31 ft.

x = 521,361.98 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-13274

FIELD INSPECTION BY (III): None		DATE:
MEAN HIGH WATER LOCATION (III) (STATE DATE AND METHOD OF LOCATION): Air Photo Compilation - 6/29/62 date of photography		
PROJECTION AND GRIDS RULED BY (IV): A. Bethea		DATE 4/11/68
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): V.E. Serena		DATE 4/18/68
RADIAL PLOT OR STEREOSCOPIC CONTROL EXTENSION BY (III): P.J. Dempsey (for 1:20,000 compilation) T-12329		DATE 1/22/68
STEREOSCOPIC INSTRUMENT COMPILATION (III): Graphic	PLANIMETRY A. Shands	DATE 4/24/68
	CONTOURS Inapplicable	DATE
MANUSCRIPT DELINEATED BY (III): A.L. Shands		DATE 5/68
SCRIBING BY (III):		DATE
PHOTOGRAMMETRIC OFFICE REVIEW BY (III): A.L. Shands		DATE 5/68
REMARKS: Field edit by Alan P. Vonderohe 7/71 (Field edit also accomplished in 1968)		

DESCRIPTIVE REPORT - DATA RECORD
T-13274

3

CAMERA (KIND OR SOURCE) (III):

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

PHOTOGRAPHS (III)

NUMBER	DATE	TIME	SCALE	STAGE OF TIDE
62W7183-7186	6/29/62	1445	1:30,000	8.5' above MLLW

Predicted

TIDE (III)

Diurnal

	RATIO OF RANGES	MEAN RANGE	FREE 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: 4/76

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 1:60,000 scale used for compilation of T-12329

SUMMARY

T-13274 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 1968 and 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-13274

COMPILATION RECORD	COMPLETION DATE	REMARKS
Compilation complete pending field edit		
Alongshore area for hydro.	May 1968	Superceded
Field Edit Applied Compilation complete	Nov. 1972	

7

FIELD INSPECTION

④-T-13274

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
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

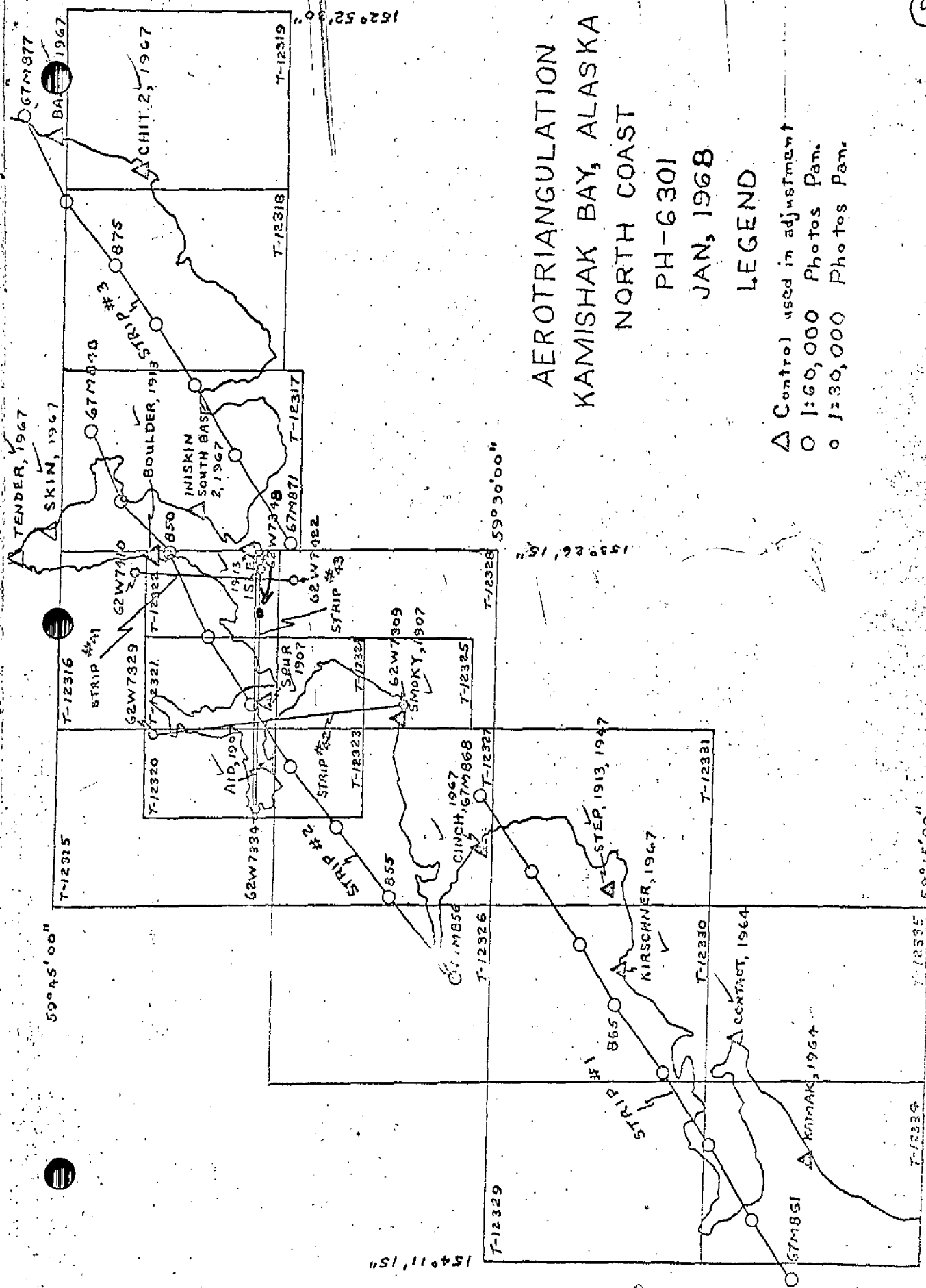
Vertical control needed for the adjustment was taken from USGS quadrangles.

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

- △ Control used in adjustment
- 1:60,000 Photos Pam.
- 1:30,000 Photos Pam.

Compilation Report
T-13274
Kamishak Bay
PH-6301

31. Delineation (see page 11)

The manuscript was compiled graphically using 62W ratio photography.

There was no field inspection prior to compilation.

32. Control

See Photogrammetric Plot Report.

The pass points which were dropped on the 1:20,000 scale manuscript (T-12329) covering the same area were scaled off on the coordinatograph and reestablished on this manuscript along 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 shown on this manuscript which do not appear on the 62W ratios were from the 1:20,000 scale manuscript (T-12329).

36. Offshore Details

The rocks and islands which appear offshore were delineated from office interpretation of the photographs.

37. Landmarks and Aids - None

38. Control for Future Surveys - None

39. Junctions

Junctions are in agreement with T-12329 (1:20,000) to the north, T-12329 (1:20,000) and T-13276 (1:10,000) to the west, T-12334 (1:20,000) and T-13277 (1:10,000) to the south, and T-12330 (1:20,000) and T-13275 (1:10,000) to the east.

40. Horizontal and Vertical Accuracy - None

T-13274

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

11

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^R 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} 62W photos, and the vertical projector ratio of 2X, and ^{the} essence of meeting the June 15, 1968 ship schedule, it ~~was agreed~~ that the method used was the most expedient and accurate.

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

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 17, 1968

Approved and forwarded:

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

Approved:

Alfred C. Holmes
RADM, NOAA
Director, AMC

T-13274
Addendum to Compilation Report

Rock-Fix 213 plots 500 meters west of indicated position on the field edit ozalid and roughly 1,000 meters from the approximate MLLWL, and was deleted from map. It was computed to be (3) above MHW. It appears to be near shoreline on photograph.

Fix 95 was deleted photo cut in position was used for this rock, see photo 62W7185.

Tide curves were computed at 150°W "1" hour was deducted from all given times (1968 and 1971) for rock heights.

Charles Blood
November 15, 1972

PH-6301

14

T - 13274

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 inadvertently 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".

15

FIELD EDIT REPORT

SHEET T-13274 7'

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 SWIP 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.

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

POINT NAME	LATITUDE meters	LONGITUDE meters	ORIGIN OF POSITION	
			photo	triangulation station
1001	59 23 0307.0	153 56 0379.0	T-13275	
1002	59 23 1629.0	153 57 0343.0	T-13275	
1003	59 23 0940.0	153 58 0613.0	T-13275	
1004	59 22 0916.0	154 00 0887.0	T-13274	
1006	59 23 0622.0	154 02 0272.0	T-13274 ✓	
1008	59 22 0391.0	154 04 0548.0	T-13274 ✓	
1009	59 21 1207.0	154 03 0360.0	T-13277	
1016	59 21 1768.0	154 03 0460.0	T-13277	
1011	59 20 1660.0	154 03 0713.0	T-13277	
1012	59 21 1280.0	154 02 0459.0	T-13277	
1013	59 21 0534.0	154 02 0027.0	T-13277	
1014	59 22 0098.0	154 01 0355.0	T-13277	
1015	59 21 0710.0	153 59 0642.0	T-13278	
1016	59 22 0537.0	153 59 0243.0	T-13278	
1000	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
RAY	59 23 0461.4	153 56 0694.9	T-13275	SAY (1963)
KIRSCHNER	59 25 0314.2	153 53 0111.9	T-12530	KIRSCHNER (1967)
200	59 24 0727.4	153 55 0193.6	T-13275	

PHOTOGRAMMETRIC OFFICE REVIEW

T-13274 ~~11036~~

1. PROJECTION AND GRIDS ALS	2. TITLE ALS	3. MANUSCRIPT NUMBERS ALS	4. MANUSCRIPT SIZE ALS
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CONTROL STATIONS			
5. HORIZONTAL CONTROL STATIONS OF THIRD-ORDER OR HIGHER ACCURACY ALS	6. RECOVERABLE HORIZONTAL STATIONS OF LESS THAN THIRD-ORDER ACCURACY (Topographic stations) XX	7. PHOTO HYDRO STATIONS ALS	
8. BENCH MARKS XX	9. PLOTTING OF SEXTANT FIXES CEB	10. PHOTOGRAMMETRIC PLOT REPORT ALS	11. DETAIL POINTS ALS

ALONGSHORE AREAS (Nautical Chart Data)			
12. SHORELINE ALS	13. LOW-WATER LINE ALS	14. ROCKS, SHOALS, ETC. ALS	15. BRIDGES XX
16. AIDS TO NAVIGATION ALS	17. LANDMARKS ALS	18. OTHER ALONGSHORE PHYSICAL FEATURES ALS	19. OTHER ALONGSHORE CULTURAL FEATURES ALS

PHYSICAL FEATURES			
20. WATER FEATURES ALS	21. NATURAL GROUND COVER XX		22. PLANETABLE CONTOURS XX
23. STEREOSCOPIC INSTRUMENT CONTOURS XX	24. CONTOURS IN GENERAL XX	25. SPOT ELEVATIONS XX	26. OTHER PHYSICAL FEATURES ALS

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

BOUNDARIES			
31. BOUNDARY LINES XX		32. PUBLIC LAND LINES XX	

MISCELLANEOUS			
33. GEOGRAPHIC NAMES ALS	34. JUNCTIONS CEB		35. LEGIBILITY OF THE MANUSCRIPT ALS
36. DISCREPANCY OVERLAY ALS	37. DESCRIPTIVE REPORT ALS	38. FIELD INSPECTION PHOTOGRAPHS CEB	39. FORMS CEB

40. REVIEWER A.L. Shands	5/68	SUPERVISOR, REVIEW SECTION OR UNIT A.C. Rauck	
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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. Parker 11/72 checked by C.E. Blood 11/72	SUPERVISOR A.C. Rauck		
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43. REMARKS Field edit applied from: field edit ozalid and field edit photos 62W7185, field edit report & ozalid

Review Report T-13274
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 unnecessary repetition, T-12329 covering this same area at 1:20,000 scale, was not reviewed and will remain a Class I manuscript. The hydrographic survey reviewer used both manuscripts for his review of the hydro sheet H-9100. The results of those portions of this review which apply to reviewed hydrographic surveys will be brought to the attention of the Chief, Hydrographic Survey Branch by memorandum.

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

Comparison has been made with the final reviewed hydrographic survey. Differences exist in elevations of rocks, due to the hydrographer's use of actual tide readings and difficulties encountered in the tide determinations by the hydrographer. Refer to the Hydrographic Survey Report for H-9100.

During review the low water line in Bruin Bay was removed since the hydrography had disproved the photogrammetric location.

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 National 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