

10574

10574

| | |
|---|------------------------------|
| FORM C&GS-504 | |
| U.S. DEPARTMENT OF COMMERCE ENVIRONMENTAL SCIENCE SERVICES ADMINISTRATION COAST AND GEODETIC SURVEY | |
| DESCRIPTIVE REPORT | |
| Type of Survey | * Shoreline(Photogrammetric) |
| Field No. | Office No. T-10574 |
| LOCALITY | |
| State | Alaska |
| General locality | Tonowek Bay |
| Locality | Warm Chuck Inlet |
| 1955 - 19 56 | |
| CHIEF OF PARTY | |
| W. F. Deane, Baltimore District Office | |
| LIBRARY & ARCHIVES | |
| DATE | |

* THIS IS AN "INCOMPLETE" SURVEY. REFER TO PAGES 14 AND 15

USCOMM-DC 37022-P66

DESCRIPTIVE REPORT - DATA RECORD

T-10574

THESE RECORDS ARE INCOMPLETE - REFER TO "REMARKS" AT BOTTOM OF PAGE 3

PROJECT NO. (II):

PH-87

FIELD OFFICE (III):

USC&GS Ship HODGSON

CHIEF OF PARTY

PHOTOGRAMMETRIC OFFICE (III):

Baltimore, Maryland

OFFICER-IN-CHARGE

William F. Deane

INSTRUCTIONS DATED (II) (III):

Office: 7 Nov. 1955
13 Nov. 1956
15 July 1957
30 Oct. 1957

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):

NA 1927

VERTICAL DATUM (III): MHW

~~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 or mean lower low water

REFERENCE STATION (III):

SILLA, 1914

LAT.:

55° 44' 04.895"

LONG.:

133° 29' 12.249"

☒ ADJUSTED☐ UNADJUSTED

PLANE COORDINATES (IV):

STATE

ZONE

Y =

X =

Alaska

UTM 8

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

| | | |
|--|------------|---------------------------|
| FIELD INSPECTION BY (III): | | DATE: |
| MEAN HIGH WATER LOCATION (III) (STATE DATE AND METHOD OF LOCATION): Office interpretation of August 1955 and August 1956 nine-lens photography | | |
| PROJECTION AND GRIDS RULED BY (IV): Haskins | | DATE December 1957 |
| PROJECTION AND GRIDS CHECKED BY (IV): I. Y. Fitzgerald | | DATE December 1957 |
| CONTROL PLOTTED BY (III): | | DATE |
| CONTROL CHECKED BY (III): | | DATE |
| RADIAL PLOT OR STEREOSCOPIC CONTROL EXTENSION BY (III): E. L. Williams | | DATE January 1958 |
| STEREOSCOPIC INSTRUMENT COMPILATION (III): | PLANIMETRY | DATE |
| | CONTOURS | DATE |
| MANUSCRIPT DELINEATED BY (III): | | DATE |
| SCRIBING BY (III): | | DATE |
| PHOTOGRAMMETRIC OFFICE REVIEW BY (III): | | DATE |
| REMARKS: | | |

DESCRIPTIVE REPORT - DATA RECORD

CAMERA (KIND OR SOURCE) (III):

Nine-lens

PHOTOGRAPHS (III)

| NUMBER | DATE | TIME | SCALE | STAGE OF TIDE |
|------------------|---------|------|----------|-----------------|
| 52006 thru 52008 | 8-22-55 | 0915 | 1:10,000 | 1.5' above MLLW |
| 54603 | 8-12-56 | 1508 | 1:10,000 | 6.6' above MLLW |

TIDE (III)

Diurnal

| | RATIO OF RANGES | MEAN RANGE | SPRING RANGE |
|--------------------------------------|-----------------|------------|--------------|
| REFERENCE STATION: Sitka | | 7.7 | 9.9 |
| COORDINATE STATION: Warm Chuck Inlet | | 8.0 | 10.2 |
| SUBORDINATE STATION: | | | |

WASHINGTON OFFICE REVIEW BY (IV): Leo F. Beugnet, Atlantic Marine
CenterDATE:
May 1969

PROOF EDIT BY (IV):

DATE:

NUMBER OF TRIANGULATION STATIONS SEARCHED FOR (II):

RECOVERED:

IDENTIFIED:
3

NUMBER OF BM(S) SEARCHED FOR (II):

RECOVERED:

IDENTIFIED

NUMBER OF RECOVERABLE PHOTO STATIONS ESTABLISHED (III):

NUMBER OF TEMPORARY PHOTO HYDRO STATIONS ESTABLISHED (III):

REMARKS:

Form 181a, 181b and 181c prepared by the final reviewer. There are no other data.

T-10574

| COMPILATION RECORD | COMPLETION DATE | REMARKS |
|--------------------|-----------------|---------|
| Compiled | 1958 | |
| Final Review | May 1969 | |
| | | |
| | | |
| | | |

SHORELINE MAPPING PROJECT PH- 87

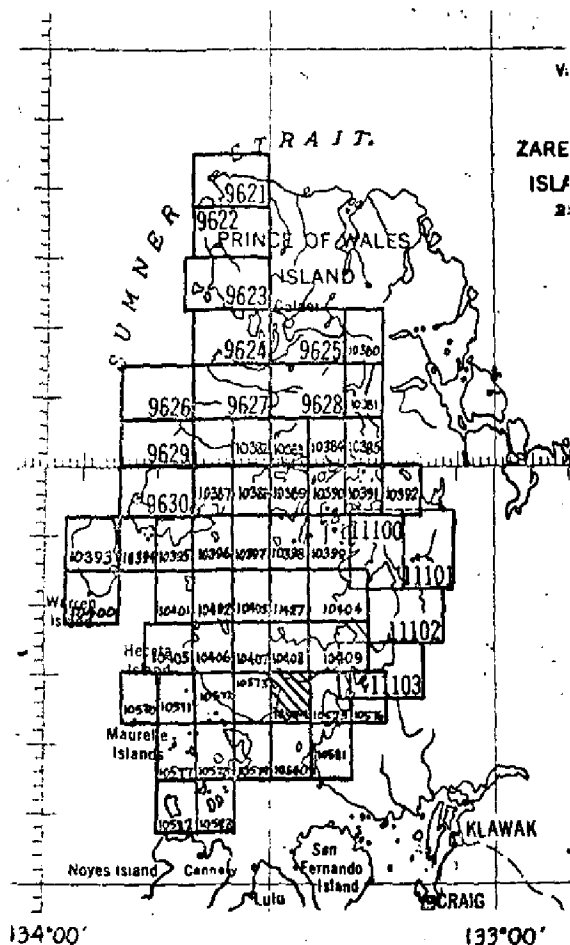
Prince of Wales Island, Alaska

5

56°30'

56°00'

55°30'



Project Ph-87 Official Mileage for Cost Accounts

| Sheet No. | Area Sq. Mi. | In. Mi. Shoreline |
|--------------|-----------------|----------------------|
| 9621 | 12 | 10 |
| 9622 | 16 | 11 |
| 9623 | 15 | 7 |
| 9624 | 17 | 12 |
| 9625 | 21 | 11 |
| 9626 | 4 | 5 |
| 9627 | 15 | 15 |
| 9628 | 14 | 2 |
| 9629 | 5 | 6 |
| 9630 | 7 | 6 |
| 11100 | 32 | 16 |
| 11101 | 9 | 8 |
| 11102 | 18 | 10 |
| 11103 | 16 | 15 |
| 10380 | 6 | 4 |
| 10381 | 5 | 10 |
| 10382 | 8 | 2 |
| 10383 | 6 | 8 |
| 10384 | 7 | 5 |
| 10385 | 4 | 8 |
| 10386 | 9 | 1 |
| 10387 | 6 | 7 |
| 10388 | 3 | 6 |
| 10389 | 7 | 12 |
| 10390 | 6 | 16 |
| 10391 | 4 | 12 |
| 10392 | 8 | 7 |
| 10393 | 12 | 10 |
| 10394 | 2 | 4 |
| 10395 | 5 | 8 |
| 10396 | 2 | 4 |
| 10397 | 1 | 1 |
| 10398 | 3 | 5 |
| 10399 | 4 | 11 |
| 10400 | 6 | 8 |
| 10401 | 1 | 2 |
| 10402 | 2 | 3 |
| 10403 | 3 | 6 |
| 11427 | 1 | 1 |
| 10404 | 5 | 10 |
| 10405 | 2 | 2 |
| 10406 | 8 | 1 |
| 10407 | 8 | 2 |
| 10408 | 5 | 7 |
| 10409 | 10 | 10 |

| | | |
|-------|----|---|
| 10570 | 1 | 1 |
| 10571 | 1 | 1 |
| 10572 | 5 | 6 |
| 10573 | 8 | 2 |
| 10574 | 3 | 4 |
| 10575 | 2 | 1 |
| 10576 | 7 | 2 |
| 10577 | 1 | 1 |
| 10578 | 2 | 2 |
| 10579 | 1 | 6 |
| 10580 | 2 | 2 |
| 10581 | 12 | 9 |
| 10582 | 2 | 6 |
| 10583 | 2 | 5 |

TOTAL 412 378

SUMMARY TO ACCOMPANY
DESCRIPTIVE REPORT T-10574

Shoreline survey T-10574 is one of 58 similar surveys in project PH-87. It covers part of Tonowek Bay and Warm Chuck Inlet in the vicinity of the Harmony Islands. See page 5 of this report for the area within the project.

The only field work prior to compilation consisted of identification of horizontal control.

Compilation was at 1:10,000 scale by graphic methods using the nine-lens photography of August 1955 and August 1956. There is nothing to indicate that this survey was ever furnished as photo-hydro support data.

The manuscript is a vinylite sheet 3 minutes 45 seconds in latitude by 5 minutes in longitude which was drafted and reproduced on cronaflex. One cronaflex positive and a negative are provided for record and registry.

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PHOTOGRAMMETRIC PLOT REPORT
Project Ph-87
Surveys T-10570 through T-10583

21. AREA COVERED

This radial plot covers the area of surveys T-10570 through T-10583.

These surveys cover that part of southeastern Alaska encompassing the southern half of Heceta Island, the Maurella Islands, a western portion of Prince of Wales Island, and the most northern tip of Noyes Island.

22. METHOD-RADIAL PLOT

Map Manuscripts:

Vinylite sheets with polyconic projections in black and U. T. M. Alaska grid in red at a scale of 1:10,000 were furnished by the Washington office.

All control stations and substitute stations were plotted on the map manuscripts using the meter bar and beam compass.

Base sheets were prepared in this office.

A sketch showing a layout of surveys and the distribution of control and photograph centers is attached to this report.

Photographs:

All photographs used in this plot were nine-lens unmounted photographs at a scale of 1:10,000.

Seventy-three (73) photographs were used, numbered as follows:

41728 through 41732
51994 and 51995
52004 through 52008
52026 through 52030
52039 through 52043
54580 through 54630

Closure and Adjustment to Control:

The radial plot is an extension to the south of the plot for surveys T-10405 through T-10409. The radial plot was assembled in two sections. The first section covered surveys T-10570 thru T-10574, T-10577 through T-10579, and T-10582 and T-10583. The second section, comprised of the remaining surveys, is essentially a separate radial plot in that the large expanse of Tonowek Bay divides the two sections. Although, only a relatively few pass-points tie the two sections together, there is sufficient control to ensure the required horizontal accuracy.

Transfer of Points:

The map manuscripts were placed over the finished plot, oriented, and the positions of all pass-points and photograph centers pricked on the manuscript.

23. ADEQUACY OF CONTROL

The density and distribution of control was adequate.

The following control could not be held in the radial plots.

TURF, 1907. The radially plotted position of the station is 0.5 mm (5 meters) to the south of the plotted position. The identification is apparently in error.

24. SUPPLEMENTAL DATA

None.

25. PHOTOGRAPHY

The photographic coverage and definition of photographs used in the plot were good.

Respectfully submitted
20 January 1958

E. L. Williams
E. L. Williams
Carto. (Photo.)

DESCRIPTIVE REPORT CONTROL RECORD

SCALE OF MAP 1:10,000

SCALE FACTOR

[illegible]

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GEOGRAPHIC NAMES

FINAL NAME SHEET

Ph-87 (Tonowek Bay, Alaska)

T-10574

~~Bay Point~~

Harmony Islands

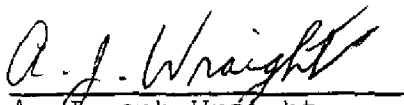
Heceta Island

Kabanof Rock

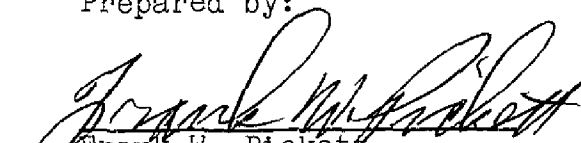
Tonowek Bay

Warm Chuck Inlet

Approved by:


A. Joseph Wraight
Chief Geographer

Prepared by:


Frank W. Pickett
Cartographic Technician

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SURVEYS T-10573 thru T-10583

NOTES FOR THE HYDROGRAPHER

The shoreline delineated on these surveys was interpreted using photographs taken at a fairly high stage of tide (except in Nossuk Bay). A foul line symbol was used to indicate the extent of reefs, ledges, rocks, kelp, etc., which was visible on the high tide photography. In some areas no attempt was made to show the limits because of the indefinite appearance.

In Nossuk Bay (T-10575 and T-10576), photographs were taken near low tide and office interpretation of MHW line was difficult, especially in the coves and mouth of streams. However, the forshore features could be more completely delineated than on most of the other surveys.

T-10573 - Desconocida Reef was delineated from high tide photographs. The outline shown is only the approximate limits of the kelp visible on photographs. Careful development during hydrography is needed.

T-10574 - Elevations of rocks on which SKIP, 1914 and ECO (ECHO), 1914 are located is desired to assist in verifying office interpreted shoreline which was taken from low tide photography at the entrance to Warm Chuck Inlet.

T-10575 - Verify pier shown 820 meters southeast of SIAM, 1914. (also see note for T-10576).

T-10576 - Shoreline in Nossuk Bay should be carefully verified. Many areas were in deep shadows, and delineation of shoreline was from low tide photography, making interpretation of the MHW line difficult.

T-10577 and T-10578 - Interpretation of MHW line on small islets, rocks and rough shoreline was difficult because of wave action and surf, especially in the Woods Islands area. These areas, such as the small area just west of Epsilon Rock, delineated as ledge, should be inspected for completeness and accuracy of shoreline. Limits of ledges, reefs, rocks awash, and other foreshore and offshore features could not be delineated.

T-10579 - Verify existence of pier in Nagasay Cove. Also see note for T-10577.

T-10581 - Verify MHW line in Salt Lake Bay. Much was delineated from low tide photography and deep shadows caused interpretation problems. The higher tide photography was used as a guide in interpretation but the area is at the edge of the photographs and not suitable for delineation on these.

T-10582 and T-10583 - Same difficulty as for T-10577.

No attempt was made to delineate bluffs during office interpretation of shoreline. The heights, character, and extent of any bluffs of importance for charting should be indicated on field photographs during verification of shoreline delineation.

PHOTOGRAMMETRIC OFFICE REVIEW

T-10574

| | | | | | | | |
|---|--|------------------------------|--|---|--|--|--|
| 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) ✓ | | 7. PHOTO HYDRO STATIONS | |
| 8. BENCH MARKS | | 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 | |
| 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 | |
| 23. STEREOSCOPIC INSTRUMENT CONTOURS | | 24. CONTOURS IN GENERAL | | 25. SPOT ELEVATIONS | | 26. OTHER PHYSICAL FEATURES | |
| CULTURAL FEATURES | | | | | | | |
| 27. ROADS | | 28. BUILDINGS | | 29. RAILROADS | | 30. OTHER CULTURAL FEATURES | |
| BOUNDARIES | | | | | | | |
| 31. BOUNDARY LINES | | | | 32. PUBLIC LAND LINES | | | |
| MISCELLANEOUS | | | | | | | |
| 33. GEOGRAPHIC NAMES ✓ | | | | 34. JUNCTIONS ✓ | | 35. LEGIBILITY OF THE MANUSCRIPT ✓ | |
| 36. DISCREPANCY OVERLAY Final | | 37. DESCRIPTIVE REPORT ✓ | | 38. FIELD INSPECTION PHOTOGRAPHS ✓ | | 39. FORMS ✓ | |
| 40. REVIEWER Leo J. Bugniet | | | | SUPERVISOR, REVIEW SECTION OR UNIT | | | |
| 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 | | | |
| 43. REMARKS This form prepared by the final reviewer. | | | | | | | |

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REVIEW REPORT T-10574
SHORELINE
MAY 26, 1969

61. GENERAL STATEMENT

See Summary which is page 6 of this report.

This is an incomplete manuscript. ^{Some} Most of the data for this survey had become lost prior to final review. Data available at the time of final review consisted of the vinylite manuscript, ^{* See Below} office photographs and field photographs which contained no information other than identification of horizontal control. Identification of horizontal control is believed to have been accomplished during the 1957 field season. The radial plot was run in the Baltimore District Office in 1958 and the manuscript then compiled in the Washington office. The survey was not field edited and there is no contemporary hydrography within the limits of this map.

62. COMPARISON WITH REGISTERED TOPOGRAPHIC SURVEYS

Comparison was made with copies of registered surveys No. 3409, 1:10,000 scale dated 1913, No. 3447 and No. 3448 each 1:10,000 scale and dated 1914. The difference in the shoreline between these surveys and T-10574 have been noted on the comparison print in blue. Rocks on the older surveys which are not visible on the photographs because of the stage of the tide and/or kelp have also been noted in blue.

The passage of time has made the older surveys obsolete, they are superseded by T-10574 for nautical chart construction purposes. ^{Refer reference to rock information in preceding paragraph}

63. COMPARISON WITH MAPS OF OTHER AGENCIES ^{See}

Comparison was made with USGS CRAIG (C-5) ALASKA, 15 x 20 minute quadrangle, 1:63,360 scale, edition of 1951. The two surveys are in good general agreement.

64. COMPARISON WITH CONTEMPORARY HYDROGRAPHIC SURVEYS

There are no contemporary hydrographic surveys within the area of this map.

65. COMPARISON WITH NAUTICAL CHARTS

Comparison was made with chart 8157, 6th edition, February 21, 1966.

The shoreline of the chart is not in perfect agreement with that of T-10574. Many of the rocks shown on the chart are not visible on the photographs because of the stage of the tide and/or

^{* THE RADIAL PLOT REPORT AND "NOTES TO THE HYDROGRAPHER" ARE BOUND WITH THIS REPORT. NO FIELD INSPECTION OR FIELD EDIT WAS ACCOMPLISHED FOR THIS MAP. JBB}

kelp. All differences between the two surveys have been noted on the comparison print in red.

66. ADEQUACY OF RESULTS AND FUTURE SURVEYS

* SEE BELOW

This survey complies with instructions and meets the National Standards of Map Accuracy.

Approved by:

Reviewed by:

For *Allen L. Powell*
Allen L. Powell, RADM, USESSA
Director, Atlantic Marine Center

Leo F. Beugnet
Leo F. Beugnet

Everett D. Ramsey
Chief, Photogrammetric Branch *JHB*

R H Houlston
Chief, Photogrammetry Division

Chief, Nautical Chart Division

* THIS SURVEY IS "INCOMPLETE" (REFER TO PAGE 14, HEADING 61). A NEW BASIC SURVEY IS RECOMMEND FOR USE IN CHARTING AND HYDROGRAPHIC SURVEYING OPERATIONS, DUE TO THE LACK OF FIELD CLARIFICATION AND VERIFICATION OF DETAILS.

BASIC MAP ACCURACY - HORIZONTAL CONTROL WAS FIELD IDENTIFIED ON THE PHOTOGRAPHY; AND THE RADIAL PLOT WAS CONSIDERED ADEQUATE TO SERVE AS CONTROL FOR MAPPING TO MEET THE NATIONAL STANDARDS OF MAP ACCURACY. JHB

HECETA ISLAND


→ From Survey 3447

Sub Pt 3 NAPUL, 1914

KABANOF ROCK

16

Foul



T-10574

55° 44' 00"

133° 26' 00"

kelp

Not visible on
Photos

~~Not visible (kelp)~~

Not visible on photos

55° 45' 00"

133° 30' 00"

29'

17

Not on chart

N
A
R
M

From chart 8157

SILLA, 1914

From survey 3448
55° 44' 00"

44'

133° 29' 00"

T-10574

N
D

(T-10573)

3'

H E C E T A I S L A

18

133° 30' 00"

Foul

T

Sub Pt #3

BAY POINT, 1907

Sub Pt #2

Sub Pt #1

T

T

T

From chart 8157

From survey 3409

133° 29' 00"

55° 42' 38"

T-10574

52007



Shoreline in red from chart 8157

Shoreline in blue from survey 3409

HARMONY ISLANDS

Not visible (help)

ECO, 1914

*



Sub Pt.

133° 26' 00"

55° 42' 00"

J-10574

