**U. S. DEPARTMENT OF COMMERCE**
**COAST AND GEODETIC SURVEY**

**DESCRIPTIVE REPORT**

**Type of Survey** Shoreline (Photogrammetric)

**Field No.** Office No. T-10408

**LOCALITY**

**State** Alaska

**General locality** Heceta Island

**Locality** Camp Island

1953-1956

**CHIEF OF PARTY**
Robert A. Earle, Chief of Field Party
W. F. Deane, Baltimore District Officer

**LIBRARY & ARCHIVES**

**DATE**

"INCOMPLETE" Survey
PROJECT NO. (III):
PH-87

FIELD OFFICE (III):
USCGS Ship HODGSON

CHIEF OF PARTY
Robert A. Earle

PHOTOGRA css OFFICE (III):
Baltimore, Maryland

OFFICER-IN-CHARGE
William F. Deane

INSTRUCTIONS DATED (III) (IV):
Field: 25 Dec. 1954
25 Jan. 1955
21 Nov. 1956
Office: 7 Nov. 1955
13 Nov. 1956
23 Nov. 1956
30 Oct. 1957
15 July 1958

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

REFERENCE STATION (III):
OWL, 1904

LAT.:
55° 47' 35.725"

LONG.:
133° 26' 48.646"

ADJUSTED

UNADJUSTED

PLANE COORDINATES (IV):

STATE
Alaska UTM

ZONE
8
Office interpretation of 1955 nine-len photography which was verified in the Sea Otter Sound area in 1957.
### Nine-lens

#### PHOTOGRAPHS (III)

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| WASHINGTON OFFICE REVIEW BY (IV): Leo F. Beugnet, AMC | DATE: April 1969 |

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

### REMARKS:

Forms 181a, 181b, and 181c were prepared by the final review. There is no other data available.
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SUMMARY TO ACCOMPANY
DESCRIPTIVE REPORT T-10408

Shoreline survey T-10408 is one of 58 similar surveys in project PH-87. It covers a part of the south shore of Sea Otter Sound in the vicinity of Camp Island and a part of the northeasterly shore of Warm Chuck Inlet. See page 5 of the descriptive report for the area within the project.

This survey was originally compiled as a preliminary manuscript. After identification of horizontal control in 1956 and some field inspection in the area of Sea Otter Sound in 1957, the manuscript was corrected and classified incomplete. There has been no field inspection, field edit or contemporary hydrography in Warm Chuck Inlet.

Compilation was by graphic methods at 1:10,000 scale using the 1:10,000 scale 9 lens photographs of August 1955. A cronaflex copy of the manuscript along with a blueline tracing, ozalids and photographs were subsequently provided for preparation of the boat sheet, field edit and location of photo-hydro signals.

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

* No compilation report exists to account for application of the 1957 field data; field photographs, however, were examined by the final reviewer. 

\*\*
FIELD INSPECTION REPORT

HECETA ISLAND AND SOUTHWEST TUXEKeAN ISLAND

NO OTHER SECTIONS APPLICABLE.

3. HORIZONTAL CONTROL:

All triangulation stations on Manuscripts 10402, 10403 and 10405 thru
10409, and also in those areas on the south side of Heceta Island not
covered by manuscripts, for which photographic identification was required,
were recovered and pricked on photographs.

Stations identified were as follows:

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<th>Code</th>
<th>Station Name</th>
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<th>Station Name</th>
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<td>COON 1904</td>
<td>LYNCH 1907</td>
<td>SKIP 1914</td>
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<td>GULL ROCK 1903-21</td>
<td>NAPUL 1914</td>
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<td>GRASS 1903</td>
<td>EMMERALD 1907-22</td>
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<td>PINE 1903</td>
<td>WHITE CLIFF 1907-22</td>
<td>QUINCE 1914</td>
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</table>

14. SUPPLEMENTAL DATA:

Forwarded to the Director:

1. Control Station Identification Cards - forwarded via transmitting
letter HDG 56-7 (1 Aug.) and HDG-56-13 (16 Oct.).

2. Nine Lens Office and Field Photographs - forwarded 29 Sept. via
transmitting letter HDG-56-10.


Respectfully submitted,

James P. Randall,
Lt. (jg), USCG.

Approved and forwarded:

Robert A. Earle,
CDR, USCG.
Comdg., Ship LODGSON

James P. Randall,
Lt. (jg), USCG.
2. **AREAL FIELD INSPECTION**

Sea Otter Sound and Karioon Passage are used principally by fishermen, logging companies and freight boats.

Rock outcappings are metamorphic limestone and shale and are covered by a black scale at and above mean high water for a vertical span of from 2 to 4 feet.

Within the limits of this survey there are a number of cultural features.

On the north shore of Heceta Island at the extreme southern end of Sea Otter Sound, Lat. 55° 57' 00", Long. 133° 21' 36", there are four unoccupied buildings. There are four buildings still standing at Karioon, 800 meters south of station FLORA 1904-56 there is an abandoned fish trapper's cabin. A trapper's cabin can be found 500 meters south of station MARK 1904-57 and another is located at Lat. 55° 46' 15", Long. 133° 20' 15".

Three operating logging camps fall within or near the limits of this survey. Two of the camps show on the photographs, the third is a small gyppo outfit that has been logging in Port Alice. The camp is located on floats at the very head of Port Alice but the logging is being done just south and behind station PINE 1904-57.

The ruin of a barge is located in the long narrow gut immediately north of Karioon.

Densities and tones were not inspected inshore of the storm high water line.

Shoal and kelp areas were noted, where discernible, on the photographs.

3. **HORIZONTAL CONTROL**

(a) Station PINE 1904-57, being in error in 1956, was reidentified and a Control Station Identification Card submitted.

(b) Stations HEN, 1904-56 and COON 1904-56 were not reidentified.

(c) Stations MARS 1914-52, STEAD 1952, QUINCE 1914 and WAR 1914 were re-identified and Control Station Identification Cards were submitted.

(d) PEEP ROCK LIGHT 1957, CHAPIN ISLAND RANGE FRONT DAYBEACON 1957 and CHAPIN ISLAND RANGE REAR DAYBEACON 1957 were located by 3rd order triangulation.

4. **VERTICAL CONTROL**

Inapplicable.

5. **CONTOURS AND DRAINAGE**

Contours - inapplicable.
Within the limits of this survey there are a number of small streams, none of major importance.

6. WOODLAND COVER

All land areas not covered by storm high water are densely forested with the exception of muskegs, logged areas and the higher mountains.

Conifers - hemlocks, spruce and cedars, comprise the major portions of the cover, with the cedars favoring the low wet areas.

Many small logging operations have been conducted in this area and though they span a number of years all are well defined.

Scattered patches of alder and crabapple can be found along the beaches, and show as a dark globular mass against the lighter conifers.

7. SHORELINE AND ALONGSHORE FEATURES

The shoreline was inspected from the beach at all photo-hydro signals locations and from the boat in all other areas.

(a) The office interpretation of the mean high water line was, in general, quite accurate, even in the heavily shadowed areas. In all the large areas of shadowed shoreline, the mean high water line was located by sextant angles taken to photo-hydro signals. The angles were recorded on the back of the photographs. In smaller areas the shoreline was readily discernible and was delineated directly on the photographs.

(b) The low water line corresponds closely with the darker color tone at the offshore edge of alongshore and offshore features.

(c) The foreshore consists of rock outcrops and boulders, with the exception of deltaic muds, sands, and gravels, at the mouths of the larger streams.

(d) There are no noteworthy bluffs or cliffs.

8. OFFSHORE FEATURES

All offshore features were visited. All shoal and foul areas were indicated on the photographs.

Visible rocks were indicated and their heights or depths, time and dates were noted.

All rocks not visible on the photographs were located by sextant angles to photo-hydro signals. The fixes were recorded on the back of the photographs along with the heights or depths, time, and date.
9. MARKS AND AIDS

There are six (6) floating aids to and four (4) fixed aids to navigation located within the limits of this survey. They are:

- Karheen Passage Daybeacon
- Point Swift Shoal Buoy 2
- Karheen Passage Buoy 1
- Karheen Passage Buoy 2A
- Ham Island Reef Buoy 3
- Chapin Island Range Front Daybeacon
- Chapin Island Range Rear Daybeacon
- Cob Island Reef Buoy 4
- Karheen Reef Buoy 6
- Peep Rock Light

Landmarks - none.

10. BOUNDARIES, MONUMENTS

Inapplicable.

11. OTHER CONTROL

None.

12. OTHER INTERIOR FEATURES

Not applicable.

13. GEOGRAPHIC NAMES

Geographic names will be covered in a separate report.

14. SPECIAL REPORTS AND SUPPLEMENTAL DATA

(a) Forwarded to the Director:

3. 9 Lens Field and Office Photographs, Scale 1/10,000, via transmitting letter 15 Oct. 1957.

(b) Forwarded with this report:

1. Control Station Identification Card
2. Nine Lens Field and Office Photographs, Scale 1/10,000
To be forwarded to the Director:

1. Description of Triangulation Stations
2. Geographic Names Report
3. Coast Pilot Notes

Respectfully submitted,

[Signature]

Loyd D. Thurman,
Ens., C&GS

Approved and forwarded:

[Signature]

E. W. Richards,
LCDR, C&GS
Comdg., Ship HODGSON
PHOTOGRAMMETRIC PLOT REPORT

Project 27070 (6087)
Surveys T-10402 thru T-10409 & T-11427

21. AREA COVERED

This radial plot covers the area of surveys T-10402 thru T-10409 and the southwest corner of T-11427. They are shoreline surveys along north shore of Heceta Island near Prince of Wales Island, Alaska, from Tuxekan Island to Cape Lynch.

22. METHOD - RADIAL PLOT

Map Manuscripts:
Vinylite sheets with polyconic projections in black and U.T.M. Alaska, Zone 8 grids in red, at a scale of 1:10,000 were furnished by the Washington Office.

All control stations and some substitute stations were plotted using the meter bar and beam compass, the remaining substitute stations were plotted graphically.

Base sheets were prepared in this office.

A sketch, showing the layout of surveys and distribution of control and photograph centers, and a list of unidentified stations which are numbered on the sketch, are attached to this report.

Photographs:
There were forty-nine (49) nine-lens unmounted photographs, at a scale of 1:10,000 used in this plot. The photographs are numbered as follows:

- 41320 thru 41325
- 41691 and 41692
- 41713 and 41714
- 41728 and 41729

Templets:
Vinylite templets were made for all photographs using a master templet to correct for errors due to paper distortion and chamber displacement.

Closure and Adjustment to Control:
This radial plot is an extension of the supplementary plot for Surveys T-10397 thru T-10399 (See Descriptive Report for surveys No. T-10382 thru T-10384). The radial plot was constructed starting from T-10404 and running southward to T-10409, tending into control identified in the field in 1952. The plot was then bridged westward across Heceta Island, to survey T-10405 and to the pass points previously established.
on survey T-10401. Eight (8) of the thirty-eight (38) field identified control stations could not be held, but a satisfactory plot was obtained.

Transfer of Points:
Each map manuscript was placed over the finished plot and oriented holding common grids and all pass points and photograph centers were pricked on the map manuscript.

23. ADEQUACY OF CONTROL

There was adequate control to obtain a satisfactory radial plot.

The following stations could not be held in the plot.

LIME, 1952 - The radially plotted position falls approximately 10 meters to the SSW of the plotted position. This station falls outside of the delineation area. The error is probably due to difficulty of transfer to new photography. Since there were sufficient other stations to control the plot, no further investigation was made.

QUINCE, 1914 - The radially plotted position falls approximately 27 meters to the SE of the plotted position. This is believed to be misidentified in the field. The point which is identified can not be seen from NUT, 1914 and ANON, 1914, to the southwest.

HEN, 1904 - The radially plotted position for the Sub. Pt. falls 196 meters to the east of the plotted position. This was misidentified in the field on another reef. It was not re-identified in the office.

COON, 1904 - The radially plotted position falls 6 meters to the west of the plotted position. This station was misidentified in the field. It could not be re-identified accurately in the office.

NAPUL, 1914 - This station was not held in the radial plot but due to lack of a sketch re-identification could not be made. It is probably misidentified on another boulder. This station is outside of the project limits and there is sufficient other control for a satisfactory plot.

FINE, 1903 - The radially plotted position falls approximately 980 meters (0.6 mile) south of the plotted position. The sketch did not agree with the area at the true position and no attempt was made in this office to try to re-identify it.

LEAN, 1903 - The geographic position for this station plots in deep water on chart 8171. No rocks or other detail show on the photographs in this area. It is assumed that the published position might be incorrect. The position is unchecked.

SOUTH POINT, LOW BLACK POINT, 1903 - The geographic position for this station plots in deep water on Chart 8171. No rocks or other detail show on the photographs in this area. It is assumed that the published position might be incorrect. The position is unchecked.
BAY, 1903 - The radially plotted position for Sub. Pt. No. 1 falls 13 meters to the south southwest of the plotted position. The radially plotted position of Sub. Pt. No. 2 falls 17 meters to south of the plotted position. These are believed to be misidentified in the field. The Sub. Pts. are potholes in an area where they are numerous. It was not possible to re-identify the correct image points.

WHITE CLIFF, 1907-22 - This station is believed to be misidentified in the field. Since this station is far outside of the project limits; stations MIKE, 1907 and EMERALD, 1907-22, which are closer to the project were held.

More time was consumed in identifying the control in this plot than in a normal plot. The greatest amount of time was used in trying to prick on the office photographs points identified on the field photographs that did not agree for various reasons such as, with the information on the identification cards and/or Form 526. The following is a list of some of the stations where a great deal of time was consumed:

MIKE, 1907  SWIFT, 1914
SILLA, 1914  MARS, 1914
OWL, 1904  HEN, 1904
COON, 1904  GRASS, 1903
LIME, 1952  BAY, 1903

WHITE CLIFF, 1907-22

24. SUPPLEMENTAL DATA

None.

25. PHOTOGRAPHY

The photograph definition and photograph coverage for this plot was good. It was noted, however, when making templates that some difficulty was encountered in trying to adjust the template to the fiducial marks on the photographs in the center chambers. A study was made of this 1955 copy but there seemed to be no apparent answer for this trouble.

Respectfully submitted
14 March 1957

Leroy A. Senasack
Carto. Photo. Aid
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**Computed by:** [Name]

**Date:** [Date]

**Checked by:** [Name]

**Date:** [Date]
PRELIMINARY COMPILATION REPORT
and
NOTES TO HYDROGRAPHER

Surveys T-10h02 thru T-10h09 and T-11h27.

These manuscripts were delineated by office interpretation. A small amount of field inspection on Navy photographs, scale 1:20,000 was available in Karheen Passage (T-10h09) from the 1952 season.

The computed tides at the time of photography were found to be high tide to the west of Port Alice (T-10h02 and T-10h05) and low tide to the east of Port Alice. (T-10h03, T-10h04, T-10h06 thru T-10h09). High tide photography also was available on the eastern shore of Port Alice.

The edge of the water as imaged on the high water photographs was used as the shoreline. On the low water photographs, the office interpretation of the MNWL was difficult especially in the areas of wide sloping beaches. In Karheen Passage, the field inspection done in 1952 indicated the shoreline to be at the tree line.

Where the shoreline was obscured by shadows or relief displacement of trees, a broken line or approximate shoreline was delineated.

The foul line symbol was used to outline areas of doubtful interpretation which may be shallow, foul, debris, kelp, etc.

The following are the aids to navigation in this area:

Surf Point Light, T-10h02 - could not be office identified.
Peek Rock Light, T-10h04 - was office identified.
Cape Lynch Light, T-10h05 - Field identified in 1956.
Karheen Passage Daybeacon, T-10h09 - located in 1952.
Chapin Island Range Front Daybeacon, T-10h09 - was office identified.
Chapin Island Range Rear Daybeacon, T-10h09 - was office identified.

Buildings and cultural details at Karheen and at the lumber camp to the north of Karheen should be field inspected.

Verify building on island 800 meters southwest of triangulation station FLORA, 1904.

Respectfully submitted

Frank J. Tarcza,
Super. Carto. (Photo.)

Approved and forwarded

William F. Deane,
CDR, C&GS
Baltimore District Officer
GEOGRAPHIC NAMES

FINAL NAME SHEET

Ph-87 (Heceta Island, Alaska)

T-10408

Camp Island
Chuck Creek
Heceta Island
Sea Otter Sound
Warm Chuck Inlet

Approved by: A. J. Wright
A. Joseph Wright
Chief Geographer

Prepared by: Frank W. Pickett
Cartographic Technician
# Photogrammetric Office Review

**T-10408**

## 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. Photographic stations
- 8. Bench marks
- 9. Plotting of sextant fixes
- 10. Photogrammetric plot report
- 11. Detail points

## Alongsore Areas (Nautical Chart Data)
- 12. Shoreline
- 13. Low-water line
- 14. Rocks, shoals, etc.
- 15. Bridges
- 16. Aids to navigation
- 17. Landmarks
- 18. Other alongsore physical features
- 19. Other alongsore cultural features

## Physical Features
- 20. Water features
- 21. Natural ground cover
- 22. Plenetable 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
- 37. Descriptive report
- 38. Field inspection photographs
- 39. Forms

## Reviewer

**Signature:** L. F. .

**Supervisor, Review Section or Unit:**

## Remarks (See attached sheet)

### Field Completion Additions and Corrections to the Manuscript

- 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

**Signature:**

**Supervisor:**

## Remarks

*This form prepared by the final reviewer.*
61. **GENERAL STATEMENT:**

See Summary which is page 6 of the descriptive report.

There is no field edit report or field edit sheet for this survey. Warm Chuck Inlet was not field inspected nor is there any contemporary hydrography in that area. For these reasons the incomplete manuscript classification has been retained on the copies of the survey forwarded for record and registry.

62. **COMPARISON WITH REGISTERED TOPOGRAPHIC SURVEYS:**

In the area of Sea Otter Sound comparison was made with a copy of 1:20,000 scale registered survey No. 2692 made in 1904. In the Warm Chuck Inlet area, comparison was made with a copy of 1:10,000 survey No. 3448, made in 1914. The passage of time has made these surveys obsolete, they are superseded by T-10408.

The shoreline of survey 3448 is not in agreement with that of T-10408. The difference has been indicated on the comparison print in blue.

63. **COMPARISON WITH MAPS OF OTHER AGENCIES:**

Comparison was made with USGS CRAIG (D-5), ALASKA, 15x20 minute 1:63,360 scale quadrangle, 1951 edition. The two surveys are in good general agreement.

64. **COMPARISON WITH CONTEMPORARY HYDROGRAPHIC SURVEY:**

To the north of latitude 55° 47.0' comparison was made with a copy of unreviewed survey H-8393. There is no contemporary hydrographic survey to the south. All differences between the hydrographic survey and this survey has been indicated on the comparison print in purple.

65. **COMPARISON WITH NAUTICAL CHARTS:**

To the north of latitude 55° 47.0' comparison was made with Chart 8171, 8th edition, June 10, 1968. All differences between that chart and this survey have been shown on the comparison print.
To the south of latitude 55° 47.0' comparison was made with Chart 8157, 6th edition, February 21, 1966. The shoreline of that chart and this survey is not in good agreement. The difference has been shown on the comparison print in red.

66. ADEQUACY OF RESULTS AND FUTURE SURVEYS:

This survey complies with instructions and meets the National Standards of Map Accuracy. *Ref. to page 20 and page 21 (ending 611) of this report*

Field photographs 52031 thru 52033 and office photographs 52003 thru 52005, 52030 thru 52033 and 52038 were used to review the manuscript.

Much of the data for this survey had become lost prior to final review. All pertinent available data has been made a part of the report.

Approved by:                                  Reviewed by:

P. G. Stark                                  Leo F. Beugnet

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

Approved by:

James Thurn                                  R. H. Houston

Chief, Photogrammetric Branch                Chief, Photogrammetry Division

Chief, Nautical Chart Division
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