Form 504
U. S. COAST AND GEODETIC SURVEY
DEPARTMENT OF COMMERCE

DESCRIPTIVE REPORT

Type of Survey  Topographic
Field No. Ph-28(147) Office No. T-9487

LOCALITY
State  Alaska
General locality  Kotzebue Sound
Locality  Chamisso Island

1948-51
CHIEF OF PARTY
A. N. Stewart, Chief of Field Party
H. A. Paton, Chief B'more Photo. Off.

LIBRARY & ARCHIVES

DATE  August 27, 1957
DATA RECORD

T-9487

Project No. (II): Ph-28(47) Quadrangle Name (IV): CHAMISSO ISLAND

Field Office (II): Portland, Oregon Photogrammetric Office (III): Baltimore, Md

Washington, D.C.

Instructions dated (II) (III):

(II) = 21 Apr 48

(III) = 23 Oct 50

Method of Compilation (III): Reading Plotter

Manuscript Scale (III): 1:20,0000 Stereoscopic Plotting Instrument Scale (III): 1:20,000

Scale Factor (III):

Date received in Washington Office (IV): JAN 5 1953

Date reported to Nautical Chart Branch (IV):

Applied to Chart No. Date:

Date registered (IV): 13 May 1957

Publication Scale (IV):

Geographic Datum (III): NA 1927 (Unadj.)

Vertical Datum (III):

Mean sea level except as follows:

Elevations shown as (2) refer to mean high water
Elevations shown as (4) refer to sounding datum
I.e., mean low water or mean lower low water

Reference Station (III):

Lat.: Long.: 132W

Plane Coordinates (IV): State:

Y= Zone:

X=

MILITARY GRID = UTM, Zone 4, interval of 2500 meters

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.
Areas contoured by various personnel
(Show name within area)

100% compiled on the Reading Plotter, model "B", by the team of:

Louis Levin
and
Arthur B. Zimmerli
DATA RECORD

Field Inspection by (II): A. Newton Stewart  
Date: 1948

Planestable contouring by (II): None  
Date:

Completion Surveys by (II): None  
Date:

Mean High Water Location (III) (State date and method of location): shoreline

The date of the MHWL is 1948 since the/ was field identified in 1948 and was used as a guide during instrument delineation. However, for all practical purposes the shoreline might be dated 1951 since the instrument photos were taken in 1951 and the shoreline was

delineated accordingly.

Jack Allen on the Reading Ruling Machine  
Date: 29 May 52

Projection and Grids checked by (IV): Howard D. Wolfe  
Date: 2 Jun 52

Control plotted by (III): Albert Queen  
Date: 3 Jun 52

Control checked by (III): Ruth Hartley  
Date: 7 Jun 52

Radial Plot by (III): Ruth Hartley, and verified by Frank J. Taroka  
Date: 12 Aug 52  
13 Aug 52

Stereoscopic instrument (III): Louis Levin and Arthur B. Zimmerli  
Date: 28 Sep 52

Manuscript compiled by (III): Arthur B. Zimmerli  
Date: 24 Nov 52

Photogrammetric Office Review by (III): Louis J. Reed  
Date: 5 Jan 53

Elevations on Manuscript checked by (III): Louis J. Reed  
Date: 5 Jan 53
Camera (kind or source) (III): USGS 9-lens Camera "B", f = 8.25 inches

<table>
<thead>
<tr>
<th>Number</th>
<th>Date</th>
<th>Time</th>
<th>Scale</th>
<th>Stage of Tide</th>
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<td>33999</td>
<td>27 Jun 51</td>
<td>1639</td>
<td>20,000</td>
<td>-2 ft</td>
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<tr>
<td>and 34000</td>
<td></td>
<td>1640</td>
<td></td>
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Tide (III)

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<tr>
<th>Reference Station:</th>
<th>Tide Station</th>
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<tbody>
<tr>
<td>Icy Cape</td>
<td>Kiwalik</td>
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</tbody>
</table>

Washington Office Review by (IV): B.J. Colner

Final Drafting by (IV): Pat Laich - J.H. Franier

Drafting verified for reproduction by (IV):

Proof Edit by (IV):

Land Area (Sq. Statute Miles) (III): 3/8
Shoreline (More than 200 meters to opposite shore) (III): 4 miles
Shoreline (Less than 200 meters to opposite shore) (III): None
Control Leveling - Miles (II): None
Number of Triangulation Stations searched for (II): Returned:
Number of BMs searched for (II): Recovered:
Number of Recoverable Photo Stations established (III): One
Number of Temporary Photo Hydro Stations established (III): six

Remarks:

Form T-Page 4
Compiled at 1:20,000 scale, from 1:20,000 scale nine-lens photographs taken July, 1950 and June, 1951. For additional nine-lens photography refer to:

Air-photo Index A-38 (1:20,000 scale, taken September 1947)
Air-photo Index B-3 (1:20,000 scale, taken Sept. 1947)
Air-photo Index B-13 (1:20,000 scale, taken September 1947 and August 1948)

For single-lens photography on which some field work was done refer to:

Air-photo Index A-11 (1:27,500 scale, taken August 1948)
Air-photo Index A-23 (1:27,500 scale, taken August, 1948, and 1:40,000 scale, August, 1950)
Air-photo Index A-24 (1:27,500 scale, August, 1948)
Air-photo Index A-35 (1:40,000 scale, August, 1950)

For photography of other agencies on which some field work was done refer to:

Alaskan WAC 64 Index (1949 Naval Petroleum Reserve photography, scale 1:20,000 and 1946 Air-Force TRI-MET photography, scale 1:24,000)
1. Preface:
FIELD INSPECTION REPORT

2-20:

See separate report entitled:

PROJECT REPORT
AERIAL PHOTOGRAPH CONTROL AND INSPECTION
KOTZEBUE SOUND, ALASKA
Project Ph-28(47) July to Sept 1948
A. Newton Stewart, Chief of Party
RADIAL PLOT REPORT

21-30:

The area of this island was included with the area to the north of it in a single radial plot. The report covering the entire area of this plot is included in a combined Descriptive Report for quads T-9479 thru T-9482, and it is not repeated herein.
COMPILATION REPORT

31. Delineation:

The land area in this quad consists of one small island and it has been completely mapped in this survey on the Reading Plotter, model "B".

32. Control:

Horizontal and vertical control were adequate for this compilation. Refer to side-heading 23 of the Plot Report.

33. Supplemental Data:

a. Field Inspection Photos: 20384 only

b. Name Sheet: Official name sheet compiled by Mr Heck.

34. Contours and Drainage:

The photographic quality of the instrument photographs was good and no areas of questionable contours remain.

35. Shoreline and Alongshore Details:

Shoreline inspection was adequate. Two "shallow" areas were outlined during instrument delineation.

36. Offshore Details:

Only a few rocks are shown — as instrument delineated.

37. Landmarks and Aids:

No aids exist but one landmark has been recommended by the field party, a rock cairn on the highest point of the island which is also a triangulation station. See form 567 which is included in the Field Inspection Report.

38. Control for Future Surveys:

Topo station CHAM 1948 and six hydro signals, Numbers 778 thru 783, were field established and identified on photo 20384. All have been located by the radial plot and are shown on the manuscript in proper name and symbol.


40. Horizontal and Vertical Accuracy:

The scale of this map is 1:20,000 and the contour interval is 50ft. It meets requirements established by National Standards of Map Accuracy in both respects.
46. **Comparison with Existing Maps:**

No map of comparable scale exists but the following map does include this island area:


47. **Comparison with Nautical Charts:**

No chart of comparable scale exists; the following is the largest scale chart covering the area:

CAPE PRINCE OF WALES TO POINT BARROW, Provisional Chart, Alaska - Arctic Coast, Chukchi Sea, No 9402, 1:750,000, 1st edition, May 1950.

48. **Geographic Name List:** See page 11.

49. **Notes for the Hydrographer:** See unnumbered page following.

50. **Compilation Office Review:** See page 12.

submitted by

Orvis N. Dalbey,
Cartographer-Photogrammetric

Approved by

Louis J. Reed, Chief
Stereoscopic Mapping Section
Photogrammetric Engineer
<table>
<thead>
<tr>
<th>Name on Survey</th>
<th>A</th>
<th>B</th>
<th>C</th>
<th>D</th>
<th>E</th>
<th>F</th>
<th>G</th>
<th>H</th>
<th>K</th>
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<tbody>
<tr>
<td>CHAMISSO ISLAND</td>
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<tr>
<td>CHAMISSO NATIONAL WILDLIFE REFUGE</td>
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<tr>
<td>Chamisso Anchorage (see T-9485, between island &amp; Puffin Island)</td>
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</table>

**Page 11**
62. **Comparison with Registered Topographic Surveys.**

There are no registered topographic surveys of this area.

63. **Comparison with Maps of Other Agencies.**

USGS Alaska Map, Selawik 1:250,000, 1951 edition. It is apparent that the USGS Alaska Map, Selawik is in need of revision, but the large difference in scale of the two maps precludes a comprehensive comparison.

64. **Comparison with Contemporary Hydrographic Surveys.**

There are no contemporary hydrographic surveys of this area.

65. **Comparison with Nautical Charts.**

<table>
<thead>
<tr>
<th>9400</th>
<th>1:1,587,870</th>
<th>June 1950</th>
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<tbody>
<tr>
<td>9402</td>
<td>1:750,000</td>
<td>May 1950</td>
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</table>

The large scale difference precludes a satisfactory comparison.

66. **Adequacy of Results and Future Surveys.** These maps comply with project instructions and are adequate as bases for hydrographic surveys and the construction of nautical charts.

Reviewed by:

[Signature]

for B. J. Collier

APPROVED

[Signature]

Chief, Review Branch

[Signature]

Chief, Div. of Photogrammetry

19 August 1957

[Signature]

Chief, Div. of Photogrammetry

[Signature]

Chief, Div. of Coastal Surveys
49. Notes for The Hydrographer:

a. **Topo Stations**: (one)

CHAM 1948 - identified on photo 2034 and described on topo card form 524.

b. **Hydro stations**: (six) (all identified on photo 2-34)

No 778 - "E tip of grass extending into sand point on S side of point."

No 779 - "SE tip of first projecting ledge S of sand beach."

No 780 - "Highest point on large offshore rock off rounding rocky point."

No 781 - "Highest point on rectangular rock at MHML."

No 782 - "W tip of grass on top of W end of W'ly of two large offshore rocks."

No 783 - "Highest point on NW end of largest offshore rock on NW side of Chamisso Island. Grass is on the highest point."
PHOTOGRAMMETRIC OFFICE REVIEW

T. 9487

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. Planetary 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
40. 

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

Louis J. Reed, Chief
Stereoscopic Mapping Section
Photogrammetric Engineer

M 2623-12