
Form 504

U. S. COAST AND GEODETIC SURVEY
DEPARTMENT OF COMMERCE

DESCRIPTIVE REPORT

Type of Survey    Topographic

Field No. Ph-28(47.)    Office No. T-9483

LOCALITY

State    Alaska

General locality    Kotzebue Sound

Locality    Choris Peninsula

1948-51

CHIEF OF PARTY
A. N. Stewart, Chief of Field Party
H. A. Paton, Chief B'more Photo.Off.
L. J. Reed, Div. Of Photo., Wash,D.C.

LIBRARY & ARCHIVES

DATE    Sept. 4, 1957
DATA RECORD

T-9483

Project No. (II): Ph-23(47) Quadrangle Name (IV): CHORIS PENINSULA

Field Office (II): Portland, Oregon
Photogrammetric Office (III): Washington, D.C.

Instructions dated (II) (III):

(II) = 21 Apr 48
(III) = 23 Oct 50

Chief of Party: A. Newton Stewart

Officer-in-Charge: Hubert A. Peton, Chief

Compilation: Louis J. Reed, Chief

Stereo-map Section: Copy filed in Division of Photogrammetry (IV)

Method of Compilation (III): Reading Plotter

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

Scale Factor (III):

Date received in Washington Office (IV): DEC 13 1955

Date reported to Nautical Chart Branch (IV):

Applied to Chart No. Date:

Date registered (IV): 23 April 1957

Publication Scale (IV):

Publication date (IV):

Geographic Datum (III): NA 1927 (unadjusted)

Vertical Datum (III):

Mean sea level except as follows:
Elevations shown as (25) refer to mean high water
Elevations shown as (2) refer to sounding datum
i.e., mean low water or mean lower low water

Reference Station (III):

Lat.: Long.:
Adjusted

Plane Coordinates (IV):

State: Zone:

X =

MILITARY GRID = UTM, Zone 4, 2500 meter interval

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

Planetable contouring by (II): None  
Date:

Completion Surveys by (II): None  
Date:

Mean High Water Location (III) (State date and method of location):
The date of the MHWL is 1948 since the shoreline field inspection of 1948 was used as a guide in its delineation on the Reading Plotter. However, it might be construed as 1951, for all practical purposes, since the instrument photos were 1951, and the delineation was affected accordingly.

Projection and Grids checked by (IV):
Jack Allen on the Reading Ruling Machine  
Date: 29 May 52

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 or Stereoscopic:
Ruth Hartley, and verified by Frank J. Taroza  
Date: 17 Jun 52

Control extension by (III):  
Date: 18 Jun 52

Stereoscopic Instrument completion (III):
Planimetry Louis Levin and Contours Arthur E. Zimmerli  
Date: 25 Sep 52

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

Photogrammetric Office Review by (III): Louis J. Reed  
Date: 17 Dec 52

Elevations on Manuscript checked by (IV) (III):
Louis J. Reed  
Date: 17 Dec 52
**PHOTOGRAPHS (III)**

<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>27 Jun 51</td>
<td>1635-</td>
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<td>No tide</td>
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<td>thru</td>
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<td>1638</td>
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<td>Inside -2</td>
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<tr>
<td>33997</td>
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<td>Outside -1'1/2</td>
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**Tide (III)**

<table>
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<tr>
<th>Ratio of Ranges</th>
<th>Mean Range</th>
<th>Spring Range</th>
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<tr>
<td></td>
<td>2.7</td>
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</table>

**Reference Station:** Tev Cape Kiwali

**Subordinate Station:**

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

**Final Drafting by (IV):** Frank Johnson

**Drafting verified for reproduction by (IV):**

**Proof Edit by (IV):**

**Land Area (Sq. Statute Miles) (III):** 9 sq mi
**Shoreline (More than 200 meters to opposite shore) (III):** 28 miles
**Shoreline (Less than 200 meters to opposite shore) (III):** None
**Control Leveling - Miles (II):** None
**Number of Triangulation Stations searched for (II):** Recovered: Identified: 2
**Number of BMs searched for (II):** Recovered: Identified: None
**Number of Recoverable Photo Stations established (III):** Five
**Number of Temporary Photo Hydro Stations established (III):** Ten
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 (1:28,000 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-36 (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)
Summary to Accompany T-9483

Ph-28(h7) covers the eastern shore of the Chukchi Sea in Alaska and runs from Candle on the Kiwalik River on the south to Cape Beaufort to the north.

This project consists of ninety-four topographic quadrangles (T-9402 to T-9434 and T-9436 to T-9496).

T-9483 is a survey of the southern tip of Baldwin Peninsula and the whole of Choris Peninsula. This area contains Kotzebue Sound, Eschscholtz Bay, Chamisso National Wild Life Refuge, and Chamisso Anchorage.

This map manuscript consists of one sheet, 7½ minutes in latitude and 20 minutes in longitude, at a scale of 1:20,000, with a contour interval of 50 feet. A plot photomechanical print of this map at the compilation scale will be registered with the descriptive report in the Bureau Archives.
FIELD INSPECTION REPORT

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
21-30:

The area of this quadrangle was included with the area north of it in a single radial plot. The report covering the whole area is included in Descriptive Report (combined) for quads T-9479 thru T-9482, and is not repeated herein.
31. Delineation:

The entire land area of this quad has been delineated on the Reading Plotter "B", with the culture and contours having been detailed in the same operation.

32. Control:

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

33. Supplemental Data:

a Field Inspection Photos: 20385, 6, 7, 8, and 9.

b Elevation Computations: Bound volumes covering the area of plot "F", entitled: "COMPUTATION OF ELEVATIONS AND TABULATION OF VERTICAL CONTROL STATIONS FOR SURVEYS T-9479 THRU T-9483."

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

34. Contours and Drainage:

The photographic quality of instrument photographs was good and no areas of questionable contours are left.

35. Shoreline and Alongshore Details:

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

36. Offshore Details: None exist.

37. Landmarks and Aids: None recommended – None exist.

38. Control for Future Surveys:

Five topo stations and eleven hydro signals were selected, described, and photo-identified in the field (the topo stations were also marked), and all of them were cut-in by the radial plot. They are: CASE 1948, GROG 1948, MAZE 1948, MOSS 1948, and AZIMUTH MARK (Choris 1943) 1948; and No's 650, 651, 652, 754, 755, 772, 773, 774, 775, 776, 777. The topo stations are described on 524 cards and the signals on the field inspection photos listed above.

39. Junctions:

The one edge having a land junction is in agreement. It is with T-9479 to the north. All other sides are water.
40. **Horizontal and Vertical Accuracy:**

This map is standard in both respects; it meets the requirements for a 50ft contour interval and for a map at 1:20,000 scale. The supplemental contours are of 25ft accuracy and are shown for convenience only; the map is still a 50ft map.

46. **Comparison with Existing Maps:**

No map of comparable scale exists; the following map does cover the same area but needs considerable revising:


47. **Comparison with Nautical Charts:**

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

CAPE PRINCE OF WALES TO POINT BARROW, Provisional Chart, Alaska – Arctic Coast, Chukchi Sea, No 9402, 1:759,000, 1st edition, May 1950.

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

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

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.
49. Notes for the Hydrographer:

a. Topo Stations: (All have 524 cards)

AZIMUTH MARK (Choris 1943), 1943--identified on photo 20886
CASE, 1943--identified on photo 20886
GROG, 1943--identified on photo 20887
MAZE, 1943--identified on photo 20888
MOSS, 1943--identified on photo 20887

b. Hydro Stations:

No 650 - identified on photo 20887 as: "Center of end of rock point at sharp break at top of cliff. Top of point is bare and slightly lower than tundra covered point about 10m farther inshore. About 25m above MHW."

No 651 - identified on 20887 as: "Center of high point at seaward end of a rectangular shaped rock which is at base of the cliff which is the most seaward point of the most N'ly of 2 high elevations on Choris Penin. Approx 1.2m above MHW."

No 652 - identified on 20887 as: "Sharp break at top of cliff of the center one of three rocky projections forming rounded rocky point of the most S'ly rocky point of the northern of 2 highest elevations on Choris Pen."°

No 754 - on 20887 as: "E tip of vertical rocky bluff at MHML."
No 755 - on 20887 as: "Center of bare spot of yellow earth near the top of a steep slope. There is another spot similar bare spot about 30m SW of the spot picked and at a lower elevation. Tundra surrounds both spot. Elevation of point picked is 200ft as estimated from airplane."

No 772 - on 20887 as: "SW corner of small black cabin."
No 773 - On 20887 as: "Most E'ly tip of brush on point."
No 774 - on 20887 as: "E tip of most E'ly ledge on point at MHML. Ledge has small loose rocks on its top."
No 775 - on 20886 as: "E tip of small E'ly ledge at MHML. Ledge is wedge-shaped."
No 776 - on 20886 as: "Highest point on E'ly of two prominent projecting ledges. There is a saddle between the top of the ledge and the bluff. Grass is on the highest point."
No 777 - On 20886 as: "Highest point on dark offshore rock at SW tip of Choris Peninsula. Only offshore rock on point."
<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>
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<tbody>
<tr>
<td>BALDWIN PENINSULA</td>
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<td>CHAMISSO PASSAGE</td>
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<td>CHAMISSO NATIONAL WILDLIFE REFUGE</td>
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<td>CHORIS PENINSULA</td>
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<td>ESCHSCHOLTZ BAY</td>
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<td>KOTZEBUE SOUND</td>
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Names Approved 1-8-23
PHOTOGRAMMETRIC OFFICE REVIEW

T. 9483

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
37. Description Report
38. Field inspection photographs
39. Forms
40. Reviewer

SUPERVISOR, REVIEW SECTION OR UNIT
Louis J. Reed, Chief
Stereoscopic Mapping Section
Photogrammetric Engineer

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:
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>
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<tr>
<th>Scale</th>
<th>Date</th>
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<tr>
<td>1:1,587,870</td>
<td>June 1950</td>
</tr>
<tr>
<td>1:750,000</td>
<td>May 1950</td>
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</tbody>
</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]

R. J. Colmer

APPROVED

[Signature]

Chief, Review Branch
Div. of Photogrammetry

[Signature]

Chief, Nautical Chart Branch
Division of Charts

[Signature]

Chief, Div. of Photogrammetry

27 Aug 1953

[Signature]

Chief, Div. of Coastal Surveys