

9487

Diag. Cht. No. 9400.

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-9487

LOCALITY

State Alaska

General locality Kotzebue Sound

Locality Chamisso Island

194 8-51

CHIEF OF PARTY

A. N. Stewart, Chief of Field Party

H. A. Paton, Chief B'more Photo. Off.

LIBRARY & ARCHIVES

DATE August 27, 1957

8-1870-1 (1)

9487

DATA RECORD

T-9487

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

Field Office (II): Portland, Oregon

Chief of Party: A. Newton Stewart

Photogrammetric Office (III): Baltimore, Md
Washington, D.C.Radial Plot Hubert A. Paton, Chief
Officer-in-Charge:
Compilation Louis J. Reed, Chief
Stereoplot Section
Copy filed in Division of
Photogrammetry (IV)

Instructions dated (II) (III):

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

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): JAN 5 1953 Date reported to Nautical Chart Branch (IV):

Applied to Chart No.

Date:

Date registered (IV): 13 May 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 (5) refer to sounding datum
i.e., mean low water or mean lower low water

Reference Station (III):

Lat.:

Long.:

Adjusted

~~Unadjusted~~

Plane Coordinates (IV):

State:

Zone:

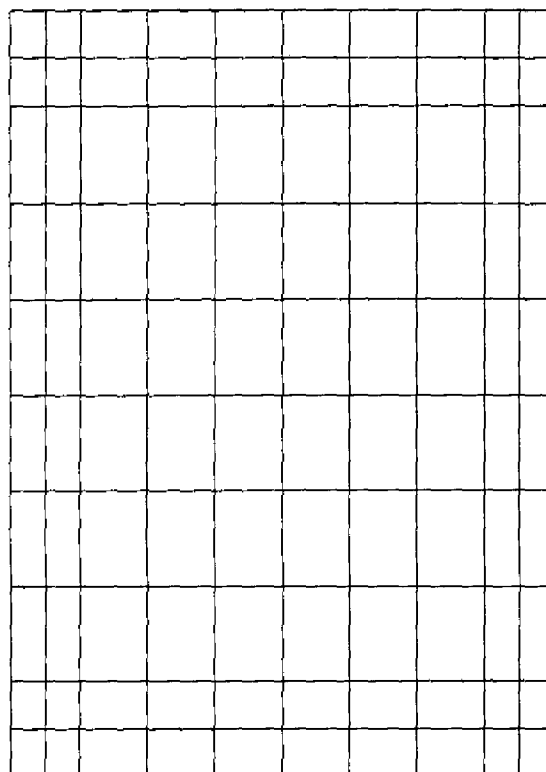
Y=

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)

(H) (III)

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): 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.
 Projection and Grids ruled by (IV): 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 or Stereoscopic Control extension by (III): Ruth Hartley, and verified by Frank J. Tarozza Date: 12 Aug 52
 13 Aug 52

delineation Planimetry Louis Levin Date:
 Stereoscopic Instrument ~~compilation~~ (III): and and 28 Sep 52
 Contours Arthur B. Zimmerli Date:

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

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

Elevations on Manuscript Louis J. Reed Date: 5 Jan 53
 checked by (X) (III):

Camera (kind or source) (III): USC&GS 9-lens Camera "B", f = 8.25 inches

Number	Instrument PHOTOGRAPHS (III)		Scale	Stage of Tide
	Date	Time		
33999 and 34000	27 Jun 51	1639 1640	20,000	-2 ft No Tide

Tide (III)

Reference Station: ~~Icy Cape~~
 Subordinate Station: ~~Kiwalik~~
 Subordinate Station:

diurnal

Ratio of Ranges	Mean Range	Spring Range
		.6
		2.7

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

Date: 12/7/53

Final Drafting by (IV): Pat Lach - J.H. Frazier

Date: 2/27/56

Drafting verified for reproduction by (IV):

Date:

Proof Edit by (IV):

Date:

Land Area (Sq. Statute Miles) (III): $\frac{1}{2}$

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):

Recovered:

Identified: 1

Number of BMs searched for (II):

Recovered:

Identified: None

Number of Recoverable Photo Stations established (III): One

Number of Temporary Photo Hydro Stations established (III): six

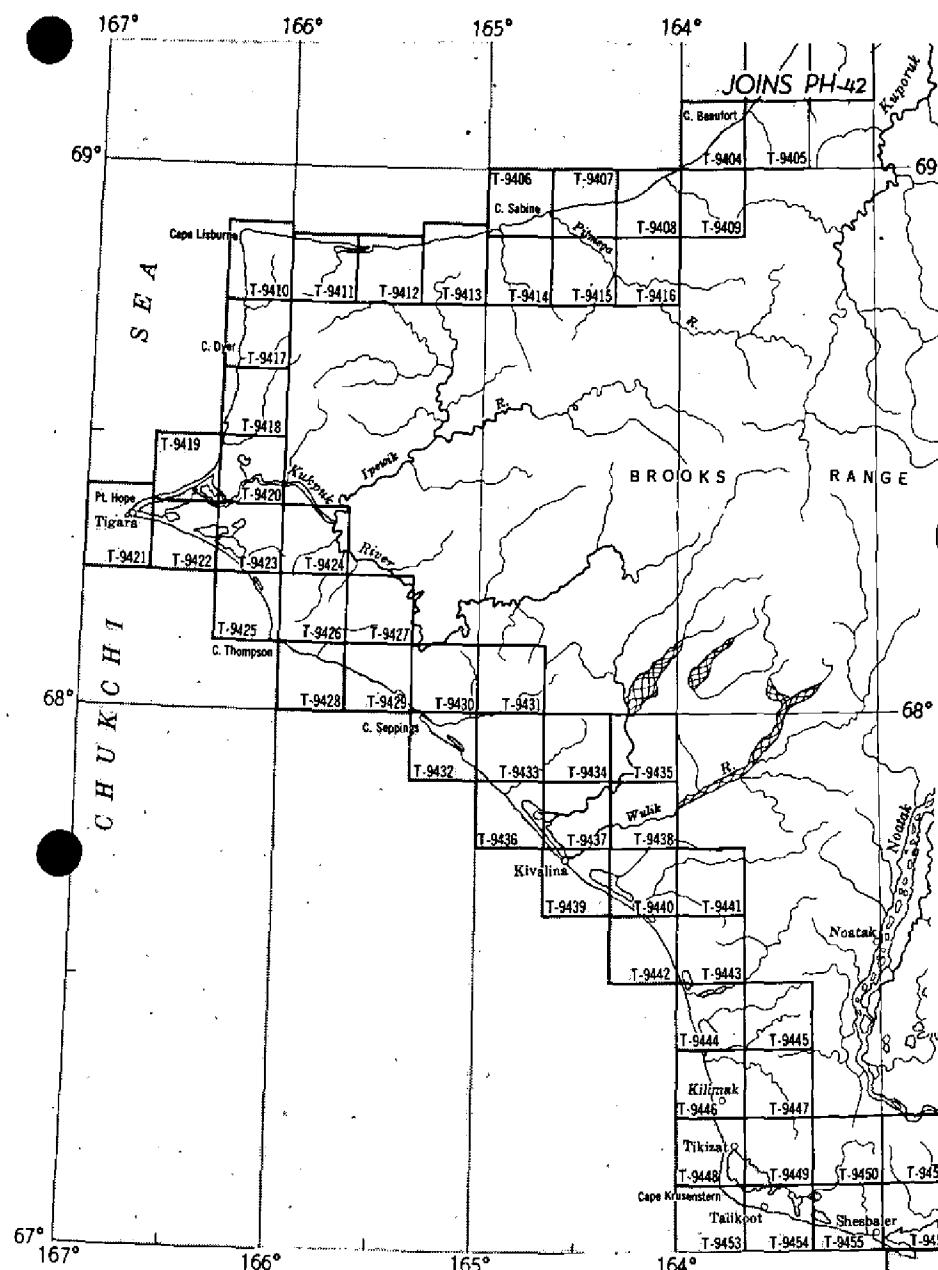
Remarks:

TOPOGRAPHIC MAPPING PROJECT PH-28

ALASKA, Chukchi Sea, Kivalik to C. Beaufort

OFFICIAL MILEAGE FOR COST ACCOU

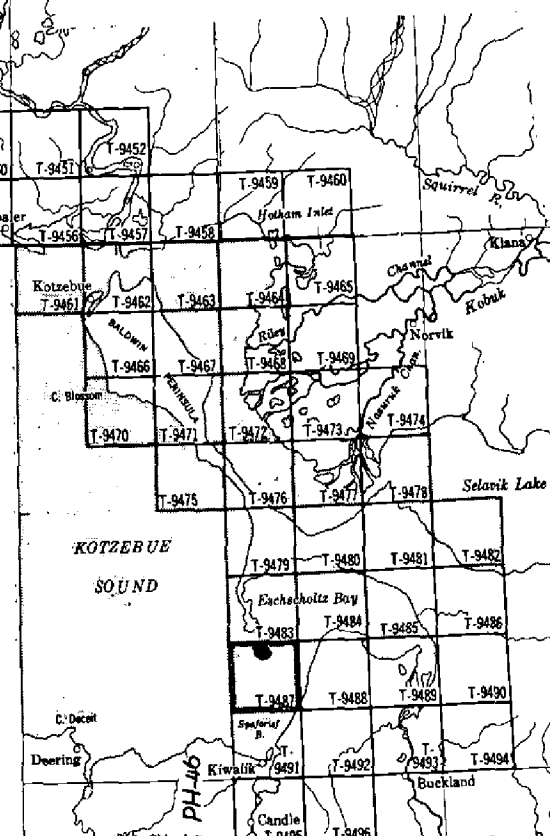
Sheet No's.	Sq. St. Miles	Sheet No's.	Sq. St. Miles	Sheet No's.
T-9404	28	T-9434	21	T-9466
T-9405	66	T-9435	1	T-9467
T-9406	14	T-9436	23	T-9468
T-9407	33	T-9437	74	T-9469
T-9408	53	T-9438	50	T-9470
T-9409	68	T-9439	36	T-9471
T-9410	52	T-9440	68	T-9472
T-9411	66	T-9441	41	T-9473
T-9412	63	T-9442	11	T-9474
T-9413	72	T-9443	73	T-9475
T-9414	75	T-9444	46	T-9476
T-9415	68	T-9445	40	T-9477
T-9416	55	T-9446	30	T-9478
T-9417	53	T-9447	75	T-9479
T-9418	64	T-9448	11	T-9480
T-9419	8	T-9449	66	T-9481
T-9420	70	T-9450	78	T-9482
T-9421	3	T-9451	75	T-9483
T-9422	21	T-9452	60	T-9484
T-9423	56	T-9453	2	T-9485
T-9424	61	T-9454	25	T-9486
T-9425	15	T-9455	50	T-9487
T-9426	74	T-9456	54	T-9488
T-9427	67	T-9457	77	T-9489
T-9428	11	T-9458	59	T-9490
T-9429	40	T-9459	66	T-9491
T-9430	74	T-9460	69	T-9492
T-9431	26	T-9461	1	T-9493
T-9432	28	T-9462	31	T-9494
T-9433	60	T-9463	1	T-9495
		T-9464	15	T-9496
		T-9465	60	TOTAL



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)



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 REPORT31. 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: 20884 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 20884. All have been located by the radial plot and are shown on the manuscript in proper name and symbol.

39. Junctions: Not applicable - none exist. See pp. 31.40. 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 ~~same~~ island area:
same

SELAWIK, Alaska Reconnaissance Topographic Series, USGS, Second Judicial Division, 1:250,000, edition of 1951.

47. Comparison with Nautical Charts:

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

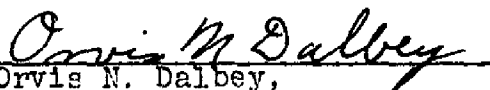
CAPE PRINCE OF WALES TO POINT BARROW, Provisional Chart, Alaska - Arctic Coast, Chuckchi Sea, No 9402, 1:750,000, 1st edition, May 1950.

48. Geographic Name List: See page 11.

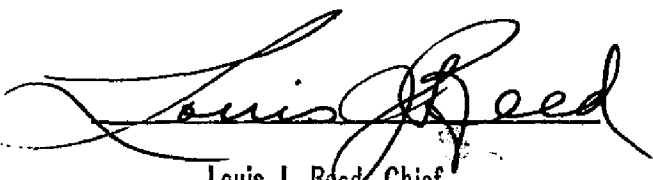
49. Notes for the Hydrographer: See unnumbered page following.

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

GEOGRAPHIC NAMES

Survey No.

T-9487

Name on Survey

	On Chart No.	On previous survey No.	On U. S. quadrangle Maps	From local information	On local Maps	P. O. Guide or Map	Rand McNally Atlas	U. S. Light List	
A	B	C	D	E	F	G	H	K	
CHAMISSO ISLAND									1
ESCHSCHOLTZ BAY									2
HOTHAM INLET									3
SPAFARIEF BAY									4
CHAMISSO NATIONAL WILDLIFE REFUGE									5
Chamisso Anchorage									6
Puffin Island									7
									8
									9
									10
									11
									12
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									25
									26
									27

(SEE T-9483: Waterway island
and anchorage Penikese)Names approved
12-14-53

Review Report T-9487
Topographic Maps
November 27, 1953

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.-

9400	1:1,587,870	June 1950
9402	1:750,000	May 1950

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:

for H. R. Brooke
B. J. Colner

APPROVED

L. C. Lande
Chief, Review Branch
Div. of Photogrammetry

L. W. Swanson
Chief, Div. of Photogrammetry

19 August 1957

Wallace A. Bruder
Chief, Nautical Chart Branch
Division of Charts

J. B. Gilmer
Chief, Div. of Coastal Surveys

49. Notes for The Hydrographer:

a. Topo Stations: (one)

CHAM 1948- identified on photo 20884 and described on
topo card form 524.

b. Hydro stations: (six) (all identified on photo 2-884)

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 MHWL."

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 along-shore 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. Descriptive Report ☒ 38. Field inspection photographs ☒ 39. Forms ☒ 40. ☒

41. Remarks (see attached sheet)

Louis J. Reed
 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:

M-2623-12