9483

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-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

8-1870-1 (1)

9483

DATA RECORD

T-9483

Project No. (II): Ph-28(47) Quadrangle Name (IV): CHORIS PENINSULA

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

Chief of Party: A.Newton Stewart
Officer-in-Charge: Radial Plot Hubert A.Paton, Chief
Compilation Louis J.Reed, Chief, Stereo-map 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): DEC 18 1952 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 (5) refer to sounding datum
i.e., mean low water or mean lower low water

Reference Station (III):

Lat.: Long.: Adjusted
~~Unadjusted~~

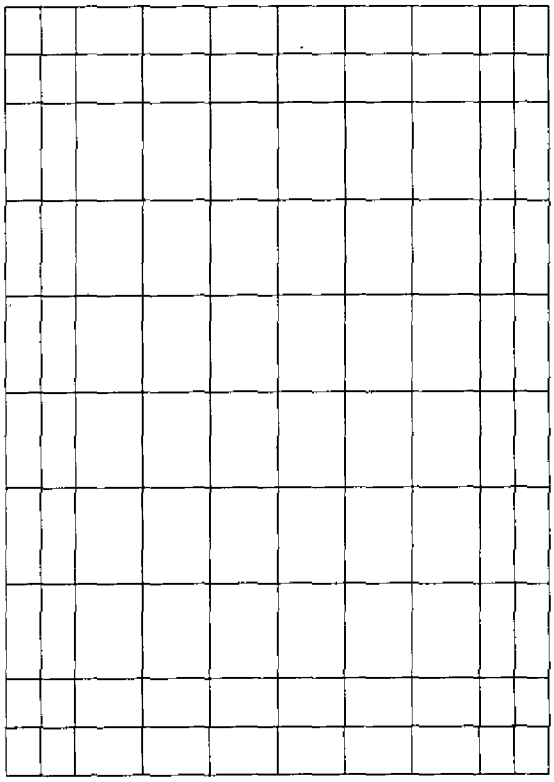
Plane Coordinates (IV): State: Zone:

Y= X=

MILITARY GRID = UTM, Zone 4, 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)
(II) (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):

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 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. Tarcza — Date: 17 Jun 52, 18 Jun 52

Stereoscopic Instrument ~~compilation~~ delineation (III): Planimetry Louis Levin and Contours Arthur B. Zimmerli — Date: 28 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 (~~II~~) (III): Louis J. Reed — Date: 17 Dec 52

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

PHOTOGRAPHS (III)

Number	Date	Time	Scale	Stage of Tide
33994 thru 33997	27 Jun 51	1635-1638	20,000	~~No tide~~ Inside -2', Outside -1 1/2'

Tide (III)

diurnal

Ratio of Ranges	Mean Range	~~Spring~~ Range
		~~.6~~ 2.7

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

Washington Office Review by (IV): B.J. Colner Date: 11/27/53

Final Drafting by (IV): Frank Johnson Date: 1-4-56

Drafting verified for reproduction by (IV): Date:

Proof Edit by (IV): Date:

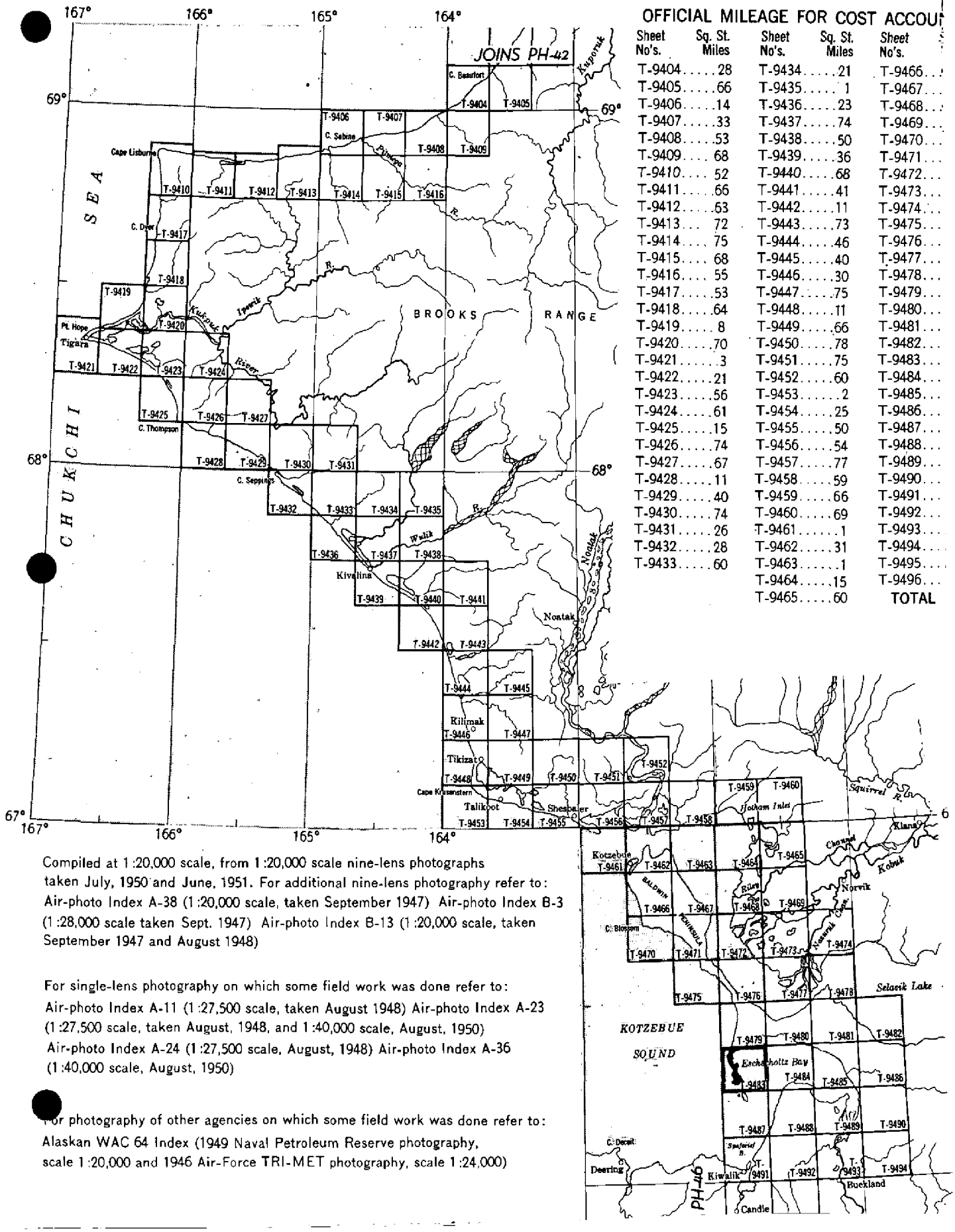
Land Area (Sq. Statute Miles) (III): 9 sq mi
Shoreline (More than 200 meters to opposite shore) (III): 28 miles
Shoreline (Less than 200 meters to opposite shore) (III): None
Control Leveling - Miles (II): None
Number of Triangulation Stations searched for (II): Recovered: Identified: X two
Number of BMs searched for (II): Recovered: Identified: none
Number of Recoverable Photo Stations established (III): Five
Number of Temporary Photo Hydro Stations established (III): ~~Ten~~ //

Remarks:

M-2618-12(4)

TOPOGRAPHIC MAPPING PROJECT PH-28

ALASKA, Chukchi Sea, Kiwalik 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)

Summary to Accompany T-9483

Ph-28(47) 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 ~~cloth backed lithographic~~ Ozalid print of this map at the compilation scale will be registered with the descriptive report in the Bureau Archives.

FIELD INSPECTION REPORT

11#11)

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 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.

COMPILATION REPORT

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: 20885, 6, 7, 8, and 9.

b Elevation Computations: Bound volume 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.

45. Comparison with Existing Maps:

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

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 same area:

CAPE PRINCE OF WALES TO POINT BARROW, Provisional Chart, Alaska - Arctic Coast, Chuckchi 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

Orvis N. Dalbey,
Cartographer-Photogrammetric

Approved By

Louis J. Reed

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), 1948--identified on photo 20886
CASE, 1948--identified on photo 20886
GROG, 1948--identified on photo 20887
MAZE, 1948--identified on photo 20888
MOSS, 1948--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 the 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."
No652 - 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 MHWL."
No 755 - on 20887 as: "Center of bare spot of yellow earth near the top of a steep slope. There is another 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 MHWL. Ledge has small loose rocks on its top."
No 775 - on 20886 as: "E tip of small E'ly ledge at MHWL. 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."

GEOGRAPHIC NAMES

Survey No.
9483
T-~~9515~~

Name on Survey	A On Chart No.	B On previous survey No.	C On U. S. quadrangle Maps	D From local information	E On local Maps	F P. O. Guide or Map	G Rand McNally Atlas	H U. S. Light List	K	
BALDWIN PENINSULA										1
CHAMISSO ~~PASSAGE~~ Anchorage										2
~~CHAMISSO NATIONAL WILDLIFE REFUGE~~				(According to map from F.&W. Wildlife service it includes only Chamisso I. to south of this sheet)						3
CHORIS PENINSULA										4
ESCHSCHOLTZ BAY										5
KOTZEBUE SOUND										6
PT GARNET										7
										8
				Names Approved 12-8-53 n.Heck						9
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										27

Form T-2

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 N

9. Plotting of sextant fixes N 10. Photogrammetric plot report ✓ 11. Detail points N

✓ = checked
N = non-existant

ALONGSHORE AREAS
(Nautical Chart Data)

12. Shoreline ✓ 13. Low-water line N 14. Rocks, shoals, etc. ✓ 15. Bridges N 16. Aids to navigation N 17. Landmarks N 18. Other alongshore physical features ✓ 19. Other alongshore cultural features N

PHYSICAL FEATURES

20. Water features ✓ 21. Natural ground cover N 22. Planetable contours N 23. Stereoscopic instrument contours ✓ 24. Contours in general ✓ 25. Spot elevations ✓ 26. Other physical features ✓

CULTURAL FEATURES

27. Roads N 28. Buildings ✓ 29. Railroads N 30. Other cultural features N

BOUNDARIES

31. Boundary lines N 32. Public land lines N

MISCELLANEOUS

33. Geographic names ✓ 34. Junctions ✓ 35. Legibility of the manuscript ✓ 36. Discrepancy overlay N 37. Descriptive Report ✓ 38. Field inspection photographs ✓ 39. Forms ✓

40. _____ _____
Reviewer — Supervisor, Review Section or Unit

Louis J. Reed, Chief
Stereoscopic Mapping Section
Photogrammetric Engineer

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:

M-2623-12

Review Report T-9483
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:

R. J. Colner

APPROVED

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

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

H. W. Swanson
Chief, Div. of Photogrammetry
27 Aug 1953

Chief, Div. of Coastal Surveys