**Description Report**

**Type of Survey:** Topographic

**Field No.:** Ph-8 (46) Office No. 9232 & 9233

**Locality**

- **State:** Alaska
- **General Locality:** Kuskokwim Bay
- **Locality:** Chagyan

**Chief of Party**

A. Newton Stewart, Chief of Field Party
Div. of Photogrammetry, Washington, D.C.

**Library & Archives**

**Date:** November 22, 1955
Chief, Div. of Photogrammetry

Examination of topographic manuscripts T-9232 and T-9233, Kuskokwim Bay, Alaska

Descriptive Report.—Apparently the general locality on the cover should be Kuskokwim Bay and not Bristol Bay.

Page 10, paragraph 26 and Page 12, paragraph 33,—Why not put this tabulation of vertical control in the descriptive report, possibly after the radial plot section? This information is vital to the map and should be a part of the descriptive report unless it is too bulky to insert.

Page 13, paragraph 40.—There does not seem to be enough information. The radial plot report indicates low horizontal accuracy in the southwestern part of T-9233, and it appears from casual examination of the sheet that the vertical accuracy will be lower in the southern corner of T-9233. This sort of information should be summarized.

Map T-9233.—The drafting is excellent and the compilation of supplemental contours very good.

Many of the feeder streams seem rather stiff and straight, and the contours are not turned around streams sufficiently for good appearance. This comment is made without examination of the photographs, but I think it worth calling to the attention of the compilers.

There are rather too many feeder streams. This is indicated by red pencil marks on the map copy. This subject has been discussed recently and I expect has been taken care of on new drawings.

Two elevations are shown for station V-121. I realize that you did this probably to give additional information, but it will be better to select the best elevation and show only that. You are free to choose the instrument elevations in lieu of the ground elevations, if you feel sure that the former is more reliable. In this case, a note should be made on the summary of vertical control. As regards both V-121 and V-122, the question arises as to whether these are triangulation stations. Sometimes a horizontal position is computed for a future station from horizontal angles furnished with the vertical control. This is quite
all right for plotting purposes, but such stations should not
be shown as a triangulation station unless the position is on
record in Geodesy.

T-9232. Two elevations are shown for each of peaks 104 and
288. This is the same situation as mentioned above.

The note "shore bluffs" is lettered in two places, but the
limits are not shown. The Drafting Section cannot apply hachures
without the limits. In this case, however, the 25 foot contours
run so close to the shore that hachures are probably not needed.

O. S. Reading,
Chief, Div. of Photogrammetry
DATA RECORD

T-9232 & 9233

Project No. (II): Ph-59(46)  Quadrangle Name (IV): T-9232 = RED MOUNTAIN
T-9233 = SUSIE MOUNTAIN

Field Office (II): Platinum, Alaska  Chief of Party: A. Newton Stewart
Photogrammetric Office (III): Washington D.C.  Radial Plot by Lester C. Lande
Compilation by Louis J. Reed

Instructions dated (II) (III):
21 Apr 48 = Field
4 Feb 49 = Office

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): 1:1

Date received in Washington Office (IV): SEP 30 1962  Date reported to Nautical Chart Branch (IV): OCT 21 1962

Applied to Chart No. Date: Date registered (IV): 8-17-55

Publication Scale (IV):

Geographic Datum (III): NA 1927

The difference between Unadjusted Datum and NA 1927 Datum is Lat. plus/minus 12 m.
and Long. plus/minus 5 m. vet.

Reference Station (III):
Lat.: Long.: Adjusted

Plane Coordinates (IV):
State: Zone:
Y= X=

Coordinate System = none other than WAC construction Grid

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.

Form T- Page 1  M-251A-12(4)
Areas contoured by various personnel
(Show name within area)

100% compiled by Clarence E. Mifeldt
on the Reading Plotter, model "A".
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 is dated 1948 since it was field located on photos during that season, and those photos were used as a guide when the shoreline was delineated on the Reading "lotter, modul "A".

Projection and Grids ruled by (IV): On the Reading Ruling machine Date: 6 Sep 49
by Theodore L. Janson

Projection and Grids checked by (IV): Howard W. Wolfe Date: 7 Sep 49

Control plotted by (III): Charles H. Davies Date: 8 Nov 50

Control checked by (III): Samuel D. Blankenbaker Date: 9 Nov 50

Radial Plot of lines
Control extension by (III):

Delineation and Contours
Stereoscopic Instrument: Pianimetry Date: 22 Jun 52
Clarence E. Misfeldt

Manuscript delineated by (III): Robert L. Sugden Date: 26 Sep 52

Photogrammetric Office Review by (III): Louis J. Reed Date: 29 Sep 52

Elevations on Manuscript checked by (III): Louis J. Reed Date: 29 Sep 52

Form T: Page 3
PHOTOGRAPHS (III)

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* Data from Mr Disney of T&S, 25 Sep 52.

Tide (III)

Reference Station: HAGUARANI, Peru
Subordinate Station: Goodnews Bay Entrance, Alaska

Washington Office Review by (IV):

Final Drafting by (IV):

Drafting verified for reproduction by (IV):

Proof Edit by (IV):

Date: (9232 - 2/4/55)
Date: (9233 - 1/24/55)
Date: 1-27-55
Date: 2-19-55

Land Area (Sq. Statute Miles) (III): T-9232 = 18 sq mi; T-9233 = 91 sq mi
Shoreline (More than 200 meters to opposite shore) (III): T-9232 = 9 miles; T-9233 = none
Shoreline (Less than 200 meters to opposite shore) (III): none
Control Leveling - Miles (II): none
Number of Triangulation Stations searched for (II): Recovered: identified: five
Number of BMs searched for (II): Recovered: identified: None
Number of Recoverable Photo Stations established (III): two
Number of Temporary Photo Hydro Stations established (III): None

Remarks:
Summary to Accompany T-9232 & T-9233

Ph-8(46) covers the north shore of Bristol Bay in Alaska and runs from the Egegik River and Kvichak Bay on the East to Cape Newenham on the West.

It is divided into three parts as follows:

Ph-8(46)A includes 23 planimetric maps in the general area of Kvichak Bay and extends from Egegik Bay to Nushagak Bay.

Ph-8(46)B is composed of two shoreline surveys on the Egegik River between Egegik Bay and Lake Becharof.

Ph-8(46) includes 45 topographic maps covering the area from Nushagak Peninsula westward to Cape Newenham and north to Goodnews Bay. It includes offshore islands such as Hagemeister and the Walrus Islands.

T-9232 and T-9233 fall in the northwesterly portion of the project. T-9232 contains Salmon River and is bounded by Kuskokwim Bay to the west. T-9233 contains Kinegnak River and Shaw Creek.

Each 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 print of each map at the compilation scale will be registered with the combined descriptive report in the Bureau Archives. These maps will not be published.
FIELD INSPECTION REPORT

2-20:

Refer to:

"Project Report, Aerial Photograph Control and Inspection, Bristol Bay, Alaska", Project Ph-8B(46), May to July 1948, by A. Newton Stewart, Chief of Party.
PHOTOGRAHMETRIC PLOT REPORT:

21. Area Covered:

The topographic maps covered with this radial line plot are in the vicinity of Platinum, Alaska, between Chagvan Bay and Goodnews Bay.

T-8057 --- T-8058 --- south part
T-8072   T-8073
T-9232   T-9233
T-9238 --- T-9239 --- north part

22. Method:

Radial plot:
Vinylite base grids which will subsequently serve as manuscripts were ruled with a polyconic projection and a 2500 meter UTM grid. Nine-lens, metal mounted photographs at 1:20,000 scale were used throughout. They were supplemented by eight single-lens photographs at 1:10,000 scale in the vicinity of Platinum where a small plot was laid to locate aids to navigation in that area.

Vinylite templets were used and calibration templet No. 27350 was used to adjust for transforming errors. No serious trouble was encountered and no tilts were computed for probable closer tolerances.

The area was covered with a fairly adequate density of vertical and horizontal control. Some difficulty was experienced by the triangulation field parties in properly identifying suitable substitute stations because identification was done during the 1948 field season in part on older photography. Successful attempts were made to supplement control identification with 620 snapshots taken from a small airplane at low altitudes. These proved invaluable and in only a few instances was it impossible to properly identify the stations.

Satisfactory adjustment and closure was made on all horizontal control except Baluka, 1948, Peak T, 1948, and Pyramid Peak, 1911, 1948.

All intersections were drilled with a No. 80 twist drill down through the several thicknesses of templets and the points were drafted with 4 mm. blue permanent ink circles on the reverse side of the manuscripts.

23. Adequacy of Control:

The attached index shows the density and distribution of horizontal and vertical control. Vertical control
stations V-121 and V-122 were not used in the plot as horizontal control. Their geographic positions were available from field computations, but the pricking information was not adequate enough to include them in the plot.

At least one more triangulation station could have been utilized near the junctions of T-9232, 9233, 9238, 9239, to insure the accuracy of the plot in that area where the plot joins with that of one laid on Ph-8 to the South. This is considered the weakest area in the plot since no check other than good intersections and tight azimuths could be made. An attempt was made to junction properly with the Ph-8 plot to the South in the northern parts of T-9238 and T-9239. However, it is considered that this Ph-41 plot is of higher accuracy as carried down from rigidly held control. Consequently the secondary pass points in the junction area were repicked to agree with the new plot positions and are shown on the base grid with red circles.

Disposition of horizontal control not held in plot:

Baluka, 1948

Attempts were made to identify the substitute stations submitted, but were abandoned because of poor photographic interpretation. However, a point of detail was selected and radial plotted to serve as a pass point only. It is coincidence that it falls only one mm. from the station.

Pyramid Peak, 1911, 1948

A good intersection was obtained on the highest point of Pyramid Peak which plots .3 mm. from the geographic position as computed from horizontal angles observed during two different seasons. The plot is rigid enough to consider an observation error here.

Peak T, 1948

Two sharp points on Pk. T were radially plotted and inked on the manuscript. Protracting the angles observed from Promontory, 1948 and Baluka, 1948 reveals that the lines of sight in both cases pass through these plotted positions which would seem to indicate an observing error and an erroneous position for Pk. T.

24. Supplemental data:

None
25. **Photography:**

   The photography is excellent with few transforming irregularities indicated, and they have good contrast and a minimum of tilt. Except for a few of the higher peaks the images are good, and the photos were not difficult to prepare for radial plotting.

26. **Vertical Control:**

   A tabulation of the elevations obtained by the phototrig process is submitted on Form 29D under separate cover and is filed under Ph-41 (49) in Photogrammetry general files.

   Elevations of all triangulation stations in the area have been adjusted to MSL by Geodesy, and are shown on a sketch map of the triangulation scheme filed in Ph-41(49) general files.

   A generally satisfactory set of elevations was obtained and the density is considered adequate for controlling contours the needed distance inland.

---

Submitted by:

/s/ Roscoe J. French
Roscoe J. French
September 1951

---

Approved by:

/s/ L. C. Lande
L. C. Lande
31. Delineation:

Contours, shoreline, and all cultural features were delineated simultaneously on the Reading Flotter, model "A". Photo coverage was complete on T-9232 and the quad is completely compiled, but a small area along the west edge of T-9233 is left blank because of lack of photo coverage.

32. Control:

Refer to side-headings 23 and 26 of the Radial Plot Report, included herein. Vertical control for rectification and contouring purposes consisted of datum as indicated by the shoreline, and by elevations computed for peaks after the radial. More points of elevation could have been used, especially on the western edge where instrument bridging had to be resorted to after a trial indicated it would be possible.

33. Supplemental Data:

Tabulation of elevations compiled as a part of the radial plot procedure.

Project Report, Project Ph-41(49), May to July 1949, by A. Newton Stewart, Chief of Field Party.

34. Contours and Drainage:

The photographic quality of the photographs was satisfactory for contouring purposes and no areas of questionable contours remain.

35. Shoreline and Alongshore Details:

Inspection of the shoreline in the area of T-9232 is non-existent due to a lack of photo coverage of the area at the time of the field work. However, inspection to the north and south of this sheet has been sufficient to indicate the shoreline location on this quad also. No low-water or foul areas were apparent in the photos.

36. Offshore Details: Not applicable.

37. Landmarks and Aids: None.

38. Control for Future Surveys:

No hydro signals have been located. No topo stations were established on T-9233, but two were selected in the field on T-9232 and have been positioned by the
radial plot, as follows: (see 524 cards)
SEEP, 1949 and BUMP, 1949

39. **Junctions:**

All junctions are in agreement; T-8072 and T-8073 are on the north edge, and T-9238 and T-9239 on the south.

40. **Horizontal and Vertical Accuracy:** Standard.

46. **Comparison with Existing Maps:**


47. **Comparison with Nautical Charts:**

Chart No 9103, Kuskokwim Bay, 1:200,000, published September 1916 (2nd edition), last correction 21 Apr 47.

48. **Geographic Name Lists:** See two separate pages, following.

49. **Notes for the Hydrographer:** None.

50. **Compilation Office Review:** See T-2 form, following.

Submitted by:


Orvis N. Dalbey, Cartographer-Photogrammetric

Approved and Forwarded by:


Louis J. Reed, Chief
Stereoscopic Mapping Section
Photogrammetric Engineer
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**Names approved**
2-19-53. L. Heck

23 24 25 26 27
PHOTOGRAMMETRIC OFFICE REVIEW

T. 9232 - 9233

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. Form

40. Reviewer

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:
Review Report T-9232 and T-9233
Topographic Maps
February 19, 1953

62. **Comparison with Registered Topographic Surveys.**—None

63. **Comparison with Maps of other Agencies.**—
   USGS Alaska Map 18, Goodnews District, Alaska,
   1:250,000, 1938 edition.

64. **Comparison with Contemporary Hydrographic Surveys.**—None

65. **Comparison with Nautical Charts.**—
   See item 47
   Chart No. 9103, Kuskokwim Bay, 1:200,000, published
   Sept. 1916 (2nd edition), last correction 10 October
   1950.
   There are no significant differences between these
   maps and the chart.

66. **Adequacy of Results and Future Surveys.**—
   Further field edit is not considered necessary prior
   to hydrographic surveys in the area.
   These maps are considered adequate as a base for hydro-
   graphic surveys and the construction of nautical charts.

Reviewed by:

[Signature]
E. J. Colmer

APPROVED:

[Signature]
L. C. Hardy
Chief, Review Section
Division of Photogrammetry

[Signature]
W. I. Neff
Chief, Div. of Photogrammetry
November 1953

[Signature]
A. V. Edmondson
Chief, Nautical Chart Branch
Division of Charts 6th

[Signature]
E. O. Henton
Chief, Div. of Coastal Surveys
# Nautical Charts Branch

**Survey No. 7.9232**

Record of Application to Charts

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<td>L.S.S.</td>
<td>Before After Verification and Review</td>
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</table>
| 1974-64| 9103  | H. Rodde     | Considered adequate compared with new
       |       |              | Before After Verification and Review         |

A basic hydrographic or topographic survey supersedes all information of like nature on the uncorrected chart. Give reasons for deviations, if any, from recommendations made under "Comparison with Charts" in the Review.
### NAUTICAL CHARTS BRANCH

**SURVEY NO. T.9233**

Record of Application to Charts

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<td>Before After Verification and Review</td>
</tr>
</tbody>
</table>

A basic hydrographic or topographic survey supersedes all information of like nature on the uncorrected chart. Give reasons for deviations, if any, from recommendations made under "Comparison with Charts" in the Review.