**DESCRIPTIVE REPORT**

Type of Survey: Topographic

Field No.: Office No.: T-9241

**LOCALITY**

State: Alaska

General locality: Bristol B.y Area

Locality: HAGFJESTEN ISLAND

**1948**

CHIEF OF PARTY

A. N. Stewart, Chief of Party
Div. of Photozoometry, Wash. D.C.

**LIBRARY & ARCHIVES**

DATE: 17/1954

24CH 47-1 824 48
DATA RECORD

T-9241

Project No. (II): Ph-8B(46) Quadrangle Name (IV): Hagemeister I

Field Office (II): Photogrammetric Party Chief of Party: A. N. Stewart

Photogrammetric Office (III): Washington, D. C. Officer-in-Charge: Louis J. Reed, Chief,

Instructions dated (II) (III):

25 April 1947, 21 April 1948 Stereoctopic Mapping Section

Copy filed in Division of Photogrammetry (IV)

Office Files

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): 8-7-49 Date reported to Nautical Chart Branch (IV): 8-8-49

Applied to Chart No. 1 May 51 Date: 1 May 51

Date registered (IV): 11/24/53

Publication Scale (IV): Publication date (IV):

Geographic Datum (III): NA-1927 [Unadjusted]

Vertical Datum (III):
Mean sea level except as follows:
Elevations shown as (2) 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): STRAIT, 1948 [Adjusted]

The difference between Adjusted Datum
and NA. 1927 Datum is Lat. plus/minus 1.6 m.
and Long. plus/minus 3.3 m.

5.3 m [Unadjusted]

Plane Coordinates (IV) WAC 2500-meter State: Alaska Zone: Special

Not used in compilation procedure.

Military Grid: Universal Transverse Mercator, Zone No. 4 (Not on manuscript)

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% by Orvis N. Dalbey

on

Reading Plotter "A"

(Mainland)
100% by Orvis N. Dalbey

on

Reading Plotter "B"
DATA RECORD

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

Planetable contouring by (II): None  
Date:

Completion Surveys by (II): None  
Date:

Mean High Water Location (III) (State date and method of location):
About 90% located by 1948 field inspection; balance delineated on the Reading Plotter

Projection and Grids ruled by (IV): Ruling Machine  
Date: 14 March 1949

Projection and Grids checked by (IV): Wheatley E. Ward  
Date: 14 March 1949

Control plotted by (III): Robert L. Sugden  
Date: 2 May 1949

Control checked by (III): Louis Levin  
Date: 5 May 1949

Radial Plot by (III): Roscoe J. French  
Date: 11 April 1949

Reading Plotter "A": Planimetry  
Date: 21 Dec 50

Stereoscopic Instrument compilation (III): Orvis N. Dalbey and William D. Harris  
Date: 20 April 1949

Manuscript delineated by (III): Robert L. Sugden (Belgard)  
Date: 15 May 1949

Photogrammetric Office Review by (III): Louis Reed  
Date: 30 Apr 51

Elevations on Manuscript checked by (III): Louis Reed  
Date: 25 July 49
PHOTOGRAVHS (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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</thead>
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<td>23192, 3, 4A</td>
<td>1 Sept.1948</td>
<td>12:00 to 12:35</td>
<td>1:20,000</td>
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<tr>
<td>20466-9</td>
<td>24 Aug.47</td>
<td>Obscured</td>
<td>20,000</td>
<td>1 ft below MHW</td>
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</table>

Tide (III)

Reference Station: Nushagak Bay (1500 ft)
Subordinate Station: Hagomeister
Subordinate Station: Black Rock, Walrus Islands

Ratio of Ranges

<table>
<thead>
<tr>
<th></th>
<th>Mean Range</th>
<th>Spring Range</th>
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</thead>
<tbody>
<tr>
<td>1:20</td>
<td>16.2</td>
<td>19.5</td>
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<tr>
<td>1:4</td>
<td>5.4</td>
<td>9.0</td>
</tr>
<tr>
<td>1:8</td>
<td>2.6</td>
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</table>

Diurnal

Washington Office Review by (IV): B.J. Colner
Final Drafting by (IV): J.J. Day
Drafting verified for reproduction by (IV): C.L. Kellogg

Land Area (Sq. Statute Miles) (III): 9.1 sq. mi. + 4.5 (mainland) = 13.6 sq. mi., total.
Shoreline (More than 200 meters to opposite shore) (III): 14.2 miles + 13.6 (mainland) = 27.8 miles, total.
Shoreline (Less than 200 meters to opposite shore) (III): none
Control Leveling - Miles (II): none

Number of Triangulation Stations searched for (II): Recovered: two Identified: two
Number of BMs searched for (II): none Recovered: identified:
Number of Recoverable Photo Stations established (II): three
Number of Temporary Photo Hydro Stations established (II): seven

Remarks: The Tides and Currents Division compiled a set of tide predictions for this area. Details for this chart are found on the reverse side of this sheet.

* See reverse side of Page.
Tide Predictions, Alaska

Bristol Bay

Reference station: Mushagak Bay
Time meridian 150° W

Togiak Bay:

Times of high and low waters subtract 3 hours
Heights of high waters multiply by ratio 0.65
Heights of low waters multiply by ratio 0.90
Subtract 7.2 ft. to refer heights to MSL

* Since receiving the above tides information it was found more practical to determine the slope of tides from our stations Black Rock in the Walker Island group.
Summary to Accompany T-9241

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-9241 contains the southern portion of Tongue Point and the northeastern portion of Hagemeister Island. The Island is bounded by Bristol Bay, Hagemeister Strait, and Togiak Bay.

The 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 the map at the compilation scale will be registered with the Descriptive Report in the Bureau Archives. This map will not be published.

* 100 feet on Hagemeister Island - see map legend.
Field Inscription Report

See p. 8 for references to Field Reports.

1. Description of the Area (Hagemeister Island):

Hagemeister Island, lying south of Tongue Point and near the southwestern limit of Togiak Bay, has a length of 25 miles and maximum width of 10 miles. The long axis of the island lies in a NE-SW direction, approximately parallel to the mainland shore. It is quite mountainous. The highest elevations lie near the western shore on the southern half of the island, and are rocky. The northerly end is relatively low, rising to the south along the eastern shore in a series of rolling, tundra covered hills having alder patches on their slopes and rock out-crops near their tops. Along the eastern shore the highest elevation is somewhat north of the center of the island. Between the elevations along the eastern and western shores there is a low pass through the island extending from just west of its southeasterly point towards Tongue Point.

Forming the extreme northerly tip of the island there is a low, gently rolling, tundra covered elevation. Founding this, next to the sea, there are rocky bluffs about 30 feet high, with short stretches of gravel beach between small rocky points. This elevation probably at one time was a detached islet. Behind it, to the south, for 1 mile along the westerly and 7 miles along the easterly shore there is a low, flat, grass covered area consisting of a series of old beach lines built up by the sea, and along which there is a sand and gravel beach. Along the eastern shore, behind the old beaches there is a bluff about 30 feet high which approaches the shore at the south end of the old beaches.

For the next 6 miles to the south the bluff is of earth and rock. It is about 100 feet high and immediately adjacent to the shore, with some points around which a man can not walk at high water. The narrow beaches are of sand and gravel. For the next 9 miles the foreshore is another low area of grass covered, built up old beach lines. Behind this the bluff line slowly recedes from shore, maintaining its elevation of 100 feet for about 4 miles, then rises to about 250 feet, and drops again as it approaches shore at the south end of the old beach area. At this point the shore is slowly curving to the westward, forming the most southeasterly point of the island.

Along the south shore, 6 miles in length, the bluffs are generally of bare earth from 50 to 75 feet high, but with projecting points having rock faces 75 to 100 feet high. Behind the rock faces the ground rises steeply to higher elevations. The southwest tip of the island is prominent and rocky, the beach for one mile eastward from it being of broken rock of various sizes. Otherwise there are sand and gravel beaches along the base of the bluff, except that around some of the rocky points the high water line is at the base of the rocky faces.
Northerly from the southwest tip of the island, along the west shore for 6 miles the bluff is bold and from 75 to 150 feet high. It becomes lower towards the northerly end. It is of earth except for several points of land, at which there are a few close inshore off-lying rocks. The beaches are of gravel mixed with boulders. From the northerly end of this section a long, grass covered sand spit, with sand and gravel beaches, extends northwesterly into Hagemeister Strait towards the mouth of the Osvalik River.

From the base of the sand spit the shore extends northward another 5 miles to the base of a second sand spit one mile in length that curves sharply westward, then southward parallel to the shore. The water between the two spits is very shoal, and a large area dries at low tide. The bluff along the main shore between the spits is from 25 to 50 feet high, the face being covered with a mixture of alder, grass, and tundra. At the foot of this bluff there is a narrow beach of sand and gravel.

At the northerly and smaller sand spit the shoreline turns northeasterly, parallel to the mainland shore for 16 miles to the NE tip of the island. The shore is undulating, with several wide, open bights. In general the face of the bluff is of earth, and it is from 50 to 100 feet high. It is broken by two sections of 1 to 2 miles in length having rock faces, and by two pronounced valleys carrying good sized streams. Towards the northeasterly end the bluffs are lower, and, in some places, disappear entirely. Behind the bluffs are slopes covered with alder and tundra. In general the beaches are of sand and gravel except that along the rocky faces they are of boulders with some gravel.

1-25.

Photogrammetric Control identification was made prior to compilation by a photogrammetric field party under the direction of A. N. Stewart. The field report on this work is included in two Season's Reports entitled, "Project Report - Aerial Photograph Control and Inspection, Bristol Bay, Alaska, Project Ph-3(46)", dated "May to September 1947" and "May to July 1948".

*Filed in Bureau Library under Library No. 138 (1947) and 172 (1948) respectively.
26. Control:

Adequate control was furnished for this quadrangle and the four other quadrangles covering Hagemeister Island; a single radial plot was laid. For this reason control will be discussed herein for the complete plot.

**Horizontal control** consisted of five triangulation stations and four intersected peaks. Sub-stations were available for four of the five permanent stations. HAGEMEISTER and PEAK 163 failed to aid in controlling the plot; the station could not be identified on the photographs and the peak was apparently observed in error. The triangulation stations falling within each quadrangle covered by this plot are listed on a separate page.

**Vertical control** for the compilation was furnished by a combination of mean sea level and elevations furnished by either field or office computations from field observations on certain natural objects. The field computations supplied the elevations on all but STRAIT of the nine horizontal control stations; it was office computed. In addition, seventeen other elevations were made available for compilation after office computations based on field observations. All vertical control was used in contouring and held to within the tolerance specified by national map standards. A list of elevations is contained on a separate page of this report.

27. Radial Plot:

The radial plot for Hagemeister Island (five quadrangles) was prepared by the Graphic Compilation Section, Washington Office. The Graphic Compilation Section also furnished the data for this chapter and Chapter 26 on Control.

The plot was executed in the normal manner on base sheets (dyrite) having a polyconic projection to which the horizontal control was scaled. Control and all azimuths were registered on the compilation photographs using Reading Plotter #2. The uniform character of the terrain made the selection of picture points difficult. An average performance of control identification in the field was accomplished and made available for this plot. Considerable confusion developed at the start of the procedure to transfer the identification to the compilation photography but, after several attempts at bridging by templet lay-down, a reasonably strong plot was achieved, and, at the same time, control identification was verified to tolerance.
DESCRIPTIONS - HYDROGRAPHIC STATIONS:

580  Higher point of rock extending from bluff.

371  Highest point on westermost of two rocks.

370  Rock braced stake at E end of dirt bluff, 4 M. above and 16 M. from M.H.W.L.

372  East end of small willow patch.

350  Highest point of small rock island.

351  
352  Highest point of rock reef just above M.H.W.

353  
28. **Detailing:**

Planimetry and contours were delineated on the Reading Plotter (No.1) using rectified metal-mounted negatives of the original photographs of the radial plot. Field inspection was not complete; it included some shoreline plus some offshore rocks and foul areas. The usability of the inspection was made difficult by its being made on field pictures of a date one year previous to the compilation pictures; shoreline details had altered somewhat and judgement had to be exercised in delineating the details included in the field inspection. After delineation the compiler has carefully checked the result against the field inspection, and the manuscript compilation is considered accurate within requirements and shall supersede all previous compilations.

29. **Supplemental Data:**

None. No hydrographic or graphic control surveys had been made in the area prior to this compilation.

32. **Details Offshore from HWL:**

Offshore details shown on the manuscript are a digestion of instrument delineation and incomplete field inspection. The compilation is the best available at this time, is considered quite complete, but should be compared and brought into agreement with inshore hydrography if and when made available.

35. **Hydrographic Control:**

Several natural features were photo-identified by field inspection for future use as hydrographic control. They were positioned during compilation and are symbolized on the manuscript as small black dots identified by numbers with leaders. To aid the hydrographer, a list of this control has been placed at the margin of the manuscript with descriptions and numbers, the descriptions having been taken from the backs of the field photographs on which the stations were identified. The number of the photograph on which each station is identified and described is available on page 41 of A.N. Stewart's 1948-Season Report for Project Ph-8(46). No hydrographic stations were selected and plotted in the compilation office.

37. **Topographic Stations:**

A total of 13 topo stations were established along the perimeter of Hagemeister Island and marked with standard disks. Three fall within the limits of this
quadrangle, AGED, TREE, and GAWK. None were located by triangulation; they were positioned during the radial plot procedure and are shown on the manuscript by symbol and name. Station descriptions are listed on the margin of the manuscript for ready reference by field parties.

40. **Quality of Contours:**

All contours on this compilation conform to the national standards of map accuracy for a contour interval of 50 feet except the 25-foot contour which conforms to 25-foot interval accuracy requirements.

[Signature]
Louis J. Reed, Chief,
Stereoscopic Mapping Section
COMPILATION REPORT (Mainland Only) T-9241

This writing covers the compilation of the mainland portion of T-9241 which has been accomplished some two years after the Hagemeister Island portion was compiled, and it is to serve as a supplement to the original report to complete the compilation picture.

Information applying to this completion phase has been added to the data pages in ink. A Map Lay-Out page and a Preface page have been added.

With regard to the completion work itself, it is thoroughly covered in a separate report and will not be repeated here. Please be referenced to Descriptive Report to accompany T-9227 where Field Inspection Report, Radial Plot Report, and Compilation Report cover the area falling within this quad in conjunction with the areas of several other quads, including T-9227, which areas were completed as a unit.

Louis Reed
Leufs 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>
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Names underlined in red are approved 12-1-54.
L. Heck
### Hagemeister Island

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<td>R.P.</td>
<td>R.P.</td>
<td>R.P.</td>
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<td>Pe. 271</td>
<td>Pe. 271</td>
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<td>87.21.25</td>
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*Corrections for curvature & refraction: Cm" = 2216 [distance (meters)] / 10 - 6

---

* No check on these elevations.

---

* Computed:

---

9/149
## Computation of Elevations

### Hagemeister Island

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<th>15</th>
<th>Able 15</th>
<th>Estus 15</th>
<th>Able 15</th>
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<td>PK 164</td>
<td>PK 164</td>
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<td>Top</td>
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<td>Z, ft (vertical)</td>
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<td>(ft)</td>
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### Elevations

- PK. D
- PK. 165

**Correction for Curvature & Refraction C" = 0.016**

*Elev. 1, 9 (ft) 1396, 1.9 62.1 1396, 1.9 172 2.3*
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<th>Estus</th>
<th>Tongue Pt.</th>
<th>Tongue Pt. Island</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Object Sighted</strong></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>N.pt. of Ret. on N. End.</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>2.5 (Form 29)</td>
<td>81.40-44</td>
<td>88.29-12</td>
<td>90.02-25</td>
</tr>
<tr>
<td><strong>Cat. 2. X</strong></td>
<td>0.0360</td>
<td>0.26418</td>
<td>0.0007827</td>
</tr>
<tr>
<td><strong>Dist. A (1.2) m</strong></td>
<td>22.343</td>
<td>8.616</td>
<td>20.216</td>
</tr>
<tr>
<td><strong>A x Cat. (m)</strong></td>
<td>125.2</td>
<td>227.6</td>
<td>144.2</td>
</tr>
<tr>
<td><strong>X. 3.2808^1</strong></td>
<td>410.8</td>
<td>714.7</td>
<td>-46.6</td>
</tr>
<tr>
<td><strong>Correction (ft.)</strong></td>
<td>110.6</td>
<td>16.4</td>
<td>+9.0</td>
</tr>
<tr>
<td><strong>(°, 0) Form 29 (m)</strong></td>
<td>155</td>
<td>155</td>
<td>156</td>
</tr>
<tr>
<td><strong>(ft.)</strong></td>
<td>50.0</td>
<td>4.9</td>
<td>+5.1</td>
</tr>
<tr>
<td><strong>(ft.)</strong></td>
<td>59.0</td>
<td>13.0</td>
<td>+18.0</td>
</tr>
<tr>
<td>Elev. Stat. (ft)</td>
<td>781.0</td>
<td>57.0</td>
<td>1520.4</td>
</tr>
<tr>
<td><strong>(°, 0) Elev. (G.P. 1st)</strong></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Estus</td>
<td>133.5</td>
<td>180.5</td>
<td>80.0</td>
</tr>
<tr>
<td>Island</td>
<td>172.5</td>
<td>238.0</td>
<td>78.0</td>
</tr>
<tr>
<td>Tongue Pt.</td>
<td>150.4</td>
<td>39.1</td>
<td>13.0</td>
</tr>
<tr>
<td>Hagemeister</td>
<td>461.2</td>
<td>1518.0</td>
<td></td>
</tr>
<tr>
<td>Calm Pt.</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Peak B</td>
<td>253.7</td>
<td>8320'</td>
<td></td>
</tr>
<tr>
<td><strong>D</strong></td>
<td>536 m/179'</td>
<td>(179')</td>
<td></td>
</tr>
<tr>
<td><strong>E</strong></td>
<td>472 m/549'</td>
<td>(165')</td>
<td></td>
</tr>
</tbody>
</table>

^1 X. 3.2808 = 1 X. 3.2808
Review Report T-9241
Topographic Map
December 1, 1952

62. Comparison with Registered Topographic Surveys.— None

63. Comparison with Maps of Other Agencies.—


There are no significant differences between the above map and T-9241.

64. Comparison with Contemporary Hydrographic Surveys.— None

65. Comparison with Nautical Charts.— None

66. Adequacy of Results and Future Surveys.— Further field
    edit is not considered necessary prior to hydrographic surveys
    in the area. This map complies with the National Standards
    of Map Accuracy.

67. Contour Interval.— The contour interval for Hagemeister Island
    is 100 feet with 50-foot supplementary contours. The 25-foot
    contour has been drawn throughout these maps.

Reviewed by:

B. J. Colmer

APPROVED

La Lande 11/23/54
Chief, Review Branch
Div. of Photogrammetry

Edmondson
Chief, Nautical Chart Branch
Division of Charts et al.

Swanson
Chief, Div. of Photogrammetry

Earl O. Weston
Chief, Div. of Coastal Surveys
HORIZONTAL DATUM ADJUSTMENT

Bristol Bay, Alaska

The subject maps were radial plotted on unadjusted (Field) datum which was subsequently adjusted to the North American 1927 datum by the Division of Geodesy. The datum correction has been computed for each sheet, and stamped into the Descriptive Report on page 1, and on the manuscripts and registered cloth-backed copies near the title block. However, as the title block of each clothback sheet contains the note, "1927 North American Datum", it was necessary to stamp the word, "(Unadjusted)" beside this datum note in the title block of each sheet.

See the special report, Horizontal Control Datum, Ph-8(46), Ph-8A(46), and Ph-8B(46), filed with the Completion Report for the project for details and lists of the maps, reports, and registration copies marked with this adjustment. The following is a list of the maps in the projects:

Ph-8(46), TOPOGRAPHIC
T-9038 thru T-9040
9041 " 9047
9051 " 9057
9064, 9065, 9070
9071, 9074, 9075
9227 thru 9253

Ph-8A(46), PLANIMETRIC
T-9041 thru T-9043
9048 " 9053
9058 " 9063
9066 " 9069
9072, 9073
9076, 9078

Ph-8B(46), SHORELINE
T-8873 (E&W) and T-8874