

9241

Original

Diag. Cht 8803

Form 504

U. S. COAST AND GEODETIC SURVEY

DEPARTMENT OF COMMERCE

DESCRIPTIVE REPORT

Type of Survey Topographic

Field No. _____ Office No. T-9241

LOCALITY

State Alaska

General locality Bristol Bay Area

Locality HAGLEISTER ISLAND

1948

CHIEF OF PARTY

A. W. Stewart, Chief of ~~Field~~ Party
Div. of Photogrammetry, Wash. D.C.

LIBRARY & ARCHIVES

DATE DEC 17 1954

9-1870-1 (1)

24 Aug 47 - 1 Sep 48

1726

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,
Stereoscopic Mapping Section

Instructions dated (II) (III):
25 April 1947, 21 April 1948
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): 8-4-49 Date reported to Nautical Chart Branch (IV): 8-8-48
1 May 51

Applied to Chart No. Date: Date registered (IV): 11/24/53
1 May 51

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): STRAIT, 1948 ~~Unadjusted~~ The difference between ~~Unadjusted~~ Datum
and N.A. 1927 Datum is Lat. plus/minus 11.6 m.

Lat.: Long.: and Long. ~~minus~~ 5.3 m. ~~Adjusted~~ ~~Unadjusted~~

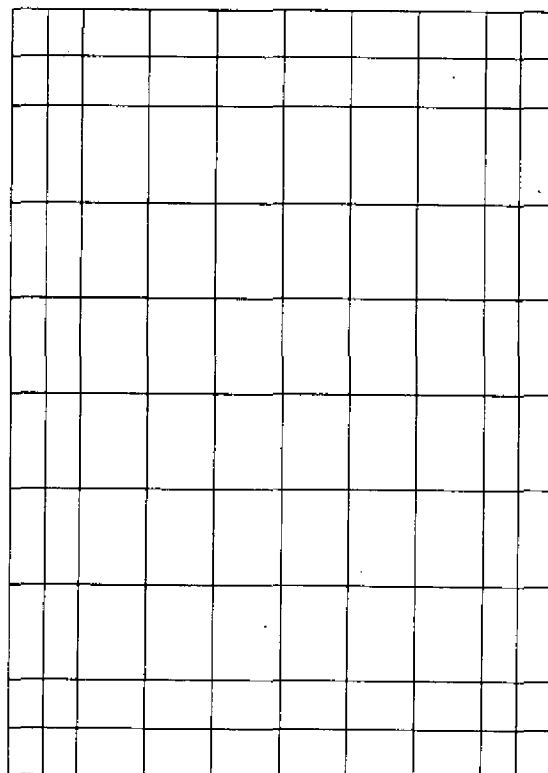
Plane Coordinates (IV): WAC 2500-meter State: Alaska Zone: Special
Not used in compilation procedure.

Y= X=

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)

(II) (III)

(Hagermeister Island)
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~~ ^{identified} by 1948 field inspection; balance ~~delineated~~ ^{identified} 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 Plotter Stationing

Control extension by (III): Roscoe J. French

Date: 11 April 1949

Reading Plotter "A"

Planimetry

Date:

Stereoscopic Instrument compilation (III):

Orvis N. Dalbey

Date: 20 April 1949

Contours and

William D. Harris

12 Apr 51

Manuscript delineated by (III):

Robert L. Sugden (Galden)

Date: 15 May 1949

John B. McDonald

24 Apr 51

Photogrammetric Office Review by (III):

Louis J. Reed

Date: 30 Apr 51

Elevations on Manuscript checked by (II) (III):

Louis J. Reed

Date: 25 July 49

Camera (kind or source) (III): USC&GS 9-lens

PHOTOGRAPHS (III)

Number 23192, 3, 4A 5B and 5C
(Island)
Date 1 Sept. 1948
Time 12:00 to 12:35
Scale 1:20,000

Stage of Tide

~~0.0 MSL~~
~~4.4 MLLW~~
~~1.7~~

1 ft below MHW

20466-9
(Mainland)

24 Aug 47

Clack
not
functioning

20,000

Tide (III)

Diurnal

* See Remarks

Reference Station: Nushagak Bay ~~(1500W)~~
Subordinate Station: ~~Hogemeister~~
Subordinate Station: Black Rock, Walrus Islands

Ratio of Ranges	Mean Range	Spring Range
	15.2	19.5
	5.4	9.0
	6'	10'

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

Date: 12/1/52

Final Drafting by (IV):

M J Day

Date: 7/13/53

Drafting verified for reproduction by (IV):

W H Hallin

Date: 7-21-53

Proof Edit by (IV):

Date:

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 (III): three
Number of Temporary Photo Hydro Stations established (III): seven

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

* See reverse side of Page.

Tide Predictions, Alaska

Bristol Bay

*

Reference station Nushagak 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

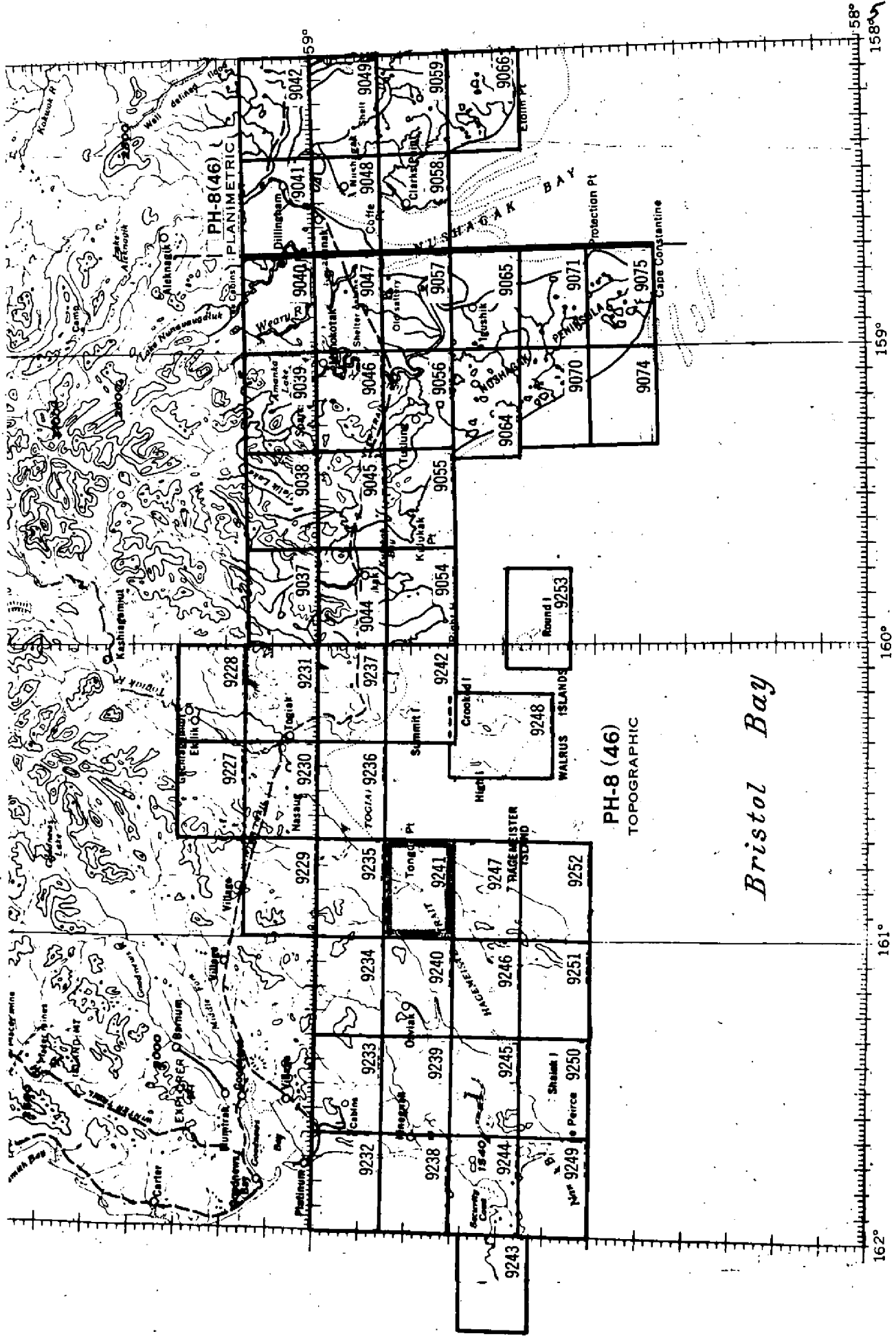
Heights of low waters multiply by ratio 0.90

Subtract 7.2 ft. to refer heights to MSL

* Since receiving the above tide information
it was found more practical to determine
the stage of tide from a station Black Rock
in the Walrus Island group. *ff*

TOPOGRAPHIC MAPPING PROJECT PH-8 (46)

ALASKA, Vicinity of Bristol Bay



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, $7\frac{1}{2}$ -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 Inspection 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. Bounding 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 Osviak 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-8(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 ~~separate~~ separate pages.

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 westernmost 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 in-shore 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.

See opposite
page for
numbers and
descriptions.

37. Topographic Stations:

A total of 13 topo stations were established along the perimeter of Hagemeister Island and marked with standard disks. ~~Three~~ Four fall within the limits of this

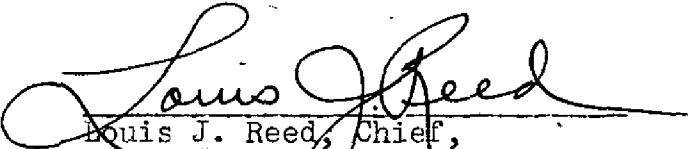
11

John

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.

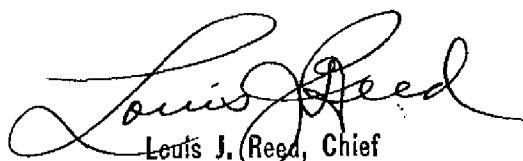

Louis J. Reed, Chief,
Stereoscopic Mapping Section

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 Hagemelster 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 J. Reed, Chief
Stereoscopic Mapping Section
Photogrammetric Engineer

GEOGRAPHIC NAMES

Survey No. T-9241

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	I '13
<u>Alaska</u>									1
<u>Bristol Bay</u>									2
<u>Hagemeister Island</u>									3
<u>Hagemeister Strait</u>									4
<u>Togiak Bay</u>									5
<u>Tongue Point</u>									6
<u>Matogak River</u>									7
<u>Rocky Point</u>									8
									9
									10
									11
									12
									13
									14
									15
									16
									17
									18
									19
									20
									21
									22
									23
									24
									25
									26
									27
									M 234

Names underlined
in red are approved
12-1-52
L. Heck

COMPUTATION OF ELEVATIONS HAGEMEISTER ISLAND

Sta. occ. #1	15	Able, ss	Estus	15	Able, ss	Able, ss	Estus	15	
Sta. obs. #2	RP	RP	RP	RP	RP	RP	RP	RP	RP
	PK. 163	PK. 163	PK. 164	PK. 164	PK. 164	PK. 165	PK. D	PK. D	RP
Object sighted	Top	Highest pt. of prom. outcrop on S. slope	Top	Top	Top	Top	Top	Top	
Z, (Form 29)	89-07-58	88-56-11	88-51-32	88-46-54	88-28-00	88-41-32	88-59-21	88-59-33	
Cot Z, X	.015142	.018615	.019919	.021268	.026768	.022830	.017645	.017587	
Dist. A (1-2) m.	22862	19680	24350	23236	19244	19424	23546	23901	
Δxcot (m.)	346.17	366.3	485.02	494.2	515.1	443.44	415.47	420.35	
X 3.2808'	1135.7	1201.7	1591.2	1621.4	1689.9	1454.8	1363.0	1379.0	
*Correction "C" ft.	115.8	85.6	131.1	119.7	82.0	83.5	122.4	126.5	
ht-o) Form 29 (m)	1.44	1.43	1.55	1.44	1.43	1.43	1.55	1.44	
(ft.)	4.7	4.7	5.1	4.7	4.7	4.7	5.1	4.7	
Elev. of occ. sta. #1	10.9	-	18.0	10.9	-	-	18.0	10.9	
(ft.)	36.0	5.0	59.0	36.0	5.0	5.0	59.0	36.0	
Elev. Sta. #2 (ft.)	129.2.2	1297.0	1786.4	1781.8	1781.6	1548.0	1549.5	1546.2	
	4.8'	✓	4.6	0.2	✓	1.5	3.3	✓	
ELEV.	1294'	✓	1783'	✓	✓	1548'	✓	✓	
9L Plotter elev. (Form 3) (ft.)									
Sta. occ. #1	Estus	15	Able, ss	15	Able, ss	15	Able, ss	15	Able, ss
Sta. obs. #2	PK. 166	PK. 166	PK. 166	PK. 167	PK. 167	PK. 168	PK. 168	PK. 169	PK. 169
Object sighted	Top	Top	Top	Top	Top	Top	Top	Top	Top
Z, (Form 29)	89-02-30	89-07-51	88-50-00	89-18-46	89-01-50	89-15-46	88-57-22	89-13-29	88-54-31
Cot Z, X	.016728	.015172	.020365	.011996	.017922	.012868	.018021	.013532	.019050
Dist. A (1-2) m.	22276	24548	19480	23990	18522	23948	18296	25164	19330
Δxcot (m.)	372.63	372.44	396.71	287.78	331.95	348.2	329.71	340.5	368.23
X 3.2808 ft.	1222.5	1221.9	1301.5	944.1	1089.0	1011.1	1081.7	1117.1	1208.1
Correction "C" (ft.)	109.9	133.0	84.0	127.6	75.8	127.0	74.2	140.3	82.6
ht-o) Form 29 (m)	1.55	1.44	1.43	1.44	1.43	1.44	1.43	1.44	1.43
(ft.)	5.1	4.7	4.7	4.7	4.7	4.7	4.7	4.7	4.7
Elev. occ. sta. #1 (m)	18.0	10.9	-	10.9	-	10.9	-	10.9	-
(ft.)	59.0	36.0	5.0	36.0	5.0	36.0	5.0	36.0	5.0
Elev. Sta. #2 (ft.)	1396.5	1395.6	1395.2	1112.4	1174.5	1178.8	1165.6	1288.1	1300.4
	0.9'	0.4'	✓	62.1	XX	13.2'	✓	2.3	✓
ELEV.	1396'	✓	✓	✓	✓	1172'	✓	1299'	✓
9L Plotter elev.									

PK. D is PK. 165

* Correction for Curvature & Refraction "C" = .2216 [scaled distance (meters)]² (10⁻⁶)

Computed:

R/JF
4/89

HAGEMEISTER ISLAND

Sta. occ. #1	15	Able, ss	15	Able, ss	Estus	15	Able, ss	Estus
Sta. observ. #2	R.P. PK. 170	R.P. PK. 170	R.P. PK. 171	R.P. PK. 171	R.P. PK. 171	R.P. PK. 172	R.P. PK. 172	R.P. PK. 172
Object sighted	Top	Top	High pt. of End, N. end	"	"	Top	Top	Top
Z, X (Form 29)	89-06-02	88-41-09	89-24-06	89-13-27	88-56-57	89-46-07	89-36-30	89-26-02
Cot Z, X	.015700	.022941	.008989	.013542	.018343	.004039	.006836	.009887
Dist. A (1-2) m.	22,558	16,540	28,500	21,350	15,650	30,138	22,900	16,050
A x cot (m.)	354.2	379.44	256.2	289.12	287.1	121.7	156.59	158.7
X 3.2808	1,162.0	1,244.8	840.5	948.5	941.9	399.2	513.6	520.6
*Corr. "C" (ft.)	112.8	60.3	180.0	100.7	54.1	201.2	116.2	57.1
(ft.) Form 29 (m)	1.44	1.43	1.44	1.43	1.55	1.44	1.43	1.55
(ft.)	4.7	4.7	4.7	4.7	5.1	4.7	4.7	5.1
Elev. occ. sta. #1 (m) 10.9	-	10.9	-	18.0	18.0	-	18.0	18.0
(ft.)	36.0	5.0	36.0	5.0	59.0	36.0	5.0	59.0
Elev. Sta. #2 (ft.)	1315.5	1314.8	1061.2	1050.9	1060.1	641.1	639.5	641.8
ELEV.	0.7'	2.3'	1.2'	1.2'	1.6'	2.3'		
	1315'		1060'		641'			

9 L Plotter elev.

Sta. occ. #1	15	Estus	Able, ss	15	Estus	Able, ss	15	Estus	Able, ss
Sta. observ. #2	R.P. PK. 173	R.P. PK. 173	R.P. PK. 173	R.P. PK. B	R.P. PK. B	R.P. PK. B	R.P. PK. 175	R.P. PK. 175	R.P. PK. 175
Object sighted	Highest pt.	Highest pt.	Highest pt.	Highest pt.	Highest pt.	Highest pt.	Highest pt.	"	"
Z, X (Form 29)	89-13-23	88-29-00	88-47-24	88-46-46	87-58-21	88-09-47	88-55-34	88-24-13	88-24-08
Cot Z, X	.013562	.026477	.021122	.0219059	.035401	.032072	.018245	.027870	.027894
Dist. A (1-2) m.	24,030	13204	16964	22844	14164	16028	22748	15694	16246
A x cot (m.)	3259	349.6	358.31	486.7	501.4	514.05	426.41	437.39	453.16
X 3.2808 (ft.)	1069.2	1146.9	1175.5	1596.7	1645.0	1686.9	1398.9	1434.9	1486.7
*Corr. "C" (ft.)	127.9	38.6	63.6	125.6	44.0	56.7	114.7	54.6	58.5
(ft.) Form 29 (m)	1.44	1.55	1.43	1.44	1.55	1.43	1.44	1.55	1.43
(ft.)	4.7	5.1	4.7	4.7	5.1	4.7	4.7	5.1	4.7
Elev. occ. sta. #1 (m) 10.9	18.0	-	10.9	18.0	-	10.9	18.0	-	-
(ft.)	36.0	59.0	5.0	36.0	59.0	5.0	36.0	59.0	5.0
Elev. Sta. #2 (ft.)	1237.8	1249.6	1248.8	1753.1	1753.0	1752.8	1554.3	1553.6	1554.9
ELEV.	1245'	1249'		1753'			1554'		

9 L Plotter elev.

PK. B is PK. 174

* Correction for Curvature & Refraction "C" = .2216 [distance (meters)]² X 10⁻⁶Computed:
RIF
4/19

HAGEMEISTER ISLAND

Sta. occ. #1 Estus Tongue Pt. Tongue Pt. Island

Sta. obs. #2	Island	Island	Estus	Hagemeister
Object sighted	N. pt. of knob on N. end.	"	A	A
Z, X (Form 29)	89-40-44	88-29-12	90-02-25	89-44-44
Cot Z, X	.005604	.026418	.0007029	.016078
Dist. A (1-2) m.	22,343	8,616	20,216	13,130
A X cot (m.)	125.2	227.6	14.21	211.1
X 3.2808'	410.8	746.7	- 46.6	692.6
Correc. "C" (ft.)	110.6	16.4	+90.4	38.2
't-o' Form 29 (m)	1.55	1.50	1.46	1.72
(ft.)	5.0	4.9	(+ 5.1)	5.6
Elev. occ. Sta. #1 (m)	180	3.9	3.9	239.0
(ft.)	59.0	13.0	+ 13.0	784.0
Elev. Sta. #2 (H)	585.4	781.0	57.0	1520.4
throw X	3' lower	2.2' lower	7' higher	
out	than GPs.	than GPs.	than GPs.	
(t-o)	Elev. (GP list)			
	m	'	m	'
Estus	1.55	5.1	18.0	59.0
15	1.44	4.7	18.9	36.0
Island	1.72	5.6	239.0	784.0
Tongue Pt.	1.50	4.9	3.9	13.0
Hagemeister			461.2	1513.0
Calm Pt.			253.7	832.0
Peak B			536 m.	1759' (174)
" D *			472 m.	1549' (165)
" E *			493 m.	1571

Review Report T-9241
Topographic Map
December 1, 1952

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.

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.

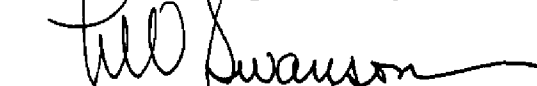
67. Contour Interval.- The contour interval for Hagemeister Island
is 100 feet with 50-foot supplementary contours. The 25-foot
contour has been drawn throughout these maps.


Reviewed by:



B. J. Colner

APPROVED

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


Chief, Div. of Photogrammetry


Chief, Nautical Chart Branch
Division of Charts


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
9044 " 9047
9054 " 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