

8829

Diag. Cht. No.s. 8502-3 & 8859

Form 504

U. S. COAST AND GEODETIC SURVEY

DEPARTMENT OF COMMERCE

DESCRIPTIVE REPORT

Type of Survey TOPOGRAPHIC

Field No. _____ Office No. T-8829

LOCALITY

State ALASKA

General locality ALASKA PENINSULA

Locality COOL POINT TO IVANOF BAY

1948

CHIEF OF PARTY

L.S. Hubbard & H.E. Finnegan, Chief of Party
T.B. Reed, Baltimore Photogrammetric Office

LIBRARY & ARCHIVES

DATE May 19, 1948 & February 1, 1954

8829

DATA RECORD

T-3829

Quadrangle (II):

Project No. (II): CS-319

Field Office:
Seattle, WashingtonChief of Party: H. E. Finnegan (1945)
L. S. Hubbard (1946)Compilation Office:
Baltimore, Md.

Chief of Party: Thos. B. Reed

Instructions dated (II III):

Copy filed in Descriptive

22 Feb. 1944 (Supp.), 27 Feb. 1945,
22 March 1945, 1 April 1946 (Field Supp.1),
21 February 1947

Report No. T- (VI)

Completed survey received in office:

Reported to Nautical Chart Section:

Reviewed: 5 Oct. 1950

Applied to chart No.

Date:

Redrafting Completed:

May 7, 1951

Registered: 20 Nov. 1953
Division of Photogrammetry:
Review Branch

Published:

Compilation Scale: 1:20,000

Published Scale:

Scale Factor (III): 1.000

Geographic Datum (III): N.A. 1927 Datum Plane (III):

Reference Station (III): HJMPBACK, 1945 Vol. 5, PG. 99

Lat.: 55° 51' 39.723" (1228.6) Long.: 159° 22' 58.610" (1019.5) Adjusted
Unadjusted

State Plane Coordinates (VI):

X =

Y =

Military Grid Zone (VI)

PHOTOGRAPHS (III)

Number	Date	Time	Scale	Stage of Tide
06229 to 06230 incl.	8-7-41	1322	1:20,000	6.1' above MLLW
06243 to 06247 "	8-7-41	1340	1:20,000	6.2' above MLLW
06264 to 06265 "	8-7-41	1416	1:20,000	6.1' above MLLW
06266	8-7-41	1418	1:20,000	6.1' above MLLW

H.W. 1:14 = 7.4'
L.W. 14:52 = 1.1'

Rectified prints were also furnished except for 06229 and 06230

Predicted Tide Tables-Pacific & Indian Oceans, 1941
Tide from (III): Reference Station KODIAK, Alaska with correction to
Pirate Cove, Popof Id.

Mean Range: 5.4'

Spring Range: 7.4'
Diurnal

Camera: (Kind or source) U.S.Coast and Geodetic Survey nine lens camera-
focal length 8 $\frac{1}{4}$ ".

Field Inspection by: H.E. Finnegan
L.S.Hubbard

date: Mar.-Sept.1945
May-Sept. 1946

Field Edit by: _____

date:

Date of Mean High-Water Line Location (III):

Same as date of photographs, supplemented by field inspection in
1945 and 1946

Projection and Grids ruled by (III) T.L.Janson

date: 5-06-47

" " " checked by: T.L.Janson

date: 5-06-47

Control plotted by: F.M.Senasack

date: 5-13-47

Control checked by: F.J.Tarcza

date: 5-16-47

Radial Plot by: Frank J.Tarcza
Leroy A. Senasack

date: June 1947

Instrument Compilation (9-lens plotter) W.D.Harris

Sept 1947

Detailed by: E.G.Baldwin
Leroy A. Senasack

date: 12-09-47 to 1-15-48
3-24-48 to 4-01-48
4-08-48 to 4-14-48

Reviewed in compilation office by: J.W.Vonasek

date: 4-20-48 to 4-23-48

manuscript
Elevations on ~~Field Edit~~ Sheet
checked by: J.W.Vonasek

date: 4-22-48

STATISTICS (III)

Land Area (Sq. Statute Miles): 76

Shoreline (More than 200 meters to opposite shore): 32 statute miles

Shoreline (Less than 200 meters to opposite shore): 9 statute miles

Number of Recoverable Topographic Stations established: 0

Number of ^{photo hydro}~~Temporary Hydrographic~~ Stations located by radial
plot: 69

Leveling (to control contours) - miles:

Roman numerals indicate whether the item is to be entered
by, (II) Field Party, (III) Compilation Party, or, (VI) the
Washington Office.

When entering names of personnel on this record give the
surname and initials (not initials only).

Remarks:

Summary to Accompany T-8829

Topographic map T-8829 is one of 24 similar maps in project CS-319, Alaska Peninsula. It covers the area from Coal Point to Alexander Point around Humpback Bay. The map area lies in latitude 55° 47' to 58', longitude 159° 15' to 29'.

Field inspection covered shoreline and offshore data. Unmarked supplementary control was established for use in drawing contours by the Reading plotter at the Washington Office, and for shore and offshore graphic compilation at the Baltimore Photogrammetric Office.

Data pertaining to T-8829 is filed as follows:

- A. Division of Photogrammetry General Files
 - 1. Acetate manuscript
 - 2. Field inspection photographs
 - 3. Photostatic copy of Descriptive Report
 - 4. Twenty-eight pricking cards
- B. Bureau Archives
 - 1. Registered original descriptive report
 - 2. A cloth-backed lithographic print of the reviewed map manuscript at compilation scale.
- C. Library and Archives
 - 1. Season's Report, 1945, H. E. Finnegan
 - a) Field Inspection (No. 106)
 - b) Triangulation (No. 100)
 - 2. Season's Report, May-Sept. 1946, L. S. Hubbard, Stepovak, Ivanof, and Kamishak Bays. Triangulation; reconnaissance, hydrography, numerous photographs, pencil sketches, progress maps.

Iena T. Stevens
October 1950

FIELD REPORT

SURVEY NO. T - 8829

1. DESCRIPTION OF THE AREA:

T-8829 is one of twenty-two (22) topographic surveys in Project No. CS-319 located on the Alaska Peninsula. The instructions for this project are dated:

- 29 February 1944 (supplemental)
- 27 February 1945
- 22 March 1945
- 1 April 1946 (Field Supplement No. 1)
- 24 February 1947

This survey includes the area from Ivanof Bay to a long sand beach just east of Coal Point, including Egg Island.

Coal Point is irregular, has rock cliff shoreline and a high sharp ridge extending inshore. A reef extends off its southeast point, and is marked by kelp at its outer end. There are two needle shaped pinnacles on the steep slope of the cliff at the southwest point of the cape.

The southeast entrance to Humpback Bay lies between Coal Point and Egg Island. The latter has vertical cliffs on its eastern side, and a steep grass covered slope on its western side, from the middle of which a low, curving sand spit extends well offshore.

On the east side of Humpback Bay there is a lone grass-topped pinnacle rock, and at the head of the bay a long steep-to sandy beach. A river enters the bay at the eastern end of this beach.

Northwest of Egg Island there is another short stretch of sand beach, inshore from which is a low saddle leading to Ivanof Bay. About one mile north of Point Alexander there is a prominent jutting rocky point, heavily covered with grass and alder; and lying just off the end of this jutting point there is a large pinnacle rock. Point Alexander, which is sheer and rocky, marks the end of the high cape bordering on the east side of the entrance to Ivanof Bay.

For further information concerning this area refer to Season's Report, 1945, Project No. CS-319, submitted by H. E. Finnegan and Season's Report, 1946, Project No. CS-319, submitted by L. S. Hubbard.

COMPILATION REPORT

MAP MANUSCRIPT - SURVEY NO. T-8829

26. CONTROL:

See radial plot report for layout of control in this area. A list of stations on Form No. M-2388-12 is included in this report. (i.e. radial plot)

The stations are listed, but not on form M-2388-12

27. RADIAL PLOT

Refer to the report for the combined radial plot covering the areas of Surveys Nos. T-8826, T-8828 and T-8829, submitted to the Washington Office 26 September 1947.

Filed in Div. of Photogrammetry, General Files with Completion Report in Bureau Archives.

28. DELINEATION

The compilation is in accordance with the written instructions pertaining to Project No. CS-319.

Photographic coverage was adequate for delineation of the shoreline. See Side Heading 39.

30. MEAN HIGH WATER LINE

Very little field inspection of the mean high water line was submitted for Survey No. T-8829.

The mean high water line not identified by the field party was delineated after stereoscopic examination of the photographs.

31. MEAN LOW WATER LINE

Only that portion of the mean low water line identified by the field party at the head of Ivanof Bay was delineated.

32. DETAILS OFFSHORE FROM THE MEAN HIGH WATER LINE

Details offshore from the mean high water line have been delineated in accordance with the field data.

33. WHARVES AND SHORELINE STRUCTURES

None shown

34. LANDMARKS AND AIDS TO NAVIGATION

None

35. HYDROGRAPHIC CONTROL

Sixty-nine (69) photo hydro stations were located. A list of descriptions is attached to this report. Two copies have been furnished for use of the hydrographic party.

36. LANDING FIELDS AND AERONAUTICAL AIDS:

None.

37. GEOGRAPHIC NAMES 484

Geographic names were taken from U.S.C. & G.S. Chart No. 8859. A list of names is attached to this report.

38. JUNCTIONS

Junctions with T-8829 to the east and T-8831 to the west have been made and are in agreement. Junction with T-8830 to the south is all water area.

There are no contemporary surveys to the north.

39. DIVISION OF WORK

The radial plot and shoreline compilation was completed in the Baltimore Field Office and the contours were compiled in the Washington Office on the Reading Plotter.

Due to insufficient photo coverage in the northern part of the sheet and around Alexander Point, the contours on this manuscript have not been completed. *See 67 Review Report*

40. QUALITY OF CONTOURS

All contours on this manuscript conform to the National Standards of Accuracy for a contour interval of 200 feet, except the 100 foot contour above sea level which conforms to the National Standards of Accuracy for a contour interval of 100 feet.

44. COMPARISON WITH EXISTING TOPOGRAPHIC QUADRANGLES:

None available.

45. COMPARISON WITH NAUTICAL CHARTS

Minute comparison with the United States Coast and Geodetic Survey Chart No. 8859, scale 1:300,000, published at Washington, D. C., March 1943, reissued July 1945, could not be made because of the great difference in scale.

45. COMPARISON WITH NAUTICAL CHARTS (Continued)

The following topographic information shown on T-8829 is of sufficient importance to warrant immediate application to the chart:

None.

The following topographic details above the plane of mean high water are not shown on this manuscript, but are believed to still exist and should be carried forward on the chart:

None.

Low water features are shown in part and will be completed by the hydrographic party.

Respectfully submitted
14 April 1948

Leroy A. Senasack
Engineering Aid (Photo.)
Compilation and Descriptive
Report

Joseph W. Conrath
Photogrammetric Office Reviewer

Approved and forwarded
28 April 1948

Harry D. Rudolph
Supervisor

Thos. B. Baird
Officer in Charge
Baltimore Photogrammetric Office

DESCRIPTION OF PHOTO HYDRO STATION

FOR

SURVEY NO. T-8829

Signal No.	Description of Signal Site	Photo. No.
2901	Mouth of stream at brush line.	06266 Humphrey Bay
2902	Center of sharp "V" in grass line	"
2902A	Point where small stream cuts through sand ridge marked by drift logs.	"
2903	South tip of growth of alders on N. side of small stream	"
2904	Lone alder bush nearest end of cut bank	"
2905	South tip of red colored ledge	"
2906	Grass covered high end on light colored projecting ledge. Elev. 40'	"
2907	Base of projecting yellow ledge.	"
2908	Pointed offlying rock. Elev. 10'	"
2909	Largest rounded boulder and farthest south of group, elev. 9'.	"
2910	Rock, elev. 5'.	"
2911	Red colored narrow ledge.	"
2912	Reddish narrow ledge	"
2913	One of several Indian hovels. The one nearest the beach.	"
2914	End of black sloping ledge.	06244
2915	High point on highest of three rocks. Elev. 20'.	"
2916	Detached rock. Elev. 5'.	"
2917	Highest of group of rocks. Elev. 5'.	"
2918	End of ledge. Elev. 6'.	"
2919	Detached rock. Elev. 18'	"
2920	Largest of group of boulders.	"
2921	Large boulder at base of bluff.	"
2922	Slender pinnacle at base of vertical bluff.	"
2923	Sharp end of rock bluff.	"
2924	House	"
2925	End of ledge at HWL	"
2926	Detached rock bares 4' MHW.	"
2927	Outer high point on reef 12'	"
2928	Detached rock 8'	"
2929	Small pinnacle at base of bluff on east side of narrow slide	06267
2930	Large boulder at base and on west edge of slide	"
2931	High point on black rock 8'.	"
2932	Loose boulder lying on top of reef.	"
2933	Toe of vertical bluff at north end of narrow gravel beach	"
2934	Toe of vertical bluff	"
2935	Upper top left of prominent bare gray rock scar (harp shaped)	06242 ←
2936	Highest of the two points on hay stack shaped rock	06242
2937	Detached rock. Elev. 5'.	06266 Eps Id 06266

Signal No.	Description of Signal Site	Photo. No.
2938	Seaward end of long rock. Elev. 6'.	06266 E ₁₃ 1 ^f
2939	High point on large detached rock, elev. 28'. 2 ³	"
2940	Large grass topped rock on boulder beach, Elev. 12'.	"
2941	End of rock ledge.	"
2942	Detached rock. Elev. 6'.	"
2943	Detached rock. Elev. 6'.	"
2944	Large rock outside LWL. Elev. 5'.	"
2944A	End of vertical ledge near end of boulder beach (Rejected)	"
2945	Pinnacle shaped rock on beach with wide crevic in center height 10'.	"
2946	Grass topped pinnacle. Elev. 22'.	"
2947	Large boulder at end of sand beach	"
2948	Grass topped pinnacle. Elev. 24'.	"
2949	Grass topped attached pinnacle. Elev. 22'.	"
2950	Western gable of largest house.	"
2951	End of easterly of two ledges.	"
2952	Middle of face of rock ledge.	"
2953	End of narrow ledge over very black rock.	"
2954	Highest large rock on water edge.	"
2955	Most off-shore rock on point 400 meters northwest of PINNACLE No. 2, 1946. Rock is about 6' above MHWL and is about 5 m in diameter.	06262
2956	Large round boulder with gable-shaped top. Rock is about 8 m in diameter and about 20' high.	"
2957	Square-appearing rock about 6' square, height about 5' above MHWL.	"
2957A	Oblong shaped rock, largest and highest of small group. Rock is about 6' by 10' at water's edge and about 15' high.	"
2958	On a point about 50 M north of largest waterfall in vicinity. Rock is not the highest part of the point, but the most northwesterly part of the point. Rock is about 10' high above MHWL, and has a large vertical face on the seaward side. Face is about 15' long and about 8' high.	"
2959	Oblong shaped rock about 20' long and 10' wide at water's edge. off-shore Rock is about 20' high, and is grass topped. Highest part is about 5' in from the northeasterly edge.	06264
2960	Rock about 20' diameter, and about 25' high. Rock is grass topped, the highest part is about 4' in from the northerly side.	"
2961	Rock on beach at about MHWL. Rock is about 12' in diameter and about 12' high.	06264
2962	Round rock about 15' in diameter and about 15' high. Rock has a small amount of grass on top. Highest part is in the center.	"
2963	Highest of group of small rocks on point. Rock is about 4' in diameter at water level and about 6' high. Highest part is in the center and has a small amount of grass.	"

Signal No.	Description of Signal Site	Photo. No.
2964	Most northerly of two grey rocks. Rock is the smaller but the highest of the two, and has a sharp point on top. It is about 6' high, and about 4' in diameter at water's edge.	06248
2965	Largest rock in small bight; has two faces on seaward side. Rock is at MHWL and has a small amount of moss on top. It is about 20' high and about 20' square.	
2966	Long narrow grey colored rock about 9' high.	"
2967	Largest boulder in vicinity, the one on the seaward side of two large ones, about 9' high and about 12' square.	"

Listed by: Leroy A. Janasack
Engineering Aid (Photogrammetric)

Checked by Joseph W. Bonasack
Photogrammetric Engineer

GEOGRAPHIC NAMES

Alaska Peninsula. (for title)

Alexander Point.

Coal Point.

Egg Island.

Humpback Bay.

Ivanof Bay.

Names underlined in red
are approved. 10-5-50.
L. Heck

Review Report T-8829
Topographic Map
5 October 1950

- 62. Comparison with Registered Topographic Surveys.-None
- 63. Comparison with Maps of Other Agencies.-None
- 64. Comparison with Contemporary Hydrographic Surveys.-None
- 65. Comparison with Nautical Charts.-

8859 1:300,000 ed. Mar. 1943, Rev. Nov. 1949

Charted offshore detail not appearing on T-8829:

- 1. Sunken rocks
 - a) 1 rock south of Coal Point
 - b) 1 rock south of and 1 rock west of Egg Island.
 - 2. Rock awash
 - a) Northeastern corner of Ivanof Bay.
- Datum: See 66 below.

66. Control.-The triangulation work done in 1945 (H. E. Finnegan) and 1946 (L. S. Hubbard) used MHW as a datum, and the elevations recorded on chart 8859 were referred to MHW.

During review, the elevations of all interior stations on T-8829 were referred to MSL by the addition of the half-tide figure (3 feet) to the given elevations.

The off-shore stations retain the MHW datum.

The pricking of stations RON, SYM, BACK, and IVA was checked and new radial cuts drawn on the manuscript. In each case the rays fell through or tangent to the plotted positions. The new positions were retained; and the circles on the manuscript labeled "for vertical control only" were removed.

- 67. Delineation.- Contours

Alexander Point.- It was not feasible to draw form lines to supplement the incomplete contours. Cuts were made to strengthen the drainage pattern in order to indicate the topography in a general way.

Vicinity of Triangulation Station SCAR.- The stream pattern was cut in and the stereoscope used to interpret the topography. Form lines were added.

Reviewed by:

Lena T. Stevens
Lena T. Stevens

APPROVED

S. V. Griffith
Chief, Review Section *B*
Div. of Photogrammetry

W. E. McManister
Chief, Nautical Chart Branch
Division of Charts *Gfj*

O. S. Reading
Chief, Div. of Photogrammetry

pub

Carl O. Henton
Chief, Div. of Coastal Surveys
HR 7

NOTES
FOR
HYDROGRAPHIC PARTIES
ALASKA PENINSULA

MAP MANUSCRIPT - SURVEY NO. T-8829

PROJECT NO. CS-319

The 2 $\frac{1}{2}$ millimeter circles, accompanied with a number, are the positions of the photo hydro stations. Two copies of the list of descriptions of the photo hydro stations have been furnished for your use.

Minute comparison with the United States Coast and Geodetic Survey Chart No. 8859, scale 1:300,000, published at Washington, D. C., March 1943, reissued July 1945, could^{not} be made because of the great difference in scale.

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Respectfully submitted
14 April 1948

Teroy A. Senasack
Engineering Aid (Photo.)

Approved and forwarded
28 April 1948

Thos. A. Baird

Officer in Charge
Baltimore Photogrammetric Office

NAUTICAL CHARTS BRANCH

SURVEY NO. T-8829

Record of Application to Charts

[illegible]

M-2168-1

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.