

11325

Diag. Cht. N. 8863-2.

Form 504

U. S. COAST AND GEODETIC SURVEY
DEPARTMENT OF COMMERCE

DESCRIPTIVE REPORT

Type of Survey Topographic

Field No. Ph-34(48) Office No. T-11325

LOCALITY

State Alaska

General locality Andreanof Islands

Locality Adak Island - Bay of Island

1953-54

CHIEF OF PARTY

S.B.Grenell, Chief of Field Party

L.W.Swanson, Div. of Photo. Wash.D.C.

LIBRARY & ARCHIVES

DATE September 15, 1958

8-1870-1 (1)

11325

ch 9120 - Examined - not applied - JTW 12/1/59

ch 9121 - ~~Partly~~ Applied - DJR 8-8-67

ch 9121 - Considered Fully Appl'd DJR 9-13-75

16467 - Appl'd Joseph Robinson 12/30/92

DATA RECORD

Field Inspection by (II): Shoreline inspection by H. G. Conerly C. W. Clark J. D. Walker	Date: 1954 season SURVEYOR
Planetable contouring by (II): ---	Date:
Completion Surveys by (II): ---	Date:
Mean High Water Location (III) (State date and method of location): Field inspection - south part of Bay of Islands 1954 Season and date of photography	Sept. 25, 1953
Projection and Grids ruled by (IV): A. Riley	Date: 10-18-54
Projection and Grids checked by (IV): A. Riley	Date: 10-19-54
Control plotted by (III): J. P. Battley, Jr.	Date: 12-12-54
Control checked by (III): R. J. French	Date: 12-12-54
Radial Plot - Stereoscopic Control points by (III): Roscoe J. French	Date: 12-15-54
Planimetry	Date:
Stereoscopic Instrument compilation (III): C. Misfeldt	Date: 4-27-56
Contours	Date:
Manuscript delineated by (III): Shoreline - S. G. Blankenbaker	Date: 12-20-55
Photogrammetric Office Review by (III): Shoreline - R. J. French Contours & Planimetry - L. Levin	Date: 12-22-54 5-9-56
Elevations on Manuscript checked by (II) (III): ---	Date:

Camera (kind or source) (III): 9-Lens C&GS

Number	Date	PHOTOGRAPHS (III)		
		Time	Scale	Stage of Tide
42099	9-25-53	1:00	1:20,000	MHW
42100	"	1:01	"	"
42083	"	12:33	"	"
42084	"	12:34	"	"
42153	"	2:32	"	.2' above MHW
42154	"	2:33	"	"

Tide (III)

Reference Station: Sweeper Cove, Adak I, Alaska
 Subordinate Station: Bay of Islands, Adak Island
 Subordinate Station:

Diurnal		
Ratio of Ranges	Mean Range	Spring Range
.9	-	3.7
-	-	3.3

Washington Office Review by (IV): J.J. Streifler

Date: 8/15/56

Final Drafting by (IV): C. Chettle

Date: 4-4-58

Drafting verified for reproduction by (IV): W.O. Hallum

Date: 5-14-58

Proof Edit by (IV):

Date:

Land Area (Sq. Statute Miles) (III): 46

Shoreline (More than 200 meters to opposite shore) (III): 56

Shoreline (Less than 200 meters to opposite shore) (III):

Control Leveling - Miles (II): -

Number of Triangulation Stations searched for (II): 12 Recovered: 12 Identified: 3

Number of BMs searched for (II): Recovered: Identified:

Number of Recoverable Photo Stations established (III): 3

Number of Temporary Photo Hydro Stations established (III): 2*

Remarks: *The 1:10,000 T-11565 gives a better position for the two photo-hydros Via and Box, and supersedes the position here shown.

COMPILATION REPORT
T-11325

The field inspection and radial plot reports are filed with T-11324.

31. DELINEATION:

The shoreline, foreshore and offshore features, and photo hydros were located by graphic methods. The area covered by T-11565 was detailed at 1:10,000 scale from 1954 "W" camera photography, using graphic methods to compile all shoreline, foreshore, and offshore features. The manuscript was reduced photographically and was then transferred to the 1:20,000 manuscript.

The shoreline immediately south of Shagak Bay was compiled from the 1:20,000 photography by the work sheet method to about latitude 51°51', and since the position of North Island is weak on T-11565, that shoreline was compiled from the 1:20,000 photographs. Likewise, the head of North Arm was detailed from the 1:20,000 photographs since T-11565 did not extend to it.

All features indicated in red ink on the shoreline manuscript were transferred from the planetable survey EX-B-54 and are not in conflict with the 1:20,000 work.

The contours and drainage were delineated on the Reading Nine Lens plotter directly onto a reversed black line impression of the shoreline manuscript.

Minor corrections were made to the graphically-delineated shoreline during instrument compilation. These corrections were delineated in red ink.

No interior field inspection was available; consequently, all cultural features were delineated by photo interpretation. Roads were classified by photo interpretation as follows: Those that appeared to be graded and/or paved were delineated as double, full line; all others as double dashed line. All buildings which were visible on the photos were delineated.

32. CONTROL:

The 1:10,000 radial plot was assembled by using a combination of field-identified horizontal control, planetable positions of temporary photo hydros, and common tie pass points from the 1:20,000 radial plot. See photogrammetric plot report for the 1:10,000 sheet filed with T-11565 and plot report for the 1:20,000 work filed with T-11324. Horizontal control is adequate and all stations held within a satisfactory tolerance.

The vertical control was adequate.

33. SUPPLEMENTAL DATA:

EX-B-54	1:10,000	unregistered planetable survey
T-11565	1:10,000	single lens "W" camera photos (1954)

The application of T-11565 is described in Item 31.
11th A.F. photos - Adak Island 1:26,000, 7/27/43

34. CONTOURS AND DRAINAGE:

Some difficulty, due to dense shadows, was encountered in delineating contours and drainage. These difficulties were resolved with the use of the photos mentioned in Item 33.

35. SHORELINE AND ALONGSHORE DETAILS:

Field inspection was available for a portion of the sheet, but the delineation of the MHWL and adjacent foreshore and offshore features are the result of office interpretation beyond a point near Ina Island eastward through Gannet Cove and westward around Expedition Harbor to the western limits of the sheet which is the subject of discussion in Item 35 of T-11565 compilation report. Office interpretation is always subject to field verification, particularly offlying rocks which have been delineated by stereoscopic investigation only.

36. OFFSHORE DETAILS:

Stereoscopic analysis has supplemented the field inspection mentioned in 36 of T-11565, and all features shown in red are taken from planetable survey EX-B-54. No conflicts are apparent, but there is no real check or verification of many of the rocks taken from the planetable survey due to the stage of the tide at the time of photography.

37. LANDMARKS AND AIDS:

None.

38. CONTROL FOR FUTURE SURVEYS:

Computed positions are available from field observations for the following temporary hydro stations which are white-washes and are not recoverable except for JET, 1954; Nip, Col, Log, Hem, Jet, Mut, Wet and Mil. No 524 cards were submitted by the field party.

The following photo hydros were located by the plot and fall in the North Arm of Three Arm Bay Fag, Gus, Hut, Jar, and Ill. Stations Via and Box were scaled from EX-A-54. See radial plot report.

39. JUNCTIONS:

Junction was made with T-11324 to the west, T-11322 to the north, T-11326 to the east and T-11330 to the south.

40. HORIZONTAL AND VERTICAL ACCURACY:

The horizontal accuracy is good since this is considered a rigid plot as described in the photogrammetric plot report filed with T-11324. No deficiencies exist as such, and the sheet meets the standards of accuracy.

41 thru 45. Inapplicable.

46. COMPARISON WITH EXISTING MAPS:

Adak Island, sheets Nos. 1, 3 and 4; Corps. of Engineers, 1943

47. COMPARISON WITH NAUTICAL CHARTS:

9120	1:12,000	52-9/29
9121	1:20,000	52-8/25
9193	1:120,000	53-7/20

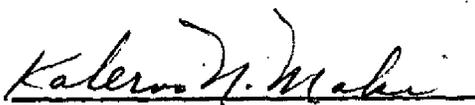
48. GEOGRAPHIC NAMES LIST:

See separate page attached.

49. NOTES FOR THE HYDROGRAPHER:

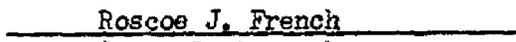
See separate page attached.

Approved by:

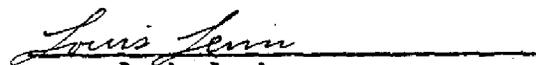

Kalervo N. Maki
Supv. Photo. Engineer

Respectfully submitted:

(Shoreline and photo hydros)


Roscoe J. French
Supv. Cartographer

(Interior and contours)


Louis Levin
Supervisory Cartographer

49. NOTES FOR THE HYDROGRAPHER

A 1:10,000 radial plot was assembled using 1954 single-lens photography in the Bay of Islands. A number of photo hydros were introduced in the plot as a check on position of the planetable work. About one station per mile was chosen and the positions are on T-11565. However, they were not transferred to the 1:20,000 manuscript (T-11325) since the hydrography was done at 1:10,000.

The following hydro stations which were located by field methods and for which a computed position is available are shown on the manuscript. No 524 cards are available to this office:

NIP	LOG.	*JET	WET	
COL	HEM	MUT	MIL	*d.m.

No reason can be found why the planetable position and the radial plot position for MUT on T-11565 do not agree with the computed position as shown here. There appears to be a disagreement of 10 m. in latitude in an area where the plot held rigidly to field-inspected control.

The following photo hydros were field inspected and were located in the 1:20,000 plot. (north Arm Bay)

FAG	JAR
GUS	ILL
HUT	

Stations VIA and BOX were chosen at random and scaled from the 1:10,000 planetable sheet as possible control for the 1:20,000 plot, but station VIA would not hold by a tolerance of 0.4 mm. in a NE direction. This may be due to improper identification on the 1:20,000 photographs since the plot is considered strong in the area.

A discrepancy exists between the naming of topographic stations Jet, 1954 and Hem which is a n.m.n.d. station. The manuscript shows the station names as are indicated on the planetable survey EX-B-54 which is contrary to the GP's furnished from field computations. No Form 524 is available to this office for Jet, 1954.

Respectfully submitted:

Roscoe J. French
Supervisory Cartographer

GEOGRAPHIC NAMES

Survey No. T-11325

Adak Island

Name on Survey

	A	B	C	D	E	F	G	H	K	
	On Chart No.	On previous survey No.	On U. S. quadrangle Maps	From local information	On local Maps	P. O. Guide or Map	Rand McNally Atlas	U. S. Light List		
Bay of Islands				Fox Pt.						1
North Island				Range Pt.						2
North Rocks				Cliff Pt.						3
Dora Island				North Arm						4
Argonne Island				North Island Anchorage						5
Staten Island				Large Rock						6
Ringgold Island				Adak Strait						7
Ina Island				Bering Sea						8
Expedition Harbor				Mt. Reed						9
Hall Gate				Adak Island						10
Trapper's Cove				Old Island						11
South Island				Duck Island						12
Unalga Bight				Lake Constant						13
Sea Parrot Island				Fox Point						14
Channel Islands				Gannet Cove						15
Cormorant Island				Recreation River						16
Green Island				Mt. Vincennes						17
Eaglet Rocks										18
Kelp Pt.										19
Vincennes Pt.										20
White Falls										21
Beverley Cove										22
Black Island										23
Beverley Pt.										24
Fisherman Cove										25
South Spit										26
Shagak Bay										27

Review Report
Topographic Map T-11325
15 August 1956

62. Comparison with Registered Topographic Surveys:

T-4142	rec.	1:20,000	1925
T-6941		1:40,000	1933

There are no noticeable differences between these surveys. T-11325 is more sufficiently detailed and is to supersede the above surveys for nautical charting purposes for common areas.

63. Comparison with Maps of Other Agencies:

Adak Island (Sheets 1, 3 and 4 of 10) AMS 1:25,000 1943

Differences exist in shoreline, foreshore, cultural and topographic features. There is also a difference in datum - Local Datum and NA 1927 Datum.

64. Comparison with Contemporary Hydrographic Surveys:

H-6881	(U.S.N.)	1:40,000	1933
H-6883		1:10,000	1933
H-8147		1:10,000	1954

Shoreline Surveys T-11564 and T-11565 (1:10,000) were accomplished to furnish shoreline and alongshore details for Hydrographic Survey H-8147 and Topographic Surveys T-11324 and T-11325. Minor discrepancies were resolved and all surveys are in good agreement.

65. Comparison with Nautical Charts:

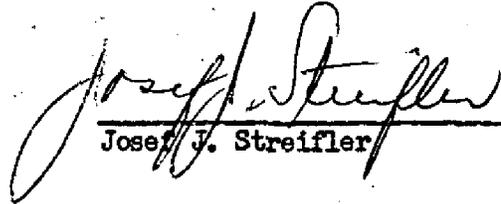
9120	1:12,000	(with Insets of 1:6000), corrected to 55-4/18
9121	1:20,000	" " 52-8/25
9193	1:120,000	" " 52-1/28 54-7/5

Minor differences exist between these charts and T-11325 for shoreline and interior features.

66. Adequacy of Results and Future Surveys:

Field inspection did not include an inspection of roads, buildings and other interior features (see heading 31 - Compilation Report). Not all offshore features were completely inspected and these are subject to minor error in office interpretation. Other than these, no deficiencies in accuracy and adequacy were indicated.

Reviewed by:

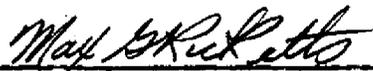


Josef J. Streifler

APPROVED:



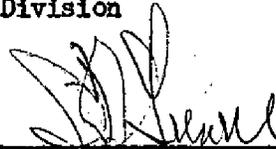
Chief, Review and Drafting Section
Photogrammetry Division



Chief, Nautical Chart Branch
Charts Division



Chief, Photogrammetry Division



Chief, Coastal Surveys Division

11 Aug 1958 

Summary to Accompany Topographic Map T-11325

This is one of Project 6034 (Ph-34). It covers Expedition Harbor and approaches on the western shore of Adak Island (Andreanof Islands) of the Aleutian Islands.

Shoreline Surveys T-11364 and T-11365, at scale of 1:10,000, were graphically compiled from 1954 "W"-camera photography to provide shoreline and alongshore details for Hydrographic Survey H-8147 (1:10,000).

These Shoreline Surveys were reduced photographically and processed onto the 1:20,000 manuscript of T-11325. Interior detailing--contours, drainage, roads and buildings--were delineated on the Reading Nine-Lens Plotter by photo-interpretation only, since no interior field inspection was available.

After addition of hydrographic information, the map will be published by the Army Map Service as a standard topographic quadrangle at the scale of 1:25,000.

A ~~cloth-backed, lithographic~~^{CROUSE} print at manuscript scale and the descriptive report, as well as a cloth-backed, printed quadrangle in colors after final printing by AMS, will be registered and filed in the Bureau Archives.

History of Hydrographic Information for T-11325

Hydrography was added to the map manuscript in accordance with AMS Technical Instructions.

Depth-curves and soundings are in fathoms at mean low water and originate with the following:

H-8147, 1:10,000, 1954 H-6883, 1:10,000, 1933
and H-6881 (USN), 1:40,000, 1933

Hydrography was compiled by J. J. Streifler and verified by O. Svendsen in August 1956.

J. J. Streifler