

11329

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-11329

LOCALITY

State Alaska

General locality Andreanof Islands

Locality Three Arm Bay, Adak Island

1953-55

CHIEF OF PARTY

S.B.GRENELL, Chief of Field Party

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

LIBRARY & ARCHIVES

DATE May 15, 1958

8-1870-1 (1)

11329

9121 - Partly App'd DIR 8-4-67

16467 - App'd Joseph Peterson 12/30/92

DATA RECORD

T - 11329

Project No. (II): 7-6034 Quadrangle Name (IV): Three Arm Bay, Adak
(Ph-34 (48))

Field Office (II): Ship EXPLORER Chief of Party: S. B. Grenell

Photogrammetric Office (III): Officer-in-Charge: L. W. Swanson
Washington, D. C.

Instructions dated (II) (III): Copy filed in Division of
Supplemental Instructions dated 19 March 1952 Photogrammetry (IV)
20 Feb. 1953 Office Files
23 Dec. 1953 731-mkl
Compilation Instructions dated 10 Nov. 1954
31 Oct. 1955

Method of Compilation (III): Interior and Contours - READING PLOTTER
Shoreline - GRAPHIC

Manuscript Scale (III): 1:20,000 Stereoscopic Plotting Instrument Scale (III): 1:20,000

Scale Factor (III): 1.0

Date received in Washington Office (IV): Date reported to Nautical Chart Branch (IV):

Applied to Chart No. Date: Date registered (IV): 5 Dec 1957

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

Geographic Datum (III): NA 1927 Vertical Datum (III):
Mean sea level except as follows:
Elevations shown as (25) refer to mean high water
Elevations shown as (g) refer to sounding datum
i.e., mean low water or mean lower low water

Reference Station (III): ZEP (USN) 1933

Lat.: 51-39-58.388 Long.: 176-54-52.058 Adjusted
1804.5 (49.8) m. 1000.5 (152.6) m. Unadjusted

Plane Coordinates (IV): State: Zone:

Y= U.T.M. Grid - Zone 1 X=

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.

W. Heinbaugh

Areas contoured by various personnel
(Show name within area)
(II) (III)

DATA RECORD

Field Inspection by (II):

Shoreline inspection by H. G. Conorly
C. W. Clark
J. D. Walker

Planetable contouring by (II):

S. L. Hollis

Date: 1954 Season)
SURVEYOR)

Date: 1955 Season)
EXPLORER)

Completion Surveys by (II):

Date:

Mean High Water Location (III) (State date and method of location):

Field inspection - 1954 and 1955
Date of photography - Sept. 25, 1953

Projection and Grids ruled by (IV): Austin Riley

Date: 10-19-54

Projection and Grids checked by (IV): " "

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 of ~~X-Transverse~~ ~~Contour Extension~~

Control Extension by (III):

Roscoe J. French

Date: 12-15-54

Planimetry

Stereoscopic Instrument compilation (III):

W. Heinbaugh

Contours

Date: 3-10-55
Date:

Manuscript delineated by (III):

J. P. Battley, Jr. (shoreline)
W. Heinbaugh (Topography)

Date: 12-16-55
1-27-56

Photogrammetric Office Review by (III):

K. N. Maki (shoreline)
L. Levin (topography)

Date: 12-16-55
2-2-56

Elevations on Manuscript

checked by (II) (III):

Date:

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

Number	Date	Time	Scale	Stage of Tide
42150-152	9-25-53	2:26-7	1:20,000	.2' above MHW
42171-42174	"	2:52-5	"	.3' above MHW

Tide (III)

*Reference Station: Sweeper Cove, Adak I, Alaska
Subordinate Station: Kanaga Bay, Kanaga Island
Subordinate Station: *Bay of Waterfalls

Diurnal		
Ratio of Ranges	Mean Range	Spring Range
.9		3.7
1.1		3.9

Washington Office Review by (IV): Everett H. Ramey

Date: 23 March 1956

Final Drafting by (IV): M. Charity

Date: 7-30-56

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

Date: 9-5-56

Proof Edit by (IV):

Date:

Land Area (Sq. Statute Miles) (III): 26

Shoreline (More than 200 meters to opposite shore) (III): 40

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

Control Leveling - Miles (II): --

Number of Triangulation Stations searched for (II): **3

Recovered: 3 Identified: 1

Number of BMs searched for (II): --

Recovered: -- Identified: --

Number of Recoverable Photo Stations established (III): 5

Number of Temporary Photo Hydro Stations established (III): 18 plus 12 for 1955 field work

Remarks: *Sweeper Cove

Time
Difference
-1:40

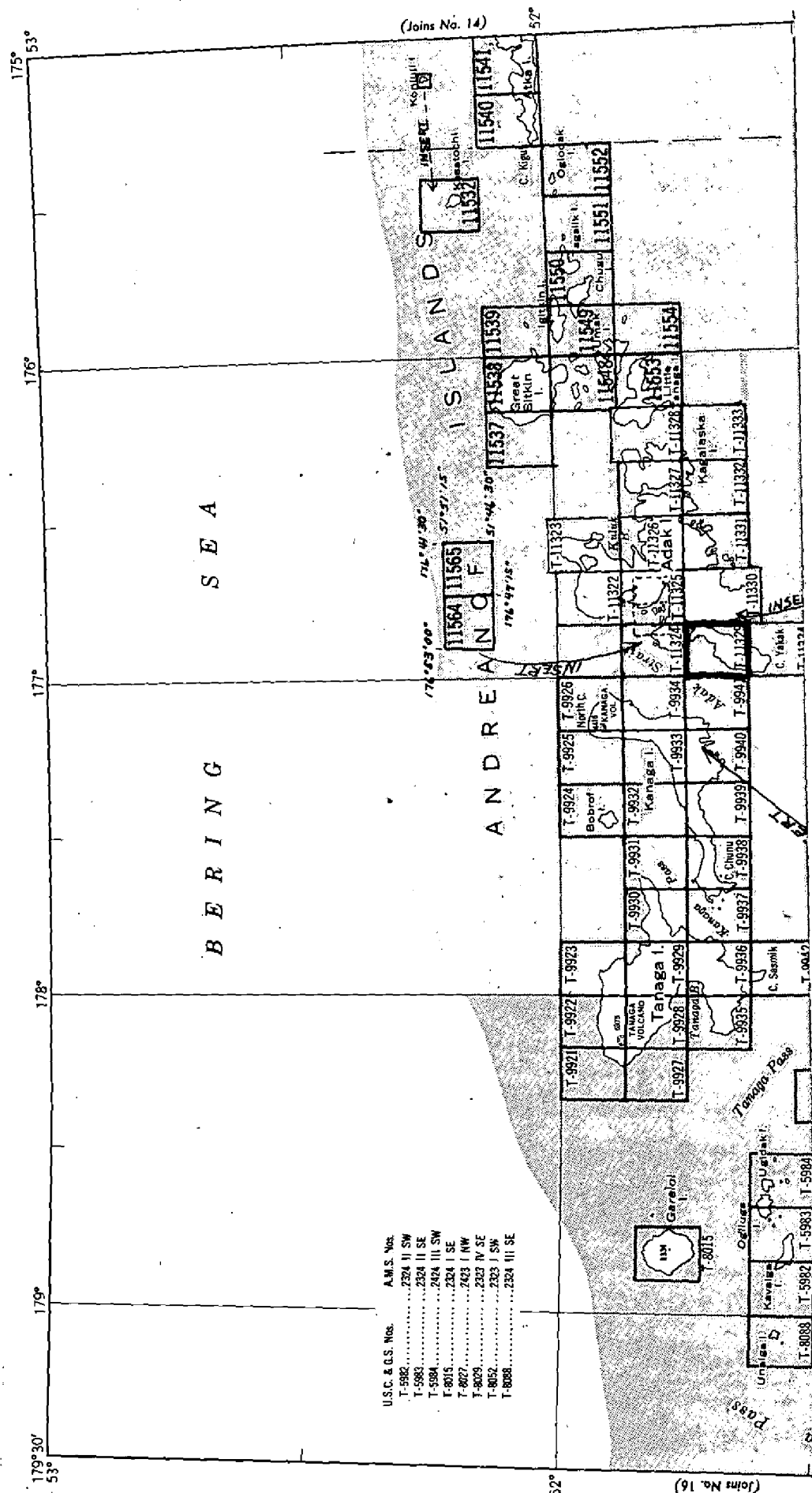
Ratio of
Ranges
0.95

Bay of Waterfalls

Tide data from Division of
Tides and Currents - Mr. Wilcox -
21 Nov 1955

**Refer to Photogrammetric Plot Report

Aleutian Islands **ALASKA** **Part B**



Summary to Accompany Topographic Map T-11329

Topographic map T-11329 was accomplished as part of Project 6034. It covers an area of the western part of Adak Island of the Aleutian Islands, including a part of the Bay of Waterfalls.

The western shoreline of this map was field inspected in 1954 and the eastern shoreline adjacent to the Bay of Waterfalls was field inspected in 1955. Contemporary hydrographic surveys were also executed for the area. Coast and Geodetic Survey nine-lens photographs taken in 1953 were used for both inspection and compilation. These were supplemented in some areas by Air Force single-lens photographs taken *June, 1943*. The field work included the inspection of alongshore areas and the identification and establishment of control.

The map was compiled at 1:20000 scale using nine-lens photographs. The graphic method was used for alongshore features and the Reading Nine-Lens Plotter for interior features and topography. The map was not field edited. After the addition of hydrography the map will be published by the Army Map Service as a standard 1:25000 scale quadrangle.

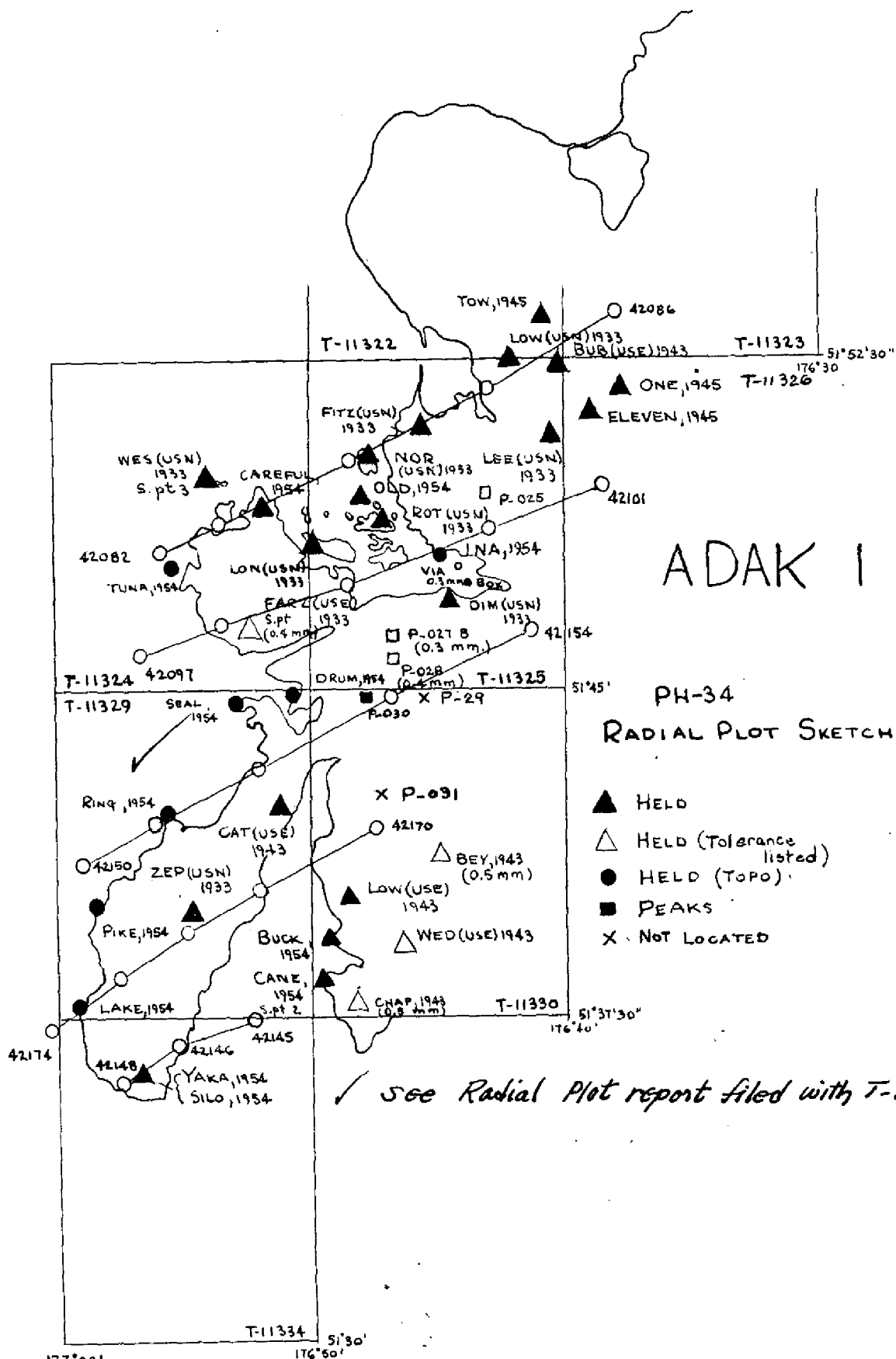
Items registered under T-11329 will include a cloth-back copy of the map manuscript and the descriptive report.

Field Inspection Report

The Field Inspection Report for the 1954 Season is filed as part of the Descriptive Report for T-11324 and covers the western part of T-11329. The Field Inspection Report for the 1955 Season is filed as part of the Descriptive Report for T-11322 and T-11323 and covers the eastern part of T-11329.

Photogrammetric Plot Report

This report covers T-11324, T-11325, T-11329,
T-11330 (Part) and T-11334, and is filed as part of
the Descriptive Report for T-11324.





MAP T.....	PROJECT NO.....	SCALE OF MAP.....	SCALE FACTOR.....
11329	PH-34	1:20,000	1.00

[illegible]

Compilation Report T-11329

31. DELINEATION:

Shoreline and foreshore features were delineated on the map manuscript by graphic methods. Field inspection was available for this survey.

A section of vinylite work sheet material was superimposed over the photograph having the most nearly true map scale and clarity of image detail and the shoreline was traced while being observed as a stereoscopic view. A prior nine-lens stereo instrument shoreline delineation of the west shoreline of the Bay of Waterfalls, done without field inspection, was available. Conflicts or discrepancies between the two shorelines were resolved satisfactorily.

The contours, drainage and interior planimetric detail were delineated on the Reading Nine-Lens plotters and added to the shoreline manuscript.

32. CONTROL:

Horizontal control was adequate.

No vertical control was established. All rectification and orientation of the stereo models was based on the adjusted elevation of the water surface.

33. SUPPLEMENTAL DATA:

No supplemental information from sources other than listed in Item 14 of the Field Inspection Report was used in this compilation.

34. CONTOURS AND DRAINAGE:

No unusual difficulty was encountered in delineating the contours and drainage.

35. SHORELINE AND ALONGSHORE DETAILS:

Shoreline inspection was generally adequate with the exception that shadow areas were not field delineated in every instance. Such areas were delineated by office inspection.

36. OFFSHORE DETAILS:

Offshore details such as rocks, reefs, and small islands were well covered by field inspection and no unusual problems were encountered concerning these features.

37. LANDMARKS AND AIDS:

None.

38. CONTROL FOR FUTURE SURVEYS:

Form 524, recoverable topographic station, has been submitted for the following five stations:

Lake, 1954
Pike, 1954
Ring, 1954
Seal, 1954
Drum, 1954

A list of photo-hydro stations occurring on this map has been included under Paragraph 49.

39. JUNCTIONS:

Junctions have been made with T-11334 to the south, T-11330 to the east and T-11324 to the north. The junction area to the west with T-9941 is in water area.

40. HORIZONTAL AND VERTICAL ACCURACY:

Refer to the photogrammetric plot report included in the Descriptive Report for T-11324.

46. COMPARISON WITH EXISTING MAPS:

T-11329 is a complete topographic map and supersedes all previous maps for nautical charting of the area covered. The following previous surveys cover the map area.

T-6941, 1:40,000, 1933 (Sheet No. 12)
T-6942 -- 1933 (H. O. No. 305610-154)
Adak, Alaska, USGS, 1:250,000 Reconnaissance map
Adak, Sheets Nos. 3 and 7, Corps of Engineers, 1:25,000 scale, 1943

47. COMPARISON WITH NAUTICAL CHARTS:

9193, 1:120,000, corrected to 7/5/54

This map is complete and adequate to supersede the land details on the above-listed nautical chart.

COMPARISON WITH NAUTICAL CHARTS (Continued):

Items to be applied to Nautical Charts immediately - None.

Items to be carried forward - None.

Approved:

Submitted:

Charles Theurer
C. Theurer
Acting Chief, Cartographic Branch

Louis Levin
Louis Levin
Supervisory Cartographer
Nine Lens Stereomapping Section

48. GEOGRAPHIC NAME LIST:

Adak Island.

Adak Strait'

Alaska'

Aleutian Islands.

Andreanof Islands'

Bay of Waterfalls.

Hook Point'

Lake Point.

Middle Arm.

Middle Rock.

South Arm.

Split Point'

The Three Sisters.

Wedge Point.

Three Arm Bay (see title) Names approved
5-7-56. L. Heck

49. NOTES FOR THE HYDROGRAPHER

Following is a list of the photo-hydro stations falling on T-11329:

Add	Ole	Gob
Bah	Poi	Orb
Cab	Sac	Rod
Del	Pip	Yet
Ego	Bab	Val
Edi	Axe	Tam
Fed	Bim	Eke
Goo	Cut	Pop
Gra	Fun	

PHOTOGRAMMETRIC OFFICE REVIEW

T-11329

1. Projection and grids X 2. Title X 3. Manuscript numbers X 4. Manuscript size X

CONTROL STATIONS

5. Horizontal control stations of third-order or higher accuracy X 6. Recoverable horizontal stations of less than third-order accuracy (topographic stations) X 7. Photo hydro stations X 8. Bench marks -
9. Plotting of sextant fixes - 10. Photogrammetric plot report X 11. Detail points X

ALONGSHORE AREAS

(Nautical Chart Data)

12. Shoreline X 13. Low-water line -- 14. Rocks, shoals, etc. X 15. Bridges -- 16. Aids to navigation -- 17. Landmarks -- 18. Other alongshore physical features X 19. Other along-shore cultural features X

PHYSICAL FEATURES

20. Water features X 21. Natural ground cover --- 22. Planetable contours --- 23. Stereoscopic instrument contours X 24. Contours in general X 25. Spot elevations X 26. Other physical features X

CULTURAL FEATURES

27. Roads X 28. Buildings -- 29. Railroads -- 30. Other cultural features X

BOUNDARIES

31. Boundary lines _____ 32. Public land lines _____

MISCELLANEOUS

33. Geographic names X 34. Junctions X SL 35. Legibility of the manuscript X 36. Discrepancy overlay 37. Descriptive Report X 38. Field inspection photographs X 39. Forms X 40.

Reviewer

Supervisor, Review Section or Unit

41. Remarks (see attached sheet) The radial plot, shoreline, and foreshore were done in Graphic Compilation Unit (W.O.) - RJF. Photo-hydros were checked in Stereo Section. West shoreline Bay of Waterfalls done in 1956. KNM.

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

K. N. Maki

Supervisor 1/56

L. Levin
2/2/56

43. Remarks: Need contours and interior planimetry - KNM 1/56

Review Report
Topographic Map T-11329
23 March 1956

62. Comparison with Registered Topographic Surveys:

T-6941, 1:40000, 1933 (USN)
T-6942 rec. (USN) 1933

For the area it encompasses T-11329 is to supersede these prior surveys for nautical charting purposes.

63. Comparison with Maps of Other Agencies:

Adak (No. 7 of 10) (AMS), 1:25000, 1943

A difference in datum of several hundred meters exists between these two maps. T-11329 shows alongshore features in much more detail than this AMS map.

64. Comparison with Contemporary Hydrographic Surveys:

Blue prints 51871, 51872, 51873, 52902, 52903 and 52904 (boat sheets for 1954 surveys)

No discrepancies exist with these surveys.

65. Comparison with Nautical Charts:

9193 1:120000 1953, corrected to 54 - 7/5

No significant discrepancies are evident.

66. Adequacy of Results and Future Surveys:

This map is adequate for Bureau requirements. Except as noted under Item 35, no significant deficiencies were detected.


Everett H. Ramsey

APPROVED BY:

L. C. Harde
Chief, Review and Drafting Section
Photogrammetry Division

Max B. Kettles
Chief, Nautical Chart Branch
Charts Division

Act. J. Bull
Chief, Photogrammetry Division

W. D. L. Wall
Chief, Coastal Surveys Division

History of Hydrographic Information for T-11329

Hydrography was added to the map manuscript in accordance with Army Map Service Technical Instruction 48 dated 5 May 1950.

Depths are in fathoms at mean lower low water datum and originate from the following sources:

Blue Prints 51871, 51872, 51873, 52902, 52903 and 52904
(boat sheets for Surveys of 1954);

Hydrographic Survey H-6882, 1:40000, 1933; and

Nautical Charts 9121 corrected to 52-8/25 and 9193 corrected to 54-7/5.

Hydrography was compiled by Lena T. Stevens on 16 February 1956 and verified by O. Svendsen on 5 March 1956.


Lena T. Stevens