11330 11331
11332 11333

Diag. Cht. No. 886322.

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-11330 T-11331 T-11332 T-11333

LOCALITY

State Alaska

General locality Andreanof Islands

Locality Adak and Kagalaska Islands

(South Coast)

194

CHIEF OF PARTY

S.B.Grenell, Chief of Party
L.W.Swanson, Div. of Photo.,Wash.,D.C.

LIBRARY & ARCHIVES

DATE September 15, 1958

B-1870-1 (1)

11331 11333

11330 11332

T-11331, 11332 & 11333 partly applied to Chart 9141 – to be considered final application until chart is reconstructed. 5/24/60 [illegible]

DATA RECORD

T - 11330, T-11331, T-11332, T-11333

Project No. (II): Ph-34

Quadrangle Name (IV):
T-11330 ADAK B-3 NE
T-11331 " B-2 NW
T-11332 " B-2 NE
T-11332 " B-1 NW

Field Office (II): Ship EXPLORER

Chief of Party: S. B. Grenell

Photogrammetric Office (III): Washington, D.C.

Officer-in-Charge: L. W. Swanson

Instructions dated (II) (III):
Field: 25 February 1954
16 December 1954
Office: 2 November 1954 - 732-mkl
31 October 1955 - 73-mkl
References (a) 10 November 1954 - 731-mkl; (b) 21 March 1955 - 731-mkl
(c) 8 Sept., 1955 - 73-mkl; (d) 25 October 1955 - 731-mkl

Copy filed in Division of Photogrammetry (IV)

Method of Compilation (III):
Shoreline and Offshore Features - Graphic methods
Contours and Drainage - Reading Nine-lens plotters

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): 6-10-58

Publication Scale (IV): 1:25,000

Publication date (IV):

Geographic Datum (III):
N.A. 1927

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): Ned (U.S.E.) 1943 - T-11331

Lat.: 51° 43' 38".645

Long.: 176° 35' 19".005

Adjusted
~~Unadjusted~~

Plane Coordinates (IV): UTM

State: Alaska

Zone: 1

Y=

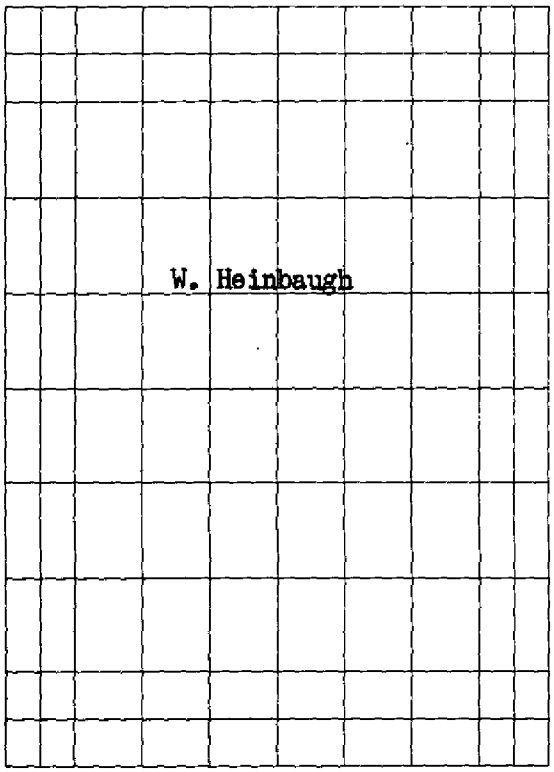
X=

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.

M-2618-12(4)

T-11330, T-11331, T-11332, T-11333



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

DATA RECORD

Field Inspection by (II): S. L. Hollis Date: 1955 Field season

Planetable contouring by (II): Date:

Completion Surveys by (II): Date:

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

Projection and Grids ruled by (IV): A. Riley Date: 10-27-54

Projection and Grids checked by (IV): T-11330 - H. Wolfe Date: 11-10-54
T-11331 - H. Wolfe 11-10-54

Control plotted by (III): T-11332 - Baltimore Office Date: --
T-11333 - H. Wolfe 11-10-54

J. Battley, W. R. Kachel, B. Hale and G. Walker, on 1-15-55, 1-20-55, 11-55 and 12-6-55, respectively.

Control checked by (III): M. Weber Date: 1-21-55
W. Kachel 1-24-55
D. Carrier 11-55
K. Maki 11-18-55

Radial Plot or Stereoscopic Control extension by (III): S. G. Blankenbaker Date: 11-18-55

Stereoscopic Instrument compilation (III): Planimetry W. Heinbaugh Date: 7-10-56
Contours Date:

Manuscript delineated by (III): Shoreline by G. Amburn, R.L. Sugden S. G. Blankenbaker, G. A. Walker, Jr. Topography - W. Heinbaugh Date: 12-16-55 to 1-3-56

Photogrammetric Office Review by (III): K. N. Maki (shoreline) Date: 1-3-56
L. Levin (topography) 8-10-56

Elevations on Manuscript checked by (II) (III): L. Levin Date: 8-10-56

M-2618-12(4)

Camera (kind or source) (III):

PHOTOGRAPHS (III)

Number	Date	Time	Scale	Stage of Tide
42132 through 42145	9-25-53	2:10 - 2:22	1:20,000	3.3 above MLLW
41904 " 41905	9-21-53	1:38 - 1:39	1:20,000	2.5 " "
42154 " 42170	9-25-53	2:33 - 2:51	1:20,000	3.4 " "

Tide (III)

Ratio of Ranges	Mean Range	Diurnal Range
1.0		3.7

Reference Station: Sweeper Cove, Adak, Alaska
Subordinate Station: *Use Sweeper Cove
Subordinate Station:

Washington Office Review by (IV): S. Blankenbaker, J. Streifler, L. Gazik — Date:

Final Drafting by (IV): J. Frazier ~~[illegible]~~ 11330; J. Daugherty T-11331 4-7-58; J. Daugherty T-11332 3-28-58; P. Dempsey T-11333 5-7-58 — Date: March 22, 1958

Drafting verified for reproduction by (IV): W.O. Hallin — Date: 6-10-58

Proof Edit by (IV): — Date:

Land Area (Sq. Statute Miles) (III):
Shoreline (More than 200 meters to opposite shore) (III):
Shoreline (Less than 200 meters to opposite shore) (III):
Control Leveling - Miles (II):
Number of Triangulation Stations searched for (II): ** Recovered: Identified:
Number of BMs searched for (II): Recovered: Identified:
Number of Recoverable Photo Stations established (III):
Number of Temporary Photo Hydro Stations established (III): T-11330, T-11331, T-11332, T-11333
66 132 42 9

Remarks: *Sweeper Cove

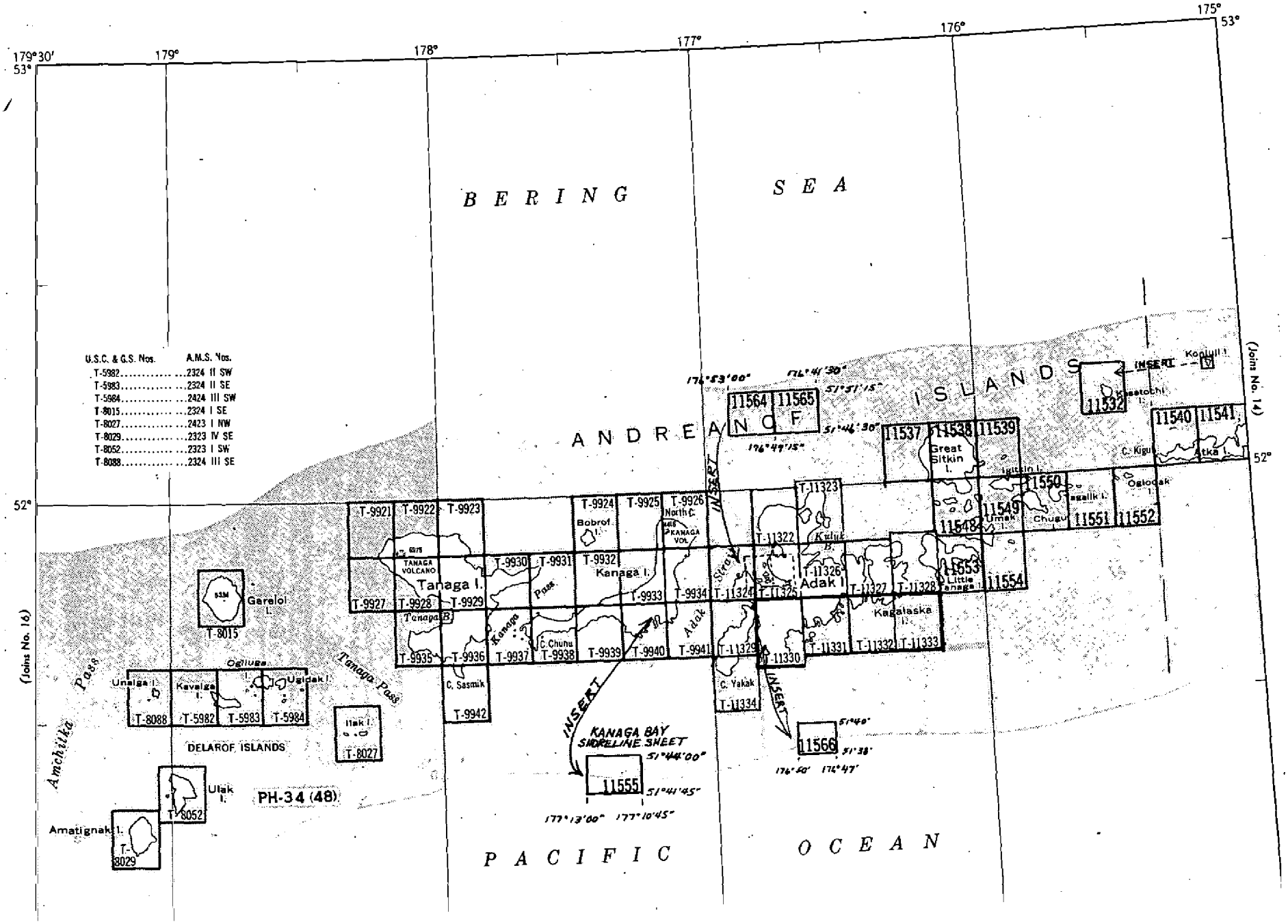
	Time Differences	Ratio of Ranges
Bay of Waterfalls	- 1:40 min.	0.95
Turret Pt. to Ragged Pt.	- 1:40 min.	1.0

(Tide data from Tides and Currents Division - Mr. Wilcox - 11-21-55)

**See Photogrammetric Plot Report

TOPOGRAPHIC MAPPING PROJECT ~~6654~~ 24050

Aleutian Islands ALASKA Part B



Summary to Accompany Topographic Map T-11330

This is one of Project 6034 (Ph-34). It covers the southern tip of Adak Island - east of Bay of Waterfalls (Andreanof Islands) of the Aleutian Islands.

Advance shoreline was furnished for Hydrographic Survey H-8238, 1:20,000. In addition, Shoreline Survey, T-11566, detailed with Kelsh Plotter at scale of 1:5,000 from "W" Camera single-lens photography of 1954 covering Chapel Cove and Chapel Road, was accomplished for large scale inset of Hydrographic Survey H-8238. Results of complete field inspection of 1955 of the 1:5,000 survey have been applied to all affected surveys.

Shoreline and foreshore features were compiled graphically and corrected after field inspection. All interior detailing, without benefit of field inspection, were delineated on the Reading nine-lens plotter.

After addition of hydrographic information the map will be published by the Army Map Service as a standard topographic quadrangle (that portion below 51° 37' 30" latitude will be published by AMS as a separate quadrangle) at the scale of 1:25,000.

A ~~cloth backed, lithographic~~ CRONAR print (of the entire compilation) at manuscript scale and the descriptive report, as well as a cloth-backed print of the two AMS quadrangles in colors after final printing, will be registered and filed in the Bureau Archives.

Summary for T-11331

T-11331 is one of a series of topographic maps at 1:20,000 scale in Project 24050 covering the ALEUTIAN ISLANDS. This topographic map covers a portion of the southern shore of ADAK ISLAND - CAMEL COVE and vicinity.

Project 24050 was previously designated 6034 and, prior to that, was originally numbered Ph-34(48). Depth curves and soundings were applied during final review and were checked by the Nautical Chart Branch. The map with this hydrographic information will be published by Army Map Service at 1:25,000 scale.

A ~~cloth backed lithographic~~ CRONAR print of the map at compilation scale without the hydrographic information will be registered in the Bureau Arvhives.

Summary to Accompany Topographic Survey T-11332

Topographic Survey T-11332 was accompalished as part of Project 6034. It covers parts of Adak and Kagalaska Island at the south end of Kagalaska Strait.

Field inspection was accomplished in the Kagalaska Strait area during the 1953 and 1955 field seasons. Small sections of shoreline at the south end of Kagalaska Strait were not field inspected by either of the two parties.

No field edit was accomplished.

With the addition of Hydrography the map will be published by the Army Map Service as a standard topographic quadrangle.

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

Summary to Accompany Topographic Map T-11333

T-11333 is one of Project 6034 (Ph-34). It covers the southeastern tip of Kagalaska Island (Andreanof Islands) of the Aleutian Islands.

Shoreline and offshore detailing were compiled graphically and furnished for Hydrographic Surveys H-8239 and H-8240, 1:20,000. Results of field inspection have been applied. All interior detailing, without benefit of field inspection, were delineated on the Reading Nine-lens Plotter.

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

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

FIELD INSPECTION REPORT

for

T-11322, 23, 27, 28, 29, 30, 31, 32, 33, 34, T-11537-38,
T-11548, 49, 53, 54, T-11566

2. Areal field inspection

(a) These maps cover most of Adak Island, all of Kagalaska I. Little Tanaga I. and Great Sitkin I. which are among the islands known as the Andreanof Group. Adak I. is the largest of these islands and the most important in the Andreanof Group. Its importance is based on the fact that it is the site of Davis Air Force Base, and the U. S. Naval Station, Adak, Alaska. The island is approximately 20 miles wide and 25 miles long. Its most prominent features are Mt. Moffett at the northwest end, Mt. Adagdak on the northeast tip, and Cape Yakak, a large flat plateau at its south west corner. The island is very mountainous and lakes of all sizes abound. The shoreline is markedly cut up into numerous bays and small islands.

Landings on Adak Island can be made without too much difficulty under normal sea conditions with the exception of that stretch of beach north of Cape Kiguga to Cape Moffett, where landing is difficult under any but calmest sea conditions.

There are scattered groups of buildings (mostly quonset huts), built by the Navy throughout Adak Island. Outlying areas where buildings were noted were: the north end of Shagak Bay, the heads of Boot Bay and Hidden Bay, at Cape Kiguga, at station CLAM(USN), 1934 and at Cape Yakak, which had been a fairly large establishment. All the buildings in these areas were apparently abandoned and in a state of disrepair.

Kagalaska I. and Little Tanaga I. are similar to Adak I. as to geographical features.

Great Sitkin I. is approximately 10 miles long and 8 miles wide. Its predominant feature is a bare conical peak of approximately 5700 feet with a huge crater of an active volcano on its northwest slope. The mountain's slopes sustain practically no growth (except in the lower reaches), due to the almost constant fall of volcanic ash, and the periodic lava flows are readily recognized on the excellent photographs of the area. Shoreline inspection was accomplished on the north side of the island from Bugle Point to the bay area just south of Saddle Point. Much of the shoreline in this area is steep and rocky, but there are long stretches of sand beach, specifically in the bay areas between Bugle Point and Sulphur Point, and Sulphur Point and Teapot Rock.

Sand Bay has a large number of buildings and is an an operational

basis as a Naval Fuel Supply Depot. The only other buildings on the island are at Cape Kingilak and these are abandoned and in a state of disrepair.

(b) Field Inspection: Shoreline inspection was accomplished while running in a launch parallel to the shoreline. Inspection is believed to be sub-standard only in those areas where shadow was dark enough to obscure the shoreline. Shoreline in these areas was approximated as close to its actual position as was practicable. No marked discrepancies were noted in office-compiled shoreline. See side heading 7 for list of minor discrepancies. Heights of offlying pinnacles were estimated and no precise measurements were attempted.

(c) Quality of Photographs: The quality of the nine-lens photographs was very good in most instances. Coverage on the north shore of Adak I. from Cape Moffett to Andrew Bay was good on the field photos but there was considerable difficulty transferring ~~secleted~~ selected photo-hydro points to the poorer office prints. Deep shadow obscured shoreline in some areas around Boyer Bay and nearby offlying islands, from Finger Bay to Thunder Point, and the east side of Ragged Point.

(d) Items of Historical Interest: Inapplicable.

3. Horizontal control

(a) Supplemental control of third order accuracy established: *

ACORN, 1955
BALSA, "
LORA, 1947 and 1955
TANK, 1955
FANG, "
GULF, "
RADIO TOWER, 1955

* See Triangulation Report, Ship EXPLORER, for detailed information concerning horizontal control.

Station REV (USN), 1933 was re-established on its original site. The station mark had been broken away from the concrete base but the impression of the base of the mark remained in the concrete and the mark was replaced and re-cemented in its original position.

(b) No datum adjustments were made by the field party.

(c) The following horizontal control of 2nd. and 3rd. order accuracy, established by other agencies was identified:

STATION NAME	MANUSCRIPT	PHOTO NO.
KAG(USE), 1943	T-11330	41906
HID(USE), 1943-(doubtful) see (d)	T-11331	42140
DAK(USE), 1943 " " "	T-11331	42139
EASY(USE), 1943 " " "	T-11326	42138
BEAN(USE), 1944 " " "	T-11323	39081
REV(USN), 1933	T-11323	42093
JIT(USN), 1933	T-11322	46084

(cont.)

STATION NAME	MANUSCRIPT	PHOTO NO.
AL29(USN), 1943	T-11323	39069
CLAM(USN), 1934	T-11323	39082
LITTLE TANAGA(USN), 1934	T-11328	41940(42160-OP)
ICE(USN), 1933	T-11328	41940
EGO(USN), 1934	T-11549	41934
CHUGUL(USN), 1943	T-11549	42108
ASUKSAK(USN), 1934	T-11548	41978
TAGADAK(USN), 1934	T-11548	41935
UMAK(USN), 1934	T-11548	41936
MAL(USN), 1934	T-11548	41916
BAT(USN), 1934	T-11553	41914 or 15
KNY(USN), 1934	T-11553	41916 or 17

(d) The following stations required by the project instructions for control of compilation were not recovered or established and/or positively identified:

MOF(USN), 1933 was not recovered. A search of approximately one hour failed to locate this station. Further search was considered impractical.

Station (or azimuth) at Cape Moffett was not established. A substitute station, ACOHN, 1955 was established on a small offlying island approximately 2-1/2 miles further to the east along the north shore. It was felt that this location would fullfill the requirements and could be established with less difficulty and greater accuracy.

HID(USE), 1943 was not positively identified. A check of the field identification aboard ship raised some doubt as to the correctness of identification of the objects used as sub-points. An explanation and sketch was included on the CSI card.

(e) All Coast and Geodetic Survey Marks which were required by the project instructions were searched for. The following stations were listed as lost on form 526, but were identified:

STATION NAME	MANUSCRIPT	PHOTO NO.
DYE(USN), 1934	T-11328	41940
SID(USN), 1934	T-11535	41916 or 17

Station DYE(USN), 1934 was not found. A small rock islet with surroundings fitting the original description of the station was found in the location of the plotted station, but no evidence of the station was found. As field identification checked with office identification, a CSI card was completed and forwarded. If this station does not hold in the new radial plot it is recommended that it be rejected.

Station mark SID(USN), 1934 had been dislodged and was found lying near its concrete base. The station is "lost" but identification of concrete base is positive, and considered adequate for photobrammetric control.

ANAGAKSIK(USN), 1934 was identified but not recovered. Landing was too difficult at the only practical approach to the station, and as the remains of the old tripod and an iron pipe marker mentioned in the description could be seen from the water, the station was pricked direct at the point observed. It is believed that this identification will fall within the requirements of accuracy; however, if this station does not hold in the radial plot it should be rejected.

(f) The following horizontal control established by the Coast and Geodetic Survey was identified:

STATION NAME	MANUSCRIPT	PHOTO NO.
FANG, 1955	T-11330	41906
GULF, 1955	T-11330	42142
ACORN, 1955	T-11322	39072
BALSA, 1955	T-11323	39068
TANK, 1955	T-11323	39068
LALA, 1946	T-11328	41941
FRONT RANGE LT., 1946	T-11326	42102
SCAB, 1943	T-11326	42103
HID, 1943	T-11326	42103
ROCK, 1954	T-11329	54-W-2864
RADIO MAST, 1955	T-11323	42086 (OP)
BUCK, 1954	T-11566	54-W-2866
CANE, 1954	T-11566	54-W-2874
COVE, 1943	T-11549	41934
PASS, 1943	T-11549	41932
EF2, 1945	T-11327	42103
ONE, 1945	T-11326	42102
NINE, 1945	T-11326	42102
SULPHUR POINT, OUTER ROCK, 1953	T-11538	46065
SULPHUR POINT, ROCK NO. 2, 1953	T-11538	46065
TEA POT SPOUT, 1953	T-11538	46074
TEA POT ROCK, 1953	T-11538	46074

4. Vertical Control

(a) The only existing bench marks are tidal bench marks at Sweeper Cove Tide Gage, Adak, Alaska, and those established during the 1955 field season at Chapel Roads, Elf Island, Cemetery Point, Andrew Bay, and Cape Kiugilak. Tidal bench marks were not used to establish elevations of vertical control points and were not identified.

(b) All elevations were established by trigonometric leveling from theodolite observations at horizontal control stations or unmarked photo stations. They are based on observations of the water surface at identifiable points.

Eccentric setups and small angles made good side checks difficult to obtain from stations in the Beyer Bay area. In other areas the use of photo points made computations impracticable. Therefore elevations were computed only for identified vertical control points; horizontal distances being obtained by radial plotting ~~developed~~ identified peaks. The datum for the computed elevations is mean high water based on the stage of the tide computed from the tide tables at the time of observations on the water surface. The datum thus established is probably within one foot of mean high water. A check in elevation within reasonable limits was deemed satisfactory and no attempt was made to make results check exactly. Elevations obtained are felt to be satisfactory. All observations taken at REM(USN), 1934 are unchecked and computed elevations are completely dependent upon accuracy of identification.

(c) Vertical control points were established as follows:

NAME	MANUSCRIPT	PHOTO NO.
P-032	T-11330	42169
033	T-11325	42169
034	T-11331	42168
035	T-11331	42168
036	T-11331	42168
037	T-11327	42165
038	T-11327	42165
039	T-11327	42165
040	T-11322	42165
041	T-11332	42165
042	T-11323	37672
043	T-11322	39072
044	T-11322	39072
045	T-11325	42101-2
046	T-11325	42101-2
047	T-11326	42101-2
048	T-11326	42101-2
049	T-11326	42104

from	REM Pk. A	T-11328	42135
	B	T-11327	42164
	C	T-11327	41942
	D	T-11328	42196
	E	T-11328	421946
	F	T-11538	Great Sitkin
	G	T-11538	Great Sitkin
	H		
	J	T-11328	42162
	K	T-11328	42162
	L	T-11553	42132
	M	T-11553	42132

from NIKE Pk. I T-11327 42104

(d) Vertical control stations established did not fullfill the requirements of the project instructions. The taking of vertical angles for establishing this control is necessarily dependent upon such factors as: (1) general visibility, (2) cloud coverage, (3) working area, (4) landing conditions, (5) other priority work requirements. Because of these reasons the control established necessarily diverges from the requirements.

5. Contours and drainage

No contouring was accomplished in the area.

Drainage is obvious and well defined. There was no field inspection of the interior. Lakes and ponds in the area are well defined and are not marked on the photos.

6. Woodland cover

None exists. High slopes are rock, low slopes are grass and tundra.

7. Shoreline and alongshore features

(a) The mean high-water line was indicated at intervals in areas where clearly visible, and in areas where the shoreline was indistinct or obscured by shadow. Time would only allow an approximation of the correct configuration of the shoreline in these areas. The following areas of minor discrepancy were noted on the preliminary manuscripts.

(1) Poor delineation of shoreline in group of small islands at east side of Andrew Bay. On the north side of Adak I. more recent photos are much clearer.

(2) At 51° 41' and 176° 36' small islet shown on manuscript at north of group of small islands is not separated but a part of the larger island.

(3) At 51° 42.2' 176° 36.3' small island - not delineated.

(4) At 51° 44.1' 176° 31.5' " " " "

(5) At 51° 40.8' 176° 39.4' rocks visible on photos

(6) At 51° 41.5' 176° 35.3' and at 51° 42.1' 176° 32.6' there are no ledges in these areas.

T-11331

In other instances, shadow tended to obscure cut-backs along the shore and some of these were indicated on the photographs. A listing of photographs with shoreline notes is attached at the end of this report.

(b) The low water line was not defined except in those areas where it corresponds to the high water line, as at sheer rock ledges or cliffs. A limiting or foul line was indicated in many instances where it was considered helpful or necessary. In most instances where relatively deep water extends right up to the beach line and where sounding lines are restricted only by foul areas.

(c) Foreshore differences on Adak I. range from flat sand beach as at the southeast corner of Andrew Bay, to sheer rock cliffs as on the large portion of the southern coast. Except at the heads of the bays, beaches on the south side, are narrow and rocky.

(d) There are long stretches of rocky cliffs rising steeply from the water. Grass covered bluffs are more or less restricted to bay areas.

(e) Docks, wharves, piers, etc. are entirely restricted to those areas of Sweeper Cove, Finger Bay and Kuluk on Adak Island and Sand Bay on Great Sitkin Island.

8. Offshore features

All visible offshore features were visited during field inspection and their elevations were estimated either above the mean high water line or above the water surface at the time of field inspection.

9. Landmarks and Aids

Landmarks are covered under another phase of field work. See report: LANDMARKS FOR CHARTS, ALEUTIAN ISLANDS, SHIP EXPLORER, 1955.

10. Boundaries, Monuments and Lines

Inapplicable.

11. Other Control

The following topographic station was established on the west side of Cape Chisak, as requested in project instructions:

NAME	MANUSCRIPT	PHOTO NO.
JULY, 1955	T-11328	42133

Photo-hydro stations identified are listed on extra pages at the end of this report.

12. Other interior features

See side heading 2.

13. Geographic names

To be submitted as a separate report in connection with other field work.

14. Special Reports and Supplemental Data

Triangulation data has been forwarded to the Division of Geodesy, Washington, D. C.

Boat sheets have been forwarded to the Division of Coastal Surveys, Washington, D. C.

Other supplemental data:

Transmittal	letter	dtd.	6/13/55	to	Wash.	Pkg	#67
"	"	"	8/10/55	"	"	"	76
"	"	"	8/10/55	"	"	"	77
"	"	"	8/15/55	"	"	"	78
"	"	"	10/6/55	"	"	"	86
"	"	"	10/11/55	"	"	"	89
"	"	"	10/18/55	"	"	"	90
"	"	"	10/19/55	"	"	"	91
"	"	"	10/19/55	"	"	"	96
"	"	"	10/21/55	"	"	"	97
"	"	"	10/21/55	"	"	"	100
"	"	"	11/2/55	"	"	"	107

Data forwarded with this report:

List of Directions
Abstract of Zenith Distances
Observations of Zenith Distances
Observations of Horizontal Directions from Sta. July-1955
Geographic Positions for new control established

Data included in this report:

Progress Sketch
Horizontal photographs (for identification of vertical control)
Data on elevations of vertical stations
Manuscript layout

15. Additional Work

Manuscript T-11566 was a supplemental sheet of scale 1:5,000 covering the area of Chapel Roads and Chapel Cove on the east side of the Bay of Waterfalls. Photographs of the area were single lens and their quality was very good. Triangulation Station Rock 1954 while not falling within the limits of the sheet was identified on one of the 1:5,000 scale photographs covering the area. Shoreline inspection was also done on the larger scale photographs where possible.

Hydrographic signals for this sheet were located by both photogrammetric and graphic methods with the following exceptions:

Signal Name	Remarks
Bev	no photogrammetric location
Won	" " "
Zoo	no graphic location
Yak	" " "

It is requested that photogrammetric locations for signals Zoo and Yak be furnished with Manuscript T-11566.

S. L. Hollis
Lieutenant, C&GS

Approved and Forwarded:

S. B. Grenell
Capt., C&GS
Commanding Ship EXPLORER

SHORELINE NOTES

MAP	PHOTO
T-11322	41959
	42095
	46084
	46085
T-11323	39067
	39069
	39082
	42102
T-11326	42102
	42103
T-11327	41940
T-11328	41940
	41941
	42133
	42134
	42162
T-11329	42147
	42170
	42171

MAP	PHOTO
T-11330	41904
	41906
	41907
	42141
	42171
T-11331	41907
	41908
	42138
	42139
T-11332	42135
	42136
	42138
	42139
T-11333	42134
	42135
T-11334	42147
	42148
T-11553	42133
T-11566	54-W-2866
	54-W-2872
	54-W-2874

NOTE: T-11537 and T-11538 - photographs with shoreline notes previously submitted.

PHOTO-HYDRO STATIONS

Manuscript
T-11322

Act	46084
Baw	41959
Cad	39072
Dog	41959
Eat	39071
Fal	41960
Gam	41960
Hag	39072
Ink	39072
Jim	39073
Kel	39072
Lip	39072
Ufi	

Manuscript
T-11323

Ade	39068
Alp	39067
Bed	39068
Bog	39067
Cub	39068
Cut	39082
Dav	39068
Dud	39082
Eli	39068
Emu	39082
Fem	39068
Gad	39068
Hat	39068
Ira	39068
Jog	39068
Kin	39068
Lid	39068
Mac	39069
Mom	39067
Neo	39067
Nun	39069
Odd	39067
Old	39069
Pie	39069
Pup	39067
Rat	39067
Rex	39069
Set	39069
Shy	39067
The	39067
Tit	39069
Use	39067
Ump	39069
Vet	39067
Wax	39067
Woe	39068
Yon	39068
You	39067
Zig	39068
Zee	39067

Manuscript
T-11327 ×

T-11326

Amp	42138

Manuscript
T-11328

Not located

Ale	41940
Age	42162
Ash	42163
Aze	42135
Bag	42162
Boo	41940
Bar	41940
Blu	42162
Bus	42162
Boy	42135
Com	41940
Can	42135
Cry	42163
Cam	42162
Din	42162
Dif	42162
Dig	42162
Eve	42162
End	42162
Eva	42162
Fir	42162
Fat	42162
Fun	42162
Gaf	41940
Gat	42162
Gus	42162
Hex	41940
Hog	42133
Hut	42162
Haw	42135
Ill	42133
Its	42162
Ivy	42135
Jig	42133
Job	42162
Joe	41940
Jug	42135
Kim	42162
Kit	42135
Kul	42162
Lax	42135
Lye	42162
Mig	42162
Mar	42134
Mum	42135
Nog	42135
Now	42134
Nut	42162
Oak	42135
Out	42134
Pop	41941
Pit	42162
Pew	42133
Rum	41940
Rag	42134
Rue	42162
Sis	42134
Sob	42162
Tim	41940
Tic	42162
Tub	42134
Una	42162
Via	42134
Val	42162
Wac	42134
Woe	42162
Yuk	42134
Zam	42134
Zoo	42162
Pad	42162

Manuscript
T-11329

Add	42171
Bah	42171
Cab	42171
Del	42171
Ego	42171
Ndi	42171
Fed	42171
Fal	42171
Goo	42171
Gra	42171
Poi	42171
Sac	42171

Manuscript
T-11330

Aim	41905
Abe	42141
Are	41904
Ask	41906
Ben	41905
Bab	42141
Boa	41905
Bix	41906
Cox	41905
Cob	42141
Cut	41905
Caw	42141
Die	41905
Dun	42141
Dar	42141
Eve	41905
Eel	42141
Fiz	41905
Fox	42141
Gay	41905
Gin	42141
Hem	42171
Hob	41905
Hoy	42141
Icy	42171
Ida	41905
Irk	42141
Jef	42171
Jil	41905
Jon	42141
Kip	42171
Keo	41905
Key	42141
Leg	42171
Len	41905
Les	41905
Lie	42141
Nop	42171
Neg	41905
Nut	42141
Nay	42171
Nav	41905
Nun	42141
Ole	42171
Own	42141
Oar	42141
Oki	41905
Par	41905
Pac	41906
Pad	42141
Pus	41905
Que	41905
Rug	41905
Ree	41906
Sad	41905
Sic	41906
Tax	41905
Too	41906
Ugo	42142
Vel	41905
Van	41906
Was	41905
Win	42142
Yaw	41905
Yet	42142
Zed	41905
Zim	42142

on T-11329

Manuscript
T-11331

Aid	42139
Any	42140
Ave	42140
Auk	42140
Ann	42140
Bel	42139
Bax	42140
Biz	42140
Bib	42140
Caw	42139
Cuz	42140
Coy	42140
Cog	42140
Den	42139
Dad	42140
Dow	42140
Dix	42140
Erg	42139
Ewe	42140
Ear	42140
Egg	42140
Fib	42139
Flo	42140
Fly	42140
Fit	42140
Fee	42140
Gee	42139
Gyp	42140
Get	42140

(cont)

Manuscript
T-11331

Guy 42138
Gum 42140
Gas 42140
Hen 42139
Hep 42139
Hip 42140
Hoe 42140
Hug 42140
Her 42140
Iky 42139
Ink 42139
Iso 42140
Ide 42140
Imp 42140
Jab 42139
Jed 42139
Jaz 42140
Jag 42140
Jen 42139
Jam 42140
Kis 42139
Kof 42139
Kam 42140
Kil 42139
Kay 42140
Lum 42139
Laf 42139
Low 42140
Law 42140
Led 42139
Log 42140
Lip 42140
Mac 42139
Mid 42139
Mao 42140
May 42140
Mit 42139
Man 42140
Mix 42140
Nek 42139
Nix 42138
Nap 42140
Nik 42140
Nul 42139
Not 42140
Nod 42139
Nor 42140
Owe 42139
Owl 42139
Oaf 42140
Ode 42140
Odd 42140
Org 42139
Obi 42140
Pea 42139
Pow 42138
Pab 42140
Pay 42140
Pam 42139
Peg 41907
Pep 42139
Pat 42140
Quo 42140
Rib 42139
Rug 42138
Rap 42140
Rin 42140
Raw 41907
Rim 42139
Rig 42140
Sal 42139
See 42139
Sat 42140
Sag 42140
Sol 42140
Say 42139
Sam 41907
Ton 42139
Tag 42139
Thy 42140
Tog 42140
Tap 42139
Tea 41907
Ugo 42139
Urn 42139
Vie 42139
Vip 42139
Viv 42140
Von 41908
Vim 41907
Way 42139
Wee 42138
Wow 42140
Wet 41908
Wat 42139
Who 41907
Yip 42139
Yea 42140
Yon 41908
Yam 41907
Zac 42139
Zap 42140
Zip 42140
Kum 42140

Manuscript
T-11332

Act 42136
Amy 42135
Bes 42138
Bid 42136
Buy 42135
Cul 42138
Cur 42136
Dew 42139
Daw 42136
Don 42136
Eon 42139
Elm 42138
Eba 42136
Fis 42139
Fig 42138
Fur 42136
Gig 42139
Gob 42138
Gel 42136
Hex 42138
His 42136
Har 42134
Ion 42138
Ike 42136
Jar 42138
Jax 42136
Kim 42138
Ken 42136
Lit 42138
Loc 42136
Mal 42138
Moe 42136
Nib 42136
Ora 42136
Put 42136
Rye 42136
Sin 42136
Tad 42136
Vow 42135
Wag 42135
Yel 42135
Cal 42136

Manuscript
T-11333

Dry 42135
Elk 42135
Foe 42136
Gib 42135
Ply 42135
Run 42135
Ski 42135
Try 42135
Tot 42135

Manuscript
T-11334

Arc 42148
Bun 42148
Dev 42146
Fry 42146
Gun 42146
Has 42146
Ina 42146
Jud 42146
Pax 42148
Rit 42148
Sky 42148
Tod 42148
Uno 42148
Vex 42148
Wan 42148
Yes 42148
Zag 42148

Manuscript
T-11537

Ate 46079
Bif 46079
Cue 46067
Die 46067
Fed 46068
Gar 46068
Fay 46078
Raz 46078
She 46078
Sav 46068
Try 46079
Ump 46079
Vic 46079
Won 46079
Yip 46079
Zed 46079

Manuscript
T-11538

Add 46065
Arc 46078
Baw 46065
Ben 46077
Gab 46065
Gun 46077
Dad 46065
Dye 46078
Eat 46065
Emu 46078
Fal 46065
Flo 46078
Gad 46073
Gyp 46078
Hag 46073
Hun 46078
Icy 46065
Ira 46078
Jab 46073
Kak 46073
Knob 46078
Lam 46073
Loo 46077
Mom 46077
Mug 46073
Nun 46073
Nik 46077
Oaf 46073
Old 46077
Par 46073
Rut 46073
Sap 46073
Ten 47078
Use 46078
Vel 46078
Was 46078
Yak 46077
Zig 46078

Manuscript
T-11548

None

Manuscript
T-11549

None

Manuscript
T-11553

None

Manuscript
T-11554

None

Manuscript
T-11566

Awe	54-W-	2866
Cue	"	2866
Did	"	2866
Nat	"	2866
Fog	"	2866
Gar	"	2866
Hit	"	2866
Ish	"	2872
Kal	"	2873
Lak	"	2873
Moo	"	2873
Nat	"	2873
Oba	"	2873
Pan	"	2873
Ret	"	2873
Sap	"	2873
Ten	"	2873
Urn	"	2873
Vue	"	2873
Yak	"	2874*
Zoo	"	2874*

* See side heading 15.

TABLE OF COMPUTED ELEVATIONS

	FANO	GULF	HID	KAG	DAK	V-001	WINE	ONE	G.P.	V-002	REM	ACORN	RAISA
FANO. 1955	99 B 104mHI		421										
GULF. 1955		55 B 56mHI acc	422										
HID(USE)1943			425mHI acc						410				
KAG(USE)1943													
DAK(USE)1943					319 325mHI				320				
V-001 (USE)1943)						22mHI							
P-032(BEY	1646 (A)	1647 (A)	1644 (A)						1650				
P-033	2186 (E)	2186 (E)	2182 (G)										
P-034	1433 (C)	1434 (C)	1437 (I)										
(USE)1943) P-035(BEY	1925 (D)	1924 (D)	1922 (L)	(C)	1909 (B)				1925				
P-036		(G)	(M)										
P-037					1827 (G)	1820 (A)							
P-038 1953)					(H)	(B)							
P-039(PK 24 1953)					1792 (I)	1784 (D)			1781				
P-040(PK 26 1953)					1772 (K)	1771 (E)			1772				
P-041(DRAVE.					1566 (J)	1563 (F)			1559				
[illegible]INE.1945							19 B 24mHI						
P-042							2107 (A)	2103					
P-043							1869 (B)	1871 (B)					(B)
P-044							(C)	(A)					
ONE. 1945								18 B 23mHI					(A)
V-002										HI=19 B			
REM(USE).1934											HI=166 161		
ACORN. 1955												HI=52 47	
P-045							(D)	(G)					
P-046							(E)	(F)					
P-047							(F)	(E)					
P-048							(G)	(D)					
P-049							(H)	(C)					
PK A											1658		
B											1923		
C											2436		
D											2044		
E											1798		
J											1747		
K											1242		
L											1301		
M											1386		

PHOTOGRAMMETRIC PLOT REPORT
Project 7-6034 (PH-34) Adak Island
Scale 1:20,000

AREA COVERED:

Two final radial plots were assembled of Adak Island. The final radial plot completed in 1954 covers manuscripts T-11324, T-11325, T-11329 and T-11334 on the west side of the island. The nine topographic manuscripts included in the subject plot cover the remainder of the island, Kagalaska Island and the west side of Little Tanaga Island.

The manuscript Nos. are:

T-11322 (Advance)	T-11326 (Advance)	T-11330 (Advance)
T-11323 "	T-11327 "	T-11331 "
	T-11328	T-11332 "
		T-11333 "

22. METHOD:

The subject plot is actually comprised of two current separate plots covering the nine manuscripts listed in Section 21 above. The plots were assembled separately to facilitate compilation with the Reading plotters. The report covers both plots.

A preliminary radial plot covering the same nine manuscripts included in the subject final plot was assembled in March 1955. The manuscripts for the preliminary plot were ruled with polyconic projections and UTM Zone-1 grids. The same nine-lens metal mounted photographs were used in both the preliminary and final plots. The preliminary plot positions were not drilled. After completion of the plot assembly the points were circled on the back of the manuscripts. Master calibration templets were used in preparing templets for the preliminary plot. These templets were reused in the final plot after the addition of field identified horizontal control.

The final plot was drilled from the top and circled on the back of the manuscripts.

In some instances duplicate bases exist, the compilations being on manuscripts other than those used in the plot:

T-11322:

The base manuscript used in the preliminary plot was reused in the final plot. This manuscript was not used for a preliminary compilation.

T-11323:

The same manuscript was used in both plots. Field inspection data was applied to the preliminary details during final compilation.

T-11327 and T-11332:

The Baltimore Office assembled a radial plot on field identified control and compiled (field inspection of [illegible] line and alongshore details available) the Kagalaska Strait area of the manuscripts. The nine-lens positype photographs used in the plot are duplicates of the metal-mounted photographs used in the Washington Office preliminary and final plots. New manuscripts for T-11327 and T-11332 were ordered for use in the Washington Office preliminary plot. The two plots were assembled on the same field identified-control and are substantially in agreement.

Preliminary shoreline was added to the Baltimore manuscripts to extend the shoreline details to the limits of the manuscripts for use in field work.

The bases used in the preliminary plot were reused in the final plot. The positions established in the final are substantially in agreement with the Baltimore Office plot. The 1955 field inspection data were applied to the areas of preliminary compilation on the Baltimore Office manuscripts.

T-11328:

A new manuscript was ordered for the final plot. This manuscript was used for the compilation.

T-11330:

A new manuscript was ordered for the final plot. Since the two plots were in agreement the preliminary compilation was accepted. Field inspection was applied to the preliminary compilation.

T-11331:

Same as T-11330.

T-11333:

The plot was assembled on the preliminary manuscript. Field inspection was applied to the preliminary compilation.

The templets for tilted photographs Nos. 41960, 41961 and 41962 were not laid while assembling the radial plot. Map positions of photogrammetric points were printed on these templets after the plot was disassembled.

As mentioned in the Baltimore Office radial plot report photographs Nos. 42157 and 42195 were tilted. The templets for these photographs were the last laid in the area during the radial plot assembly.

23. ADEQUACY OF CONTROL:

The sketch included with the radial plot report shows the density and distribution of horizontal control.

44 of the 52 field identified horizontal control stations were held within 0.3mm. Field identified control stations were held in the vicinity of the 8 field identified control stations not held during radial plotting.

24 of the 26 office identified control stations were held in the plot.

The stations not held are indicated on plot report sketch.

24. SUPPLEMENTAL DATA:

Office identified hydrographic stations SET and DOT (Topographic Survey T-7035a) were used as horizontal control for the radial plot.

25. PHOTOGRAPHY:

The photography was adequate for radial plotting. Tilted photographs are mentioned in Section 22 (METHOD).

Approved:

K. N. Maki
Supervisory Cartographer

Submitted:

S. G. Blankenbaker
Cartographer (Photogrammetry)

T-11322; T-11323; T-11326; T-11327; T-11328;
T-11330; T-11331; T-11332; T-11333

List of horizontal control stations showing the measured difference in millimeters between the plotted position and the radial plot position

T-11322

(1)	Sub. Pt. JIT (USN), 1933	field identified	held
(2)	Sub. Pt. ACORN, 1955	" "	held

T-11323

(1)	LORA, 1947	office identified	0.2mm
(2)	OLD RADAR TOWER, 1948	" "	held
(3)	BAT-2, 1945	" "	0.2mm
(4)	SET (hydro)	" "	held
(5)	DOT (hydro)	" "	0.2mm
(6)	WATER TOWER, 1945	" "	held
(7)	HED (USN), 1934	" "	held
(8)	HIE (USN), 1934	" "	held
(9)	ZETO PT. BEACON, 1945	" "	0.2mm
(10)	TANK, 1955	field identified	held
(11)	BALSA, 1955	" "	0.2mm
(12)	CLAM (USN), 1934	office identified	0.2mm
(13)	Sub. Pt. CLAM (USN), 1934	field identified	held
(14)	AL-29 (USN), 1943	office identified	held
(15)	HEY (USN), 1943	field identified	held
(16)	BEAM (USN), 1944	" "	held
(17)	RADIO MAST, 1955	" "	held

T-11326

(1)	PIT, 1945	office identified	held
(2)	ELEVEN, 1945	" "	held
(3)	HALF, 1945	" "	0.3mm
(4)	FINGER, 1945	" "	held
(5)	CONTROL TOWER, 1943	" "	held
(6)	CREEK, 1946	" "	held
(7)	BARD, 1945	" "	held
(8)	DAN, 1943	" "	0.7mm
(9)	ONE, 1945	field identified	held
(10)	MID, 1945	" "	2.0mm
(11)	SCAB, 1945	" "	held
(12)	FRONT RANGE LT., 1948	" "	held
(13)	Sub. Pt. BARD, 1945	" "	held

T-11327

(1)	HOGAN, 1946	field identified	held
(2)	Sub. Pt. BIGHT, 1933	" "	0.3mm
(3)	Sub. Pt. CAMP, 1945	" "	0.5mm
(4)	NOS (USN), 1933	" "	0.6mm
(5)	Sub. Pt. DEW-2	" "	1.0mm
(6)	Sub. Pt. SAS, 1933	" "	held
(7)	PIL (USN), 1934	" "	held
(8)	Sub. Pt. RID (USN), 1933	" "	0.2mm
(9)	Sub. Pt. JAL (USN), 1933	" "	0.2mm
(10)	Sub. Pt. B&W-2, 1943	" "	0.2mm
(11)	BLIND, 1945	" "	held
(12)	RF-2, 1945	" "	0.6mm

T-11328

(1)	LITTLE TANAGA (USN), 1934	field identified	0.2mm
(2)	RM#1 LALA, 1946	" "	1.5mm
(3)	DYE (USN), 1934	" "	0.3mm
(4)	ICE (USN), 1934	" "	held
(5)	TEL (USN), 1934	" "	0.2mm
(6)	FOUL, 1933	" "	held
(7)	Sub. Pt. REM (USN), 1934	" "	0.3mm
(8)	JULY, 1955 (TOPO)	" "	held
(9)	S.Pt. GUL (USN), 1934	" "	held
(10)	Sub. Pt. GOBEY, 1953	" "	held
(11)	Sub. Pt. QUAIL, 1953	" "	0.3mm

T-11330

(1)	BEY (USE), 1943	office identified	0.3mm
(2)	LOB (USE), 1943	" "	held
(3)	CHAP (USE), 1942	" "	held
(4)	P-030	field identified	held
(5)	BUCK, 1954	" "	held
(6)	CAME, 1954	" "	0.2mm
(7)	(Sub. Pt. #2) CAME, 1954	" "	0.3mm
(8)	FANG, 1955	" "	0.4mm
(9)	KAG, 1943	office identified	held
(10)	Sub. Pt. KAG, 1943	field identified	0.7mm
(11)	S. Pt. GULF, 1955	" "	held

T-11331

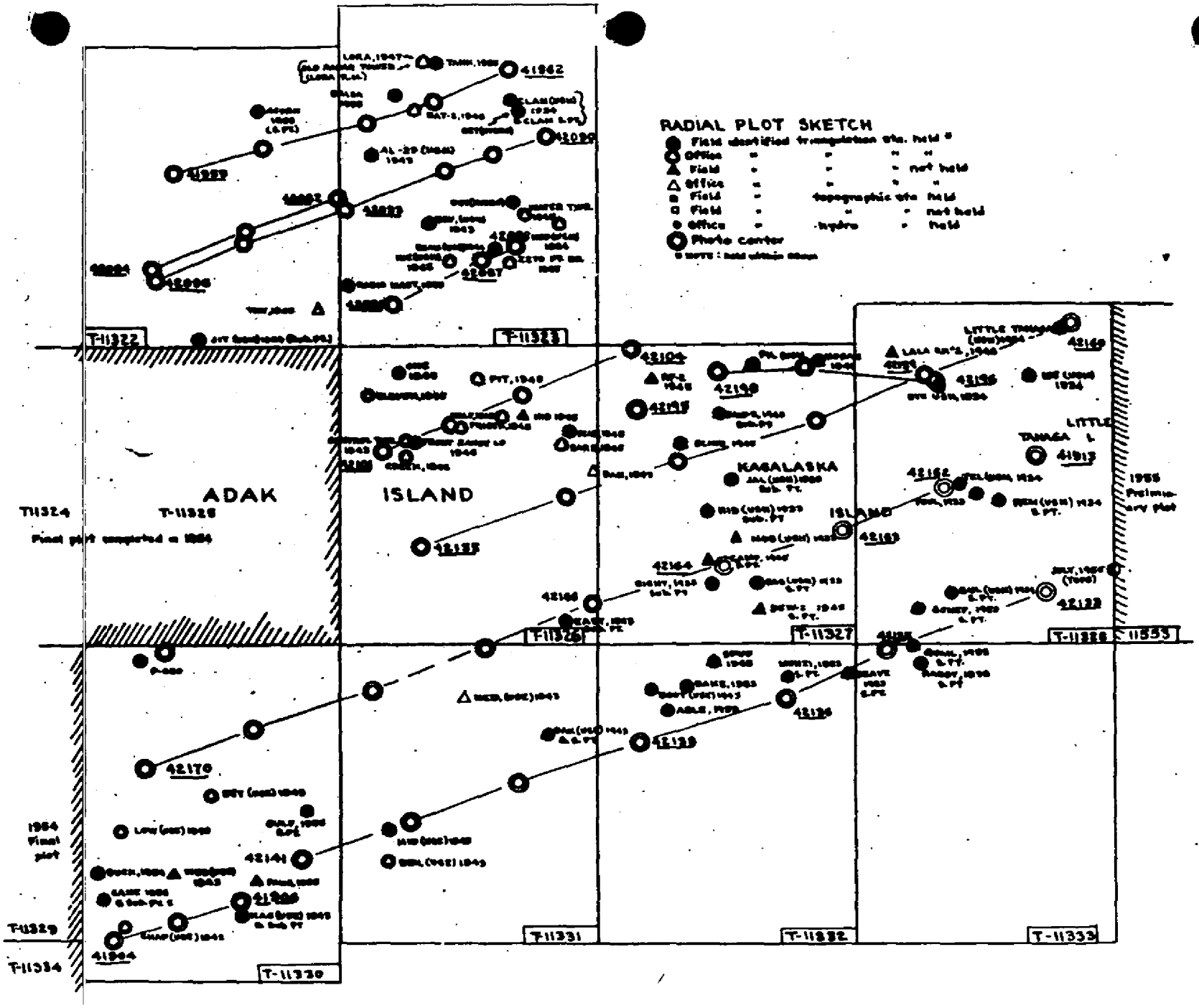
(1)	DAK (USE), 1943	office identified	0.2mm
(2)	Sub. Pt. DAK (USE), 1943	field identified	0.3mm
(3)	HID (USE), 1943	" "	0.2mm
(4)	DEN (USE), 1943	office identified	held
(5)	NED (USE), 1943	" "	1.0mm

T-11332

(1)	Sub. Pt. BRAVE, 1953	field identified	held
(2)	Sub. Pt. MUMMY, 1953	" "	held
(3)	SPUD, 1945	" "	0.2mm
(4)	BAKE, 1953	" "	0.2mm
(5)	BOOT (USE), 1945	" "	0.2mm
(6)	ABLE, 1953	" "	held

T-11333

(1)	Sub. Pt. RAGGY, 1953	field identified	0.3mm


RADIAL PLOT SKETCH
Field identified triangulation stn. held *
Office " " " "
Field " " " not held
Office " " " "
Field " topographic stn held
Field " " " not held
Office " hydro " held
Photo center
* NOTE : held within circle
ADAK
ISLAND
KAGALASKA
ISLAND
LITTLE
TANAGA L
T-11322
T-11323
T-11324
T-11325
T-11326
T-11327
T-11328
T-11329
T-11330
T-11331
T-11332
T-11333
T-11334
T-11553
Final plot completed in 1954
1954 Final plot
1955 Preliminary plot
41962
42039
42104
42198
42195
42135
42162
42164
42166
42170
42141
41904
41913
42123
42136
42139

Photogrammetry

MAP T-11330 PROJECT NO. Ph-34 SCALE OF MAP 1/20,000 SCALE FACTOR 1.00

STATION	Descr. SOURCE OF INFORMATION (INDEX) Page	NA 1927 DATUM GP	LATITUDE OR y-COORDINATE LONGITUDE OR x-COORDINATE	DISTANCE FROM GRID IN FEET, OR PROJECTION LINE IN METERS FORWARD	(BACK)	DATUM CORRECTION	N.A. 1927-DATUM DISTANCE FROM GRID OR PROJECTION LINE IN METERS FORWARD	(BACK)	FACTOR DISTANCE FROM GRID OR PROJECTION LINE IN METERS FORWARD	(BACK)
500 ft.			51-38-00.162	5.0	(1849.4)					
CHAP (USE) 1943	7	195	176-48-16.583	318.9	(835.1)					
WED (USE)			51-39-15.580	481.5	(1372.9)					
1943	7	195	176-46-18.644	358.4	(795.1)					
765 ft.			51-40-22.359	691.0	(1163.4)					
LOW (USE) 1943	6	195	176-48-29.974	576.0	(577.0)					
1650 ft.			51-41-21.109	652.4	(1202.0)					
BEY (USE) 1943	6	194	176-44-59.753	1147.9	(4.7)					
	Field Compu-	NA	51-39-15.108	466.9	(1387.4)					
BUCK 1954	tations	1927	176-49-26.242	504.5	(648.9)					
			51-38-34.668	1071.4	(782.9)					
CANE 1954	"	"	176-49-28.424	546.6	(607.2)					
			51-44-43.558	1346.2	(508.1)		1954 work			
P-030 (Pk)	"	"	176-47-41.995	805.7	(345.4)					
			51-42-12.775	394.8	(1459.5)		"	"		
P-031 (Pk)	"	"	176-47-11.317	217.3	(934.8)					
			51-44-35.349	1092.5	(761.9)		"	"		
P-029 (Pk)	"	"	176-45-46.055	883.6	(267.6)					
430 ft.			51-38-16.043	495.8	(1358.6)					
KAG. USE. 1943			176-43-45.510	875.2	(278.7)					

1 FT. = .3048006 METER

M-2388-12

COMPUTED BY: L. C. Lande DATE February 1954 CHECKED BY: Wm. Randall DATE February 1954

Photogrammetry

MAP T- 11331 PROJECT NO. Ph-34 SCALE OF MAP 1:20,000 SCALE FACTOR 1.0

STATION	SOURCE OF INFORMATION (INDEX)	DATUM	LATITUDE OR y-COORDINATE LONGITUDE OR x-COORDINATE	DISTANCE FROM GRID IN FEET. OR PROJECTION LINE IN METERS FORWARD	(BACK)	DATUM CORRECTION	N.A. 1927-DATUM DISTANCE FROM GRID OR PROJECTION LINE IN METERS FORWARD	(BACK)	FACTOR DISTANCE FROM GRID OR PROJECTION LINE IN METERS FORWARD	(BACK)
Elev. 1925 ft.			51-43-38.645				1194.4	(660.0)		
NED (USE) 1943	V 194	1927	176-35-19.005				364.8	(786.9)		
			51-42-42.411				1310.8	(543.6)		
DAK (USE) 1943	"	"	176-32-01.226				23.5	(1128.6)		
			51-40-22.377				691.6	(1162.8)		
HID (USE) 1943	"	"	176-38-07.223				138.8	(1014.2)		
			51-39-37.202				1149.8	(704.6)		
DEN (USE) 1943	"	"	176-38-05.653				108.7	(1044.7)		

1 FT. = .3048006 METER

M-2388-1

COMPUTED BY: C. O. DeMarr DATE 7 January 1955 CHECKED BY: J. E. Hundley DATE 12 January 1955

Photogrammetry

MAP T-11332 PROJECT NO. Ph-34 SCALE OF MAP 1:20,000 SCALE FACTOR

STATION	SOURCE OF INFORMATION (INDEX)	DATUM	LATITUDE OR y-COORDINATE / LONGITUDE OR x-COORDINATE ° ' "	DISTANCE FROM GRID IN FEET, OR PROJECTION LINE IN METERS FORWARD (BACK)	DATUM CORRECTION	N.A. 1927 - DATUM DISTANCE FROM GRID OR PROJECTION LINE IN METERS FORWARD (BACK)	FACTOR DISTANCE FROM GRID OR PROJECTION LINE IN METERS FORWARD (BACK)
BOOT (USE) 1943 Elev 180 ft	~~G-6834~~ Pg.192	N.A. 1927	51 43 56.221			1737.6 (116.8)	
			176 27 54.108			1038.4 (113.1)	
ABLE, 1953 Elev. 10 ft.	~~Unadj. Field Pos.~~ 820	"	51 43 31.~~164~~ 10			96~~7~~1.2 (89~~2~~3.2)	
			176 26 49.~~557~~ 8			951.~~8~~ 6 (200.~~4~~ 0)	
BAKE, 1953 Elev. 102 ft	" "	"	51 44 04.~~115~~ 06			127~~.2~~ 5.5 (1727~~.2~~ 8.4)	
			176 26 30.~~980~~ 1.00			594.~~5~~ 9 (556.~~5~~ 5)	
BALDY, 1953 Elev. 31 ft.	" 818	"	51 44 17.~~935~~ 896	(11333)		55~~4.3~~ 3.1 (1300~~.1~~ 1.3)	
			176 19 00.~~975~~ 50			18.~~7~~ 3 (1132~~.6~~ 3.1)	
Sub Point ~~BADLY~~, 1953 BALDY		"	51 44			530.2 (1324.2)	
			176 19			25.5 (1125.8)	
BRAVE, 1953 Elev. 1559 ft.	~~Unadj. Field Pos.~~ 818	"	51 44 34.~~596~~ 57			1069~~.2~~ 8.0 (785~~.2~~ 6.4)	
			176 20 34.~~100~~ 082			65~~4.3~~ 3.4 (496.~~8~~ 5)	
Sub Point BRAVE, 1953			51 44			1063.4 (791.0)	
			176 20			637.0 (514.2)	
CODES, 1953 Elev. 334 ft.	~~Unadj. Field Pos.~~ 819	"	51 44 24.~~900~~ 860			769~~.6~~ 8.3 (1084~~.8~~ 6.6)	
			176 21 41.~~847~~ 32			80~~3.0~~ 2.7 (348.~~3~~ 6)	
Sub Point CODES, 1953			51 44			757.4 (1097.0)	
			176 21			815.5 (335.8)	
CHAR, 1953	~~Unadj. Field Pos.~~ 820	"	51 44 16.~~454~~ 09			508.~~5~~ 7.1 (134~~5.8~~ 7.2)	
			176 26 08.~~559~~ 20			164.~~8~~ 4 (98~~7.1~~ 6.9)	
DOUB, 1953 Elev. 62 ft.	"	"	51 43 47.~~378~~ 27			146~~4.3~~ 2.7 (390~~.1~~ 1.7)	
			176 27 ~~09.959~~ 10.973			191.1 (96~~0.5~~ 20.6) 41.0	Replot
HUMP, 1945 Elev 178'	G-6834 Pg.192	"	51 44 25.802			797.4 (1057.0)	
			176 26 19.899			381.8 (769.5)	

1 FT. = .3048006 METER

COMPUTED BY: J. Steinberg DATE 12/30/53 CHECKED BY: A. Queen DATE 1/4/54

M-2388-12

Photogrammetry

MAP T-11332 PROJECT NO. Ph-34 SCALE OF MAP 1:20,000 SCALE FACTOR

STATION	SOURCE OF INFORMATION (INDEX)	DATUM	LATITUDE OR y-COORDINATE / LONGITUDE OR x-COORDINATE ° ' "	DISTANCE FROM GRID IN FEET, OR PROJECTION LINE IN METERS FORWARD (BACK)	DATUM CORRECTION	N.A. 1927 - DATUM DISTANCE FROM GRID OR PROJECTION LINE IN METERS FORWARD (BACK)	FACTOR DISTANCE FROM GRID OR PROJECTION LIN IN METERS FORWARD (BACK)
LAST 2, 1945 Elev 125'	G-6834 Pg.192	N.A. 1927	51 44 11.032			341.0 (1513.4)	
			176 23 41.529			796.9 (354.5)	
MUNZI, 1953 Elev. 94 ft	Unadj. ~~Field V~~ Comp. 818	"	51 43 59.0~~97~~ 53			182~~6.5~~ 5.1 (27~~.9~~ 9.3)	
			176 22 33.972			65~~2.0~~ 1.7 (499.~~5~~ 8)	
Sub Point MUNZI, 1953		"	51 43			1850.9 (3.5)	
			176 22			640.4 (511.1)	
RAGGY, 1953 Elev. 668 ft.	"	"	51 44 35.6~~60~~ 23	EAST OF SURVEY T-11333		110~~2.1~~ 1.0 (752.~~3~~ 3.4)	
			176 17 31.7~~41~~ 11			609~~.0~~ 8.4 (542.~~2~~ 8)	
Sub Point RAGGY, 1953		"	51 44	EAST OF SURVEY T-11333		1106.2 (748.2)	
			176 17			621.3 (529.9)	
SPUD, 1945	G-6834 Pg.193	"	51 44 30.874			954.2 (900.2)	
			176 25 33.986			652.1 (499.1)	
SHARP, 1953 Elev. 92 ft	Unadj. ~~Field V~~ Comp. 818	"	51 43 43.~~236~~ 193			133~~6.3~~ 4.9 (518.~~1~~ 9.5)	
			176 20 48.3~~57~~ 38			928~~.2~~ 7.8 (223.~~5~~ 9)	
Sub Point SHARP, 1953		"	51 43			1329.1 (525.3)	
			176 20			929.3 (222.4)	
SWING, 1953 Elev 13 ft	Unadj. ~~Field V~~ Comp 819	"	51 44 39.6~~8~~6 5			122~~6.9~~ 5.6 (627.~~5~~ 8.8)	
			176 22 52.3~~8~~1 1			1003.~~8~~ 6 (147.~~3~~ 6)	
Sub Point SWING, 1953			51 44			1196.7 (657.7)	
			176 22			1014.5 (136.7)	

1 FT. = .3048006 METER

COMPUTED BY: J. Steinberg DATE 12/30/53 CHECKED BY: A. Queen DATE 1/4/54

M-2388-12

Photogrammetry

MAP T-11333 PROJECT NO. Ph-34 SCALE OF MAP 1/20,000 SCALE FACTOR 1.0

STATION	SOURCE OF INFORMATION (INDEX)	DATUM	LATITUDE OR y-COORDINATE / LONGITUDE OR x-COORDINATE	DISTANCE FROM GRID IN FEET, OR PROJECTION LINE IN METERS FORWARD	(BACK)	DATUM CORRECTION	N.A. 1927 - DATUM DISTANCE FROM GRID OR PROJECTION LINE IN METERS FORWARD	(BACK)	FACTOR DISTANCE FROM GRID OR PROJECTION LINE IN METERS FORWARD	(BACK)
Elev. 668 ft.			51-44-35.623				1101.0	(753.4)		
RAGGY, 1953	V 818	1927	176-17-31.711				608.4	(542.8)		
Sub Pt.			51-44				1106.2	(748.2)		
RAGGY		"	176-17				621.3	(529.9)		
Elev. 31 ft.			51-44-17.896				553.1	(1301.3)		
BALDY, 1953	V 818	"	176-19-00.950				18.2	(1133.1)		
Sub Pt.			51-44				530.2	(1324.2)		
BALDY, 1953			176-19				25.5	(1125.8)		

1 FT. = .3048006 METER

M-2388-12

COMPUTED BY: C. O. DeMarr DATE 11 January 1955 CHECKED BY: J. E. Hundley DATE 12 January 1955

COMPILATION REPORT
T-11330, 11331, 11332, 11333

31. DELINEATION:

Shoreline and foreshore features were delineated on the map manuscripts by graphic methods. Field inspection was available for these surveys. A section of vinylite work sheet material was superimposed over the photo having the most nearly true map scale and clarity of image detail, and the shoreline was traced while being observed stereoscopically.

The interior detail and contours were delineated on the Reading Nine-Lens Plotters using rectified metal mounted photos. No interior field inspection was available.

32. CONTROL:

See ~~radial~~ Photogrammetric plot report.

33. SUPPLEMENTAL DATA:

Single lens 11th Air Force photos, taken June-July, 1943, 1:23,000 scale.

34. CONTOURS AND DRAINAGE:

The single lens photos listed in Paragraph 33 were used to delineate small areas of contours where dense shadows or clouds appeared on the nine-lens photos.

35 and 36. SHORELINE, ALONGSHORE AND OFFSHORE DETAILS:

Shoreline inspection was generally adequate with the exception that shadow areas were not field delineated in every instance. These areas were delineated with the supplemental photos listed in Paragraph 33.

37. LANDMARKS AND AIDS - NONE

38. CONTROL FOR FUTURE SURVEYS:

A complete list of photo-hydro stations for each map is included in the 1955 field inspection report submitted by S. L. Hollis. On T-11330, four photo-hydro stations, Maw, Lax, Jeb and Ham in South Arm, are from 1954 field inspection data.

39. JUNCTIONS:

Junctions have been made with all adjoining surveys.

40. HORIZONTAL AND VERTICAL ACCURACY:

Refer to the photogrammetric plot report.

46. COMPARISON WITH EXISTING MAPS:

T-6941	1:40,000	1933 (Sheet No. 12)
T-6942		1933 (305610-154)
Adak Alaska	USGS	1:250,000
Adak Island		1:25,000, 1943, Sheets 8, 9 and 10, Corps of Engineers

47. COMPARISON WITH NAUTICAL CHARTS:

9141	1:30,000,	corrected to 9/29/52
9193	1:20,000	" " 7/5/52

Submitted:

Louis Levin
Louis Levin
Supervisory Cartographer

Approved:

K. N. Maki
K. N. Maki
Supervisory Photogrammetric Engineer

GEOGRAPHIC NAMES

Survey No.

T 11330

Name on Survey	A On Chart No.	B On previous surv. No.	C On U. S. quadrangle Maps	D From local information	E On local Maps	F P. O. Guide or	G Rand McNally	H U. S. Light L.	K
Bay of Waterfalls									
Beyer Bay									
Cape Kagigikak									
Cataract Bight									
Chapel Cove									
Chapel Roads									
False Bay									
Hatchet Lake									
Low Pt.									
Middle Pt.									
Pacific Ocean									
South Arm									
Turret Pt.									
Wedge Cape									
Adak Island				Names approved 7-31-56 a.g.w.					
Red Rock									
Pulpit Rocks									
South Rocks									
Split Top									

GEOGRAPHIC NAMES

Survey No.

T 11331

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	K	
Boot Bay										1
Camel Cove										2
Crone Island										3
Elf Island										4
Pacific Ocean										5
Hidden Bay										6
										7
										8
										9
										10
										11
										12
										13
										14
										15
										16
										17
										18
										19
										20
										21
										22
										23
										24
										25
										26
										27

Names approved
7-31-56
G.J.W.

M 234

T-11332 Geographic Names.

Adak Island
Alaska
Aleutian Islands

Boot Bay
Boot Point

Kaga Point
Kagalaska Island
Kagalaska Strait

Pacific Ocean

Sharp Cape

Names approved 9-4-56.
L. Heck.

T-11333. Geographic Names.

Alaska
Aleutian Islands

Kagalaska Island

Little Tanaga Strait

Pacific Ocean

Quail Bay

Ragged Point

Names approved 9-4-56.
L. Heck

History of Hydrographic Information for T-11330

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

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

H-8238 1:20,000 (with inset of 1:5,000) 1955

H-6888 U.S.N. 1:10,000 1933 (for "South Arm" only)

Hydrography was compiled by J. J. Streifler and verified by Nautical Charts in August 1956.

J. J. Streifler

History of Hydrographic Information
for T-11331

Hydrography was applied to the manuscript of this quadrangle in accordance with AMS specifications.

With relatively deep water at the shoreline depth curves of less than 10 fathoms could not be delineated.

Soundings and depth curves in fathoms at Mean Lower Low Water datum and originate from the following C&GS hydrographic surveys:

H-8238	1:20,000	1955
H-8239	1:20,000	1955

Hydrography was compiled by L. Martin Gazik and checked by O. Svendsen.

L. Martin Gazik
Photogrammetry Division
8 August 1956

History of Hydrographic Information
T-11332

Hydrography was applied to the manuscript of this quadrangle in accordance with AMS specifications.

~~Ten~~ Few depth curves of less than 10 fathoms were delineated due to deep water near the shoreline. Soundings and depth curves in fathoms at mean lower low water datum were compiled from the following C&GS hydrographic sources:

H-8071	1:10,000	1953
H-8239	1:20,000	1955
H-8235	1:40,000	1955

Surveys H-8071 and H-8239 are unverified and subject to change.

Hydrography checked by:
Nautical Charts - Sept. 1956

Hydrography compiled by
S. G. Blankenbacker
S. G. Blankenbacker
Photogrammetry Division
Sept. - 1956

History of Hydrographic Information for T-11333

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

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

H-8239 1:20,000 1955

Blueprints 52897 and 52898, 1:20,000 of H-8240, 1955

H-8235 1:40,000 1955

Hydrography was compiled by J. J. Streifler and verified by Nautical Charts in September 1956.

J. J. Streifler

In reply address not the signer of this letter, but the Commander, Alaskan Sea Frontier.

HEADQUARTERS
ALASKAN SEA FRONTIER
NAVY No. 127 (BOX 14) % POSTMASTER
SEATTLE, WASHINGTON

REFER TO FILE
NO FF15-1/32
SERIAL 452

From: Commander, Alaskan Sea Frontier
To: U. S. Coast and Geodetic Survey

Subj: Security Review of Classified Areas; declassification of

Ref: (a) U. S. Coast Geodetic Survey ltr 734-cfl of 6 July 1956
(b) U. S. Coast Geodetic Survey ltr 734-efl of 25 July 1956

1. References (a) and (b) requested examination of three (3) manuscripts to possibly permit declassification, so that the charts might be made available for general distribution.

2. Concurrence has been received by this command from the Commanding Officer, U. S. Naval Station, Adak, Alaska, that the subject areas should be unclassified.

3. It is recommended that the entire manuscripts Nos. T-11330, T-11331, and T-11323 be unclassified.

4. In view of the foregoing, this command will retain custody of the manuscripts and, subject to concurrence of your office, will destroy same rather than dispatch the manuscripts themselves.

GEORGE B. RASER
By direction

Review Report
Topographic Map T-11330
August 1956

62. Comparison with Registered Topographic Surveys:

T-6941 U.S.N. 1:40,000 1933
T-6942 U.S.N. Rec. no scale 1933

Differences exist between these surveys. T-11330 with adequate control and completely detailed topographic survey is to supersede the above surveys for nautical charting purposes for common areas.

63. Comparision with Maps of other Agencies:

Adak Island (Sheets 3,4,7 and 8 of 10) AMS 1:25,000 1943

There is, generally good agreement in the topographic features of these two surveys. Shoreline and foreshore differ considerably, partially because of a difference in datum (local datum on AMS Maps). T-11330 appears more completely detailed, and will be printed by AMS to replace previous publication.

64. Comparison with Contemporary Hydrographic Surveys:

H-6888 U.S.N. 1:10,000 1933
H-8238 1:20,000 1955

Advance shoreline of T-11330 was furnished for Hydrographic Survey H-8238. In addition, Shoreline Survey T-11566 1:5,000 was accomplished to furnish shoreline and alongshore details for inset of hydrographic survey 8238 of Chapel Cove and Chapel Roads at scale 1:5,000. All surveys are in good agreement.

65. Comparison with Nautical Charts:

9121 Insets of 1:10,000 and 1:20,000 corrected to 52 - 8/25

9193 1:120,000 corrected to ~~52 - 1/28~~ 54 7/5

Differences exist between T-11330 and the listed Nautical Charts. Results of subject topographic survey and shoreline survey T-11566 will be applied to these nautical charts prior to next printing.

66. Adequacy of Results and Future Surveys:

Field inspection did not include interior features and not all offshore features were completely inspected. Minor errors in office interpretation may exist. Other than these, no deficiencies in accuracy and adequacy were indicated.

Reviewed by:

Josef J. Streffler

Approved:

R C Lande
Chief, Review & Drafting Sec.
Photogrammetry Division

Chief, Nautical Chart Branch
Charts Division

R W Swanson
Chief, Photogrammetry Division
13 Aug 1958

Chief, Coastal Surveys

62. Comparison with Registered Topographic Surveys

T-6941 (Topographic) 1:40,000 1933
T-6942 (Shoreline) 1:54,000 (approx.) 1933

Topography on T-6941 is indicated with form lines.

The shoreline and topography of CAMEL Cove and vicinity on T-11331 is more completely developed and supersedes the above surveys in this area.

63. Comparison with Maps of Other Agencies

Adak I. (Sheet 9 of 10) C. of E. 1:25,000 1943
Adak, Aleutian Islands A.M.S. 1:250,000 1954

The Corps of Engineers' map is based on grid coordinates, horizontal and vertical datums other than those used by the present survey. The topography of the C.E. map is shown with a 20-foot contour interval.

Shoreline and offshore detail on T-11331 shows more development than is found on the C. E. map.

The A.M.S. map is a copy of the Adak map at 1:250,000 scale compiled by USGS in 1951.

64. Comparison with Contemporary Hydrographic Surveys

H-8788 1:20,000 1955
H-8789 1:20,000 1955

Shoreline field inspection data for T-11331 was obtained in 1953-55 at the time the above hydrographic surveys ~~was~~ were made. Shoreline delineation on the preliminary map T-11331 was applied to the above hydrographic surveys and due to deep shadows and displacemwnt of features some of the shoreline was incomplete. During the final compilation the shoreline was completed with the aid of Air Force photographs of the area taken in 1943.

65. Comparison with Nautical Charts

Chart 9193 1:120,000 1953

The form lines shown on Chart 9193 were obtained from the 1933 topographic survey listed in paragraph 62 above.

The shoreline, offshore detail and topography shown with contours on T-11331 supersedes all previous surveys for future nautical chart revision and construction.

66. Adequacy of Manuscript

This ~~hydrographic~~ topographic survey complies with project instructions and Bureau standards.

Reviewed by:

L. Martin Gazik

L. Martin Gazik

Approved:

R C Landy

Chief, Review & Drafting Sec.
Photogrammetry Division

Chief, NauticalChart Branch
Charts Division

L W Swanson

Chief, Photogrammetry Division

13 Aug. 1958

Chief, Coastal Surveys

Review Report
Topographic Survey T-11332
September 1956

62. Comparison with Registered Topographic Surveys -

T-6941	1933	1:40,000
T-6940	1934	1:40,000

These surveys are ~~to be~~ superseded by T-11332 for nautical charting.

63. Comparison with maps of other agencies -

Adak Island (Sheet No. 10 of 10)	1943,	1:25,000
Kagalaska Island	1943	1:25,000

The AMS maps are based on local horizontal datum. The vertical datum is ocean surface at time of photography. There are numerous differences in alongshore features.

64. Comparison with Contemporary Hydrographic Surveys -

H-8071 1:10,000 1953

The shoreline and alongshore planimetry were transferred to the Hydro. Smooth Sheet from T-11332 prior to the compilation of topography in the Stereo. Instrument Section. No changes in shoreline or alongshore planimetry were made on T-11332 in this area during instrument compilation or review. The lake north of Kaga Point differs in configuration as shown on the two surveys.

H-8239 1:20,000 1955

The shoreline and alongshore planimetry were transferred to the Hydro Smooth Sheet from T-11332 prior to the compilation of topography in the Stereo Instrument Section. The change in configuration of rocks (lat. 51°44' - long. 176°29'), the addition of the kelp area near Boot Point and the change in rock configuration at hydro station Hex are shown in red on T-11332.

65. Comparison with Nautical Charts -

9141 1:30,000 corrected to 52 9/29

Differences in alongshore features exist.

66. Adequacy of Results and Future Surveys

This survey is adequate for Bureau requirements. No significant deficiencies in accuracy and adequacy were indicated.

Reviewed by:

S. G. Blankenbaker

S. G. Blankenbaker

(T-11332)

Approved:

L C Landy
Chief, Review & Drafting Sec.
Photogrammetry Division

Chief, Nautical Chart Branch
Charts Division

P W Swanson
Chief, Photogrammetry Division
13 Aug. 1958

Chief, Coastal Surveys

Review Report
Topographic Map T-11333
September 1956

62. Comparison with Registered Topographic Surveys

T-6940 U.S.N. 1:40,000 1934

T-11333 supersedes the above survey for nautical charting of common areas.

63. Comparison with Maps of other Agencies

Kagalaska Island AMS 1:25,000 1943

The topographic features between these two surveys are in good agreement, generally. Shoreline and foreshore detailing differ considerably.

64. Comparison with Contemporary Hydrographic Survey

H-8235 1:40,000 1955
H-8239 1:20,000 1955

All surveys are in good agreement.

65. Comparison with Nautical Charts

9141 1:30,000 corrected to 52 9/29
9193 1:120,000 " to 54 7/5

There are no major discrepancies between these surveys.

66. Adequacy of Results and Future Surveys

Field inspection of shoreline and offshore features appeared adequate. Interior detailing by office interpretation only. No deficiencies in accuracy and adequacy are indicated.

Reviewed by:

Joseph J. Streifler

Joseph J. Streifler

Approved:

L C Landy

Chief, Review & Drafting Sec.
Photogrammetry Division

Chief, Nautical Chart Branch,
Charts Division

W E Swanson

Chief, Photogrammetry Division
13 Aug 1958

Chief, Coastal Surveys

NAUTICAL CHARTS BRANCH

SURVEY NO. T. 11330

Record of Application to Charts

DATE	CHART	CARTOGRAPHER	REMARKS
8-4-67	9121	D.J. Romesburg	Part ~~Before~~ After Verification and Review Revised shoreline only
			Before After Verification and Review
			Before After Verification and Review
			Before After Verification and Review
			Before After Verification and Review
			Before After Verification and Review
			Before After Verification and Review
			Before After Verification and Review
			Before After Verification and Review
			Before After Verification and Review

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.

NAUTICAL CHARTS BRANCH

SURVEY NO. T. 11331

Record of Application to Charts

DATE	CHART	CARTOGRAPHER	REMARKS
5-24-60	9141	L.V.E.	~~Before~~ After Verification and Review
2/21/66	9193	John P. Willis	Before After Verification and Review Part. Applied in area of Ch. 9141. Final appl. could reconstructed
			Before After Verification and Review
			Before After Verification and Review
			Before After Verification and Review
			Before After Verification and Review
			Before After Verification and Review
			Before After Verification and Review
			Before After Verification and Review
			Before After Verification and Review

M-2158-1

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.

NAUTICAL CHARTS BRANCH

SURVEY NO. T. 11332

Record of Application to Charts

DATE	CHART	CARTOGRAPHER	REMARKS
5-24-60	9141	L.V.E.	~~Before~~ After Verification and Review
2-21-66	9193	J. T Weir	~~Before~~ After Verification and Review Partly appl in area of dt 9141 final app. with Reconstructed
			Before After Verification and Review
			Before After Verification and Review
			Before After Verification and Review
			Before After Verification and Review
			Before After Verification and Review
			Before After Verification and Review
			Before After Verification and Review
			Before After Verification and Review
			Before After Verification and Review

M-216B-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.

NAUTICAL CHARTS BRANCH

SURVEY NO. T. 11333

Record of Application to Charts

DATE	CHART	CARTOGRAPHER	REMARKS
5-24-60	9141	L.V.E.	~~Before~~ After Verification and Review
2-21-66	9193	J.P. Weir	~~Before~~ After Verification and Review Part. appl. in area of chart 9141 final appl. until reconstructed
12/30/92	16467	Joseph Robinson	~~Before~~ After Verification and Review T-11330, T 11331
			Before After Verification and Review
			Before After Verification and Review
			Before After Verification and Review
			Before After Verification and Review
			Before After Verification and Review
			Before After Verification and Review
			Before After Verification and Review

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.