
U. S. COAST AND GEODETIC SURVEY
DEPARTMENT OF COMMERCE

DESCRIPTIVE REPORT

Type of Survey
Topographic
T-11322

Field No. 6034
Office No. T-11323

LOCALITY

State Alaska

General locality Aleutian Islands, Andreevof Group.
Locality Adak Island

19/53-55

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
Chart 9141 - part app'd - consider final until recons

Chart 9119 - part applied - consider final until

it is reconstructed

11-8-66

[Signature]
DATA RECORD

T - 11322
T - 11323

Project No. (II): 7-6034
Quadrangle Name (IV): Adak Island

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):
Office memo 10 November 1954
Instruction for compilation,
Andreamof Islands, 31 October 1955

Method of Compilation (III): (shoreline Graphic Compilation

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): 3-23-55 Date reported to Nautical Chart Branch (IV): 3-30-56

Applied to Chart No. Date: Date registered (IV): 5/27/58

Publication Scale (IV):

Geographic Datum (III): N.A. 1927

Publication date (IV):

Vertical Datum (III):
Mean sea level except as follows:
Elevations shown as (25) refer to mean high water
Elevations shown as (2) refer to sounding datum
i.e., mean low water or mean lower low water

Reference Station (III):
Lat.: Long.:

Adjusted Unadjusted

Plane Coordinates (IV):
State: Zone:

Y= X=

U.T.M. grid, Zone No. 1

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

When entering names of personnel on this record give the surname and initials, not initials only.
Areas contoured by various personnel
(Show name within area)
(II) (III)
DATA RECORD

Field Inspection by (II): Control and shoreline inspection from Ship EXPLORER Date: 1954, 1955

Planetary 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): Austin Riley Date: 10-18-54
10-27-54

Projection and Grids checked by (IV): Howard Wolfe Date: 11-10-54

Control plotted by (III): Jeter Battley Date: 1-15-55
W. R. Kachel 1-20-55
W. Byron Hale 11-55
George Walker, Jr. 12-6-55

Control checked by (III): Martha Webber Date: 1-21-55
W. R. Kachel 1-24-55
Donald Carrier 11-55
K. N. Maki 12-6-55

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

Stereoscopic Instrument compilation (III): Pliametry

Manuscript delineated by (III): T-11322 - R. Sugden Date: 12-1-55
T-11323 - K. N. Maki shoreline 12-2-55

Photogrammetric Office Review by (III): K. N. Maki (Shoreline Date: 12-5-55
L. Levin (Planimetry & Contours) T-11322 1-10-56
T-11323 2-27-56

Elevations on Manuscript checked by (II) (III): Date:
**Camera (kind or source) (III): C & G S 9-Lens**

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**Tide (III)**

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

Subordinate Station: *Use Sweeper Cove*

Subordinate Station:

Washington Office Review by (IV): T-11322 Everett H. Ramsey

Final Drafting by (IV): T-11322 R. Kelly

Drafting verified for reproduction by (IV): T-11322 Wm. H. Haines

Proof Edit by (IV):

**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):**

Remarks: *Sweeper Cove*

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*Cape Kiguga to Ogilala Point*

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

"**See Photogrammetric Plot Report."
Summary to Accompany Topographic Maps T-11322 and T-11323

Maps T-11322 and T-11323 cover the northern part of Adak Island of the Aleutian Islands in Alaska. The most prominent features include Mt. Moffet and Mt. Adagdak. These maps were completed for publication as standard large-scale topographic quadrangles.

Shoreline features on these maps were compiled by graphic methods for use in hydrographic surveys. Topography and interior planimetry were compiled by the Reading Plotters sometime later. Field work in advance of compilation included the inspection of shoreline features and the identification of control. No field edit was accomplished. Coast and Geodetic Survey nine-lens photographs taken in 1953 and 1954 were used in the compilation supplemented by some single-lens photographs.

Items registered under these map numbers will include one combined descriptive report, cloth-backed prints of the map manuscripts and cloth-backed color prints of the published maps.
Local Field Inspection

(a) These maps cover most of Adak Island, all of Kagalaska Is., Ale Tanaga Is., and Great Sitkin Is. which are among the islands in the Aleutian Group. Adak Is. is the largest of these islands and is the most important in the Aleutian Group. Its importance is based on the fact that it is the site of the U.S. Naval Station, Adak, Alaska. The island is approximately 3 miles wide and 25 miles long. Its most prominent features are Mt. Moffett at the northwest end, Mt. Adak in the northern tip, and Cape Yakat, a large flat plateau at the southwest corner. The island is very mountainous and lakes of all sizes abound. The shoreline is markedly cut up into numerous bays and small inlets.

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

There are scattered groups of buildings (mostly present buildings) built by the Navy throughout Adak Island. Outlying areas where buildings were noted were the north end of Shagak Bay, the head of Boot Bay and Hidden Bay, at Cape Kigawa, at station C-AMC-USN, and at Cape Yakat. Which had been a fairly large establishment. All the buildings in these areas were apparently abandoned and in a state of disrepair.

Kagalaska Is. and Little Tanaga Is. are similar to Adak Is. with geographical features.

Great Sitkin Is. is approximately 10 miles long and 8 miles wide, with its predominant features being a small cinder cone of approximately 500 feet with a huge crater, a large lava dome on its northwest slope, a cinder cone specifically in the cinder cone, due to the almost constant fall of volcanic ash, and periodic lava flows are readily recognized on the excellent geological maps of the area. More serious inspection was accomplished by the north side of the island from Egle Point to the bay area just east 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 Saddle Point and Salton Point and Saddle Point and Target Point.

Sand Bay has a large amount of buildings and is an operational
(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 shoreline was dark enough to obscure the shoreline. Shoreline in those areas was approximated as close as its actual position as was practicable. No marked discrepancies were noted in office-controlled shoreline. See side heading 7 for list of minor discrepancies. Heights of shoreline pinnacles were estimated and no precise measurements were attempted.

(c) Quality of Photographs: The quality of the nineteen photographs was very good in most instances. Coverage on the north shore of Alar I. from Cape Mifflin to Andrew Bay was good on the field photos but there was considerable difficulty transferring selected photogrammetric prints to the poorer office prints. Deep shadow areas of shoreline in some areas around Bower 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  
BALSAM, 1947  
LEXA, 1947 and 1955  
TAMK, 1955  
WANG, 1955  
GULF, 1955  
RADIO TOWER, 1955

Station HEV (USN), 1933 was re-established on its original site. 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.

No datum adjustments were made by the field party.

(b) The following horizontal control of 2nd and 3rd order adjustments established by other agencies was identified:

<table>
<thead>
<tr>
<th>Agency</th>
<th>Year</th>
<th>Manuskript</th>
<th>Photo No.</th>
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<tr>
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<tr>
<td></td>
<td>1933</td>
<td>T-11322</td>
<td>46084</td>
</tr>
</tbody>
</table>
(a) The following stations required by the project instructions for control of compilation were not recovered or established and/or positively identified:

MDP (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, ACOEN, 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 fulfill the requirements and could be established with less difficulty and greater accuracy.

HD (USN), 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.

(b) 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:

<table>
<thead>
<tr>
<th>STATION NAME</th>
<th>MANUSCRIPT</th>
<th>PHOTO NO.</th>
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</thead>
<tbody>
<tr>
<td>DTV (USN), 1934</td>
<td>T-11328</td>
<td>41940</td>
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<tr>
<td>SID (USN), 1934</td>
<td>T-11535</td>
<td>41916</td>
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</table>

Station DTV (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 photogrammetric control.
AHAGAXIX (USH), 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:

<table>
<thead>
<tr>
<th>STATION NAME</th>
<th>MANUSCRIPT</th>
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<tr>
<td>FANG, 1955</td>
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<td>GULF, 1955</td>
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<td>ACORN, 1955</td>
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<td>BALK, 1955</td>
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<td>TANK, 1955</td>
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<td>LALAK, 1946</td>
<td>T-11328</td>
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<td>FRONT RANGE LN., 1946</td>
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<td>42102</td>
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<td>SCAB, 1943</td>
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<td>42103</td>
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<td>HED, 1943</td>
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<td>42103</td>
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<td>ROCK, 1954</td>
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<td>54-W-2864</td>
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<td>RADAR MAST, 1955</td>
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<td>BUCK, 1954</td>
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<td>CAME, 1954</td>
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<td>54-W-2874</td>
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<td>COVE, 1943</td>
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<td>ONT, 1945</td>
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<td>FINE, 1945</td>
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<td>SULPHUR POINT, OUTER ROCK, 1953</td>
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<td>SULPHUR POINT, ROCK NO. 2, 1953</td>
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<tr>
<td>ZHA POT SPRUT, 1953</td>
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<td>46074</td>
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<tr>
<td>ZHA POT ROCK, 1953</td>
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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, Hil Island, Cemetery Point, Andrew Bay, and Cape Kingilik. 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 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 KDH(UIN), 1934 are unchecke and computed elevations are completely dependent upon accuracy of identification.

(c) Vertical control points were established as follows:

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From KAH No. 1

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C  P-11232  82134
D  P-11233  82134
E  P-11234  82134
F  P-11235  82134
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R  P-11247  82134
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V  P-11251  82134
W  P-11252  82134
X  P-11253  82134
Y  P-11254  82134
Z  P-11255  82134
(4) Vertical control stations established did not fulfill 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 Elevations

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 Areas

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

7. Shoreline and Allogenic Features

(a) The map high-water line was indicated at intervals in areas where clearly visible, and in areas where the shoreline was indistinct or obscured by shadow. This 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 manuscript.

(1) Poor delineation of shoreline in group of small islands at east side of Adkox Bay. On the north side of Alek. 7. more recent photos are much better.

(2) At 51° 42.3' and 176° 36' small inlet 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° 42.2', 176° 31.5': no

(5) At 51° 42.2', 176° 39.4': rocks visible on photos

(6) At 51° 41.3', 176° 32.3' and at 51° 42.1', 176° 32.6': there are no changes in these areas.
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 corresponded to the high water line, as at sheer rock ledges or cliffs. A line close to or far line was indicated in many instances where it was considered helpful or necessary. In most instances relatively deep water extends right up to the beach line and inshore soundings 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 Kalak on Adak Island and Sand Bay on Great Sitkin Island.

9. Offshore features

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

10. Landmarks and aids

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

11. Boundaries, Monuments and lines

Inapplicable.

12. Other Coastal

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

Note: Added: [Date]

Photo-tyde 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.

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

Other supplemental data:

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<th>Transmittal letter date</th>
<th>to Wash.</th>
<th>Tng 467</th>
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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
Additional Work

Manuscript T-11566 was a supplemental sheet of scale 1:15,000 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:

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<td>Zoo</td>
<td>no graphic location</td>
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<tr>
<td>Yak</td>
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It is requested that photogrammetric locations for signals Zoo and Yak be furnished with Manuscript T-11566.

S. L. Hollis  
Lieutenant, CGGS

Approved and Forwarded:

S. B. Grenell  
Capt., CGGS  
Commanding Ship EXPLORER
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<th>MAP</th>
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*NOTE: T-11537 and T-11538 - photographs with shoreline notes previously submitted.*
PHOTO-HYDRO STATIONS

T-1322

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Uoe 39067  Jig 42133  Poi 42171  Pad 4214
Ump 39069  Job 42162  Sac 42171  Pus 41905
Vet 39067  Joe 41940  Sat 42169  Que 42195
Act 46084  Wax 39067  Jug 42135  Manuscript  Stg 41905
Bav 41959  Woe 39068  Kim 42162  Man 41905
Cad 39072  You 39068  Kit 42135  T-1330  Rec 41906
Deg 41959  You 39067  Knt 42162  Aid 41905
Ett 39071  Zig 39068  Lar 42135  Abe 42141  Tex 41905
Fal 41960  Zee 39067  Lye 42162  Are 41904  Too 41906
Gaa 41960  Man 42134  Ben 41905  Val 41905
Hag 39072  Manuscript  Mar 42134  Bab 42141  Van 41906
Inf 39072  Manuscript  T-1327  Nog 42135  Boc 42105
Jim 39073  Manuscript  T-1328  Nov 42134  Bix 41906
Kel 39072  Manuscript  Oak 42135  Cox 41905
Lip 39072  Manuscript  Pop 41941  Caw 42141
Uff 39072  Manuscript  T-1323  Die 42169  Zim 42142

Manuscript
T-1323

Ale 41940  Fit 42162  Dan 42141  Manuscript  T-1331
Alp 39068  Age 42162  Fow 42133  Dan 42141
Alp 39067  Ashe 42163  Fow 41940  Dar 42141
All 39068  Age 42135  Fow 42134  Eve 41905
Amy 39067  Bag 42162  Foc 42162  Kel 42141
Beg 39067  Bar 41940  Foc 42134  Fitz 41905
Cub 39068  Bar 41940  Ford 42162  Fox 42141
Cue 39082  Bin 42162  Tim 41940  Gary 41905
Dav 39068  Bin 42162  Tim 41940  Gin 41905
Dud 39082  Bin 42135  Tim 42134  Gun 41915
Eli 39068  Boy 42135  Tim 42134  Ham 42171
Ewe 39082  Cae 42140  Una 42162  Han 42195
Ewe 39068  Can 42135  Una 42162  Her 41905
Fen 39068  Can 42135  Una 42162  Hey 42141
Gal 39068  Can 42135  Una 42162  Hey 42141
Gae 39068  Can 42135  Una 42162  Hey 42141
Hat 39068  Can 42135  Una 42162  Hey 42141
Ira 39068  Can 42135  Una 42162  Hey 42141
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Kin 39068  Eva 42162  Zoe 42162  Jen 42141
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Mon 39067  Fie 42162  T-1329  Jen 42141
Neo 39067  Fie 42162  T-1329  Jen 42141
Pan 39069  Fun 42162  Add 42171  Jen 41905
Odd 39067  Gaf 41940  Bah 42171  Jen 41905
Old 39069  Gaf 41940  Bah 42171  Jen 41905
Pie 39069  Gae 42162  Del 42171  Jen 41905
Pop 39069  Gae 42162  Del 42171  Jen 41905
Rat 39067  Haz 42140  Ego 42171  Mag 41905
Bax 39069  Haz 42140  Ego 42171  Mag 41905
Set 39069  Haz 42140  Ego 42171  Mag 41905
Set 39069  Haz 42140  Ego 42171  Mag 41905
Sky 39067  Ili 42133  Geo 42171  Mag 41905
Tha 39067  Ili 42133  Geo 42171  Mag 41905
Tit 39069  Ivy 42135  Gra 42171  Mag 41905

Manuscript

T-11566

Ave 54-W-2866
Che 2866
Did 2866
Eat 2866
Joy 2866
Car 2866
Hit 2866
Ish 2872
Kal 2873
Lek 2873
Moo 2873
Nat 2873
Oba 2873
Pas 2873
Pat 2873
Say 2873
Ten 2873
Um 2873
Yak 2874
Zoo 2874

* See side heading 15. *
PHOTOGRAHMETRIC PLOT REPORT
Project 7-6034 (Ph-34)
Adak Island, Alaska

The final photogrammetric plot report covering T-11322, T-11323, T-11326 thru T-11328 and T-11330 thru T-11333 is included in the combined descriptive report for T-11326 thru T-11328.
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1 FT = 3048000 METER

COMPUTED BY: C. O. DeMarr DATE 9 Jun: 1955
CHECKED BY: J. E. E. DATE 9 Jun: 1955
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1 FT. = 0.3048006 METER

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<th>DATUM CORRECTION</th>
<th>N.A. 1927 - DATUM DISTANCE FROM GRID OR PROJECTION LINE IN METERS</th>
<th>FACTOR DISTANCE FROM GRID OR PROJECTION LINE IN METERS</th>
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<tbody>
<tr>
<td>FOLLY (USN)</td>
<td>1944 V 169</td>
<td>1927</td>
<td>51-57-22.219</td>
<td>176-37-08.760</td>
<td>686.7</td>
<td>1167.8</td>
<td>167.3</td>
<td>978.5</td>
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<tr>
<td>DREW (USE)</td>
<td>1944 V 170</td>
<td>&quot;</td>
<td>51-56-53.527</td>
<td>176-39-46.583</td>
<td>1654.4</td>
<td>200.1</td>
<td>889.7</td>
<td>256.3</td>
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<tr>
<td>AL 11 (USN)</td>
<td>1943 V 170</td>
<td>&quot;</td>
<td>51-55-52.828</td>
<td>176-38-35.092</td>
<td>1632.8</td>
<td>221.6</td>
<td>670.5</td>
<td>476.0</td>
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<tr>
<td>RADIO (USE)</td>
<td>1942 V 169</td>
<td>&quot;</td>
<td>51-54-45.771</td>
<td>176-39-17.535</td>
<td>1414.6</td>
<td>439.8</td>
<td>335.2</td>
<td>811.7</td>
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<tr>
<td>PAL (USN)</td>
<td>1943 V 169</td>
<td>&quot;</td>
<td>51-54-37.676</td>
<td>(Not plotted)</td>
<td>1164.5</td>
<td>689.9</td>
<td>677.1</td>
<td>469.9</td>
</tr>
<tr>
<td>RED (USE)</td>
<td>1942 V 171</td>
<td>&quot;</td>
<td>51-53-15.636</td>
<td>176-38-17.355</td>
<td>(See HE, 1945)</td>
<td>483.3</td>
<td>1371.1</td>
<td>331.9</td>
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<tr>
<td>RF4</td>
<td>1945 V 172</td>
<td>&quot;</td>
<td>51-54-33.722</td>
<td>176-36-35.695</td>
<td>1042.2</td>
<td>812.2</td>
<td>682.1</td>
<td>464.5</td>
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<tr>
<td>HE</td>
<td>1945 V 174</td>
<td>&quot;</td>
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<tr>
<td>OIL</td>
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<td>&quot;</td>
<td>51-54-33.207</td>
<td>(Not plotted)</td>
<td>1026.3</td>
<td>828.1</td>
<td>874.7</td>
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<tr>
<td>MAX</td>
<td>1944 V 175</td>
<td>&quot;</td>
<td>51-54-49.505</td>
<td>176-34-45.756</td>
<td>1530.1</td>
<td>324.3</td>
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<td>16.1</td>
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<tr>
<td>BALSÁ</td>
<td>1955 Field</td>
<td>&quot;</td>
<td>51-58-53.932</td>
<td>176-37-55.110</td>
<td>1666.9</td>
<td>187.5</td>
<td>1014.8</td>
<td>93.2</td>
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<td>TANK</td>
<td>1955 Field</td>
<td>&quot;</td>
<td>51-59-37.424</td>
<td>176-36-36.622</td>
<td>1156.7</td>
<td>697.8</td>
<td>546.1</td>
<td>598.7</td>
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</table>

1 FT = 30.48006 METER
COMPUTED BY: G. O. DeMarr DATE: 10 January 1955
CHECKED BY: J. E. Hundley and D. Carrier DATE: 12 January 1955

(Photogrammetry)
<table>
<thead>
<tr>
<th>STATION</th>
<th>SOURCE OF INFORMATION (INDEX)</th>
<th>DATUM</th>
<th>LATITUDE OR y-COORDINATE</th>
<th>DISTANCE FROM GRID IN FEET, OR PROJECTION LINE IN METERS</th>
<th>DATUM CORRECTION</th>
<th>N.A. 1927-DATUM DISTANCE FROM GRID OR PROJECTION LINE IN METERS</th>
</tr>
</thead>
<tbody>
<tr>
<td>Eclipse, 1948</td>
<td>V 442</td>
<td>NA 1927</td>
<td>51-58 28.077</td>
<td></td>
<td>-</td>
<td>836.9 1017.5</td>
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<tr>
<td>Old Radar</td>
<td>V 412</td>
<td>&quot;</td>
<td>51-59 41.124</td>
<td></td>
<td>-</td>
<td>721.2 424.1</td>
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<tr>
<td>Tower, 1948</td>
<td></td>
<td></td>
<td>51-36 17.779</td>
<td></td>
<td>-</td>
<td></td>
</tr>
</tbody>
</table>

Plot: L. Levin Date: 2-27-56
Checked: W. Heinbaugh Date: 2-27-56
31. **DELINEATION:**

Shoreline and foreshore areas were delineated on the map manuscript by graphic methods. Field inspection was available for both surveys. Features shown were first drawn on sections of vinylite worksheet material superimposed on the photograph having the best combination of near manuscript scale and clear image quality. Graphic methods were then used to compile and delineate the MHWL and to adjust the detail to manuscript scale.

The topography and planimetry were compiled on the Reading Nine-Lens plotter Model "A". The instrument worksheets were adjusted to the radial plot pass points and attached to the shoreline manuscript.

Some disagreement was found between the instrument compilation and graphic compilation of the shoreline due to dense shadow areas, surf action and clouds. These differences were resolved with the use of 1943 U. S. Navy single lens photography, which were relatively free of shadow, clouds and surf action. The corrected shoreline has been indicated in red on the manuscript.

The 1943 single-lens photos were also used to fill in small areas of contouring which were obscured by clouds or shadow on the nine-lens photos. This was done by using the contact prints on the Reading plotter, removing as much of the tilt as possible by rotation of the photos and correcting the scale with the Salzman Projector.

No field inspection was available for the delineation of cultural detail. The classification of the roads was accomplished by photo interpretation; i.e., roads which appeared to be paved and/or graded were shown with the double full line symbol. All others were shown with double dash line and narrow roads or paths with the trail symbol. Much of the intricate network of roads within the military base was omitted. All buildings, piers and tanks which were visible on the photos were delineated.

32. **CONTROL:**

Horizontal control was adequate and provided a rigid well-fixed radial plot. Refer to the photogrammetric report which includes surveys T-11322, T-11323, T-11326 thru T-11328 and T-11330 thru T-11333. This report also includes the area of Piper Cove and Cape Chisak or T-11553.

The vertical control was adequate. The majority of the models were rectified and oriented from shoreline with the peak elevations used as a check. Minor discrepancies were noted between elevations shown by the photogrammetric field party and those listed with the published G.P.s. The published elevations have been shown on the manuscript.
33. SUPPLEMENTAL DATA:

   T-6930  1:20,000  1943
   T-7000  1:10,000  1945

   These surveys were compared with T-11322 and T-11323 but no data were applied from them.

   Contact prints of AAF 1/26,000, 1943 photography - Strips 6, 7, 8, 9, 7/27/43.

34. CONTOURS AND DRAINAGE:

   No difficulty other than that discussed in No. 31 was encountered in delineating the contours or drainage.

35. SHORELINE AND ALONGSHORE DETAILS:

   Shoreline inspection was generally adequate. Occasional sections of shadowy shoreline might have been clarified during field inspection. Much of the foreshore is closed off by a foul line. Foreshore ledge is shown in only occasional areas since field inspection did not provide any limiting line. The foul line may in some instances approximate the foreshore ledge limits.

36. OFFSHORE DETAILS:

   No comment.

37. LANDMARKS AND AIDS:

   Form 567 has been submitted for a landmark "TORER." This position was determined from the final plot and supersedes the preliminary plot position.

38. CONTROL FOR FUTURE SURVEYS:

   Refer to side heading 49 for the list of photo-hydro stations.

   There are no recoverable topographic stations on these surveys.

39. JUNCTIONS:

   The adjoining sheets have not been compiled as of the date of this report.
40. **HORIZONTAL AND VERTICAL ACCURACY:**

Refer to photogrammetric plot report; also Side-heading 32.

46. **COMPARISON WITH EXISTING MAPS:**

Adak Island sheets Nos. 1, 2 and 5, C.E. 1943 1:25,000

47. **COMPARISON WITH NAUTICAL CHARTS:**

<table>
<thead>
<tr>
<th></th>
<th>Scale</th>
<th>Corr. Date</th>
</tr>
</thead>
<tbody>
<tr>
<td>9141</td>
<td>1:30,000</td>
<td>9/29/52</td>
</tr>
<tr>
<td>9193</td>
<td>1:120,000</td>
<td>7/5/54</td>
</tr>
</tbody>
</table>

Items to be applied to Nautical Charts immediately - None
Items to be carried forward - None.

Approved:  

Submitted:

K. N. Makl  
Supervisory Photogrammetric Engineer

Louis Levin  
Supervisory Cartographer
PHOTOGRAMMETRIC OFFICE REVIEW

T-11322, T-11323

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

CONTROL STATIONS

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

ALONGSHORE AREAS
(Nautical Chart Data)

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

PHYSICAL FEATURES

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

CULTURAL FEATURES

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

BOUNDARIES

31. Boundary lines
32. Public land lines

MISCELLANEOUS

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

40. Reviewer

Supervisor, Review Section or Unit

41. Remarks (see attached sheet)

FIELD COMPLETION ADDITIONS AND CORRECTIONS TO THE MANUSCRIPT

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

Supervisor

43. Remarks:

M-2623-17
History of Hydrographic Information for T-11322

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:

Blueprints 51873, 51927, 51928, 52892, 52893 and 52894 (boat sheets of hydrographic surveys of 1954)

Hydrographic Survey H-681, 1:40000, 1933

Nautical Charts 9121, 1947, corrected to 52-8/25 and 9193, 1953, corrected to 54-7/5

Hydrography was compiled by Lena T. Stevens on 17 February 1956 and verified by O. Svendsen on 24 February 1956.

Lena T. Stevens
History of Hydrographic Information for T-11323

Hydrography was added to the map manuscript in accordance with Army Map Service Technical Instructions.

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

- H-7182 1:20,000 1946
- H-7078 1:10,000 1945
- H-6971 1:4,800 1944
- H-6916 1:4,800 1943
- H-6910 1:10,000 1943

Chart 9141, 1:30,000, 1944 revised to 1952

Hydrography was compiled by L. C. Lande, 18 September 1956, and verified by O. Svendsen.

L. C. Lande
CONFIDENTIAL - Unclassified upon removal of encl (1)

Receiv: Commander, Alaskan Sea Frontier

To: Director, U.S. Coast and Geodetic Survey

Topographic maps; security review of
(a) USCGS 1954 off of 5 April 1956

Encl: (1) Maps (manuscripts) No. T-11326, T-11324, and T-11329

By reference (a), Commander, Alaskan Sea Frontier was requested to review the topographic maps, returned herewith as enclosure (1), to determine if classified information is contained thereon which would prohibit general distribution.

The maps in question have been reviewed by this Command and finds no information of a classified nature which would prohibit general distribution. It is considered that the maps as now appearing to be unclassified.

H. T. HASELTON
By direction
From: Commander, Alaskan Sea Frontier
To: U. S. Coast and Geodetic Survey

Sub: 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 724-cfl of 25 July 1955

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
I recommend that the following objects which have (have not) been inspected from seaward to determine their value as landmarks be charted on (deleted from) the charts indicated.

The positions given have been checked after listing by [name]

K. N. Maki  
Chief of Party

<table>
<thead>
<tr>
<th>STATE</th>
<th>CHARTING NAME</th>
<th>DESCRIPTION</th>
<th>SIGNAL NAME</th>
<th>LATITUDE</th>
<th>LONGITUDE</th>
<th>DATUM</th>
<th>METHOD OF LOCATION AND SURVEY No.</th>
<th>DATE OF LOCATION</th>
<th>CHARTS AFFECTED</th>
</tr>
</thead>
<tbody>
<tr>
<td>Tower</td>
<td>Tower inland and on ridge</td>
<td>51 59 (774°)</td>
<td>176 36 (775°)</td>
<td>1927</td>
<td>Radial Plot</td>
<td>1955</td>
<td>x</td>
<td>9193</td>
<td></td>
</tr>
</tbody>
</table>

#This is a final position,
determined by photogrammetric methods and supersedes any previous position submitted.

Spt. Brandt states there was no loan tower in this area during the 1955 survey.

Em. 2-13-57

This form shall be prepared in accordance with Hydrographic Manual, pages 800 to 804. Positions of charted landmarks and nonfloating aids to navigation, if redetermined, shall be reported on this form. The data should be considered for the charts of the area and not by surver; sheets. Information under each column heading should be given.
I recommend that the following objects which have (have=not) been inspected from seaward to determine their value as landmarks be charted on (deleted from) the charts indicated.

The positions given have been checked after listing by G. Amburn

<table>
<thead>
<tr>
<th>STATE</th>
<th>CHARTING NAME</th>
<th>DESCRIPTION</th>
<th>SIGNAL NAME</th>
<th>LATITUDE*</th>
<th>LONGITUDE*</th>
<th>DATUM NA</th>
<th>METHOD OF LOCATION AND SURVEY No.</th>
<th>DATE OF LOCATION</th>
<th>HARS'S CHART NUMBER</th>
<th>CHARTS AFFECTED</th>
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<td>370.</td>
<td>1927</td>
<td>Radial Plot</td>
<td>T-113723</td>
<td>1955</td>
<td>x 9193</td>
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</table>

*This is a final position,
determined by photogrammetric methods and supersedes any previous position submitted.*

This form shall be prepared in accordance with Hydrographic Manual, pages 800 to 804. Positions of charted landmarks and nonfloating aids to navigation, if redetermined, shall be reported on this form. The data should be considered for the charts of the area and not by individual field survey sheets. Information under each column heading should be given.
I recommend that the following objects which have been inspected from seaward to determine their value as landmarks be charted on the charts indicated.

The positions given have been checked after listing by C. Lesburn

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<thead>
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<th>DESCRIPTION</th>
<th>SIGNAL NAME</th>
<th>LATITUDE</th>
<th>LONGITUDE</th>
<th>DATUM</th>
<th>METHOD OF LOCATION AND SURVEY NO.</th>
<th>DATE OF LOCATION</th>
<th>CHARTS AFFECTED</th>
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</thead>
<tbody>
<tr>
<td>Tower</td>
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<td>51 59</td>
<td>170 36</td>
<td>1927</td>
<td>Plot</td>
<td>1955</td>
<td>x 9399</td>
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This is a final position, determined by photogrammetric methods and supersedes any previous position submitted.

This form shall be prepared in accordance with Hydrographic Manual, pages 800 to 804. Positions of charted landmarks and nonfloating aids to navigation, if redetermined, shall be reported on this form. The data should be considered for the charts of the area and not by individual field survey sheets. Information under each column heading should be given.
48. GEOGRAPHIC NAME LIST

T-11322:
Andreenof Islands
   Adak Island
   Mt Moffett
   Andrew Bay
   Cape Moffett
   Cape Kigug
   Shagak Bay
   Alaska
   Aleutian Islands
   North Spit

T-11323:
Kuluk Bay
   Cape Adagdak
   Andrew Bay
   Andrew Lake
   Clam Lagoon
   Zeto Point
   Bering Sea
   Adak Island
   Head Rock
   Mt Adagdak
   Alaska
   Aleutian Islands
   Kuluk Shoal
   Sitkin Sound
   Andreenof Islands

Names approved
5-7-67 L. Heck
49. Notes for the Hydrographer

Hydrographic signals located by radial plot and sextant cuts.

ACT - DOG -
UFI - EAT -(Office Ident.)
BAW - FAL -
CAD -(Sextant cut check) GAM -(From sub.Sta.)

HAG -
INK -
JIM -(Pos. Questionable)
KEL -
LIP -(Sextant cuts)

Twelve photo-hydro signals for which field identification was furnished were located by radial plotting methods. The position of station LIP is to be determined from the sextant cuts due to lack of photograph coverage.
49. Notes for the Hydrographer

Hydrographic signals located by radial plot:

Mac  Jog
Nun  Kin
Old  Lid
Pie  Mon
Rex  Neo
Set  Odd
Tit (from sub. sta.)  Pup
Ump  Rat
Vic (office identified)  Shy
Woo  The
Yon  Use
Zig  Vet (not located—no photo coverage)
Ade  
Bed  Wax
Cub  You
Dav  Zee
Eli  Alp
Fem  Bog
Gad  Cut
Hat  Dud
Ira (sextant cuts) position shown on map is office location

Forty photo-hydro signals for which field identification was furnished were located by radial plotting methods. Photo-hydro station "Vic" was located by office identification as was station "Ira". Sextant cuts shown on the black line impression by the field party checked the photo-plot position of the latter station. The location of station "Vet" was omitted due to lack of photograph coverage.
Review Report
Topographic Maps T-11322 and T-11323
13 April 1956

62. **Comparison with Registered Topographic Surveys:**

<table>
<thead>
<tr>
<th>Map</th>
<th>Scale</th>
<th>Date</th>
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</thead>
<tbody>
<tr>
<td>T-6941</td>
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<td>1933</td>
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<tr>
<td>T-5616</td>
<td>1:10000</td>
<td>1943</td>
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<tr>
<td>T-6930a</td>
<td>1:20000</td>
<td>1943</td>
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<tr>
<td>T-7000a</td>
<td>1:10000</td>
<td>1946</td>
</tr>
<tr>
<td>T-7035</td>
<td>1:10000</td>
<td>1946</td>
</tr>
</tbody>
</table>

Filing shown on T-7000a at lat. 51°53.8' was not field inspected in T-11323. Minor differences in representing alongshore areas, but T-11322 and T-11323 are sufficiently complete and detailed for nautical charting. Except as noted above, T-11322 and T-11323 are to supersede the above surveys for nautical charting purposes for common areas.

63. **Comparison with Maps of Other Agencies:**

Adak Island (Sheets 1, 2, 4 and 5 of 10) (AMS) 1:25000 1943

Differences exist in shoreline, cultural and topographic features. There is also a difference in datum of several hundred meters (difference between Local Datum and NA 1927 Datum).

64. **Comparison with Contemporary Hydrographic Surveys:**

H-8236 1:20000 1955 (unverified)

Slight changes in shoreline have been made to T-11322 and T-11323 since advance copies of these surveys were used in compiling H-8236. These changes are indicated on the map manuscripts in red.

65. **Comparison with Nautical Charts:**

<table>
<thead>
<tr>
<th>Chart</th>
<th>Scale</th>
<th>Date</th>
</tr>
</thead>
<tbody>
<tr>
<td>9141</td>
<td>1:30,000</td>
<td>corrected to 52-9/29</td>
</tr>
<tr>
<td>9193</td>
<td>1:120,000</td>
<td>corrected to 54-7/5</td>
</tr>
</tbody>
</table>

Charts show a landmark "SPIKE" at lat. 51°53.6' - long. 176°38.4' which is not discernable on the aerial photographs. Pending a field check, it probably should be deleted from the charts. The charts show a landmark "FLAGPOLE" at the same position as triangulation station "RADIO MAST." Because landmarks were not covered in this phase of work (see Side-heading 9 of the Field Inspection Report), Forms 567 were not submitted. Some differences exist between these charts and T-11322 and T-11323 for shoreline and interior features.
66. Adequacy of Results and Future Surveys:

The field inspection did not include an inspection of roads and buildings. (See Side-heading 31.) Not all offshore features were completely inspected and these features are subject to minor errors in office interpretation. Other than these items, no deficiencies in accuracy and adequacy were indicated.

Reviewed by:

Everett H. Ramey

APPROVED:

La Lande
Chief, Review and Drafting Section
Photogrammetry Division

Chief, Nautical Chart Branch
Charts Division

Chief, Photogrammetry Division
13 Aug. 1958

Chief, Coastal Surveys Division
# Nautical Charts Branch

**Survey No. T 11323**

**Record of Application to Charts**

<table>
<thead>
<tr>
<th>DATE</th>
<th>CHART</th>
<th>CARTOGRAPHER</th>
<th>REMARKS</th>
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<tr>
<td>1-13-61</td>
<td>9141</td>
<td>L.V.E.</td>
<td>Before After Verification and Review</td>
</tr>
<tr>
<td>11-6-61</td>
<td>9119</td>
<td>W.H.</td>
<td>Before After Verification and Review</td>
</tr>
<tr>
<td>2/3/61</td>
<td>9193</td>
<td>John P. Wei</td>
<td>Before After Verification and Review</td>
</tr>
<tr>
<td>12/20/92</td>
<td>16467</td>
<td>Joseph Robinson</td>
<td>Before After Verification and Review</td>
</tr>
</tbody>
</table>

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. 11322**

**Record of Application to Charts**

<table>
<thead>
<tr>
<th>DATE</th>
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<th>REMARKS</th>
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</thead>
<tbody>
<tr>
<td>3-7-67</td>
<td>9121</td>
<td>D.J. Ramesburg</td>
<td>Before After Verification and Review</td>
</tr>
</tbody>
</table>

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.