DESCRIPTIVE REPORT

Topographic Sheet No. K - F - 35
Hydrographic

State ALASKA

LOCALITY

EAST END OF TIGALDA ISLAND,
ALEUTIAN ISLANDS,

ALASKA

1935

CHIEF OF PARTY

A. M. SOBERALSKI, H. & G. E.

Applied to drawing of Chart No. 8802.  S. B. Mainz, June, 1937.

Applied to compilation of Chart No. 8720.  G. N. S., Mar. 17, 1938.
DEPARTMENT OF COMMERCE
U. S. COAST AND GEODENTIC SURVEY

TOPOGRAPHIC TITLE SHEET

The Topographic Sheet should be accompanied by this form, filled in as completely as possible, when the sheet is forwarded to the Office.

Field No. K - F - 35 6457

REGISTER NO.

State: ALASKA

General locality: ALEUTIAN ISLANDS

Locality: EAST END OF TIGALDA ISLAND

Scale: 1-20,000 Date of survey: JULY - AUGUST, 1935

Vessel: U. S. C. & G. S. S. "SURVEYOR"

Chief of Party: A. M. SOBIERALSKI

Surveyed by: C. J. WAGNER & E. H. SHERIDAN

Inked by: C. J. WAGNER

Heights in feet above M. H. W. to ground to top of trees

Contour: Approximate contour, Form line interval: 100 feet

Instructions dated: APRIL 13, 1934

Remarks:

--------------------------------------------------

O P O
DESCRIPTIVE REPORT
to accompany
TOPOGRAPHIC SHEET K-F-35
PROJECT - H.T. 176

A. M. Sobieralski, Commanding -o- U. S. C. & G. S. S. SURVEYOR

Instructions dated: April 13, 1934.

Extent: This sheet covers the eastern end of Tidal Island and all of Kaligagan Island, Aleutian Islands, Alaska.

General Description of the Coast:

Tidal Island is mountainous and covered with tundra. The east and southeast coasts are generally bluffs, ranging from less than 100 feet to as high as 1450 feet. The north coast is low bluffs with gentle slopes back up to the high hills. The north coast is broken by one large bay, Tidal Bay and a small bay, locally known as Welcome Bay. The latter is a new geographic name. Northeast of Tidal Island are many rocky islets extending about 1-3/4 miles offshore. Some of these islets are grass covered, but all have rocky shores, except the one's just north of the north side of Tidal Bay. These islets have gravel beaches in a few places.

Kaligagan Island is the small island northeast of Tidal Island, and is high on the south end sloping down to the north end. The coast is rock and tundra bluffs, high on the south end and low at the north end. The one small bight at the northwest end has a shack at its head, and the head of the bight is the only place where the shoreline is not backed by bluffs.

Prominent Features:

The tall pinnacle, @ 616, Lat. 54 - 04.3 and Long. 165 - 01.3 is very distinctive. An arch through the rock gives it the appearance of a huge chair.

Character of Control used:

Triangulation stations approximately 2 miles apart, except for the stretch of shoreline around the southeast end of Tidal Island, furnished control for the survey.
Character of Control used: continued:

The position of the triangulation stations is based on the 1934 computations.

The field work was done by graphic triangulation and traverse. The only traverse was run from Lax 1934 to Bridge 1934. Due to length of this traverse and exposed coast, it was run in two sections with junction in the middle at 0 Gor. E. H. Sheridan ran the traverse from Lax 1934 to 0 Ses and tied in to 0 Gor by azimuth only. The traverse from Bridge to 0 Gor was run by C. J. Wagner. The position of 0 Gor was obtained from the intersection of a cut from near Lax and another cut from near Bridge. The traverse by E. H. Sheridan checked well in azimuth and the one by C. J. Wagner was cut only 8 meters from the intersection of cuts at 0 Gor. It was believed that the whole 8 meters was in a very long rod reading which had to be made from near 0 Pat to 0 Que. There was no way to get set-ups on the point at 0 Pat that would see anything to the northwest of 0 Que. Accordingly the whole error was applied to this distance and the traverse adjusted from Que to 0 Gor only. There appeared to be no jump in position when doing hydrography around this side of the island and the location of the signals and shoreline on this sheet is believed to be within the limits of accuracy prescribed by the Topographic Manual.

Description of Auxiliary Surveying Methods:

The offlying features were located by graphic triangulation, triangulation and stadia.

Verification of Form Lines from Offshore:

The form lining was accomplished by the topographer in the field by obtaining elevation of all peaks or other objects, which could be identified and located. Sextant fixes were taken from the launch WILDCAT to obtain the position of the peaks at the southwest end of the sheet. The form lining was accomplished mainly from the launch WILDCAT.

Junction with former or adjacent work:

This sheet joins sheet K-E-35 (Field Number) satisfactorily.

This sheet covers part of the area covered by sheet T-2546. T-2546 was done on a scale of 1-40,000 and no comparison of shoreline was made. Sheet K-E-35 was done on a scale of 1-20,000 and should be accepted for the shoreline and offlying features. The form-
Junction with former or adjacent work - continued:

lining of the two sheets agrees very well, except for the northeast point of Tigalda Island. Sheet T-2546 shows two small hills here. This point is undulating, but no elevations were obtained here as it was impossible to identify the small knolls from two set-ups. The formlining of K-F-35 is believed to be without appreciable error.

New Geographic Names:

The small bay southwest of the entrance to Tigalda Bay is given the name of "Welcome Bay". The natives in Akutan Village refer to this bay by that name, which is the only authority that could be obtained for a name.

The names that are inked are from Chart 8860.

Photographs:

No photographs in this area were obtained.

Evidence of changing:

No evidence of submergence or emergence of the coast was noted.

Character of Marshes:

No marshes in area covered by the sheet.

Statistics:

Statute miles of shoreline.............30.0
Area in square statute miles...........18.0

Approved & forwarded:

A. M. Sobieralski,
Commanding Officer,
Str. SURVEYOR.

Respectfully submitted,

Clifton J. Wagner,
Jr. E. & G. E.
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N 234
MEMORANDUM
IMMEDIATE ATTENTION

SURVEY DESCRIPTIVE REPORT
PHOTOSTAT OF
No. H 6457

received APR 21 1936
registered MAY 20 1933
verified reviewed approved

This is forwarded in order that your attention may be directed to the matters as indicated below. Please initial in column 3 as an acknowledgement that your attention has been thus directed. The complete original records are available if desired. If you cannot give this your immediate attention, please initial, note, and forward to the next section marked, calling for the records at your convenience.

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RETURN TO

82
REVIEW OF TOPOGRAPHIC SURVEY No. 6457

Title (Par. 56) East End of Tigalda Island, S.W. Alaska

Chief of Party: A.M. Suberciński. Surveyed by C.J. Wagner Inked by C.J. Wagner

Ship: Surveyor Instructions dated April 13, 1934. Surveyed in July-August 1935

1. The survey and preparation for it conform to the requirements of the Topographic Manual. (Par. 7, 8, 9, 13, 16.)

2. The character and scope of the survey satisfy the instructions.

3. The control and closures of traverses were adequate. (Par. 12, 29.)

4. The amount of vertical control that the Manual specifies for contours-formlines- was accomplished. (Par. 18, 19, 20, 21, 22, 23.)

5. The delineation of contours-formlines- is satisfactory. (Par. 49, 50.)

6. There is sufficient control on maps from other sources that were transmitted by the field party to enable their application to the charts. (Par. 28.) None submitted.

7. High water line on marshy and mangrove coast is clear and adequate for chart compilation. (Par. 16a, 43, 44.)

8. The representation of low water lines, reefs, coral reefs and rocks, and legends pertaining to them is satisfactory. (Par. 36, 37, 38, 39, 40, 41.)

9. Rocks and other important details shown on previous surveys and on the chart were verified. (Par. 25, 26, 27.)

See reverse side.

10. The span, draw and clearance of bridges are shown. (Par. 16c.)

11. Locations and elevations of summits are given. (Par. 19, 51.)

12. The water line was shown on mountains. (Par. 16g.)

NOTE: Strike out paragraphs, words or phrases not applicable and modify those requiring it. Paragraph numbers refer to those in the Topographic Manual. Use reverse side for extending remarks.
Paragraph 9

T2546 (1901)

The present survey is on a scale of 1:20000, whereas T2546 is on 1:40000. The present survey shows far more detail than on T2546 as to bays, islets, rocks and points. Some of the small bays were very lacking of detail on T2546. Several large islands on T2546 were found to be a group of small islands.

No elevations were given on T2546, so that it was impossible to make an accurate comparison of the heights of the peaks.

The present survey supersedes T2546 in part.
13. The descriptive report covers all details listed in the Manual, in so far as they apply to this survey. (Par. 64, 65, 66, 67.)

14. The descriptive report also contains additional information required in aero-topography relative to type of photographs, method of compilation and type of ground control.

15. The descriptions of recoverable stations and references to shore line were accomplished on Form 524. (Par. 29, 30, 57, 67 except scaling of DMs and DPs, 68.) 5 Cards submitted

16. A list of landmarks for charts was furnished on Form 567 and plotting checked. (Par. 16d, e, 60.) None submitted

17. The magnetic meridian was shown and declination was checked. (Par. 17, 52.) No note of having checked declinators.

18. The geographic datum of the sheet is Utaha (Unadjusted) and the reference station is correctly noted. (Par. 34.)

19. Junctions with contemporary surveys are adequate.

20. Geographic names are shown on the sheet and are covered by the descriptive report. (Par. 64, 66k.)

21. The quality of the drafting is good. (Par. 31, 32, 33, 35, 36, 37, 38, 39, 40, 41, 42, 45, 46, 47, 48, 49, 50.) Notes to rocks not correctly related to datum.

22. No additional surveying is recommended.

23. The Chief of Party inspected and approved the sheet and the descriptive report after review by

24. Remarks:

Reviewed in office by: [Signature] June 11, 1936

Examined and approved:

Chief, Section of Field Records
Chief, Division of Charts

Chief, Section of Field Work
Chief, Division of Hyd. and Top.