

6458

Form 504  
Rev. April 1935  
DEPARTMENT OF COMMERCE  
U. S. COAST AND GEODETIC SURVEY

## DESCRIPTIVE REPORT

Topographic

~~Hydrographic~~

Sheet No. K-E-35

U. S. COAST & GEODETIC SURVEY  
LIBRARY ARCHIVES

APR 21 1936

Acc. No. \_\_\_\_\_

State Alaska

### LOCALITY

Central part of Tigalda Id.

Aleutian Islands, Alaska

1935

### CHIEF OF PARTY

A. M. SOBIERALSKI, H. & C. E.

U. S. GOVERNMENT PRINTING OFFICE

6458

Applied to drawing of Chart No. 8860

S. B. Maize Jan 15, 1937

Applied to drawing of Chart No. 8802

S. B. Maize June 1937

Applied to compilation of Chart No. 8720

G. K. S. Mar. 18, 1937

DEPARTMENT OF COMMERCE  
U. S. COAST AND GEODETIC SURVEY

REG. NO.

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-E-35 6458

REGISTER NO.

State Alaska

General locality Aleutian Islands 14

Locality Central part of Tigalda Island 28

Scale 1-20,000 Date of survey May, 1935

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

Chief of Party A. M. Sobieralski

Surveyed by E. H. Sheridan

Inked by E. H. Sheridan

Heights in feet above H. H. W. to ground ~~in tops of trees~~

~~Contours, approximate 500000~~, Form line interval 100 feet

Instructions dated April 13, 1934

Remarks: \_\_\_\_\_

DESCRIPTIVE REPORT  
to accompany  
TOPOGRAPHIC SHEET K-E-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 central portion of Tigalda Island, Aleutian Islands, Alaska.

General Description of the Coast:

Tigalda Island is mountainous and covered with tundra and grass. The southern coast of the island covered by this sheet is comprised of steep rocky bluffs reaching a height of 1520 feet near topographic station Shar. The northern coast is also generally comprised of bluffs which are not as precipitous and much lower, reaching a varying height of 200 to 300 feet. The northern coast is broken by two small bays.

Kelp Bay, on the north side of Tigalda Island. 2 miles east of its western end, provides temporary anchorage in southerly weather. The width of the entrance is reduced by a reef extending north-eastward 1/4 mile from the west entrance point. The point to the east of Kelp Bay is marked by several offlying rocks, the outermost being 9 feet high and 200 yards off the point.

A small bay 2 miles east of Kelp Bay provides an anchorage for small craft in southerly weather. There are sunken rocks 170 yards off the east entrance point and others 150 yards offshore on the west side.

A bight on the south side of Tigalda Island east of the southeast entrance of Derbin Strait, provides temporary anchorage in northerly weather. The eastern shore of this bight is foul with a sunken rock 300 yards S. W. x W of a 134 foot rocky islet.

Prominent Features:

Triangulation station Rock 1934 is on one of two rounded rocks lying 1/2 mile off the south side of Tigalda Island. The offshore one on which the station is located is 27 feet high and the inshore rock is 55 feet high.

25 April 1934

Character of control:

Triangulation stations approximately two miles apart furnished control for the survey. The positions of the triangulation stations are based on the 1934 field computations.

The field work on the southern coast was executed by graphic triangulation.

Traverses run and how adjusted:

On the northern coast two traverses were run, one between triangulation stations Gal and Kelp 1934 and between triangulation stations Kelp 1934 and Dill 1935. These traverses checked well in azimuth, and small adjustments well within prescribed limits were applied in distant adjustments.

Description of Auxiliary Surveying Methods:

The offlying features were located by graphic triangulation and stadia.

Verification of Form lines from off-shore:

The form lining was executed in the field by obtaining elevation and location with the plane table of all prominent peaks and other objects that could be identified. As the southern coast is precipitous it was very difficult to obtain many cuts of peaks inshore. A low-hanging fog covered most of the hills at the time of the survey of the coast. Sextant fixes to locate the position and elevation of peaks were taken from the Ship SURVEYOR, Launch WILDCAT and from Launch #3 of the Ship SURVEYOR to augment the positions and elevations obtained with the plane table.

Junction with former or adjacent work:

This sheet joins sheet K-F-35 and K-B-34 (field no.) 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. This sheet (K-E-35) was done on a scale of 1-20,000 and should be accepted for shoreline and off-lying features.

The form lining of the two sheets agree very well.

New Geographic names:

No new names are assigned on the sheet. The names shown were taken from chart 8860.

Evidences of changing:

None noted.

Statistics:

Statute miles of shoreline.....16.0  
Area in square statute miles.....14.0

Respectfully submitted,

E. H. Sheridan  
E. H. SHERIDAN, Aid.

Approved & forwarded:

A. M. Sobieralski  
A. M. SOBIERALSKI,  
Commanding Officer,  
Ship SURVEYOR

## Remarks

## Decisions

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# GEOGRAPHIC NAMES

Survey No. **T6458**

Name on Survey	A On Chart No. 8860	B On previous survey No.	C On U.S. quadrangle Chart/Maps 8802	D From local information	E On local Maps	F Geog. U.S.C.P. P.S. Code of Map of Alaska	G Rand McNally Atlas	H	K U.S. Light List
<u>Kelp Bay</u> ✓	*			✓					1
<u>Tigalda Island</u> ✓	*		✓	✓		✓	✓	✓	2
<u>North Pacific Ocean</u> ✓	*			✓					3
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Names underlined in red approved  
by *[Signature]* on 6/8/36



# MEMORANDUM

## IMMEDIATE ATTENTION

SURVEY  
DESCRIPTIVE REPORT  
~~PHOTOSTAT OF~~

~~No. H~~

No. T **6458**

received APR 21 1936  
registered MAY 20 1936  
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.

ROUTE		Initial	Attention called to
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✓ 25		<i>LAG</i>	<i>DR</i>
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RETURN TO

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C. K. Green

## REVIEW OF TOPOGRAPHIC SURVEY No. 6458

Title (Par. 56) *Central Part of Tigalda Island, S.W. Alaska*Chief of Party *A.M. Sobieralski* Surveyed by *E.H. Sheridan* Inked by *E.H. Sheridan*Ship *Surveyor* Instructions dated *April 13, 1934* Surveyed in *May 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 tree line was shown on mountains. (Par. 16g.)

*No trees in this locality - grass line shown*

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 heights of the two islands at A Rock differ on the present survey somewhat from those on T2546. The present survey should be accepted.

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.) *4 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 declination  
Only one meridian shown*
18. The geographic datum of the sheet is *Unalaska (Unadjusted)* and the reference station is correctly noted. (Par. 34.) ✓  
*Values of Field Computations used*
19. Junctions with contemporary surveys are adequate. ✓  
*Joins T 6457 (1935) on the East  
Joins T 4917 (1934) on the West*
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 *Chas P. Bush Jr. June 11, 1936.*

Examined and approved:

*C. H. Green*  
Chief, Section of Field Records

*L. O. Robert*  
Chief, Division of Charts

*Fred L. Peacock*  
Chief, Section of Field Work

*G. H. de*  
Chief, Division of Hyd. and Top.