

6457

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

DESCRIPTIVE REPORT

Topographic
Hydrographic

Sheet No. K - F - 35

U. S. COAST & GEODETIC SURVEY
LIB. AND ARCHIVES

APR 21 1936

Acc. No.

State ALASKA

LOCALITY

EAST END OF TIGALDA ISLAND,

ALEUTIAN ISLANDS,

ALASKA.

1935

CHIEF OF PARTY

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

U. S. GOVERNMENT PRINTING OFFICE

6457

T

Applied to drawing of Chart No. 8860 S.B. Maize Jan 14 1937

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

Applied to compilation of chart no. 8720 G.H.S. Mar. 17, 1943

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 - 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, 19 35

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 tops of trees~~

~~Contour, - Approximate contour~~, Form line interval 100 feet

Instructions dated APRIL 13, 19 34

Remarks:

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 Tigalda Island and all of Kaligagan Island, Aleutian Islands, Alaska.

General Description of the Coast:

Tigalda 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, Tigalda Bay and a small bay, locally known as Welcome Bay. The latter is a new geographic name. Northeast of Tigalda Island are many rocky islets extending about 1-3/4 miles off-shore. Some of these islets are grass covered, but all have rocky shores, except the one's just north of the north side of Tigalda Bay. These islets have gravel beaches in a few places.

Kaligagan Island is the small island northeast of Tigalda 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, @ Med, 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 Tigalda 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 @ Gor. E. H. Sheridan ran the traverse from Lax 1934 to @ Sas and tied in to @ Gor by azimuth only. The traverse from Bridge to @ Gor was run by C. J. Wagner. The position of @ 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 out only 8 meters from the intersection of cuts at @ Gor. It was believed that the whole 8 meters was in a very long rod reading which had to be made from near @ Pat to @ Que. There was no way to get set-ups on the point at @ Pat that would see anything to the northwest of @ Que. Accordingly the whole error was applied to this distance and the traverse adjusted from Que to @ 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-F-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~~ ^{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
A. M. Sobieralski,
Commanding Officer,
Str. SURVEYOR.

Respectfully submitted,

Clifton J. Wagner
Clifton J. Wagner,
Jr. H. & G. E.

Remarks

Decisions

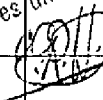
1		
2		
3		
4		
5		
6		
7		
8		
9		
10		
11		
12		
13		
14		
15		
16		
17		
18		
19		
20		
21		
22		
23		
24		
25		
26		
27		

GEOGRAPHIC NAMES

Survey No. **T6457**

GEOGRAPHIC NAMES											
Survey No. T6457											
Name on Survey		A	B	C	D	E	F	G	H	K	
		On Chart No. 8860	On previous survey No.	On U.S. Quadrangle Chart Maps 8800	From local information	Chart 7502 On local maps	P. O. Guide or Map	Rand McNally Atlas	U.S. Coast and Geodetic Survey Dict. of Alaska		
Welcome Bay	✓				—					*	1
Tigalda Bay	✓	*		—	✓				—		2
Kaligagan Island	✓	*		✓	—				—		3
Tigalda Island	✓	*		✓	✓	—		✓	✓		4
North Pacific Ocean	✓	*			#						5
											6
											7
											8
											9
											10
											11
											12
											13
											14
											15
											16
											17
											18
											19
											20
											21
											22
											23
											24
											25
											26
											27

Names underlined in red approved

by 

on 6/17/36

M 234

Names underlined in red approved
by *[Signature]* on 6/17/36

MEMORANDUM

IMMEDIATE ATTENTION

SURVEY
DESCRIPTIVE REPORT
~~PHOTOSTAT OF~~

~~No. H~~

No. T 6457

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
20			
22			
24			
✓ 25		<i>[initials]</i>	<i>[initials]</i>
26			
30			
40			
62			
63			
82			
83			
88			
90			

RETURN TO

82	
----	--

G. H. Green

REVIEW OF TOPOGRAPHIC SURVEY No. 6457

Title (Par. 56) *East End of Tigalda Island, S.W. Alaska*Chief of Party *A.M. Sobieralski* Surveyed by *C.J. Wagner*
E.H. Sheridan 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 ~~con-~~
~~tours-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~~^{grass} 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 aere-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 declinaoire
Declination at both station check closely*
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 6458 (1935) 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. R. Bush Jr June 11, 1936*

Examined and approved:

C. H. Green
Chief, Section of Field Records

L. O. Dolbert
Chief, Division of Charts

Fred. L. Peacock
Chief, Section of Field Work

G. H. Hude
Chief, Division of Hyd. and Top.