

6243

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Form 504	
U. S. COAST AND GEODETIC SURVEY	
DEPARTMENT OF COMMERCE	
DESCRIPTIVE REPORT	
Type of Survey	<i>Topographic</i>
Field No.	Office No. <i>6243</i>
LOCALITY	
State	<i>S. W. Alaska</i>
General locality	<i>Alutian Islands</i>
Locality	<i>N. E. Part of Sedanka Island</i>
<u>1934</u>	
CHIEF OF PARTY	
<i>A. M. Sobierski</i>	
LIBRARY & ARCHIVES	
DATE	

6243

U. S. COAST & GEODETIC SURVEY  
LIBRARY AND ARCHIVES

APR 9 1935

~~CONFIDENTIAL~~

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

Form 504  
Ed. June, 1928

DEPARTMENT OF COMMERCE

U. S. COAST AND GEODETIC SURVEY

R. S. PATTON *Director*

State: S. W. ALASKA

DESCRIPTIVE REPORT

Topographic  
~~Hydrographic~~

Sheet No. U - <sup>A</sup> 3 - 34

LOCALITY

Aleutian Islands  
N. E. PART OF SEDANKA ID.

~~ALEUTIAN ISLANDS~~

19 34

CHIEF OF PARTY

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

U. S. GOVERNMENT PRINTING OFFICE: 1921

6243

Applied to charts 8860, 8802 + 9302 - Oct 10, 1938.

P.B. Casella.

35 Jan 20, 1936

(extended) 1938

Applied to new compilation of Chart No. 9007, S.P. Aug. 1938.

Applied to compilation of chart No. 9018 H.E.M. June 14, '39

8720 G.H.S. Mar. 23, 1943

DEPARTMENT OF COMMERCE  
U. S. COAST AND GEODETIC SURVEY

U. S. COAST & GEODETIC SURVEY  
LIBRARY AND ARCHIVES

REG. NO.

APR 3 1935

Acc. 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. <sup>A</sup>  
U-8-34

REGISTER NO. 6243

State Alaska

General locality Aleutian Islands

Locality N. E. part of Sedanka Island

Scale 1-20,000 Date of survey July, 1934

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

Chief of party A. M. Sobieralski

Surveyed by C. J. Wagner

Inked by C. J. Wagner

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

~~Contours, Approximate contour.~~ Form line interval 100 feet

Instructions dated April 13, 1934

Remarks:



REVIEW OF TOPOGRAPHIC SURVEY NO. U-A-34

Title: (Par. 56) N. E. Part of Sedanka Island.

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

Ship: SURVEYOR Instructions dated: 4 - 13 - 34 Surveyed in: 1934

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. Not applicable.
7. High water line on marshy and mangrove coast is clear and adequate for chart compilation. (Par. 16a, 43, 44.) Not applicable.
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.)
10. Not applicable.
11. Locations and elevations of summits are given. (Par. 19, 51.)
12. The tree line was shown on mountains. (Par. 16g.) Not applicable.
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. Not applicable.
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.)

REVIEW OF TOPOGRAPHIC SURVEY NO.

16. A list of landmarks for charts was furnished on Form 567 and plotting checked. (Par. 16d, e, 60.)
17. The magnetic meridian was shown and declination was checked. (Par. 17, 52.)
18. The geographic datum of the sheet is Unalaska 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.)
22. No additional surveying is recommended.
23. The chief of Party inspected and approved the sheet and the descriptive report after review by R. C. Rowse
24. Remarks:

Reviewed in office by

Examined and approved:

Chief, Section of Field Records

Chief, Section of Field Work

Chief, Division of Charts

Chief, Division of Hyd. and Topo.

DATUM:

The topographic work in the vicinity of the Krenitzin group was started using the 1901 geographic positions, and the positions of supplemental stations were computed from the 1901 lines as a base. These preliminary positions were used to control the topography.

Later in the season, the whole scheme of triangulation was recomputed from a newly measured base resulting in changes which amounted to from 2 to 5 meters in the vicinity of Unalga Pass to a maximum of about 10 m. in the eastern limits of the work. As a result, the triangulation stations as plotted will not agree exactly with the 1934 field computations, as submitted to the office. That is, the recovered 1901 stations are plotted from the original geographic positions, but the 1934 stations are plotted from preliminary positions which are not in strict accordance with the positions resulting from the final field computations as submitted in the list of geographic positions. The difference will correspond approximately to the difference between the 1901 and 1934 positions of recovered stations in the vicinity.

To eliminate these discrepancies, a slight change in the projection is necessary, but it is difficult to show the small correction, so that it has been indicated only on the sheets where it exceeds 5 m. The correction to the projection brings the sheet to the Unalaska Datum as determined by the 1934 field computations.

DESCRIPTIVE REPORT

to accompany

TOPOGRAPHIC SHEET U-A-34

Project - H. T. 176

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

Instructions dated: April 13, 1934.

Extent:

This sheet covers the northeastern part of Sedanka Island and Egg Island, Aleutian Islands, Alaska.

General Description of Coast:

Sedanka Island is mountainous and covered with tundra. The coast is broken by bays and the headlands between the bays are usually bold, rocky bluffs. There is talus at the bases of the bluffs, ranging from gravel to huge boulders. The beaches are almost all gravel, sand being found only opposite the three larger lakes. There are many rocks outside the H. W. line and many of the points have detached rocky islets.

Egg Island, lying  $1\frac{1}{2}$  miles northeast of Sedanka Island, is 541 feet high and shaped like a half crater, open to the north. The coast is bold and rocky. There is little beach, deep water extending to the bases of the cliffs in most cases. The northeast coast is very foul, containing many rocks.

Prominent features:

Old Man Rocks, latitude 53 - 52.2, longitude 166 - 05 are a group of four rocks, of which two are prominent. The highest rock is 100 feet high. A picture is enclosed.

<sup>Pent</sup>  
0 Egg, latitude 53 - 51.4, longitude 166 - 07.5 is a large rock, approximately 125 feet high. The rock is grass covered and slopes up from the north. The south face being nearly vertical.

0 Rus, latitude 53 - 49.8, longitude 166 - 12.5, is the eastern and higher of the two crosses on ~~each~~ ends of the green-roofed Church in Biorka Village. There are five houses in the village, the Church being the easternmost house.

Prominent features - continued:

Outer Signal, latitude 53 - 48.3, longitude 166 - 03, is a rock, 30 feet high.  $\Delta$  Sentry 1934 is on the highest part of the rock and near its center. There is a rock, 10 feet high, 1/4 mile E. S. E. of  $\Delta$  Sentry 1934, called  $\odot$  Lowe.

Inner Signal, latitude 53 - 47.4, longitude 166 - 05.6, is a pinnacle rock, 126 feet high, surrounded by an area containing many rocks and ledges.

$\odot$  Lit, N. E. side of Egg Island, appears as a detached peak, 182 feet high, from the southward. See picture. ✓

Sedanka Cape, latitude 53 - 50, longitude 166 - 05, on the highest part of which is  $\Delta$  Biorka Head 1901, is prominent from the southward. It rises from a neck of land about 190 feet to a maximum elevation of 375 feet, and terminates in a bluff on the eastern side. To the southwestward are high rocky bluffs, reaching a maximum elevation of over 1200 feet. ✓

$\odot$  Fall, latitude 53 - 50.8, longitude 166 - 06.6, is a waterfall, 19 feet high. ✓

Character of control used:

Triangulation stations approximately two miles apart furnished ample control.

The position of the triangulation stations is based on the 1901 computations, all new stations being tied in to the 1901 positions.

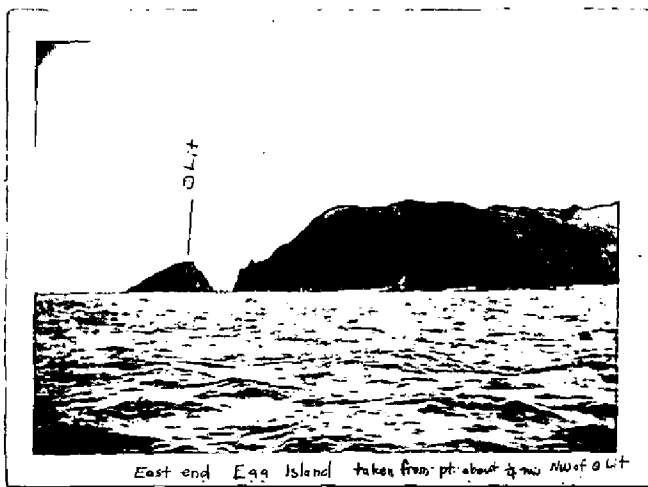
The field work was done by graphic triangulation and and resection, resection being checked by additional cuts to other triangulation stations or well located topographic stations.

Description of auxiliary surveying methods:

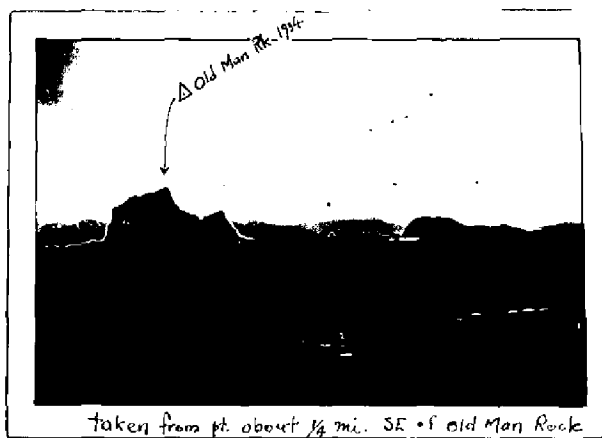
The offlying features were located by triangulation, graphic triangulation or stadia.

Verification of form lines from offshore:

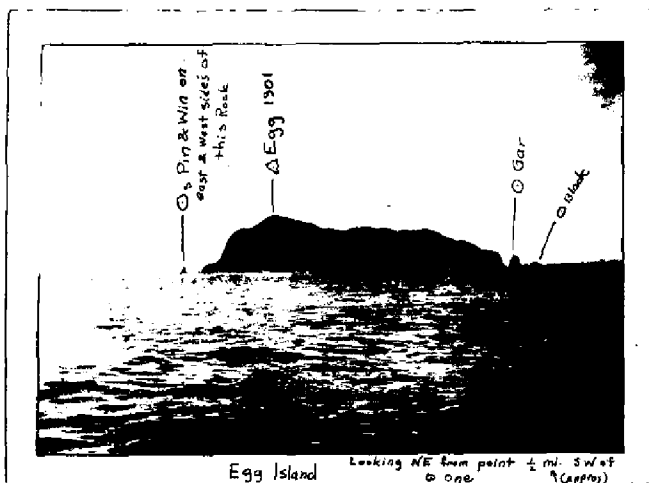
The formlining was accomplished by the topographer in the field by obtaining elevations of all peaks and other objects, which



East end Egg Island taken from pt. about  $\frac{1}{2}$  mi. NW of O Lit



taken from pt. about  $\frac{1}{2}$  mi. SE of Old Man Rock



Egg Island Looking NE from point  $\frac{1}{2}$  mi. SW of O Gar (approx)



Δ Seden 1944

Verification of form lines from offshore:- continued:

could be identified and located. The formlining was verified by the topographer from the launch WILDCAT.

Junction with former or adjacent work:

Sheet T-2544 covers the area covered by this sheet.

The Inner Signal was relocated by graphic triangulation and a new position obtained that is 20 m N. E. of the geographic position of Inner Sentry 1901. The position of this rock on the sheet T-2544 is about 120 m. N. E. of the position as shown on this sheet. The geographic position was computed from weak triangles and it is believed that the position shown on this sheet is more reliable. The elevation was found to be 126 feet instead of 180 feet as charted and as shown on T-2544.

The elevation of the outer signal was found to be 30 ft. instead of 50 feet as charted and as shown on T-2544.

The large lake in latitude 53 - 48 $\frac{1}{2}$  longitude 166 - 09 is shown as two lakes on T-2544 but is only one lake.

This sheet shows lakes in other locations that are not shown on T-2544.

*T-6244 (1934)*

This sheet joins U-B-34 (field number) on the west, satisfactorily. The formlining of the area west of Udamat Bay is shown on sheet U-B-34 (field number) and elevations obtained in this area transferred and inked on sheet U-B-34 (field number).

New names:

The village in latitude 53 - 49.9, longitude 166 - 12.5 is known locally as Biorka Village.

Photographs:

Few photographs were taken as the topo party used a dory and it was difficult to keep a camera dry. The photographs included carry their own descriptions and negatives are included.

Evidence of charging:

No evidence of submergence or rising of the coast was observed.

Character of the marshes:

The only marshes are adjacent or in the small lakes, as shown by symbol. All are fresh water.

Statistics:

Statute miles of shoreline.....31.5

Area in square statute miles.....22.0

Respectfully submitted,

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

Approved & forwarded:

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







Date. April 16, 1935

Chart No. 8860

Under investigation. Q

APPROVED NAMES  
ENCLINED IN RED

H. L. Flemer



## REVIEW OF TOPOGRAPHIC SURVEY No. 6243

Title (Par. 56) *N.E. Part of Sedarika Island, SW. Alaska*Chief of Party *A.M. Sabierulski* Surveyed by *C.J. Wagner* Inked by *C.J. Wagner*Ship *Surveyor* Instructions dated *April 13, 1934* Surveyed in *July, 1934*

1. The survey and preparation for it conform to the requirements of the Topographic Manual. (Par. 7, 8, 9, 13, 16.) *Rocks are not properly noted as to their heights above the plane of reference*
2. The character and scope of the survey satisfy the instructions.  
*Not sufficient recoverable stations given for a resurvey*
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.) *No maps submitted but several pictures forwarded.*
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 - mostly grass in this area.*

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

T2544 (1901)

The present survey differs from T2544 in quite a few places as to detail of points, islets and rocks. Some differences on afflying islets are discussed in the Descriptive Report. One rock was brought forward from T2546 in Udamat Bay. Otherwise, the present survey was accepted for detail.

T6243 (1934) supersedes T2544 in part.

Chart 8860

The present survey has been applied to the latest edition of Chart 8860 and with the exception of the rock brought forward in Udamat Bay, from T2544 above, is in good agreement.



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 IMs and DPs, 68.) *14 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.) *4 meridians shown all of which show different declinations No evidence of having checked declinaoire*
18. The geographic datum of the sheet is *Unalaska 1901 (Adjusted)* and the reference station is correctly noted. (Par. 34.) ✓
19. Junctions with contemporary surveys are adequate. *Joins T6244(1934) adequately on the West. Joins T6460(1935) on the South. A junction on the south shows a decided difference in detail. All detail South of A Sedan should be taken from T6460*
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 <sup>Fair</sup> good. (Par. 31, 32, 33, 35, 36, 37, 38, 39, 40, 41, 42, 45, 46, 47, 48, 49, 50.) *Lettering is not very good. Details of rocks awash etc. are not large enough to be clearly distinguishable*
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 4, 1936.

Examined and approved:

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

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

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

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