

6244

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Form 504
Ed. June, 1928

DEPARTMENT OF COMMERCE

U. S. COAST AND GEODETIC SURVEY

R. S. PATTON, Director

State: ALASKA

DESCRIPTIVE REPORT

Topographic
~~Hydrographic~~

Sheet No. U - B - 34

LOCALITY

Aleutian Islands

Part of Unalaska & Sedanka Ids.

~~Beaver Inlet,~~~~Aleutian Islands.~~

19 34

CHIEF OF PARTY

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

U. S. GOVERNMENT PRINTING OFFICE: 1921

6244

Applied to Charts 8860, 8802 + 9302 - Oct 10-1935

P.B. Bastin.

25 { - 20 1936

(extended 5. 4410)

Applied to new compilation of Chart 9007, B.P. Aug. 1938

Applied to Chart Compilation no. 9018 H.E.M. June 29, 1939.

DEPARTMENT OF COMMERCE
U. S. COAST AND GEODETIC SURVEY

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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. U - B - 34

REGISTER NO. 6244

State Alaska
General locality Aleutian Islands
Locality Part of Unalaska and Sedanka Islands; ~~Seaver Island~~
Scale 1:20,000 Date of survey August, 19 34
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~~
~~Contour; Approximate contour~~, Form line interval 100 feet
Instructions dated April 13, 19 34
Remarks: _____

DATUM:

The topographic work in the vicinity of the Krenitzka 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-B-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 a portion of Unalaska Island on its north end and a portion of Sedanka Island on its southeast end, Aleutian Islands, Alaska.

General Description of the Coast:

Unalaska Island. The coast is bold rocky bluffs in the vicinity of Δ Agik and eastward, except for heads of the bights. To the westward on Unalaska Island the bluffs are usually tundra covered. East of Agamgik Bay is rolling country and tundra covered. West of Agamgik it is more mountainous and generally tundra covered. Grass is found in the low areas usually under 100 feet elevation. There are many rocks outside the H. W. line but with exception of the area north, east, and southwest of Δ Gam, they are close to the beach. The beaches are all gravel or boulders, except that opposite the lake in lat. 53-50, long. 166-23, which is sand.

The part of Sedanka Island shown is mountainous, with low bluffs back of the H. W. line in some places. The country is generally tundra covered, though there are many outcroppings of rock. There are no offlying dangers. The beaches are gravel.

Prominent features:

Eagle Rock (name assigned by field party) lat. 53-52.2, long. 166-19.3 is a pinnacle rock, 75 feet high and marks the eastern limit of the entrance to Agamgik Bay.

O Wash, lat. 53-51.5, long. 166-20.9 is a small rock, 6 feet high, and marks the western limit of the entrance to Agamgik Bay.

Prominent features - continued:

O Kig, lat. 53-52.3, long. 166-17.8, is a sharp pinnacle rock, 175 feet high. It rises from the beach at the H. W. line. There is a smaller, though somewhat similar, pinnacle rock about 350 meters east of O Kig.

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.

Closing errors of traverses run and how adjusted:

In not over two cases traverses were run one set up to obtain additional detail and not closed.

Description of auxiliary surveying methods:

The offlying features were located by graphic triangulation.

Verification of formlining from offshore:

The formlining was accomplished by the topographer in the field by obtaining elevations to all peaks and other objects which could be identified and located. The formlining was verified by the topographer from the launch WILDCAT.

Junction with other surveys:

Sheet T-2544 covers the area covered by this sheet. T-2544 was done on a smaller scale and more as a reconnaissance. Sheet U-B-34 (field number) was done on a larger scale and should be used where the two do not agree.

This sheet joins ^{T-4920} U-E-34 at its N. E. end, U-C-34 at its N. W. end and U-A-34 at its S. E. end, satisfactorily.

List of new names:

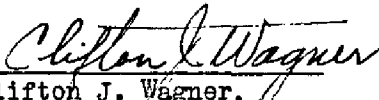
The large pinnacle rock 190 meters S. S. W. of A Food was assigned the name EAGLE ROCK by the field party.

Statistics:

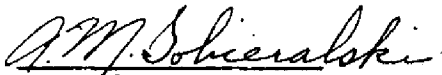
Statute miles of shoreline. 18.5

Area in square statute miles. 16.5

Respectfully submitted,


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

Approved & forwarded:


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

REVIEW OF TOPOGRAPHIC SURVEY No. 6244

Title (Par. 56) *Part of Unalaksa and Sedanka Islands, S.W. Alaska*Chief of Party *A.M. Sobieralski* Surveyed by *C.J. Wagner* Inked by *C.J. Wagner*Ship *Surveyor* Instructions dated *April 13 1934* Surveyed in *August, 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 marked properly as to datum*
2. The character and scope of the survey satisfy the instructions.
Not sufficient recoverable stations 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.)
Not sufficient elevations taken in some parts - south portion O.K.
5. The delineation of ~~contours~~ *formlines* ~~is satisfactory.~~ (Par. 49, 50.) *Form lines not drawn or heights given according to the Manual (insofar as weights of lines)*
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.) *Rocks made too small - Relp symbol very poor only fair.*
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.)
elevations of some summits omitted
12. The tree line was shown on mountains. (Par. 16g.)
Mostly tundra grass rather than trees 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.

Paragrph 9

T2544 (1901)

The present survey is in good general agreement with T2544. However the present survey is on a much larger scale and is much more in detail as to rocks, islets and points along the shore.

The present survey supersedes T2544 in part.

Chart 8860

The present survey has been applied to Chart 8860 and 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 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 declination
Declination different at two stations where taken*
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 T 4920 on the N.E. Joins T 6243 (1934) on the S.E.
Form lines join T 6460 on the South Joins T 4935 (1935) and T 6269 (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 ^{Fair} good. (Par. 31, 32, 33, 35, 36, 37, 38, 39, 40, 41, 42, 45, 46, 47, 48, 49, 50.) *Rocks are too small and poorly made
Lettering is only fair, Kelp symbol poorly made, Form lines not accentuated properly*
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. R. Green.
Chief, Section of Field Records

L. O. Robert.
Chief, Division of Charts

Fred. L. Peacock
Chief, Section of Field Work

G. Wade
Chief, Division of Hyd. and Top.