

4665

U. S. COAST & GEODETIC SURVEY
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DEPARTMENT OF COMMERCE
U. S. COAST AND GEODETIC SURVEY

State: Southwest Alaska

11-5613

DESCRIPTIVE REPORT.

4665

Topographic Sheet No. C

LOCALITY:

Shelikof Strait

Northern Part of
Shuyak Island

Scale 1/20,000

1931

CHIEF OF PARTY:

H. B. Campbell

4665

DESCRIPTIVE REPORT

to accompany
Topographic Sheet "C".

(4665)

LOCALITY

This sheet covers the west and north sides of Shuyak Id., Southwest Alaska. It joins with Reg. #4221 on the southwest, and unsurveyed area on the northeast.

AUTHORITY

This survey was made under the Director's instructions dated April 10, 1931, U.S.C. & G.S.S. DISCOVERER, H. B. Campbell, Comdg.

GENERAL DESCRIPTION

Shuyak Island is low with rolling relief. The maximum elevations do not exceed 500 feet. The northern part is predominantly grass covered with scattered clumps of trees in the creek bottoms. Proceeding southward, wooded area predominates, only a few of the hill tops being bare. Rocky outcrops are found throughout, and the entire island is dotted with small shallow lakes.

The shores are deeply and deviously indented by shallow inlets and bays, and are extremely ragged, particularly the western coast.

A few brown bear are still found on the island but their evidence was so infrequent that it is doubtful that over half a dozen still remain. Willow ptarmigan are fairly numerous, but not as much as might be expected from the favorable climatic conditions and the amount of food available. They are apparently kept in check by the foxes which remain from the abandoned attempt to establish a

fox farm on the island. Eider ducks were found to nest on the west and north shores and mallard ducks were fairly numerous about the lakes, as were various other waterfowl.

DARK ISLAND

is also an abandoned fox farm. The buildings are still standing in fair condition. Foxes are still found on the island. It is entirely grass-covered with gently undulating hills.

GULL ISLAND

is dome shaped and grass covered. It marks the entrance to Western Inlet. It is flanked on the north by several reddish appearing rocks.

ELEVATIONS

The elevations are referred to mean high water and are to ground surface in all cases. The elevation of Gull Id. is 83 ft. rather than 150 ft. as it is now shown on chart No. 8555.

Several determinations were obtained of each elevation appearing on the sheet and they may be relied upon within a few feet.

OFFLYING DANGERS

These are numerous and are as shown and noted on the sheet.

NAMES

Dark Passage is suggested as the name for the pass between Party Cape and Dark Island. It is known by this name by local fishermen and trappers. *Local name, Shitukedary, to submitted to U.S. Geog. Board for approval. because Coast Pilot now publishes it as Dark Island Pass* H.B. April 17, 1933

Star Rocks is suggested for the group of rocks in mid-channel of Dark Passage. The Str. STAR was reported to have struck here and remained several hours while waiting for the tide to float her off. *Sent to U.S. Geog. Board for approval. H.B.*

Skiff Passage is suggested for the narrow, tortuous, high water pass connecting Big Bay with the mouth of Carry Inlet. It is navigable by a skiff at high water only. *Sent to U.S. Geog. Board for approval. H.B.*

Carshan, a combination of the words Carry and Shangin, is suggested as a name for the ragged, well defined point separating the two bays. *Sent to U.S. Geog. Board for approval. H.B.*

Shangin Rock is suggested as a name for the bare rocky islet lying about a mile NE of the above mentioned point. It is a well-defined landmark, and may be considered to mark the entrance to Shangin Bay. Station OFF is located upon it. *Sent to U.S. Geog. Board for approval. H.B.*

Perevalnie Passage: a suggested name for the launch passage lying between Perevalnie Island and Shuyak Island. *Sent to U.S. Geog. Board for approval. H.B.*

✓ Sentinel Rock: a suggested name for the 33 ft. rocky islet lying about a mile NW of Point Banks. Its sides are nearly vertical and it shows up well when viewed from the east, south-east, west and north-west. Topographic signal DE is located upon it. *Sent to U.S. Geog. Board for approval. H.B.*

METHOD OF SURVEY

The standard plane table and stadia were used throughout.

The control for Big Bay was by combined graphic triangulation and traverse--one used as a check against the other. There was no other check. The southwestern arm of Big Bay was moved slightly from its position as shown on Reg. #4221 to conform to the position

of the signals located for the hydrographer's use.

The shoreline from Cape Newland north to Station BOB was transferred from Reg. #4221. The signals located for the hydrographer (1931) in most cases checked the shoreline very well. In those cases in which the shoreline failed to conform, the change necessary to show its true relation to the signal has been inked. This was slight in all cases north to Station BAY.

Station BOB, (1926), was discovered to be in error 18 meters. The station was relocated by computed triangulation and the shoreline in the vicinity was re-run until an agreement was reached. The narrow neck of land separating the northwest arm of Big Bay from the cove southeast of Station BOB was paced normal to the shoreline and found to agree without apparent error from the width as determined by the two separate traverses, thus indicating but little error in the location of the head of Big Bay.

The control for Western Inlet was also by combined graphic triangulation and traverse.

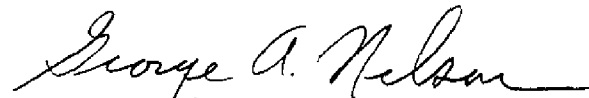
A partial check on the traverse upon which Shangin Bay is dependent was obtained by setting up on the hill between Carry Inlet and Shangin Bay, (Station PIRATE), obtaining a three point fix on BANKS, TOO, and SHUYAK and cutting in a flag near Station TYPE in Shangin Bay. This cut agreed within 12 meters of the position as determined by traverse and the traverse was adjusted.

For the remainder of the sheet, control was by graphic triangulation and three-point fixes, supplemented by short traverses.

STATISTICS

Statute miles of shoreline - - - - - 162

Area (square statute miles) - - - - - 60



George A. Nelson,
Jr. H. & G. Engr., C. & G. S.,
Topographer.

Approved & Forwarded
H. B. Campbell.
County Recorder.

Summary
REVIEW OF TOPOGRAPHIC SHEET No. 4665

Title (Par. 58) *Northern part of Shuyak Island, Shelikof Strait, Alaska*

Chief of Party *H. B. Campbell* Surveyed by *G. A. Nelson* Inked by *G. A. N.*

Ship *Discoverer* Instructions dated *Apr. 10, 1931* Surveyed in *June-July 1931*

1. The survey and preparation for it conform to the requirements of the Topographic Manual (Pars. 7, 8, 9, 13, 16). ✓
2. The character and scope of the survey satisfy the specific 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-formalines~~ was accomplished. (Par. 18, 19, 29, 21, 22, 23.) ✓
5. The delineation of ~~contours-formalines~~ is satisfactory. (Par. 49, 50.) ✓
6. X There is sufficient control on maps from other sources that were transmitted by the field party to enable their application to the charts. (Par. 23.)
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.) ✓ *Some of the legends are of the antiquated type mentioned in par. 38.*
9. Rocks and other important details shown on previous surveys and on the chart were verified. (Par. 25, 26, 27.) ✓
10. X 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.)~~
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.)
No list of prominent and/or recoverable stations located by the topographer was included. An inspection of the sheet shows a number of rocks and small islands of this nature.
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} ~~prominent~~ stations and references to shore line were ^{located by the topographer} ~~accomplished~~ on Form 524. (Par. 29, 30, 57, 67 except scaling of DMs and DPs, 68.) *none furnished*
16. A list of landmarks for charts was ^{not} ~~furnished~~ on Form 567. (Par. 16d, e, 60.) *none furnished*
17. The magnetic meridian was shown, and Declination ^{not} ~~was~~ checked. (Par. 17, 52.)
18. The geographic datum of the sheet is *Valdez* and the reference station is correctly noted. (Par. 34.)
Name of datum was added to sheet in the office.
19. Junctions with contemporary surveys are adequate. *Note minor corrections to shoreline of T4221 in the overlap, see Descriptive Report T4665.*
20. Geographic names are shown on the sheet and are covered by the descriptive report. (Par. 64, 66k.) *a memo relative to suggested new names has been furnished to Mr. Ballou.*
21. The quality of the drafting is good. (Par. 31, 32, 33, 35, 36, 37, 38, 39, 40, 41, 42, 43, 46, 47, 48, 49, 50.)
*Periods after abbreviations in water areas were removed in office.**
22. No additional surveying is recommended. ✓

23. The Chief of Party inspected and approved ~~the sheet~~ ^{*} and the Descriptive Report after review by —

** Sheet signed by topographer only*

Reviewed in office by R.J. Christman April 10, 1933

Inspected: E.P. Eccles

Sheet examined and approved by R.M.S.

L.O. Dolbuit

Chief, Section of Field Records

Chief, Section of Field Work

1
Memo. for Mr. Bacon. relative
to new names on T 4665. Shuyak I., Alaska

The Descriptive Report gives a number
of suggested new names. The names
have not been placed on the topo sheet
but the descriptions are adequate for
placing them if approved by the Board
of Geo. Names. Rpl

L. O. Lobnitz.

Dark Passage being a local name may be put on the
Sheet. The approval of the U.S. Geog. Board should be
obtained because it is published as Dark Island
Pass in the Coast Pilot Part II, Supplement of Feb 12, 19
Other names are carded for forwarding
to the U.S. Geog. Board with a recommendation
that they be approved. N.B. April 17, 1933

DEPARTMENT OF COMMERCE
U. S. COAST AND GEODETIC SURVEY

REG. NO. 4665

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 Letter C

REGISTER NO. 4665

State Southwest AlaskaGeneral locality Shelikof StraitLocality Northern Part of Shuyak IslandScale 1-20,000 Date of survey June-July, 1931Vessel DISCOVERERChief of Party H. B. CampbellSurveyed by George A. NelsonInked by George A. NelsonHeights in feet above M.H.W. to ground ~~at top of trees~~~~Contours approximately horizontal~~ Form line interval 100 feetInstructions dated April 10,, 1931Remarks: Where rocks are referred to tide; mean tide is used.

NAUTICAL CHARTS BRANCH

SURVEY NO. T-4665

Record of Application to Charts

[illegible]

M-2168-1

A basic hydrographic or topographic survey supersedes all information of like nature on the uncorrected chart. Give reasons for deviations, if any, from recommendations made under "Comparison with Charts" in the Review.