

4629

U. S. COAST & GEODETIC SURVEY
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DEPARTMENT OF COMMERCE

U. S. COAST AND GEODETIC SURVEY

R.S. Patton, Director

State: Alaska

DESCRIPTIVE REPORT

Topographic
Hydrographic

Sheet No.
Field # B

4629

LOCALITY

Behm Canal

Vicinity of Burroughs Bay

1923/

CHIEF OF PARTY

E.W. Eichelberg

GOVERNMENT PRINTING OFFICE

DESCRIPTIVE REPORT TO ACCOMPANY SHEET "B"

Scale 1:20,000 (insert 1:10,000)

Instructions dated March 24, 1931.

The area covered by sheet "B" includes the shore on both sides of Behm Canal from Claude Point to a point about one half mile Northwest of Saks Cove, all of Burroughs Bay, the mouths of the Unuk and Klahini Rivers, and Fitzgibbons Cove. The shoreline in this area is, in general, rocky, with thick woods of fir, cedar, and spruce extending from the high water line to approximately 2,200 feet elevation. The general aspect of the country is mountainous, the highest peaks reaching elevations between 4000 and 4500 feet, snow-covered except in late summer.

In order to expedite the survey of the area covered by this sheet, two men were engaged in making the survey. The shoreline of Fitzgibbons Cove, the form lines in that vicinity, and the form lines on the East side of Behm Canal, on the South side of Burroughs Bay, and on the North side of Burroughs Bay North and East of the large stream just West of triangulation station "BIGHT2" were done by Lieutenant Commander E. W. Eickelberg. The remainder of the sheet was done by Lieutenant R. C. Rowse.

LANDMARKS: There are a great many cliffs of various heights scattered over the mountain sides, all of them fairly conspicuous, but only two stand out as being particularly distinguishable. These are: a small light-colored cliff at an elevation of 200 feet just south of the mouth of the Klahini River, and a small white cliff at the high water line just South of the entrance to Fitzgibbons Cove. The positions are given in the list of planetable positions.

CONTROL: Twenty-six stations of the 1929 scheme of triangulation for Behm Canal and Burroughs Bay are included within the limits of the sheet, twenty-four of which were used as control for the topography. Two stations were established in 1931, at the entrance to Fitzgibbons Cove for control of the survey of that body of water.

FORM LINES: The form lines were plotted by means of elevations, determined by standard methods, and the use of features transferred from photographs taken in the aerial survey of Revillagigedo Island in 1926.

LOCAL ATTRACTION: Local magnetic attraction was found in Burroughs Bay, the amount varying from 5°45' West to 1°45' East, referred to the value of the declination determined at triangulation station "MAN 2, 1929". The declination at each of twelve triangulation stations was determined by means of the declinoire, and at triangulation station "MAN 2" a declinometer observation was made in addition. A declinometer observation was also made at triangulation station "BURROUGHS" 1931, there being no determination by declinoire at that point.

| | | |
|--|---|----------------|
| Declination at "MAN ₂ " by declinometer | = | 31° 54' |
| Declination at "MAN ₂ " by declinoire | = | <u>32° 15'</u> |
| Declinoire index error | = | -0° 21' |

| Station | Obs. Dec. | Corr. Dec. | Loc.Att. | Remarks |
|--------------------|-----------|------------|----------|-------------------|
| Man ₂ | 32° 15' E | 31° 54' | 0° 00' | Reference Station |
| Jane ₂ | 27° 45' E | 27° 24' | 4° 30' W | |
| Bight ₂ | 26° 30' E | 26° 09' | 5° 45' W | |
| Oak | 29° 30' E | 29° 09' | 2° 45' W | |
| Dick ₂ | 29° 00' E | 28° 39' | 3° 15' W | |
| Unuk | 32° 00' E | 31° 39' | 0° 15' W | |
| Tab | 34° 00' E | 33° 39' | 1° 45' E | |
| Feat | 33° 30' E | 33° 09' | 1° 15' E | |
| Deed ₂ | 32° 30' E | 32° 09' | 0° 15' E | |
| Act | 29° 45' E | 29° 24' | 2° 30' W | |
| Bag ₂ | 27° 45' E | 27° 24' | 4° 30' W | |
| Joy | 32° 00' E | 31° 39' | 0° 15' W | |
| Burroughs | 31° 29' E | 31° 29' | 0° 25' W | |

Respectfully submitted,

Roger C. Rowse

Roger C. Rowse,
H. & G. Engr.,
C. & G. Suvey.

FORWARDED:

F. H. Hardy

F. H. Hardy,
Commanding Officer,
U.S.C. & G.S.S. EXPLORER.

LIST OF PLANETABLE POSITIONS

| Description | Latitude | | | Longitude | | |
|--------------------------|----------|----|------|-----------|----|-----|
| | o | ' | m. | o | ' | m. |
| Small cliff (200' elev.) | 56 | 02 | 637 | 131 | 05 | 815 |
| Small white cliff | 55 | 57 | 875 | 131 | 11 | 234 |
| Peak 4370' | 55 | 54 | 750 | 131 | 14 | 422 |
| Peak 4286' | 55 | 55 | 1700 | 131 | 15 | 740 |
| Peak 4255' | 55 | 55 | 1537 | 131 | 16 | 833 |
| Peak 3817' | 55 | 55 | 1195 | 131 | 18 | 528 |
| Peak 2920' | 55 | 59 | 1333 | 131 | 20 | 722 |
| Peak 3330' | 56 | 01 | 657 | 131 | 17 | 642 |
| Peak 3300' | 56 | 01 | 1007 | 131 | 16 | 833 |
| Peak 2925' | 56 | 01 | 234 | 131 | 16 | 10 |
| Peak 2665' | 56 | 01 | 248 | 131 | 14 | 415 |
| Peak 2360' | 56 | 01 | 512 | 131 | 13 | 666 |
| Hill 860' | 56 | 02 | 657 | 131 | 13 | 453 |
| Peak 4195' | 56 | 04 | 1096 | 131 | 10 | 179 |
| Peak 4220' | 56 | 05 | 626 | 131 | 09 | 232 |
| Hill 2680' | 56 | 00 | 762 | 131 | 06 | 232 |
| Peak 3360' | 55 | 59 | 1209 | 131 | 05 | 834 |
| Hill 1110' | 56 | 00 | 368 | 131 | 09 | 202 |
| Hill 1234' | 55 | 59 | 263 | 131 | 08 | 994 |
| Hill 1170' | 55 | 59 | 414 | 131 | 11 | 658 |
| Hill 2560' | 55 | 58 | 792 | 131 | 07 | 642 |
| Hill 1500' | 55 | 57 | 881 | 131 | 09 | 259 |
| Hill 1500' | 55 | 56 | 1832 | 131 | 09 | 232 |

DEPARTMENT OF COMMERCE
U. S. COAST AND GEODETIC SURVEY

REG. NO. 4629

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. "B"

REGISTER NO. 4629

State ~~S. E.~~ Alaska

General locality Behm Canal, ~~S. E.~~ Alaska

Locality Vicinity of Burroughs Bay

Scale 1:20,000 / Insert 1:10,000 Date of survey Apr. 16 - June 11, 1931.

Vessel U.S.C. & G.S. Ship EXPLORER

Chief of Party E. W. Eickelberg

Surveyed by E. W. Eickelberg, and Roger C. Rowse

Inked by Roger C. Rowse

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

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

Instructions dated March 24, 1931.

Remarks: