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U. S. COAST & GEODETIC SURVEY
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DEPARTMENT OF COMMERCE

U. S. COAST AND GEODETIC SURVEY

R. S. Patton, Director

State: S.E. Alaska.

DESCRIPTIVE REPORT

Topographic
Hydrographic

Sheet No. "F" 4726

LOCALITY

Kasuyka Bay, S. E. Alaska.

PI. TURBOT TO COSMOS COVE

EAST COAST. BARANOF I.

1932.

CHIEF OF PARTY

G. C. Jones.

U. S. GOVERNMENT PRINTING OFFICE: 1920

DESCRIPTIVE REPORT

TO ACCOMPANY TOPOGRAPHIC SHEET "X"^F

KASNYKU BAY, S. E. ALASKA

1932.

DESCRIPTIVE REPORT
TO ACCOMPANY TOPOGRAPHIC SHEET ^F"X"

KASNYKU BAY, S. E. ALASKA.

INSTRUCTIONS:

The Director's Instructions dated March 24, 1932, required a survey of Kasnyku Bay, which is a small cove off Chatham Strait, along the East shore of Baranof Island.

LIMITS AND SCALE:

The survey includes the shoreline between Cosmos Cove, on the North (latitude $57^{\circ}14'$, longitude $134^{\circ}50'$) and Point Turbot on the South (latitude $57^{\circ}09'$, longitude $134^{\circ}47'$).

The scale of the sheet is 1:10,000, with the exception of Kasnyku Bay, which is surveyed on an insert of 1:5,000.

CONTROL:

Four triangulation stations, Kelp 2, Turbot 2, Rocky and Wash, were recovered. These stations were established as a part of the second order scheme executed by J. M. Smock, in 1925, in Chatham Strait.

"Kelp 2", at the entrance to Cosmos Cove, furnished control for the northern limit of the work.

"Turbot 2", located on White Rock at Point Turbot, furnished control for the southern limit of the survey.

The baseline "Rocky-Wash", on the eastern shore of Chatham Strait, was used to determine two stations (Round and North) at the entrance to Kasnyku Bay.

Kasnyku Light situated near the head of the Bay, was located as an intersection station by cuts from "Round", "North" and "Rocky".

In addition to the above, three signal cloth banners established by the signal building party were observed by single cuts from "Rocky" and "Wash". These three intersection stations, ("Tak", on a rock South of Turbot Point; "Bot", about one-half mile North of Turbot Point; and "Kas", near the head of Kasnyku Bay) although having no check cut did aid in the control of the topography and hydrography.

SURVEY METHOD:

Traverses' were run between triangulation stations. With exception of the short traverse between station "Turbot" and station "Bot", all traverses closed well within the allowable standard of accuracy. When re-examined in the field, the traverse between station "Turbot" and station "Bot" was corrected. It was found that an error in rod reading had been made in the original traverse.

WEATHER AND WORKING DAYS:

With the exception of three days there was rain throughout the period of this survey. In order that the work might be finished as quickly as possible, thus avoiding the necessity of the ship making a long run for additional fuel and supplies, the work was carried on during all but the heaviest of rain squalls and on Sundays, if possible.

SHEET DISTORTION:

The variable weather caused unequal distortions in the sheet. This necessitated continual application of corrections to the rod readings.

UNFINISHED WORK:

Due to unfavorable weather and lack of time no form lines were obtained.

The topographer neglected to draw a magnetic meridian on the sheet.

JUNCTURE WITH PREVIOUS WORK:

This survey joins with chart No. 8243, on the South at Point Turbot. Due to the fact that this chart is on a scale of 1:20000 and to the unknown difference in datum on which it is constructed, we are unable to determine definitely the closure with the old work.

On Chart No. 8243, at the entrance to Cosmos Cove, are shown two small islands, in addition to the reef on which station "Kelp 2", is located. As shown by this survey there is but one island, in addition to the reef, at the entrance to Cosmos Cove. This island is entirely wooded except for a small neck of land between the Southwestern point and the rest of the island. This small neck or gap is grass covered. From the Southeastward the southwest point appears as a separate small island.

At the Southern point of the entrance to Cosmos Cove, where the present survey ends, it is believed that a satisfactory juncture has been made, but due to the unknown difference in datum this cannot be determined definitely. From this point South the shoreline shown on Chart ~~8243~~
8250, is definitely wrong.

GENERAL DESCRIPTION OF THE COAST LINE:

From Point Turbot, to the head of Kasnyku Bay, the shoreline is in general rocky cliff, rising abruptly to irregular rocky peaks two to three thousand feet in elevation. These hills and peaks are wooded from the shoreline up to an elevation of approximately two thousand feet. The North shore of Kasnyku Bay and the shoreline between Kasnyku Bay and Cosmos Cove, is in general small rocks and boulders, with several points of rock cliff. The hills on the peninsula between Kasnyku Bay and Cosmos Cove are all wooded and rise to elevations of fifteen hundred to two thousand feet.

LIST OF NEW NAMES:

Well established local names: Hidden Falls, Ell Cove, Waterfall Cove, Round Island, and North Point.

Hidden Falls is the post office address of the place and therefore it is considered to be the official name.

Mr. B. F. Ficken, manager and part owner of the Hidden Falls Lumber Mill, stated that Ell Cove, Waterfall Cove, North Point and Round Island are local names by which the places (as shown on the sheet in pencil) are commonly known. Mr. Ficken has been living at Hidden Falls for five years.

LIST OF OFF-LYING ROCKS AND DANGERS:

On 1:10,000 scale:

1. Rock bare 7-1/2 feet at M.L.L.W., 245 meters S. 5° E. (true) of station "TURBOT 2", in Latitude $57^{\circ}09'$, 1280 meters, Longitude $134^{\circ}47'$, 917 meters.

2. Rock awash at M.H.H.W., 87 meters S. 23° E. (true) of station "OLE", in Latitude $57^{\circ}11'$, 1800 meters, Longitude $134^{\circ}49'$, 902 meters.

3. Along the South shore of the entrance to "Ell" Cove a rock bares 9 feet at M.L.L.W., 136 meters S. 48° W. (true) of signal "LICK", in Latitude $57^{\circ}12'$, 132 meters, Longitude $134^{\circ}50'$, 323 meters.

4. Along the South shore of the entrance to "Ell" Cove a rock bares 4 feet at M.L.L.W., 202 meters, S. 48° W. (true) of signal "LICK", in Latitude $57^{\circ}12'$, 92 meters, Longitude $134^{\circ}50'$, 370 meters.

On 1:5,000 scale insert:

1. A reef, about 15 meters long North and South, lies fifty meters off the Easternmost rock islet of the group of small islands forming the South side of the main entrance to Kasnyku Bay.

This reef covers one-half foot at M.L.L.W., Location: 77 meters N. 53° E. (true) of signal "OUT", in Latitude $57^{\circ}12'$, 1110 meters, Longitude $134^{\circ}49'$, 882 meters.

2. Rock bare one half foot at M.L.L.W., 65 meters, S. 19° E. (true) of signal "OUT", in Latitude $57^{\circ}12'$, 998 meters, Longitude $134^{\circ}49'$, 922 meters.

3. Rock bare one half foot at M.L.L.W., 92 meters N. 40° W., (true) of signal "OUT", in Latitude $57^{\circ}12'$, 1130 meters, Longitude $134^{\circ}49'$, 1001 meters.

4. Rock awash at three quarters tide, 245 meters, S. 65° E., (true) of triangulation station "ROUND", in Latitude $57^{\circ}12'$, 956 meters, Longitude $134^{\circ}50'$, 252 meters.

5. Rock bare five and one half feet at M.L.L.W., 185 meters, S. 53° E. (true) of triangulation station "ROUND", Latitude $57^{\circ}12'$, 947 meters, Longitude $134^{\circ}50'$, 328 meters.

6. Rock bare one-half foot at M.L.L.W., 100 meters, S. 70° E. (true) of signal "NINE", in Latitude $57^{\circ}12'$, 1320 meters, Longitude $134^{\circ}51'$, 252 meters.

7. Rock bare five feet at M.L.L.W., 120 meters S. 6° E. (true) of signal "ROK", in Latitude $57^{\circ}12'$, 1550 meters, Longitude $134^{\circ}51'$, 297 meters.

8. Rock bare one-half foot at M.L.L.W., 165 meters, N. 63° E., (true) of signal "TWO", in Latitude $57^{\circ}12'$, 1382 meters, Longitude $134^{\circ}51'$, 602 meters.

9. Rock bare five feet at M.L.L.W., 296 meters, S. 37° E. (true) of Kasnyku Light, in Latitude $57^{\circ}12'$, 1638 meters, Longitude $134^{\circ}51'$, 660 meters. This rock is marked by spindle beacon with barrel top.

10. Rock bare five feet at M.L.L.W., 193 meters, S. 55° W. (true) of Kasnyku Light, in Latitude $57^{\circ}12'$, 1773 meters, Longitude $134^{\circ}51'$,

997 meters. This rock is marked by a spindle beacon with barrel top.

11. Rock bare 4 feet at M.L.L.W., 215 meters S.35°W. (true) of Kasnyku Light, in Latitude 57°12', 1700 meters, Longitude 134°51', 965 meters.

12. Rock bare 5 feet at M.L.L.W., 226 meters, S. 66° W. (true) of Kasnyku Light, in Latitude 57°12', 1786 meters, Longitude 134°52', 40 meters.

13. Rock bare 2 feet at M.L.L.W., 84 meters N. 21° E. (true) of Kasnyku Light, in Latitude 57°13', 95 meters, Longitude 134°51', 810 meters.

14. Rock bare 5 feet at M.L.L.W., 52 meters, N. 69° E. (true) of signal "AL", in Latitude 57°13', 280 meters, Longitude 134°52', 202 meters.

15. Rock bare 3-1/2 feet 274 meters N. 15° E. (true) of Kasnyku Light, in Latitude 57°13', 283 meters, Longitude 134°51', 768 meters. There is foul area between the rock and the shoreline to the Northward.

16. Rock bare 2 feet at M.L.L.W., 295 meters, N. 28° E. (true) of Kasnyku Light, in Latitude 57°13', 280 meters, Longitude 134°51', 703 meters. There is foul area between this rock and the shoreline Northward.


17. Rock bare 5 feet at M.L.L.W., 102 meters S. 48° E. (true) of signal "STICK", in Latitude 57°13', 826 meters, Longitude 134°52', 8 meters.

18. Rock bare 4 feet at M.L.L.W., 89 meters, S. 38° W. (true) of signal "MAN", in Latitude 57°13', 914 meters, Longitude 134°51', 906 meters. There is another rock which bares 2 feet lying 13 meters S. 62° W. (true) from this position.

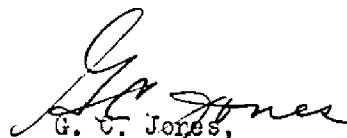
19. Rock awash at M.L.L.W., 200 meters, S. 58° W. (true) of station "NORTH", in Latitude 57°13', 535 meters, Longitude 134°50', 603 meters.

20. Rock awash at M.L.L.W., 167 meters, S. 50° W. (true) of station "NORTH", in Latitude 57°13', 534 meters, Longitude 134°50', 560 meters.

Respectfully submitted,


Henry E. Finnegan,
H. & G. Engr., C. & G. S.

APPROVED AND FORWARDED:


G. C. Jones,
Chief of Party, C. & G. S.,
Comdg. U.S.C. & G.S.S. EXPLORER.

REVIEW OF TOPOGRAPHIC SURVEY No. 4726

Title (Par. 56) *Pt. Turbot to Cosmos Cove, E. Coast of Baranof I. Alaska*

Chief of Party *B. B. Jones* Surveyed by *H. E. Finnegan* Inked by *H. E. Finnegan*

Ship *Explorer* Instructions dated *March 24, 1932* Surveyed in *Sept. 1932*

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.)
None accomplished
5. The delineation of ~~-contours-formlines-~~ is satisfactory. (Par. 49, 50.) *None on sheet*
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.)
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.) *The legends use l.c. instead of caps to indicate the stage of tide.*
9. Rocks and other important details shown on previous surveys and on the chart were verified. (Par. 25, 26, 27.) ✓
The previous survey shows the reef on which Pt. Kepp 2 is located as a reef covering it h.w. The new survey shows it as an islet, and the description of station states it is an island with the station 12 feet above h.w. It should be charted as an island.
10. ~~The span, draw and clearance of bridges are shown.~~ (Par. 16c.)
11. Locations and elevations of summits are ^{not} given. (Par. 19, 51.)
12. ~~The tree 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.

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 ^{not} accomplished on Form 524. (Par. 29, 30, 57, 67 except scaling of IMs and DP's, 68.)
16. A list of landmarks for charts was furnished on Form 567 and plotting checked. (Par. 16d, e, 60.) ✓ *See letter 214/1933, no duplicate in Desc. Rep.*
17. The magnetic meridian was ^{not} shown, ~~and declination was checked.~~ (Par. 17, 52.)
18. The geographic datum of the sheet is *North American 1927* and the reference station is correctly noted. (Par. 34.) ✓
19. Junctions with contemporary surveys are adequate. ✓ *Chart 8243.*
20. Geographic names are shown on the sheet and are covered by the Descriptive report. (Par. 64, 66k.) ✓ *Some of the names in pencil.*
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. ✓ *The 1/10000 scale shoreline is from 0.4 to 0.8 millimeter thick, which is much too heavy.*
23. The Chief of Party inspected and approved the sheet and the descriptive report ~~after review by~~
24. Remarks:

Reviewed in office by *R. J. Christman* June 23, 1933

Inspected:
E. P. Egan

Examined and approved:

L. D. Gilbert
Chief, Section of Field Records

J. B. Bordin
Chief, Section of Field Work

E. W. Henshaw
Chief, Division of Charts

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

DEPARTMENT OF COMMERCE
U. S. COAST AND GEODETIC SURVEY

U. S. COAST & GEODETIC SURVEY
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MAR 21 1933

REG. NO. 4726

TOPOGRAPHIC TITLE SHEET

Acc. No. _____

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. F

REGISTER NO. 4726

State Alaska

General locality East Coast Baranof Island.

Locality PT. TURBOT TO COSMOS COVE
Ketchikan Bay, Chatham Strait, S. E. Alaska.

1:5,000 (Insert)

Scale 1:10,000 Date of survey September, 1932.

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

Chief of Party G. C. Jones.

Surveyed by Henry E. Finnegan.

Inked by Henry E. Finnegan.

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

Contour, Approximate contour, Form line interval No form lines. feet

Instructions dated March 24,, 1932.

Remarks: _____

U. S. COAST AND GEODETIC SURVEY

March 13, 1935.

Chief of Party.

GOVERNMENT PRINTING OFFICE