

2174^b

2174^b

Form 504
 DEPARTMENT OF COMMERCE
 U. S. COAST AND GEODETIC SURVEY

State: ^{SE} Alaska

11-5613

DESCRIPTIVE REPORT.

Hydrog. Sheet No. 2174^b

Baranof Island
 Sitka Harbor—

Vic. of McGraths Dock

1924

CHIEF OF PARTY:

A.M. Sobieralski

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

April 13, 1925.

Report on Verification of
Hydro. Sheet No. 2174b

No bottom characteristics were shown on the smooth sheet.

No boat sheet was used in this work, see page 1, sounding record.

The sheet was poorly protracted and no thought was given to the fact that several soundings were plotted on land and on the dock.

The sounding records were incomplete insomuch as the boats courses were omitted and the letter S used to indicate the fact that the same signals were used for the fixes.

The topography for the smooth sheet as sent in by the field party was an incorrect enlargement from 1:10,000 scale Topo. Sheet No. 4013a.

A photographic enlargement was made from the Topographic Sheet No. 4013a and transferred to the smooth sheet.

Several rocks have been added from the sounding records and topographic sheet.

The soundings were not plotted in accordance with paragraph 336 of the general instructions.



H. R. Edmonston

~~Division of Hydrography and Topography~~

Division of Charts:

Tide reducers are approved in
1 volume of sounding records for

HYDROGRAPHIC SHEET 2174b

Locality: Sitka Harbor, Alaska

Chief of Party: A. M. Sobieralski in 1924
Plane of reference is mean lower low water
9.3 ft. on tide staff at Sitka, Alaska

For reduction of soundings, condition of records satisfactory
except as checked below:

1. Locality and sublocality of survey omitted.
2. Month and day of month omitted.
3. Time meridian not given at beginning of day's work.
4. Time (whether A.M. or P.M.) not given at beginning of day's work.
5. Soundings (whether in feet or fathoms) not clearly shown in record.
6. Leadline correction entered wrong column.
7. Field reductions entered in "Office" column.
8. Location of tide gauge not given at beginning of each day's work.
9. Leadline corrections not clearly stated.
10. Kind of sounding tube used not stated.
11. Sounding tube No. entered in column of "Soundings" instead of "Remarks".
12. Legibility of record could be improved.
13. Remarks



Chief, Division of Tides and Currents.



DESCRIPTIVE REPORT FOR HYDROGRAPHY OF SITKA HARBOR.

A re-examination of the depths of the docks along the Sitka waterfront under instructions dated April 22, 1924.

A request for this work was made because the present chart #8244 showed that the southernmost dock owned by Mr. C.M. McGrath and used by vessels of the Alaska S.S.Co. was wholly inside the three fathom curve at mean lower low water. Because of this fact other vessels which might have used this dock went elsewhere.

A projection of 1:2000 was used, and the hydrography done from a whaleboat using a hand lead. The signals used had been located by triangulation or topography.

The instructions suggested that possibly the dock had been extended but the topography carried on at the same time shows that the position is as represented on the chart.

The results show a possible slight displacement of soundings, but that sufficient soundings had not been taken to determine the three fathom curve correctly.

The least depth off the face of McGrath's dock is 34 feet, and the three fathom curve which is approximately 15 meters north west from the northwest corner of the dock, turns sharply to the north and is 80 meters inside at the face.

R. R. Mone
H. B. E.

Forwarded:

*A. M. Sobieralski H. G. E.
Chief of Party.*

DEPARTMENT OF COMMERCE
U. S. COAST AND GEODETIC SURVEY
WASHINGTON April 17, 1925.

SECTION OF FIELD RECORDS

Report on Hydrographic Sheet No. 2174b

Sitka Harbor, Alaska

Surveyed in 1924

Instructions dated April 22, 1924.

Chief of Party, A. M. Sobieralski.

Surveyed, protracted and soundings plotted by R. R. Moore.

Verified and inked by H. R. Edmonston.

1. The records are defective in that most of the entries fixing the beginnings, endings and turnings of sounding lines were evidently made after the smooth sheet was plotted. These notes should always be made at the time of the operations, as they are intended to serve as checks on the angles. When entered into the records later from either boat or smooth sheet plottings they are of little value and, in some cases, positively misleading.

Boats' courses were omitted throughout.

2. The plan and character of development conform to the requirements of the General Instructions.
3. The specific instructions were noted on a copy of the chart which is not available.
4. The sounding line crossings are adequate considering the uneven character of the bottom.
5. The information is sufficient for drawing the usual depth curves.
6. The usual field plotting was done by the field party.

Signals Kod and Dock were wrongly located and the shoreline was so defective that soundings plotted on land and on the docks. When the hydrography was plotted the defects should have been noted and corrected. A careful enlargement in the office of the original topographic survey eliminated all of the defects.

It was necessary to re-protract 60% of the boats' positions. A number of rocks shown on the topographic sheet and in the sounding records were omitted from the field plotting of the hydrography.

7. No further surveying is required within the area of the sheet.
8. The character and scope of the surveying are good and the field drafting fair.
9. Reviewed by E. P. Ellis, April 17, 1925.

HYDROGRAPHIC TITLE SHEET

The finished Hydrographic Sheet is to be accompanied by the following title sheet, filled in as completely as possible, when the sheet is forwarded to the Office.

U. S. Coast and Geodetic Survey.

Register No. 2174^b

State S.E. Alaska

General locality Baranof I., Sitka Harbor

Locality Sitka Harbor—Vicinity of McGrath's Dock.

Chief of party A.M. Sobieralski, H. & G.E.

Surveyed by R.R. Moore, H. & G.E.

Date of survey 1924

Scale 1-2,000

Soundings in Fathoms

Plane of reference MLLW (Sitka)

Protracted by R.R.M. Soundings in pencil by R.R.M.

Inked by Verified by

Records accompanying sheet (check those forwarded):

1 Des. report, 1 Tide books, _____ Marigrams, _____ Boat sheets,

1 Sounding books, _____ Wire-drag books, _____ Photographs.

Data from other sources affecting sheet

Remarks: Tide gauge at McGrath's Dock, Sitka.
Plane of Reference, MLLW, reading on staff ----- 9.84 ft.
Lowest tide observed " " " ----- 6.34 "
Highest " " " ----- 23.44 "

H2174 & examined for Reconst. ch. 8281 JMA 6-15-59

3
0

0
0