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Form 594
DEPARTMENT OF COMMERCE
U. S. COAST AND GEODETIC SURVEY

State: SW Alaska

11-5613

DESCRIPTIVE REPORT.

Hyd. Sheet No. N 4494

LOCALITY:

Alaska Pen. Unga Strait

Balboa Bay

1925

CHIEF OF PARTY:

R. E. Luce

DESCRIPTIVE REPORT TO ACCOMPANY SHEET "N"
HYDROGRAPHY OF UNGA STRAIT.

INSTRUCTIONS

This work, called for by the Director's Instructions dated March 20th 1925, has only been partly completed during the present season, but the records of the work are being sent to the office for inspection.

GENERAL DESCRIPTION OF THE COAST

From signal WEST to BO the beach consists of large boulders with a considerable number of submerged rocks near the shore; the hills behind this section of the coast are rolling and eroded and are covered with green moss. From BO half way to FLAT the hills are covered with a growth of alder; but beyond this point the alder growth stops, and the hillsides are again smooth and green. At station FLAT a sheer black rock cliff rises about fifty feet vertically from the high water mark and extends about 600 meters westward from FLAT. To the westward of this cliff the beach is sandy and is backed by a series of low rolling sand dunes more or less covered with a sparse growth of grass.

LANDMARKS

The black cliff referred to in the preceding paragraph is very prominent. The only other distinctive landmark is the small but prominent headland upon which signal CLIFF is located. The height of CLIFF is only about forty feet but it is black and rises out of a low section of sandy beach.

INSHORE DANGERS

The only inshore dangers are the rocks and foul areas shown clearly on the boat sheets.

ANCHORAGES

Although there are good anchorages in the western arm of Balboa Bay and in other parts nearby, there are no anchorages to be recommended in the area covered by the ship and launch work actually executed during the present season.

SURVEY METHODS

There are no variations from the usual procedure in either the ship or the launch work on this sheet; the sounding records contain all details of the work.

Sheet inspected by commanding officer Sept. 15, 16, 17, 1925

J.P. Luel
Comd'g Officer

Statistics Sheet No. N

Date 1925.	Letter	Volume	Positions	Soundings	Miles Statute	Vessels.
Sept. 15	a	1	92	195	19.2	M.S. 6171
" 16	b	1	46	101	8.0	" "
" 17	c	1	54	136	10.1	" "
" 16	a	2	11	18	1.5	Ship
" 17	b	2	99	185	21	"

302 635 59.80

A plain tide staff in Balboa Bay was used for this work.
 Plane of reference = M.L.L.W.
 Plane of reference, reading on staff =
 Lowest tide observed, " " " "
 Highest tide observed, " " " "

February 12, 1926.

~~Division of Hydrography and Topography:~~

Division of Charts:

Tide reducers are approved in
2 volumes of sounding records for

HYDROGRAPHIC SHEET NO. 4494

Locality: S. W. Alaska

Chief of Party: R. F. Luce in 1925

Plane of reference is
0.1 ft. on tide staff at Balboa Bay

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 in 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.

No reducers entered by field party.



Chief, Division of Tides and Currents,



Report on Hyd. Sheet 4494.

The character and completeness of the records, protracting, and plottings of the soundings were found to be satisfactory.

The tube correction graphs for the tubes used appear not to have been submitted to the Office. Customarily this important data is available in order to check the reduced corrected soundings. The sounding records, however, contained enough data with reference to the different tubes used, with which to make the reductions and in all the examples tried, there were evidences of careful numerical work and checked very closely.

The sheet was clean, legible and free from features marking poor draftsmanship.

Respectfully submitted,
G. Prigori

May 12, 1926.

DEPARTMENT OF COMMERCE
U. S. COAST AND GEODETIC SURVEY

WASHINGTON

May 29, 1926.

SECTION OF FIELD RECORDS

Report on Hydrographic Sheet No. 4494

Balboa Bay, Alaska Peninsula

Surveyed in 1925

Instructions dated March 20, 1925

Chief of Party, R. F. Luce.

Surveyed by C. Shaw and W. Weidlich.

1. The records conform to the requirements of the General Instructions except for the omission of boats' courses on the motor sailer work, and the scarcity of bottom characteristics while sounding with tubes.
2. The plan and character of development conform to the requirements of the General Instructions.
3. The plan and extent of development satisfy the specific instructions.
4. The sounding line crossings are adequate, and the information is sufficient for drawing the usual depth curves.
5. None of the usual field plotting was done by the field party, the protracting and pencil plotting having been done in the Washington office by a field officer temporarily on duty there. It was well done.
6. The junction with H. 3574 is satisfactory, and no additional surveying is required within the area covered by the survey.
7. The character and scope of the surveying and field drafting are excellent.
8. Reviewed by E. P. Ellis, May, 1926.

DEPARTMENT OF COMMERCE
U. S. COAST AND GEODETIC SURVEY

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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. N 4494

State . . . SW. Alaska

General locality Alaska Peninsula - Unga Strait

Locality Unga Strait, Balboa Bay

Chief of party R. F. Luce

Surveyed by . . Charles Shaw and W. Weidlich

Date of survey September 1925

Scale 1 to 20,000

Soundings in . . Fathoms

Plane of reference M.L.L.W.

Protracted by B. Williams. Soundings in pencil by B. Williams

Inked by Verified by

Records accompanying sheet (check those forwarded):

- Des. report, Tide books, Marigrams, Boat sheets,
- Sounding books, Wire-drag books, Photographs.
- Data from other sources affecting sheet

Note: The smooth sheet has not been started; boat sheets only are forwarded.

Remarks:

Smooth Sheet submitted Mar. 26, 1926 CAS