

5280

U. S. COAST & GEODETIC SURVEY
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DEPARTMENT OF COMMERCE
U. S. Coast & Geodetic Survey

State: S. W. Alaska

DESCRIPTIVE REPORT

Hydrographic Sheet No. 22
5280

Locality:

Kodiak Island

Narrow Cape to Dangerous ^{Cape} Passage

1932

Chief of Party:

F. B. T. Siems, H. & G. E.

5280

DEPARTMENT OF COMMERCE
U. S. COAST AND GEODETIC SURVEY

REG. NO. 5280

HYDROGRAPHIC TITLE SHEET

The Hydrographic Sheet should be accompanied by this form, filled in as completely as possible, when the sheet is forwarded to the Office.

Field No. 22

REGISTER NO. 5280

State ~~SW~~ Alaska.

General locality Kodiak Island.

Locality Ugak Bay Entrance to Dangerous Cape

Scale 1:20,000 Date of survey July-August, 19 32

Vessel Str. SURVEYOR

Chief of Party F. B. T. Siems, H. & G. E.

Surveyed by J. Bowie, F. B. Quinn, G. M. Marchand, C. J. Beyma.

Protracted by F. B. Quinn and W. J. Chovan.

Soundings penciled by R. C. Rowse, J. Bowie, V. M. Gibbens, M. G. Ricketts.

Soundings in fathoms ~~feet~~

Plane of reference M L L W

Subdivision of wire dragged areas by

Inked by C.R. Bush

Verified by C.R. Bush

Instructions dated April 22, 19 32

Remarks: 3 boat sheets.

DESCRIPTIVE REPORT TO ACCOMPANY

SHEET NO. (12 472)

NARROW CAPE TO DANGEROUS CAPE, KODIAK ISLAND.

DATE OF INSTRUCTIONS: April 22, 1932.

CHIEF OF PARTY: F. B. T. Siems. SHIP: Surveyor.

LIMITS: Joins sheets 23, 24, 42 and 4855. The last-named sheet was done in 1928 and 1932. The others were done in 1932.

SURVEY METHODS: Regular methods were followed using both wire and hand lead.

DISCREPANCIES: The smooth sheet, which is correct, will be found to differ slightly from the boat sheet where signal "Shag" was used, noticeably near lat. 57-21.5, long. 152-31. The difference in position of "Shag" is due to sextant control used to start hydrography in advance of completed topography.

DANGERS: The following dangers were found and least depths determined by numerous soundings - - (not by wire drag):

2 $\frac{1}{2}$ fms.	-- 2/3 mile offshore --	lat. 57-19.9,	long. 152-36.7	✓
2-4/6 "	-- 350 meters offshore--	" 57-21.6,	" 152-36.3	✓
7-3/4 "	-- $\frac{1}{2}$ mile offshore--	" 57-21.7,	" 152-35.8	✓
3-4/6 "	-- 1/3 mile offshore--	" 57-22.8,	" 152-35.8	✓
$\frac{1}{2}$ "	-- Open water 1 mile S.E. from Long Island--	" 57-24.8,	" 152-33.3	✓
3-2/6 "	-- 500 meters from Passagshak Point--	" 57-25.2,	" 152-30.2	✓
Rocky shoal with 4 - 4 $\frac{1}{2}$ fms. spots	1 mile SE from Passagshak Point--	" 57-24.5,	" 152-27.9	✓

In general, the north side of Ugak Bay from Passagshak Bay to triangulation station "Mess" has erratic bottom and many rocks both awash and sunken.

ANCHORAGES: Passagshak Bay has a regularly sloping bottom ranging from 12 fathoms at its entrance to the beach at its head. Rocky and hard sand bottom are found at the entrance, and fine gray sand at the middle and head except close inshore where some boulders are found. A mid-channel

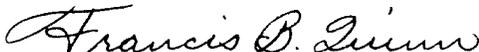
course is essential when abeam of the entrance points to avoid the rocks at the points. Swells make into this bay with S'ly and W'ly weather, -- breaking at the entrance with heavy weather.

With westerly weather a small boat can find indifferent anchorage in 4 - 5 fathoms in the small cove $\frac{1}{2}$ -mile NW of triangulation station "Trio".

COMPARISON WITH PREVIOUS SURVEYS AND OTHER SHEETS: At Dangerous Cape a good junction was made with sheet 4855 (1928 and 1932). Excellent agreement was had with sheet 23 in Ugak Bay, sheet 42 offshore, and sheet 24 from Passagshak Point to Narrow Cape and offshore.

GEOGRAPHIC NAMES: Ugak Bay, Portage Bay, Eagle Harbor, Passagshak Bay, Passagshak Point, Dangerous Cape, and Narrow Cape are old, well-established local names. Long Island is a new name suggested by the field party because of its shape.

Respectfully submitted,


Francis B. Quinn,
Jr. H. & G. E., C. & G. S.

Forwarded, Approved,


A. M. Sobieralski,
Chief of Party.

SECTION OF FIELD RECORDS

Report on H. 5280.

Chief of Party - F. B. T. Siems.

Protracted by - F. B. Quinn, W. J. Chovan.

Verified and Inked by - C. R. Bush, Jr.

Surveyed by - J. Bowie, F. B. Quinn, G. M. Marchand, C. J. Beyma.

Soundings plotted by - R. C. Rowse, J. Bowie, V. M. Gibbens,
M. G. Ricketts.

1. The records conform to the requirements of the General Instructions and are very complete as to rocks, kelp, reefs and other dangers locating same by good ranges which checks assumed distances from plotted positions.

2. The usual depth curves could be drawn clearly except inshore where the numerous rocks make it impossible to do so.

3. The field plotting was complete except that characteristics of several rocks was not shown but evidently omitted in order to clarify the sounded area. The topographic sheet was evidently not compared with the smooth sheet as several rocks were omitted.

4. Several notes to rocks had to be clarified by the office draftsman. Otherwise the field drafting was very complete.

5. Junctions with adjacent sheets are very satisfactory and in no case did the depth curves show any decided bend or change due to junctions being irregular. At the lower end of the sheet the rocks transferred from H. 4855 do not agree with those as transferred from T. 4731.

6. Several differences were noted between rocks on the typographic sheet and hydrographic sheet as to the heights of rocks awash above the datum MLLW. In each case where such differences occurred the sounding volume ruled coupled with the reduction for tide.

The rock island noted in vol. 10, page 33, was changed from 11 feet to 3 feet to agree with the tide at that time.

Around @ Lon and @ Dub the outline of the reef on the smooth sheet does not agree with the topographic sheet.

Page 15, vol. 9, pos. 51a, mentions a rock island 1' above MHHW which does not appear on the topographic sheet.

The rock baring 4' at MLLW - SW of \triangle Dip was changed to "Bares 7' MLLW" to agree with hydrography and stage of tide.

Rocks SW of @ High shown as awash at MLLW rather than baring 1' & 4' to agree with hydrographic record.

The sunken rocks recorded on page 50, vol. 9 and between pos. 94b and 95b changed to rock awash due to tidal reducer of 4 feet at that time.

The two rocks NW of 9 Ar shown as baring 5' & 6' changed to "Bares 6" and Bares 8'" to agree with tidal reducer.

In several places the rock ledges making out from shore were incorrectly shown as rocks awash on the smooth sheet.

Kelp was drawn wherever recorded if possible without obscuring important soundings.

Southwest of 9 Gas the shoal sounding of $1 \frac{5}{6}$ fathoms as plotted was changed to $1 \frac{4}{6}$ fathoms to agree with the records.

On page 44, vol. 8, mention is made of a sunken rock transferred from the topographic sheet. The note in the record is explained by a note on boatsheet which reads "No rock here, mistake in intersection of cuts on Topographic sheet". There is apparently a confusion of cuts, resulting in an erroneous location by the topographer.

7. The work is considered excellent, due to the fact that only four positions were changed and very few soundings. Position numbers were clear and easily followed and drafting very neat and legible.

Submitted by - Chas. R. Bush, Jr.

SECTION OF FIELD RECORDS
Review of Hydrographic Sheet No. 5280
Ugak Bay Entrance to Dangerous Cape, Kodiak I., Alaska.
Surveyed in 1932
Hand lead and wire soundings
Instructions dated April 22, 1932 (Surveyor)
Supplemental instructions dated May 7, 1932.

Chief of party - F. B. T. Siems.
Surveyed by - J. Bowie, F. B. Quinn, G. W. Marchand, C. J. Beyma.
Protracted by - F. B. Quinn, W. J. Chovan.
Soundings plotted by - R. C. Rowse, J. Bowie, V. M. Bibbens,
M. G. Ricketts.
Verified and inked by - C. R. Bush, Jr.

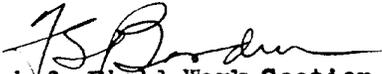
1. The records are generally clear and well kept and conform to the requirements of the Hydrographic Manual. The information furnished relative to rocks, reefs and dangers is quite complete.
2. The plan, character and extent of the survey fully satisfy the specific instructions.
3. There are not many cross lines except in areas where there was close development. These are adequate and the agreement of adjacent lines is satisfactory.
4. The junctions with the adjacent sheets, H. 5252, H. 5253, H. 5254, H. 4855 and H. 4855a are very satisfactory. There is excellent agreement with all of them. Near Dangerous Cape, at the lower end of the sheet, the rocks located on the new topographic survey, T. 4731, do not agree closely with those shown on H. 4855. An investigation reveals that the only source of these rocks on H. 4855 is the boatsheet of that sheet. They should now be superseded by the more accurate determination on T. 4731 and they have been removed from H. 4855.
5. The usual depth curves may be completely drawn with the exception of a few of the shoaler curves adjacent to the shoreline.
6. The prescribed amount of field plotting was well done by the field party. Details of the plotting are fully noted in the verifier's report.
7. There are no previous surveys of this area.
8. The survey as a whole is excellent. The area has been uniformly covered and shoal development appears sufficient except in the case of the shoal in Lat. 57°-25', Long. 152°-32'.5 where the area within the 10 fathom curve should have been more closely developed.
* See next page.
9. The examinations of isolated shoal spots are closer than they appear on the sheet since only the shoalest soundings were recorded. Most of the important shoals are described in the descriptive report.
10. Additional work is recommended. (See par. 8).

H. 5280 - 2.

11. Reviewed by R. L. Johnston.

*Par. 8. (cont'd) A shoal was located in the southern part of this area. There are indications of shoaler depths in the central and northern part. It is possible that the topographer cut to two different rocks, one of which could be located near the 5 fathom sounding.


L. O. Colbert,
Chief, Field Records Section.


Chief, Field Work Section.

Examined and approved:


Chief, Division of Charts.


Chief, Division of H. & T.

Field Records Section (Charts)

HYDROGRAPHIC SHEET No. *H.5280*

The following statistics will be submitted with the cartographer's report on the sheet:

Number of positions on sheet	<i>4186.</i>
Number of positions checked	<i>.193..</i>
Number of positions revised	<i>...4..</i>
Number of soundings recorded	<i>.8686</i>
Number of soundings revised	<i>..19..</i>
Number of signals erroneously plotted or transferred	<i>....0</i>

Date: *Nov. 11, 1933*

Cartographer: *Wm. P. Bush Jr.*

July 18, 1933.

Division of Hydrography and Topography:

✓ Division of Charts:

Tide Reducers are approved in
11 volumes of sounding records for

HYDROGRAPHIC SHEET 5280

Locality **Ugak Bay Entrance to Dangerous Cape, South Coast of
Kodiak Island, Alaska.**

Chief of Party: **F. B. T. Siems in 1932**

Plane of reference is **mean lower low water reading**

1.4 ft. on tide staff at **Saltery Cove, Ugak Bay**

15.5 ft. below B. M. 1

4.6 ft. on tide staff at **Port Hobron**

11.6 ft. below B.M. 1

**Height of mean higher high water at Saltery Cove is 8.4 feet;
at Port Hobron 8.3 feet above plane of reference.**

Condition of records satisfactory except as noted below:

Chief, Division of Tides and Currents