5253

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DEPARTMENT OF COMMERCE

U. S. COAST AND GEODETIC SURVEY R.S.PATTON, Director

State: S.W.ALASKA

DESCRIPTIVE REPORT 5253

Kapaganyhic

Hydrographic

Sheet No. 42

LOCALITY

KODIAK ISLAND

EAST COAST

1932

CHIEF OF PARTY

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

DEPARTMENT OF COMMERCE

U. S. COAST AND GEODETIC SURVEY

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. 42

REGISTER NO. 5253

State XXX.Alaska
General locality XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX
Locality Capa Chiniak to Sitkalidak Str
Scale 1:40000 Date of survey July - September , 1932
Vessel U.S.C. & G.S.S. SURVEYOR
Chief of Party F.B.T.Siems
Surveyed by F.B.T.Siems
Protracted byChester J. Beyma
Soundings penciled by Chester J. Beyma
Soundings in fathoms from
Plane of reference MLW
Subdivision of wire dragged areas by
Inked by
Verified by
Instructions dated April 22,1932
Remarks:

DESCRIPTIVE REPORT TO ACCOMPANY HYDROGRAPHIC FIELD SHEET NO. 42, 1932.

Str. SURVEYOR

Scale 1:40000

F.B.T.SIEMS, Com'd'g.

INSTRUCTIONS:

This survey was executed under Instructions from the Director dated April 22,1932.

SURVEY METHODS:

All the hydrography on this sheet was accomplished by the SURVEYOR using the fathometer as the principal sounding apparatus. Numerous vertical wire soundings were taken to obtain comparisons with the fathometer soundings. Visual fixes were used for position finding. Mountain peaks, located by triangulation and supplemented by topographic and hydrographic locations furnished control.

REDUCTION OF SOUNDINGS:

The fathometer corrections for temperature, salinity and initial are included in a separate report entitled, "Reduction of Fathometer Soundings, ~ 1932".

No sheave corrections were found necessary. The results of the sheave tests are shown on Page 1, Volume 1 of the sounding records.

TIDAL NOTE:

The reducers for the soundings on this sheet were obtained from the standard tide gage at Kodiak and the portable tide gage at Port Hobron.

Kodiak tide reducers were used for the northern part of this sheet; / Port Hobron for the southern part of this sheet.

The dividing line was taken on a line drawn from signal BIRD through a point two miles N.E. of signal Pinnacle Rock.

PLOTTING:

Steel protractors were used exclusively for smooth protracting. In plotting the outer positions of the sheet, steel straight edges along with extension arms had to be used. In such cases it was noted that the arms of the protractor had excessive play to assure one well defined position.

Where vertical casts were taken the shoaler sounding was plotted on the position with the comparitive sounding either below or above and the two soundings connected by a brace. The letters "V.C." and "Fa" were placed opposite their corresponding soundings.

DISCREPANCIES:

A discrepancy exists in Lat.57° 18.2', Long. 152° 19.1', between positions 147P and 148P. It is believed a stray sounding of 24 fathoms was read because further development work between positions 23Q to 31Q

failed to verify the 24 fathom sounding. The 24 fathom sounding is plotted on the sheet but should be rejected. This 24 fathom sounding is plotted on a.L.S.

SHOALS:

10生

There is a shoal area with a least depth of 10 fathoms at MLLW in Lat. 57° 27.0', Long. 152° 06.1'.

Respectfully submitted,

U.S. Coast & Geodetic Survey.

Approved and Forwarded,

A.M. SØBI ERALSKI, H.&G.E.

Chief of Party, C.&G.S.

Section of Field Records

Report on H-5253 Chief of Party: F.B.J. Jiems Brotracted by C.J. Beyma Verified and inhel by g.H. Streeter Surveyed by F. B. J. S. Soundings plotted by C. J. B. Johngraphy inhed by G. N. S.

- 1. Jums in lines are not always recorded otherwise the records conform to the requirements of the general Instructions.
- 2. The usual defith curves can be drawn.
- 3. The field plotting was completed to the extent quesiled in the general I naturations.
- 4. The office droftenam did not Rome to do over any part 1the drofting dome by the field party.
 - 5. The junction with adjacent sheets in salisfactory.
 - 6. (a) The 24 fothers sounding recommended for rejection in the Description Report is not rejected because two 27 fothers soundings are recorded between 30 and 31 Q, in this vicinity.
 - (b) a 19 fothern sounding at 28 K, ting. 152°25', Lat. 57° 21' is rejected. This sounding is questioned in the sounding volume. also two lines, 37 to 38 H and 1 M tend to prove the 19 fothern sounding money.
 - (c) a defith 1 10 fethom in recorded between,

48 and 49° DD", Long. 152° 06.1, Lat. 57° 27.0'.

This is the least digith on the sheet and a further I seems advisable.

The quality 1 the field drafting is good.

Respectfully submitted,

Sept. 16, 1933

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7. The quality of the field drafting in good.

Bespeciately submitted,

Q. H. Streeter

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This is the least legth on the about and a fuller said a fuller.

48 and 49 DD, Long. 152° 06.1, Lak. 57. 27.0!

g. H. Streeter

Respectfully submitted,

Sept. 15, 1933

2 of x 16, 1935

SECTION OF FIELD RECORDS

Review of Hydrographic Sheet No. 5253
Cape Chiniak to Sitkalidak Strait, Kodiak Island, Alaska.
Surveyed July - September 1932
Instructions dated April 22, 1932 (Surveyor)

Chief of Party - F. B. T. Siems.
Surveyed by - F. B. T. Siems.
Protracted and soundings plotted by - C. J. Beyma.
Verified and inked by - G. H. Streeter.

- 1. The records conform to the requirements of the Hydrographic Manual.
- 2. The plan and extent of development conform to the general regulations and satisfy the specific instructions.
- 3. Soundings are consistent and depths at line crossings are in good agreement. The sounding records do not show any special search for least water on the bank noted in the Descriptive Report (lat. 57° 27'.0 long. 152° 06'.1).
- 4. Depth curves can be drawn satisfactorily.
- 5. Junctions with contemporary survey sheets H. 5250, H. 5177, H. 5183 and H. 4855 are satisfactory. Sheet H. 5280 is only partially inked but junction seems satisfactory. Sheet H. 5254 is being verified.
- 6. Comparison. This is the basic survey of the area represented by the sheet (H. 5253). There are a few soundings on chart 8502 but they are of no value for comparison purposes.
- 7. Field drafting was satisfactory. In inking comparative soundings on the sheet, the fathometer sounding was placed on the position and the vertical cast above or below with the abbreviation V. C. instead of as penciled on the sheet by the field party. See Descriptive Report.
- 8. Recommendation. This sheet (H. 5253) is the basic survey of the area represented and is considered satisfactory for charting purposes.
- 9. This survey was accomplished entirely with the fathometer, and is an outstanding example of degree of accuracy possible with this device. There are more than 600 crossings, most of which are perfect and very seldom differing by more than 2%.
 - 10. The bank noted in paragraph 3 shows very uneven bottom in places, and the development is not sufficient to give assurance that the least depth was obtained. All sounding on the bank was done with the fathometer. Additional development should have been done by drifting across the shoal indications. This should have been accomplished on the 10, 12 and 13 fathom spots near the center of the bank, and also on the 14 fathom sounding on the northwest side of the bank and the detached 18 and 19 fathom soundings to the southward.

The location of this bank makes it very important that it be accurately charted. The entire area of the bank, including the offlying 18 and 19

H. 5253 - 2

fathom spots should be wire dragged. No bottoms were obtained on the bank and this deficiency should be supplied.

11. Reviewed by R. J. Christman, Sept. 23, 1933.

Inspected: E. P. Ellis.

Examined and approved:

Chief. Field Records Section.

Chief, Field Work Section.

Chief, Division of Charts.

Chief, Division of H. & T.

Field Records Section (Charts)

HYDROGRAPHIC SHEET No. 5253

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

Number of positions on sheet	3122
Number of positions checked	.123.
Number of positions revised	0.
Number of soundings recorded	18,8,91
Number of soundings revised	28.
Number of signals erroneously	
plotted or transferred	

Date: Sept. 18, 1933
Cartographer: gaylord H. Streeler

May 11, 1933

Division of Hydrography and Topography:

/ Division of Charts:

Tide Reducers are approved in 14 volumes of sounding records for

HYDROGRAPHIC SHEET 5253

Locality Cape Chiniak to Sitkalidak Strait, South Coast of Kodiak Island, Alaska

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

Plane of reference is mean lower low water, reading

4.6 ft. on tide staff at Port Hobron

11.6 ft. below B. M. 1

4.0 ft. on tide staff at Kodiak

19.9 ft. below B. M. 8

Height of mean higher high water above plane of reference is 8.3 feet at Port Hobron; 8.8 feet at Kodiak

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 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.

AdjChief, Division of Tides and Currents.