6716

Form 504 Rev. April 190

DEPARTMENT OF COMMERCE

DESCRIPTIVE REPORT

THEFT

Field No. 1240

Hydrographic

Sheet No.

U.S. COAST & GEODETIC SURVEY

JUN 1 8 1942

Acc. No. ____

State Self Alaska

LOCALITY

Aleska Peninsula, Belkofski Bay

Kitchen Anchorage & Captain Harbor

70003

CHIEF OF PARTY

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DEPARTMENT OF COMMERCE

U. S. COAST AND GEODETIC SURVEY

HYDROGRAPHIC TITLE SHEET

11.6216

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. 1240

REGISTER NO. H6716

StateALASKA	
General locality ALASKA PENINSULA , BELKOESKI	Bay.
Locality CAPTAIN HARBOR AND KITCHEN ANCHORAGE * DELK	DISKI BAY
Scale 1/10,000 Date of survey Sept. 10-13 , 19	41
VesselSURVEYOR	
Chief of PartyG_C_MATTISON	
Surveyed by A.C.THORSEN, G.A.NELSON, V.M.GIRBENS, J.C.	.PARTINGTON
Protracted by E.E.SMITH	
Soundings penciled by E.E.SMITH	
Soundings in fathoms FATHOMS	·
Plane of referenceM L L W	
Subdivision of wire dragged areas by	
Inked by <u>CE. Dennis</u> 8/24/42	
Verified by	
Instructions dated APRIL 6 , 19	39
Remarks: Smooth sheet and plotting by Seattle	
Processing Office.	

J. S. GOVERNMENT PRINTING OFFIC

DESCRIPTIVE REPORT

to accompany

Hydrographic Sheet (Field) No. 1240

Alaska Peninsula, Belkofski Bay

Kitchen Anchorage & Captain Harbor

U S C & G S S SURVEYOR

G. C. Mattison, Comdg.

Season of 1941

Scale 1:10,000

INSTRUCTIONS

Instructions dated April 6, 1939

CONTROL

Three 1925 triangulation stations, CON, KIT and TIN, were recovered. From these stations APPLE and RAY were established to furnish topographic control. All signals other than triangulation were located on the 1941 topographic sheet NAN. 7-6883 (1941)

SURVEY METHODS

Before the topographic sheet was finished, the hydrographic parties began work. They located signals by sextant cuts which are recorded in the sounding records. The smooth sheet is plotted from the topographic positions, of these signals.

Surveying methods are standard. Soundings were made with the 808 Fathometer.

GENERAL DESCRIPTION

These small bays show remarkably smooth bottom. The outer part has depths suitable for anchorage where convenient, except close to the north shore.

Ten fathoms can be carried into the outer part of Captain Harbor and this part has general depths of 8 to 12 fathoms.

Depths of 4 to 8 fathoms prevail over most of the inner part of Captain Harbor and the 3 fathom curve carries practically to the head of the bay, affording good shelter for small boats.

LOW WATER LINE

This piece of work was finished with great expedition late topographic low waterline accepted See par 10-Review in the season by the field party. The low water line on the east side follows close to the high water mark. Along the north shore from stations APPLE to RAY, the low water line developed by hydrography moves the line as shown by the topographic sheet outward for a considerable extent. Between station RAY and signal Cap, the innermost line of soundings is very shoal but did not cross over low water mark. It is probable that the line shown by topographic party should be extended outward considerably.

JUNCTIONS

This sheet joins H-4490 which is not available for comparison. Sarisfactory

DISCREPANCIES

Near Lat. 55° 09.6°, Long. 162° 05.7°, the line from positions

34c to 36c crosses over 18c - 19c, 28c - 29c, and 30c - 31c, with

The differences noted above were largely removed by republing with changes

IN SIGNOIS OF noted in Sounding books.

half to one fathom shoaler depths. Likewise the line from positions
38c to 40c shows about 1/2 fathom shoaler soundings than the closely adjacent lines. Otherwise, except for occasional differences on
steep slopes near shore, the agreement of the soundings is very good.

BAR

At the entrance to Captain Harbor a slight bar extends off the north side with a shoalest sounding of 7% fms. near the middle of the entrance - see position 165b.

See par 8-Review

75

TIDE REDUCERS

Reducers for tide were taken from automatic tide gage at King Cove.

STATISTICS

Positions	•	•	٠	•	•	•	•	. 683
Soundings	•	•	•	•		•	•	.3767
Statute miles of sounding line.	•	•	•	•	•	•	•	. 86.2
Area in square statute miles	•	•	i				•	. 3

Report written in Seattle Processing Office,

E. E. Smith

Assoc. Cartographic Engineer

Forwarded, approved

Officer in Charge

Seattle Processing Office.

ft.

TIDAL NOTE

Sheet Field No. 1240

King	Cove Standard Gage:														
	Latitude	•	•	•	•	•	•	•		•		55°		03.7'	N
	Longitude	•	•	•	•		•	•	•	•	16	2•		19.1'	¥
	Staff reading of MLLW.			•		•	•	•		•		•	•	. 6.24	ſ
	Highest tide on staff.	•		•	•				•		•			•	f

Surveys Section (Chart Division)

HYDROGRAPHIC SURVEY NO.

Records accompanying survey:	
Boat sheets : sounding vols. (3).; w	
bomb vols; graphic recorder rolls	(2) (in one envelope)
special reports, etc. one overlay tracing	of field polething.
The following statistics will be submitted rapher's report on the sheet:	with the cartog-
Number of positions on sheet	683
Number of positions checked	3
Number of positions revised	••••
Number of soundings recorded	3767
Number of soundings revised (refers to depth only)	
Number of soundings erroneously spaced	
Number of signals erroneously plotted or transferred	••••
Topographic details Time	1/1
Junctions Time	
Verification of soundings from graphic record Time	
Verification by CE Dennis Total time	22½ Date \$/2//42.
Review by G.F. Jordan Time	/4 Date .9/4/4.2

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MEMORANDUM IMMEDIATE ATTENTION

SURVEY DESCRIPTIVE REPORT	No. H H6716
	Maccata

received June 18, 1942 registered July 11, 1942 verified reviewed approved

This is forwarded in order that your attention may be directed to the matters as indicated below. Please initial in column 3 as an acknowledgement that your attention has been thus directed. The complete original records are available if desired. If you cannot give this your immediate attention, please initial, note, and forward to the next section marked, calling for the records at your convenience.

ROUTE		Initial	Attention called to
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RETURN TO

82 R. W. Knox



TIDE NOTE FOR HYDROGRAPHIC SHEET

July 30, 1942.

Division-of-Hydrography-and-Topography:

/ Division of Charts: Attention: Mr. H. R. Edmonston

Plane of reference approved in yolumes of sounding records for

HYDROGRAPHIC SHEET 6716

Locality Captain Harbor and Kitchen Anchorage, Alaska Peninsula, Belkofski Bay, Alaska.

Chief of Party: G. C. Mattison in 1941
Plane of reference is mean lower low water reading
6.2 ft. on tide staff at King Cove
23.0 ft. below B. M.2

Height of mean high water above plane of reference is 6.1 feet.

Condition of records satisfactory except as noted below:

Oft Chief, Division of Tides and Currents.

154837

DIVISION OF CHARTS

SURVEYS SECTION

REVIEW OF HYDROGRAPHIC SURVEY

REGISTER NO. 6716 Field No. 1240

Alaska Peninsula, Belkofski Bay Surveyed in September 1941; Scale 1:10,000 Instructions dated April 6, 1939

Soundings:

Control:

808 Fathometer

Visual three-point fix

Chief of Party - G. C. Mattison Surveyed by - Ship's Officers Protracted by - E. E. Smith Soundings plotted by - E. E. Smith Verified and inked by - C. E. Dennis Reviewed by - G. F. Jordan Inspected by - H. R. Edmonston

1. Shoreline and Signals

The origin of the shoreline and signals is given on the first page of the descriptive report.

2. Sounding Line Crossings

Satisfactory.

3. Depth Curves

The depth curves are satisfactory with the exception of the low water curve which is discussed in Par. 10.

4. Junctions with Contemporary Surveys

The present survey was recommended in the review of H-4490 (1925), paragraphs 8b and 8c, and covers the N.E. section of this prior survey. A satisfactory "butt junction" is made with it.

5. Comparison with Prior Surveys

H-3306 (1911)

A reconnaissance line at the N.E. end of the prior survey overlaps the present work. The soundings on

that line are in very poor agreement with the present survey, the differences varying from 3-70fm. in 180fm. This discrepancy is believed due to lack of adequate signal control at the head of Belkopski Bay on the prior survey.

H-4490 (1925)

The present survey is in good agreement with this prior survey with the exception that, out from 15fm, depths, the present depths are 2fm. shoaler in the area south of Lat. 55°08.3'.

A 10-fm. sounding on the prior survey at Lat. 55°07.89', Long. 162°07.0', charted on 8703, falls in a closely developed area of 13fm. on the present survey. This sounding is actually 10-3/4fm. in the records and is believed to be in error, as two "misses" follow it in the records and, also, because of the smooth 13-fm. bottom indicated by the closely spaced lines on the present survey. The 10-3/4 (10fm. charted) sounding should be disregarded.

T-4144 (1925)

It is to be noted that this prior topographic survey shows kelp close to the east shore from the southern limits of the present survey to inside the entrance to Captain Harbor. No kelp is indicated on T-6883 (1941), or the present survey.

6. Comparison with Chart 8703 (latest print of 6-23-42)

- (a) Within the area of the present survey this chart is compiled from H-4490 (1925). The one disagreement has been discussed under a preceding paragraph.
- (b) There are no dredged channels nor aids to navigation within the present survey.

7. Condition of Survey

- (a) The sounding records are satisfactory.
- (b) The descriptive report was written by the Processing Office and covers all matters of importance.
- (c) The plotting by the Processing Office is satisfactory except that a rechecking of the fathogram

in some instances would have resulted in eliminating many irregular points and bights in the depth curves. The more important irregularities have been disposed of.

8. Compliance with Instructions for the Project

The general scope and development is very good and complies with the specific instructions. However, it is to be noted that the 7-3/4-fm. sounding mentioned in the descriptive report at Lat. 55°09.1', Long. 162°06.73' is reasonably assumed to be the least depth on a mud or sand bar in the middle of the entrance to Captain Harbor. This assumption is not definite as this 7-3/4fm. sounding, substantiated by 8-1/2fm. and 8-3/4fm. soundings on lines slightly south but not plotted, falls on the end of the bar rather than shoreward.

Although the soundings in this area are adequate for normal draft vessels and for charting, a few drift soundings and bottom characteristics at this position would have been conclusive.

9. Additional Field Work Recommended

None.

10. Low Water Line

The descriptive report refers to discrepancies between the present hydrographic and topographic (T-6883 (1941)) surveys in delineating the low water line. It is pointed out in that reference that the soundings did not cross over the low water line and, for that reason, the hydrographic low water line has been eliminated where this condition exists.

However, there <u>are</u> places where the zero soundings on the present survey are considerably farther from shore than the topographic low water line. This discrepancy is considered to be due to the use of the fathom phase on the fathometer, resulting in interference, in shoal water, between the recordings of the bottom and the initial. A more accurate low water line and, also, more regular curves would have been possible had the A and B phase, in feet, been used in Captain Harbor where the depths are under ll fm. and the slopes steep.

The zero soundings have been eliminated and the low water line taken from T-6883 (1941).

H-6716 (1941) - 4

11. Superseded Surveys

The present survey supersedes the following surveys with the exception of bottom characteristics:

H-3306 (1911) in part H-4490 (1925) " "

Examined and approved:

Chief, Surveys Section

Chief, Division of Charts

Chief, Section of Hydrography

Chief, Division of Coastal Surveys applied to chart 8703 Sufet. 11, 1942 g. K. s.

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