FORM 504
Rev. April 1935
DEPARTMENT OF COMMERCE
U. S. COAST AND GEODETIC SURVEY

DESCRIPTIVE REPORT

Topographic | Sheet No. 6352

State S.E. Alaska

LOCALITY
Sitha Sound Harbor
Approaches to Sitka, Alaska

Eastern Channel to Hasiana I

193**8**

OHIEF OF PARTY

U. S. GOVERNMENT PRINTING OFFICE





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. ___2 H 6352 REGISTER NO. 6352 State S. E. Alaska Approaches to Sitka Harbor General locality Sitka Eastern Channel to Kasiana Is. Locality Approaches to Sitke, Alaska Scale 1:5,000 Date of survey June-August 1938 Vessel U.S.C. & G. S. S. EXPLORER Chief of Party G. C. Jones Surveyed by L. C. Wilder Protracted by V. Weidlich Soundings penciled by Weidlich Soundings in fathoms& sixths Plane of reference Mean lower low water Subdivision of wire dragged areas by_____ Inked by Wallace a. Bruder Verified by W. a. B. Instructions dated March 7, 1938 Supplemental, May 5 1938

DESCRIPTIVE REPORT

TO ACCOMPANY HYDROGRAPHIC SHEET NO. 6352

APPROACHES TO SITKA, ALASKA

S. E. ALASKA

1-9-3-8

DESCRIPTIVE REPORT

TO ACCOMPANY HYDROGRAPHIC SHEET NO: 6352

APPROACHES TO SITKA, ALASKA

S. E. ALASKA

1 9 3 8

AUTHORITY:

This survey was made under instructions to the Commanding Officer, Ship EXPLORER, dated March 7, 1938 and Supplemental Instructions dated May 5, 1938.

SCALE:

The scale is 1:5,000.

LIMITS:

This survey covers the approaches to Sitka, Alaska, with the exception of the Sitka waterfront, from Latitude 57° 01½ to Latitude 57° 04½, and from the mainland of Baranof Island west at the north part of the sheet to Longitude 135° 23° and at the southern part of the sheet to Longitude 135° 22°. This includes the Morthwest Channel, the Middle Channel and Whiting Harbor.

METHODS:

Standard Coast Survey methods were used. A catamaran (two skiffs secured together) was used for a good share of the work, powered with an outboard motor. At the north end of the sheet lines were not run by ranges but by means of a constant sextant angle between a distant object and a point on the beach through which the projected sounding line passed. This gave a slightly curved line but the control of the vessel on the line was better than was possible by natural ranges.

CONTROL:

Triangulation stations and hydrographic signals located by topography were used for all sextant fixes.

GETERAL CHARACTERISTICS OF THE SHORELINE AND BOTTOM:

Shoreline about the high and low water lines is with few exceptions boulders or ledge. Sand in a few of the small bights.

The bottom is mostly sand or gravel approaching the shores and ledge or boulders around rocky points or foul areas. Well off the shoreline, a good majority of the bottom is mud but there are numerous areas of hard bottom, sand or gravel.

CURRENTS AND TIDE RIPS:

An attempt was made to obtain information regarding currents during the course of the hydrography by drifting when calm etc., but currents are very small in this locality and no particularly definite deductions coud be made except as follow. I concluded that the flood set in from the west or southwest and carried thru the channel east of Japonski Id. and along the west shore of Japonski Id. from south to north. The flood does not set to the southeast in the Northwest Channel. Tide ebbs to the southeast past Sitka and over an area reaching at least one half mile NW of Sitka; beyond this it may ebb to the north and northwest but such was not observed. It ebbs to the south and southeast in hiting Harbor.

No heavy or moderate tide rips were observed except about the off-lying islands which was caused by small currents flowing around these islets, in all probability.

DISCREPANCIES:

No discrepancies were noted.

COMPARISON WITH OTHER SURVEYS:

Sheet No. 2174, 1893, 1:10,000. The scale and lack of development of this ofer survey render comparison of little value. Many of the shoals in and adjacent to Middle Channel and Old sorvey to the northwest thereof were entirely missed or not developed on shows 4 fms. the 1893 survey. On the two shoals (4 1/6 and 4 2/6 fms., 1938)survey) mid channel at the north entrance to hiting Harbor, slightly less water was obtained on the old survey but this must be in error as extreme care was taken on the present survey to obtain the least depths.

but old soundings were read to nearest fathom.

Comparison with Chart 8244 - 1:10,000. All the shoals

on this chart were carefully developed on the present survey. Hany shoals not indicated on the chart were found. Chart shows a 3 fm. spot at buoy S-1 which was disproved on the present survey. The detached 5 fm. curve (showing a 4 3/4 and 3 3/4 fm. sounding) close off the west shore of Japonski Island is not extant. It was nnt found on the 1938 survey. 4% (actually S) falls near similar depths on present survey. 3 and 3% discussed in review.

CHANNELS, ANCHORAGES AND AIDS TO MAVIGATION

The fixed aids to navigation in the surveyed area of this sheet are Channel Rock Light and the several (4) buoys Also Harbor Rock shown at the NW approach to the Sittle Water Foot Light. shown at the NW approach to the Sitka waterfront and Harbor Buoys are not fixed. Rock Light and Black Spar 5-/

There are two anchorages in this area for the larger ships; any number for fishing vessels and small craft provided local knowledge is had regarding off-lying rocks and dangers.

One ship anchorage, and it is the better of the two, is just off the channel course in the Morthwest Channel approach to Sitka, mud bottom in about 8 fms. with Channel Rock Light bearing 2890 T (259 Mag.), distant 1/4 mile. Depending upon the amount of swinging room and shelter required, anchorage can be had to the southeast (closer to Sitka) or to the northwest (NW of Channel Rock Light) of this anchorage position. The bottom to the north and northwest of Channel Rock Light is not a good holding bottom as it is mostly hard, gravel, or rocky.

In Whiting Harbor, anchorage can be had in about 12 fms. of water, mud bottom, with the SN tangent of Japonski Id. bearing 110° T (80° Mag.) distant about 1/4 mile and the group of bare rocky islets off the west shore of Japonski Id. bearing 200 T (350° Mag.). This position can be changed to the NW or SE depending on the shelter required. (In mid-channel off the group of barerocky islets above mentioned, is a rocky shoal middle ground of 4 2/6 fms. least depth.) Shelter afforded in whiting Harbor in severe weather is only fair, somewhat exposed to "'ly winds and swell.

The course into Sitka by the Northwest Channel is 132 T (102 Mag.) to pass 60 yds. off black spar S-1 and 300 yds. off Channel Rock Light, with Harbor Rock Light ahead, and hold this course until abeam the first black spar buoy approaching Harbor Rock Light.

Coming into Sitka Harbor from the southeast, pass about 50 yds. off the mills Dock (abreast Harbor Id.) or about 1/3 the distance from Mills dock to the high water rocks and islets off

Harbor Island. There is a 1 5/6 fms. rock about 90 yds. off Mills dock. Opposite side of channel.

Coming into Miting Harbor, give the north end of Sased 1d. a berth of 400 yds. and come down the middle of Whiting Harbor on a course of 140 T (110 Mag.) to an anchorage above specified. This mid-channel course will pass over the 4 2/6 fms. middle ground mentioned above.

Directions for the Middle Channel into Sitka will not be written as this channel is not recommended. Shoals and dangers are so numerous that only small vessels with thorough local knowledge should use it.

LANDHALKS:

The only landmarks on this sheet are the aids to navigation. It is understood that the radio towers at the Air Base are to be removed.

SHOALS, CESTRUCTIONS AND DAMGERS:

The shoals and obstructions on this sheet are very numerous and only those of importance will be noted. (Those which might be important for piloting purposes for vessels other than small fishing vessels and launches).

Shoals in the vicinity of Middle Channel:

1.	Shoal	57-01.45 135-22.05	6 5/6 fms.	Rky	between 93-5% on Heaseway 94g blue
2.	• •	57-01.4 135-21.0	3 1/6 "	Rky	130u green 🗸 🗸
3.	11	57-01.4 135-20.75	2 2/6 "	₽ ky	129u green
4.	, 11	57-01.6 135-21.05	5/6 "	Pky	133u green
5.	Pritchard R		See Topo Sheet	±**±±**,	
6.	Shoal	57 + 01.9 135 - 22.1	1 2/6 fms.	Rky	ld red
7.	11	57-02.0 135-21.0	56		22v green 45 on H-6356 WD.
8.	11	57-02.3	5/6 "	Rky	3lv green ✓ ✓
9.	Mear Rose R	k 135-20.65 57-02.45 135-20.5	2 2/6 "	Rky	931 green 🗸

10.	Shoal	57-02.35 135-20.35		1/6	fms.		33v	green	I fm.	on H-6	W.D.
11.	tt .	57 - 02.55 135 - 20.2				Rky		green	Plotted awash	WITTA	V.
	Sho	als in vici	nity	of S	itka Wa	aterfront					
12.	Ledge	57-03.15 135-20.6	2	n w . w n . w	fms.	R ky	7t	green Conwa	v / -		-
	•	135-20.6	dock	146			V				
13.	Shoal	57 - 03.05	. 3	3/4.	fms.	Hard vire dra <i>e</i>	1268L	green	11 /	V	1
		100-20.00	in a	rea -	possi	bly bould	ers)				
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14.	Rock	57-03,05		1/6	îms.	Rky	125a	green			V
	• •	135-20.44		2/6	11	Rky	5t	green	See pa	r. 14.4	_ /
	lock	57 - 03.03		ZŢ 0				5-00	revièu	١.	
•	ndian Rock) Rock	57-02.9	ו	5/6	11	Rky	1Ъ	red	V 1	_	_ / l
10.	A O O A	135-20.4	. -	-, -		v					
		Other Impo	ortan	t Sho	als					<i>i</i>	
		" P OR AE	2		fms.	R ky	70	red	//	′	
17.	End of spit	57 - 03.45	6	ı	Tino.	r. D.		104			
18.	Shoal	57-03.35	2	1/6	fms.		120n	green			•
		135-22.7		•							
19.	H	57-03.2							/	r	
		135-22.75		1/6			12 1 n	green			
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21.	Ħ	57-02.35		1/6	11		19n	-blue	•	V	WA.B.
		135-22.05									6/=/39
										/	

There are numerous other shoals and rocks, dangers to small boats, which have not been noted here.

Respectfully submitted,

L. C. milder

H. & G. Engineer

U. S. C. & G. S.

APPROVED AND FOR ARDED:

G. C. Jones Chief'of Party POST-OFFICE ADDRESS: 601 Federal Office Bldg., Seattle, Wn.

TELEGRAPH ADDRESS:

EXPRESS ADDRESS:

Jongo mo

DEPARTMENT OF COMMERCE

U.S. COAST AND GEODETIC SURVEY U.S.C.& G.S.S.EXPLORER Seattle, Washington April 27, 1939

acknowledged may 3, 1939

10.7 MAY 12.11

To:

The Director,

U.S.Coast & Geodetic Survey,

Washington, D.C.

From:

The Commanding Officer,

U.S.C.& G.S.S.EXPLORER,

Seattle, Wn.

Thru:

The Inspector,

U.S.Coast & Geodetic Survey,

601 Federal Office Bldg.

Seattle, Wp.

Subject: Hydrographic Sheet Register No. 6352.

Enclosed are additional notes to be attached to the Descriptive

Report for Hydrographic Sheet Register No. 6352.

These notes were recieved from Lieut. Wilder, at Astoria, Ore., after the sheet and report had been forwarded, and are therefore being submitted separately.

F.H.Hardy, H.& G.E.

Chief of Party.

SUPPLEMENTAL NOTES to be attached to Descriptive Report for Hydrographic Sheet No. 6352 (reg. no.)

No curves have been drawn in pencil in the Southeast Channel approaching Sitka as to do so would obliterate penciled soundings. Most of the soundings on the Sitka waterfront in the vicinity of signal LAN, have also been plotted on Sheet 6351(fixes common to the two sheets were used) The shoals in this area were defined on sheet 6351.

Sounding of 4 4/6 fms in Lat. 57-02.4 Long 135-20.45 was searched for very carefully with pipe drag, 23 minute Retained. search. Was not found the second time. Recommend that it be retained.

Extreme care was taken in sounding shoals for least water. Most of the shoals in positions which might make them dangers, were examined with a 16' pipe drag. (these shoals are marked "P" in red on the boat sheet.

L.C.Wilder.

STATISTICS

Sheet 6352

Statute	e mi	iles of	soundings	•••••	• • • • •	• • • • •	• • • • •	• • • • •	• • • • :	198.6
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Field Records Section (Charts)

HYDROGRAPHIC SHEET NO. 1-6352.

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

Number of positions on sheet	3, 161
Number of positions checked	262
Number of positions revised	28
Number of soundings recorded	9,580
Number of soundings revised	57
Number of soundings erroneously	2/
spaced	
Number of signals erroneously plotted or transferred	0
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Date:

Verification by Wallace a. Bruder Time:

25.120

Review by J.A. Mc Cormick 8/31/39 Rime: 35 he

HYDROGRAPHIC SURVEY NO. 1-6352

Smooth Sheet Yes
Boat Shoet Yes
Records; Sounding 9 Vols., Wire Drag Vols., Bomb Vols.
Descriptive Report Yes
Title Sheet Yes
List of Signals
Landmarks for Charts (Form 567) None
StatisticsTotal Statistics only
Approved by Chief of Party D. R. only
Recoverable Station Cards (Form 524)
Special Chart for Lighthouse Service Yes (Circular Nov.30, 1933)
Hydrography: Total Days 33; Last Dato Aug, 23, 1938
Remarks

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MEMORANDUM IMMEDIATE ATTENTION

SURVEY DESCRIPTIVE REPORT PHOTOSTATIONS	1 4() 1	registered May 12, 1939 verified reviewed approved
		(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.

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RETURN TO

82 T. B. Reed

Jose

TIDE NOTE FOR HYDROGRAPHIC SHEET

May 26, 1939.

Division of Hydrography and Topography:

Division of Charts: Attention: Mr. E. P. Ellis

Plane of reference approved in 10 volumes of sounding records for

HYDROGRAPHIC SHEET 6352

Locality Eastern Channel to Kasiana Islands, Approaches to Sitka Harbor

Chief of Party: G. C. Jones in 1938
Plane of reference is mean lower low water reading
5.0 ft. on tide staff at Sitka, Standard Oil Dock
13.1 ft. below B. M. 1

Height of mean high water above plane of reference is 9.1 feet.

Condition of records satisfactory except as noted below:

Acting Chief, Division of Tides and Currents.

S. SOVERNMENT PRINTING OFFICE 1543:

T- 6632 1938

1.10,00

H- W.D. 10,000

@ Ramarko

100 % of the shoreline of T- 6635 falling on H- 6352 was Noted in plotted and inked by the verifier.

100 % of the ledge and reef symbols shown on H- 6352 were Noted.

By recommendation of the ast blue of F. R. the verifier made a special case for the junction with H-6351 (1:1,000 scale).

In view of the fact the scales differ by five times, the soundings were actually plotted on the 1:1,000 shot from the records of the 1:5,000 shot, actually plotted on the 1:1,000 shot from the records of the 1:5,000 shot, wherever possible. If not possible to plot even one angle, the wherever possible were stepped up by proportional dividers. The upper soundings were stepped up by proportional dividers. The upper side of H-6351 was taken care of only by a note on H-6352 indicating the area was best determined by using H-6351.

There are three detached soundings at Sitka \$\$ 57° 03.2'

That appear only in the records of H-635'3, vol. 2, fg 3. (135 20.6'

There were inheed on H-6352. (verifies field filotting)

They are 12, 22, 32, red.

Thirty hours of the verifiers time on this sheet was used to change approximately 1,000 soundings (very close approximation) in order to conform to the special order of pletting in fathoms and sixther to conform to the special order of pletting in fathoms and sixther to conform to the special order of pletting in fathoms and sixther to conform to the special order of pletting in fathoms and sixther to conform to the special order of pletting in fathoms and sixther to conform to the special order of pletting in fathoms and sixther to conform to the special order of pletting in fathoms and sixther to conform to the special order of pletting in fathoms and sixther to conform to the special order of pletting in fathoms and sixther to conform to the special order of pletting in fathoms and sixther to conform to the special order of pletting in fathoms and sixther to conform to the special order of pletting in fathoms and sixther to conform to the special order of pletting in fathoms. It also meant reverifying the special order of the special order of pletting in fathoms. It also meant reverifying the special order of the special order o

Section of Field Records

REVIEW OF HYDROGRAPHIC SURVEY NO. 6352 (1938) FIELD NO. 2

Eastern Harbor to Kasiana Island, Approaches to Sitka Harbor, S. E. Alaska
Surveyed in June-August, 1938, Scale 1:5,000
Instructions dated March 7 and May 5, 1938 (EXPLORER)

Hand Lead and Machine Soundings. 3 Point fixes on shore signals.

Chief of Party - G. C. Jones
Surveyed by - L. C. Wilder
Protracted by - W. Weidlich
Soundings plotted by W. Weidlich
Verified and inked by - W. A. Bruder

1. Shoreline and Signals.

Shoreline and topographic signals are from T-6631, T-6632, T-6633. T-6634 and T-6635 of 1938.

2. Depth Curves.

Satisfactory.

3. Sounding Line Crossings.

Satisfactory.

4. Junctions with Contemporary Surveys.

Junctions with H-6353 (1938) on the east, H-6354 (1938) on the northwest and H-6355 (1938) on the west and south are satisfactory. There is no new work on the north nor is any called for in the instructions for the present project. The area off the east end of Japonski Island was developed on a special survey, H-6351 (1938), scale 1:1,000. Overlaps with the present survey show satisfactory agreement.

5. Comparison with Prior Surveys.

a. H-1439 (1879), 1:15,000; H-1626 (1884), 1:20,000.

These are reconnaissance surveys; the former, fairly comprehensive; the latter containing but a few soundings in Sitka Harbor. They should be disregarded in future charting of the common area.

b. H-2174 (1893), 1:10,000.

This survey covers the entire area of the present survey. As brought out in the reviews of the adjoining 1938 surveys, depths on the old survey are unreliable. Sounding equipment is stated in the old records to be wire reel and 5 pound lead (sometimes 7)

pound) and many of the soundings were read only to the nearest fathom even in depths of 1 and 2 fathoms. Some of the notable differences are:

- (1) The 6 1/4 fathom depth (charted 6) in lat. 57°02.8', long. 135°22.2' on the old survey is an erroneous plotting of a 10 1/4 fathom sounding, the latter depth being in good agreement with the present survey.
- (2) The 5 and 6 fathom soundings (charted 4 3/4 and 5 3/4) in lat. 57°01.68', long. 135°20.85' on the old survey fall in depths of 10 1/2 and 10 2/6 fathoms on the present survey. The 5 and 6 occur on the same line and are followed by two 11 fathom soundings which fall well inside the 10 fathom curve on the present survey. As there is obviously something radically wrong with the old survey in this vicinity, the 5 and 6 have not been carried forward.
- (3) The 4 fathom sounding (charted 3 3/4) in lat. 57°03.2', long. 135°22.3' on H-2174 (1893) falls in 7 4/6 fathoms on the present survey. Following the 4 on line is a 7 fathom sounding which falls in 4 fathoms on the present survey, leading to the conclusion that the soundings on the old survey may have been reversed by the recorder. The present field investigation of the old 4 is sufficient to warrant disregarding it.

Several soundings have been carried forward to be on the safe side and, with these additions, the present survey is adequate to supersede the old survey in the common area.

c. H-2174a (1920), 1:5,000.

This survey contains a few soundings along the Sitka waterfront. The information it contains in the common area is adequately covered by the present survey and it should be superseded by the latter.

d. H-2174b (1924), 1:2,000.

This is a detailed development of a small area off the piers in approximate lat. 57°02.9', long. 135° 20.2'. Depths are in good agreement with those on the present survey and may be used, if necessary, to supplement the present development in future charting of the common area.

6. Comparison with Wire Drag Surveys.

H-6356 (1938) W.D., H-6357 (1938) W.D.

Comparisons with these surveys have been made in their respective reviews.

7. Comparison with Chart 8244 (New Print dated June 11, 1937) Chart 8255 (New Print dated May 24, 1939) Chart 8281 (New Print dated June 2, 1939)

a. Hydrography.

Within the area of the present survey the charts are based principally on surveys discussed in the foregoing paragraphs. Because different reference planes were used on different editions of the charts many of the charted depths in the shoaler areas are 1/4 fathom less than the soundings.with which they originate on the old surveys. Where such differences exist, the charts are erroneous. The matter is discussed in more detail in par. 6a, review of H-6351 (1938).

The rock awash charted in lat. 57°04.3', long. 135° 23.5' originates with Chart Letter 1766 of 1897 according to H-2174. The present survey correctly locates it about 150 meters to the north.

The 3/4 fathom depth charted on Indian Rock (lat. 57°03.02', long. 135°20.42') is from the text of H. R. Document 108 (71-1). H-2174a (1920) shows a depth of 6 feet, and the present survey, several depths of 1 1/6 to 2 fathoms. There is some evidence that the U. S. Engineers have worked in this area, Chart Letter 451 of 1937 stating that the project which included removal of the rock had been completed. The descriptive report, page 7, for H-6351 (1938) also states that the Engineers had partly removed the rock. Depths should be charted as shown on the present survey and in view of the absence of any outstanding pinnacle it is recommended that the name "Indian Rock" be omitted.

Miscellaneous information from other chart letters and H. R. Documents concerning Sitka Harbor is adequately covered by the present/and should be disregarded in future charting.

b. Aids to Navigation.

Survey positions of navigational aids are in substantial agreement with charted positions and adequately mark the features intended.

8. Condition of Survey.

- a. Sounding records are neat and legible.
- b. The descriptive report should have stated that the supplemental instructions called for plotting of soundings in fathoms and sixths to 15 fathoms. The report is otherwise satisfactory.
- c. The office verifier added considerable shoreline and reef detail to the smooth sheet from the topographic surveys. Field drafting was otherwise satisfactory.
- 9. Compliance with Instructions for the Project.

The 4 5/6 fathom shoal indication in lat. 57°01.8', long. 135°20.85' should have been developed. Otherwise, the survey satisfies the instructions for the project.

10. Additional Field work Recommended.

None recommended for immediate consideration. See preceding paragraph.

11. Superseded Surveys.

H-1439 (1879) in part. H-1626 (1844) "" H-2174 (1893) "" H-2174a(1920) ""

12. Reviewed by J. A. McCormick, August 31, 1939.

Inspected by H. R. Edmonston

Examined and Approved:

T. B. Reed, Chief, Section of Field Records.

Chief, Division of Charts.

Chief, Dection of Field Work. Chief, Division of H. & T.

Applied to cert. 8281 Feb. 26, 1940 K.R.

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