

6588

Form 504
Rev. April 1936

DEPARTMENT OF COMMERCE
U. S. COAST AND GEODETIC SURVEY

DESCRIPTIVE REPORT

~~XXXXXXXX~~ }
Hydrographic } Sheet No. H-6588
(Field No. 2540)

U. S. COAST & GEODETIC SURVEY
LIBRARY AND ARCHIVES

DEC 30 1941

Acc. No.

State S. W. Alaska

LOCALITY

Sandman Reefs

S. side Alaska Peninsula

1940

CHIEF OF PARTY

L. D. Graham

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00

DEPARTMENT OF COMMERCE
U. S. COAST AND GEODETIC SURVEY

REG. NO. H6588

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. 2540

REGISTER NO.

State S. W. Alaska

General locality S. side Alaska Peninsula

Locality Sandman Reefs

Scale 1:20,000 Date of survey May 24 - Sept. 10, 19 40

Vessel DISCOVERER

Chief of Party L. D. Graham

Surveyed by L. D. Graham, G. E. Boothe, C. M. Durgin, L. C. Johnson, W. Weidlich

Protracted by P. M. Fisher

Soundings penciled by P. M. Fisher

Soundings in fathoms ~~feet~~

Plane of reference M. L. L. W.

Subdivision of wire dragged areas by

Inked by A. R. Stirni

Verified by A. R. Stirni

Instructions dated March 18, 19 38

Remarks: Smooth sheet & plotting by Seattle Processing Office.

a narrow strip on H-6586⁽¹⁹⁴⁰⁾. The junctions with the recent surveys are in agreement. H-4491⁽¹⁹²⁵⁾ to the north is not available. Junction with H-4491 (1925) is satisfactory

SHOAL AREAS

Attention is called to the following points where kelp or soundings indicate the need for development:

Latitude	Longitude	Shoal Indication		
54 49.5	161 55.3	11 fms.	✓	✓
49.5	162 00.5	11 11 fms.	✓	✓
50.1 ²	161 58.3	10 fms. & kelp	✓	✓
50.4	58.3	14 fms.	✓	✓
50.9	56.0	10 $\frac{3}{4}$ fms. & kelp	✓	✓
51.4	57.1	10 $\frac{3}{4}$ fms.	✓	} Same shoal
51.5	56.9	9 fms. & kelp	✓	
52.0	56.1	8 $\frac{1}{4}$ fms. & kelp	✓	✓
52.5	56.0	Kelp	✓	✓
52.6	55.8	Kelp	✓	✓
52.6	162 01.9	19 fms.	✓	✓
53.1	161 54.6	Kelp	✓	✓
55.2	58.3	18 fms.	✓	Developed on Add. Wk. (1942)
55.3	162 02.6	¹⁹ 18 fms.	✓	✓
55.6	161 52.0	9 $\frac{1}{4}$ fms. Kelp & breaker	✓	} Developed on H-616 (1942)
56.0	52.2	Kelp	✓	
56.1	52.1	Kelp	✓	} Same Shoal
56.8	55.1	12 fms. & kelp	✓	✓
57.7	57.3	19 fms.	✓	} See Add. Wk. (1942)
57.8	56.3	20 fms.		

The following shoals were developed by the ship:

Latitude	Longitude	Least Depth Found
54 51.7	162 02.8	12 $11\frac{1}{6}$ fms. <i>12 fm plotted [p 54° 51.4 (162° 02.8) on same shoal</i>
51.9	04.6	12 fms. ✓ ✓
54.6	161 58.4	$9\frac{3}{4}$ fms. ✓ ✓
54.9	55.4	12 fms. ✓ ✓
56.2	162 02.7	$10\frac{1}{2}$ fms. ✓ ✓
56.6	00.7	11 $11\frac{1}{6}$ fms. ✓ ✓

The following shoals were developed by the launch:

Latitude	Longitude	Least depth found
54 54.5	162 02.7	$4\text{-}2/6$ fms. ✓ <i>Breaks in heavy swell</i> ✓
54.6	00.7	$3\text{-}2/6$ fms. ✓ ✓
54.9	161 59.9	$1\text{-}1/6$ fms. ✓ ✓
56.5	162 02.9	$6\frac{1}{2}$ fms. ✓ ✓
56.6	161 58.1°	$3\text{-}1/6$ fms. ✓ ✓

Note the unsurveyed areas at:

Latitude 54° 50', Longitude 161° 57' ✓ ✓
 Latitude 54° 50', Longitude 162° 00' ✓ ✓
 Latitude 54° 51.5', Longitude 161° 59.5' ✓ ✓

Signal BUS

The rock at Latitude 54° 50', Longitude 162° 00.⁵³'[✓], was located by two sextant cuts, approximately at right angles. It was used as signal BUS on one position only. ✓

BAD CROSSINGS:

Lat. & Long.	Positions	Soundings	Remarks
54° 52.0' 161° 57.85'	49 - 50B 149 - 150G	33 fms. 36 -36 fms. 2	Steep slope, may be O.K., but looks as though Pos. 49 & 50B are too far north. Insufficient evidence for rejecting angles. Pos 49-50B Connected by verifier. Angles OK. Weak fix mis-plotted in field.
54° 52.0' 161° 58.3'	48 - 49B 1 - 2H	38 fms. 36 fms. 36-37	Fall on same spot. Further reason for believing Pos. 49-50B too far north. Pos 49 B moved South 60 meters
54° 57.5' 162° 01.4'	10 - 11C	24 fms. with 28 fms. on 3 sides	Not at crossing. 24 fm verified by 23 fm shoal sdq of H-4491 (1925)

STATISTICS

Statute miles of sounding lines	474.8
Soundings, fathometer	7145
" , wire	14
Number of positions	1594
Area in square statute miles	78.2

Philip C. Doran

Officer in Charge
Seattle Processing Office

Dec. 16, 1941.

H6588

SIGNALS

There were several signals on sheets ⁽¹⁹⁴⁰⁾ H-6586, ⁽¹⁹⁴⁰⁾ H-6587 and ⁽¹⁹⁴⁰⁾ H-6588 which were not located with complete satisfaction at the end of the 1940 season. The sheets were plotted in the Seattle Processing Office. During the 1941 season the ship did not resume work in this area. To complete the plotting, the available positions have been used. We think they are substantially correct.

HID (H-6587) (1940)

During 1940, two cuts were made on a rock on sheet ⁽¹⁹³⁹⁾ T-6702. They were transferred to ⁽¹⁹³⁹⁻⁴⁰⁾ H-6485. On that sheet also several ~~con-~~stant cuts were plotted. The best intersection, four good cuts through a point, was accepted.

Not on
H-6588 (1940)

Latitude $54^{\circ} 37' + 67$ meters

Longitude $162^{\circ} 04' + 171$ meters

The hydrographer, Vol. 7, ⁽¹⁹⁴⁰⁾ ~~PLS~~ sheet H-6587, makes three mentions of a rock in this vicinity which are all believed to be identical with this rock.

ROT (H-6587) (1940)

Plotted from cuts on sheet ⁽¹⁹⁴⁰⁾ H-6586 and transferred to ⁽¹⁹⁴⁰⁾ H-6587.

Latitude $54^{\circ} 44' + 8$ meters (-1847.1 meters)

Longitude $161^{\circ} 57' + 808.2$ meters (-265.5 meters)

Not on
H-6588 (1940)

TAT (H-6587) (1940)

The authority for this position is a point on the boat sheet on the islet a hundred meters southwest of signal TIT. It was used for only one position of this sheet.

Not on
H-6588 (1940)

Latitude $54^{\circ} 39' + 728$ meters; Longitude $162^{\circ} 12' + 758$ meters.

RAGGED ⁽¹⁹⁴⁰⁾ (H-6586; ⁽¹⁹⁴⁰⁾ H-6588)

The location of this whitewashed mark was furnished by the ship as a "preliminary position" at the end of the 1940 season.

Latitude $54^{\circ} 50' 33.571''$ 419.7 meters
 Longitude $161^{\circ} 56' 18.566''$ 331.4 meters

Evidently on an islet - falls in unsurveyed area. Shown as hydro signal.

This was computed from theodolite cuts but we do not have the computation. The position gave satisfactory lines and is deemed good. See T-6586 (1940) RNC 12/2/43

ROSE ⁽¹⁹⁴⁰⁾ (H-6586; ⁽¹⁹⁴⁰⁾ H-6588)

There are on boat sheet ⁽¹⁹⁴⁰⁾ H-6586 four pricked points in a half-millimeter cluster. The record for the plotting was not found. During 1940 an officer landed on the rock and took sextant angles from the signal. The position was plotted on the boat sheet but the angles were lost. In 1941 a theodolite cut made at station HUNTER to ROSE plotted through one of the points in the close cluster. It was adopted and used to finish plotting ⁽¹⁹⁴⁰⁾ H-6586 and ⁽¹⁹⁴⁰⁾ H-6588.

H-6586 Boat Sheet has note "Marked Topo Signal - approx elev. 40 ft."

Shown as hydro signal

Position checked by T-6586 (1942) 6893

Latitude $54^{\circ} 52' + 487$ m. Longitude $161^{\circ} 51' + 707$ m.

PUP ⁽¹⁹⁴⁰⁾ (H-6586)

The position of this signal was determined by a combination of four cuts at slender angles as shown in the record books and cuts drawn on the boat sheet, apparently from triangulation stations SCOT 1940 and SUSHILNOI 1940. The processing office could secure no record of the cuts from the triangulation stations from the ship. Replotting of all cuts on the smooth sheet gave a position which was in good agreement with the position of PUP as used on the boat sheet.

Not on H-6588 (1940)

It is recommended that topographic location be obtained when work is resumed on this project.

Latitude $54^{\circ} 45' + 1298.1$ m. Longitude $161^{\circ} 48' + 334.5$ m.

A note on the boat sheet says "Rock 10 ft."

TIDAL NOTE

H6588

Sheet H-6588

Gage at King Cove, Alaska:

Latitude 55° 03.7' N.
Longitude 162° 19.1' W.
M.L.L.W. on staff. 6.2 feet *
Highest tide observed, Sept. 4, 1940 14.7 feet
Lowest tide observed, May 23, 1940 4.3 feet

* Obtained by working back from Tidal Bench Marks, using
1940 level notes.

LIST OF SIGNALS USED - Sheet H-6588

H6588

<u>Triangulation:</u>	<u>Topographic:</u>
ROCK 1911 - 40	CAN (T-6700) (1939)
BUYAN 1936	A DOC ¹⁹²⁵ (T-6700) (1939)
MIDUE 1936	MIN (T-6766) (1940)
SARANA 1940	KOR (T-6766) (1940)
* EDGE 1936	JAV (T-6766) (1940)
PATTON 1911	
SUSHILNOI 1940	

Hydrographic:

<u>RAGGED</u>	(located by theodolite cuts - position furnished by ship)	See page 4b
<u>BUS</u>	(located by sextant cuts)	Vol. 1 sounding records H-6588 (1940)
<u>ROSE</u>	(transferred from boat sheet for H-6586) (1940)	See page 4b (T-6893) 1942 ENC 14473

* EDGE (Alaska Peninsula, S.W. Alaska, J.S., 1936; L.D.G., 1940)--
The station was recovered as originally described. The station and reference marks were in excellent condition. The original description was adequate, and was as follows:
The station is on the northerly of two rocky islands approximately 12 miles east of the south end of Deer Island, 84 meters east of the top of the western end of the island, and about 50 feet above high water.
The station is marked by a standard triangulation disk stamped "EDGE 1936".
The two reference marks are west of the station and almost on range. Reference mark no. 1 is stamped "EDGE 1936 1" and reference mark no. 2 is stamped "EDGE 1936 2". The distance between the reference marks is 9.65 meters.

OBJECT	DISTANCE	DIRECTION
ROCK (1911-1936)	meters	0°00'00"0
R.M.No. 2	23.78	343 05
R.M.No. 1	14.13	343 20

Surveys Section (Chart Division)

HYDROGRAPHIC SURVEY NO. **H 6588**

Records accompanying survey:

Boat sheets ^{two}.; sounding vols. ⁽⁶⁾...; wire drag vols.;
 bomb vols.; graphic recorder rolls;
 special reports, etc. ..Fathometer Corrections report filed with H 6485

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

Number of positions on sheet		.1594.	
Number of positions checked		.32..	
Number of positions revised		..9..	
Number of soundings recorded		.7100.	
Number of soundings revised (refers to depth only)	9	
Number of soundings erroneously spaced		4 } 3 }	
Number of signals erroneously plotted or transferred		None	
Topographic details	Time	..4..	
Junctions	Time	..8..	
Verification of soundings from graphic record	Time	25 25 None	
Verification by ..A.R. Stirni.....	Total time	.85..	Date Feb. 11, 1942
Review byH.F. Stegman.....	Time	.31 hrs	Date Mar. 20, 1942

GEOGRAPHIC NAMES
 Survey No. **H6588**

Name on Survey	Source										No.
	A	B	C	D	E	F	G	H	K		
<u>Sandman Reefs</u>											1
											2
<u>King Cove</u>											3
											4
											5
											6
											7
											8
											9
											10
											11
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											22
											23
											24
											25
											26
											27

Names underlined in red approved
 by L Heck on 3/25/42

Remarks.

Decisions

	Remarks.	Decisions
1		545 620
2		
3	Location of tide staff	
4		
5		
6		
7		
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27		

MEMORANDUM

IMMEDIATE ATTENTION

SURVEY }
 DESCRIPTIVE REPORT } No. H H6588
 PHOTOSTAT OF } ~~No. T~~

{ received January 14, 1942
 { registered January 19, 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
20			
22			
24			
25			
26			
30			
40			
62			
63			
82			
83			
88			
90			

RETURN TO

82	R. W. Knox
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RWK

LAC
7/12

TIDE NOTE FOR HYDROGRAPHIC SHEET

January 20, 1942.

~~Division of Hydrography and Topography:-~~

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

Plane of reference approved in
6 volumes of sounding records for

HYDROGRAPHIC SHEET 6588

Locality Sandman Reefs, South side of Alaska Peninsula, Southwest Alaska.

Chief of Party: L. D. Graham in 1940
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 at King Cove.

Condition of records satisfactory except as noted below:



Chief, Division of Tides and Currents.

DIVISION OF CHARTS

SURVEYS SECTION

REVIEW OF HYDROGRAPHIC SURVEY

REGISTER NO. H-6588

FIELD NO. 2540

Alaska, Alaska Peninsula, Sandman Reefs
Surveyed in May-Sept. 1940, Scale 1:20,000
Instructions dated March 18, 1938

Soundings:

Hand Lead
Machine
Dorsey No. 3 fathometer

Control:

Three point fixes on
shore signals

Chief of Party - L. D. Graham, G. E. Boothe, C. M. Durgin, L. C.
Johnson, W. Weidlich

Surveyed by - L. D. Graham

Protracted by - P. M. Fisher

Soundings plotted by - P. M. Fisher

Verified and inked by - A. R. Stirni

Reviewed by - H. F. Stegman, March 20, 1942.

Inspected by - H. R. Edmonston

1. Shoreline and Signals.

Shoreline originates with planetable survey T-6766 (1940). Signals originate with sources noted on pages 4b and 6 of the Descriptive Report.

2. Sounding Line Crossings.

The agreement of sounding line crossings is satisfactory. Two poor crossings in the vicinity of lat. $54^{\circ}52'$, long. $161^{\circ}58'$ were noted on page 4 of the Descriptive Report. The verifier materially improved these crossings and several others in the same vicinity by replotting pos. 46-55 B. The positions were moved southward from 20 to 70 meters. The fixes were weak, and the differences were apparently due to a small error in the protractor used by the field plotter.

3. Depth Curves.

As noted on page 1 of the Descriptive Report this survey is incomplete. In the completed portion the usual depth curves can be satisfactorily drawn.

4. Junctions with Contemporary Surveys.

a. Satisfactory junctions were effected with H-6487 (1939-40) on the west, H-6587 (1940) on the south, and H-6586 (1940) on the east in the vicinity of lat. $54^{\circ}54'$.

- b. There are extensive unsurveyed areas in the southeastern part of H-6588 and north and south of the junction with H-6586 (1940).
- c. On the north this survey makes a satisfactory junction with H-4491 (1925). The junction soundings are shown on the adjoining survey.

5. Comparison with Prior Surveys.

With the exception of H-4491 (1925), considered in paragraph 4-c above, there are no prior surveys by this bureau in the area of H-6588.

6. Comparison with Chart 8802 (Latest print dated 1/29/42)

One charted sounding falls within the area of the present survey. The 47 fm. depth in lat. 54°57', long. 162°00' is from H-4491 (1925) and is in excellent agreement with the present survey.

7. Condition of Survey.

As stated on page 1 of the Descriptive Report, this survey has not been completed. In consideration of this fact, the records and Descriptive Report are satisfactory. It was noted that only 14 vertical cost comparisons with accompanying bottom characteristics were taken by the ship while engaged on this survey. In areas not previously surveyed it is particularly desirable to have numerous bottom characteristics distributed over the survey area to indicate the various types of bottom.

8. Additional Field Work Recommended.

This survey is unfinished and will be completed at a later date. The descriptive report lists approximately 30 points where shoal soundings and kelp indicate the need for further development. When this work is done it is suggested that split lines be run in the vicinity of the following shoal indications:


<u>Sounding</u>	<u>General Depths</u>	<u>Latitude</u>	<u>Longitude</u>
20	22 - 26	54°55'.2	161°54.7
19	21 - 24	54'.4	56'.3

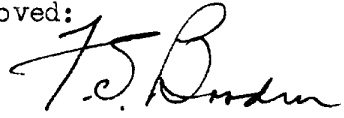
9. All signals on the boat sheets discussed on pages 4a and 5a of the Descriptive Report have been changed so as to agree with the accepted positions as shown on the smooth sheet.

10. Superseded Surveys.

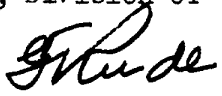
None.

Examined and approved:


Chief, Surveys Section


Chief, Division of Charts


Acting Chief, Section of Hydrography


Chief, Division of Coastal
Surveys

Applied to Cht. 8703 April 28, 1942.
" " " 8705 July 27, 1942
" " " 8802 July 30, 1942

K.P.
J.H.S.
J.H.S.

6588

Additional work

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Additional work

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Form 504

U. S. COAST AND GEODETIC SURVEY

DEPARTMENT OF COMMERCE

DESCRIPTIVE REPORT

Type of Survey Hydrographic, Additional Work

Field No. H6588 Office No. H 6588 Ad. Wk.

LOCALITY

State Alaska

General locality Southwest Alaska

Locality East of Deer Island

1942

CHIEF OF PARTY

Roland Home

LIBRARY & ARCHIVES

DATE Dec. 30, 1942



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. _____

REGISTER NO. H-6588

State Alaska *Additional work*

General locality Southwest Alaska

Locality East of Deer Island

Scale 1:20,000 Date of survey July 27 to Sept. 14 19 42

Vessel SURVEYOR, Launches #2 & #4.

Chief of Party ROLAND D. HORNE

Surveyed by R. C. ROWSE, W. F. MALNATE, and K. S. ULM

Protracted by R. J. Christman

Soundings penciled by R. J. Christman

Soundings in fathoms fath

Plane of reference MLLW

Subdivision of wire dragged areas by _____

Inked by Leroy King Nov 29, 1943

Verified by _____

Instructions dated March 18, 1938

~~Remarks~~ Supplemental: April 6, 1939; Feb. 6, 1940; June 29, 1942.

REG. NO. H6588 Additional work

DESCRIPTIVE REPORT

to accompany

HYDROGRAPHIC SHEET No. 6588

Southwest Alaska

Additional work

Project HT-219

AUTHORITY:

This work was executed in accordance with instructions dated March 18, 1938 and with supplements and amendments dated April 6, 1939, February 6, 1942 and June 29, 1942.

GENERAL LOCALITY:

The area covered by this sheet is bounded on the West by Deer Island, on the East by Susholinol Island, on the North by latitude $54^{\circ}58'$ and on the South by latitude $54^{\circ}49'$.

JUNCTIONS:

H-6767 (1942) This sheet is joined on the north by sheets #2642 and #2142, on the north and east by sheets #2242, on the east and south by sheet #2542, on the south by sheet H-6587 and on the south and west by sheets H-6488, H-6487 and H-6586. Also contains lines from H-6486. *(1939-40)*

CONTROL:

Control was furnished by triangulation established in 1911, 1936, and 1940. Topographic signals were from a topographic sheet executed in 1939 East of King Cove and from topographic sheets A-42, E-42, and F-42 executed by Ships EXPLORER and SURVEYOR in 1942.

GENERAL DISCUSSION:

The work on this sheet is to supplement work done by the Ship DISCOVERER in 1940 and consists of splits and development of shoals. Additional area was covered by launch #2 on a day on the southeast corner of the sheet.

Breakers were noted in unsurveyed area in the southeast corner of the sheet.

SURVEY METHODS:

The positions of all soundings on this sheet were controlled by three point sextant fixes on shore signals.

All soundings were taken with type 808 recorder both on the ship and launches. On the ship frequent comparisons were made with vertical casts, the Dorsey III type fathometer and the 808 recorder. Standard practice in regards to bar checks was followed on the launches.

SHOALS AND DISCREPANCIES:

The boat sheets were sent to the Washington Office before this report was written. In so far as memory serves there were no discrepancies. It is recommended that the smooth plotter list any discrepancies he finds and list the shoals and dangers.

FURTHER WORK:

It is recommended that in the future the unsurveyed area on the southeast corner of the sheet be accomplished. This work was purposely postponed due to priority of other work requested by the Navy.

TIDAL NOTE:

Tidal reducers were taken from the gage at King Cove.

FATHOMETER REDUCERS:

Fathometer reducers were taken from combined data obtained by Ships EXPLORER, SURVEYOR, and M.V. E. LESTER JONES to be submitted by the Ship EXPLORER in a fathometer report.

Respectfully Submitted,



KENNETH S. ULM
H. & G. Engr.

Approved and Forwarded:



G. C. MATTISON,
Commander, C. & G. Survey

Additional work

STATISTICS

to accompany

Hydrographic Sheet No. H-6588

Date	Vessel	Vol.	Day letter	Statute miles	Soundings	Positions
7/27/42	Launch 2	1	a	14.3	293	75
7/29/42	"	1	b	27.8	597	138
8/24/42	"	1 & 2	c	30.0	963	117
7/29/42	Launch 4	3	a	23.2	418	118
8/5/42	"	3	b	30.3	555	137
8/6/42	"	3	c	6.8	117	33
8/8/42	"	3	d	16.0	248	62
8/24/42	"	4	e	17.5	312	87
8/14/42	Ship	5	A	5.0	91	13
8/18/42	"	5	B	5.9	95	13
8/19/42	"	5	C	25.2	446	57
8/21/42	"	5 & 6	D	77.6	1465	187
8/22/42	"	6	E	77.6	1444	172
8/24/42	"	7	F	33.2	585	69
8/26/42	"	7	G	13.2	255	31
9/14/42	"	7	H	16.2	283	36
Totals.....				419.8	8167	1345

H6588

RESEARCH WORK

NOTES BY THE SEATTLE PROCESSING OFFICE

Sheet H-6588

The sounding records have been reduced and checked in the Seattle Processing Office. The volumes are being sent to Washington for plotting on the original sheet as instructed by the Director's letter, 22/MEK, 1993, of November 25, 1942. The first surveys were made on the sheet in 1940. These records were held until description report was furnished by field party which was prepared without boat sheet which had been forwarded to Washington

J. J. Sturdy

TIDAL NOTE

Sheet H-6588

Field No. 2540

(Soundings of 1942)

King Cove Standard Gage	F-259
Latitude	55° 03'.7
Longitude	162° 19'.1
Staff reading at MLLW	6.32 feet.

Records accompanying survey:

Boat sheets #² of ² ; sounding vols. ⁷ ; wire drag vols. ⁰ ;
bomb vols. ⁰ ; graphic recorder rolls ² ;
special reports, etc. ⁰
.

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

Number of positions on sheet	.1345.
Number of positions checked	.259.
Number of positions revised	.215.
Number of soundings recorded	.8167.
Number of soundings revised (refers to depth only)	.31..
Number of soundings erroneously spaced	.4
Number of signals erroneously plotted or transferred	. 0 .2
Topographic details	Time .. 0..
Junctions	Time .. 20 hrs.
Verification of soundings from graphic record	Time

Verification by *L. Gray King* Total time .145 hrs. Date *Nov 29, 43*

Review by *R. H. Caratano* Time *24 1/2* Date *Dec 2, 1943*

GEOGRAPHIC NAMES

Survey No. **H6588**

Additional work

Name on Survey

	On Chart No.	On previous survey No.	On U. S. quadrangle Maps	From local information	On local Maps	P. O. Guide or Map	Rand McNally Atlas	U. S. Light List		
	A	B	C	D	E	F	G	H	K	
Alaska										1
Deer Island										2
										3
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H6588
Additional work

Remarks

Decisions

	Remarks	Decisions
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MEMORANDUM

IMMEDIATE ATTENTION

SURVEY DESCRIPTIVE REPORT PHOTOSTAT OF	}	No. H No. T	H6588 H- 6588 Additional	{ received December 30, 1942 registered August 28, 1943 verified November 29, 1943 reviewed approved
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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
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✓ RWC

RAC
HAC

TIDE NOTE FOR HYDROGRAPHIC SHEET

September 1, 1943.

~~Division of Hydrography and Topography:~~

✓ Division of Charts: Attention: H. R. EDMONSTON

Plane of reference approved in
7 volumes of sounding records for

HYDROGRAPHIC SHEET 6588 (Add'l. Wk.)

Locality So. Deer Island, Southwest Alaska.

Chief of Party: R. D. Horne in 1942
Plane of reference is mean lower low water reading
6.3 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:


Acting Chief, Division of Tides and Currents.

DIVISION OF CHARTS

REVIEW SECTION - SURVEYS BRANCH

REVIEW OF HYDROGRAPHIC SURVEY REGISTRY NO. 6588 AD. WORK

Alaska, Southwest Alaska, East of Deer Island
Surveyed July - September 1942, Scale 1:20,000
Instructions dated March 18, 1938, April 16, 1939,
February 6, 1940, and June 29, 1942

Soundings:

808 Fathometer

Control:

Three-point fix on shore signals

Chief of Party - R. D. Horne
Surveyed by - R. C. Rowse; W. F. Malnate and K. S. Ulm
Protracted by - R. J. Christman
Soundings plotted by - R. J. Christman
Verified and inked by - L. King
Reviewed by - R. H. Carstens
Inspected by H. R. Edmonston, December 4, 1943

1. Shoreline and Signals

The shoreline and signals originate with T-6700 (1939), T-6766 (1940), T-6893 (1942), T-6894 (1942), T-6895 (1942), and T-6896 (1942). Hydrographic signals SON and JACK used during 1942 were located by sextant fixes recorded in the sounding volumes.

2. Sounding Line Crossings

Satisfactory.

3. Depth Curves

Satisfactory, except in Lat. $54^{\circ}51.65'$, Long. $161^{\circ}59.6'$; Lat. $54^{\circ}57.1'$, Long. $161^{\circ}55.0'$, and several places near the edge of the unsurveyed areas.

4. Junctions with Contemporary Surveys

Satisfactory junctions were effected with H-6487 (1939-40) on the west, H-6586 (1940) on the east, and H-4491 (1925) on the north. Junctions with H-6772 (1942), H-6767 (1942) and H-6768 (1942) on the north and east will be considered in the reviews of those surveys. Surveys on the southeast have not been accomplished. Lines, adjoining and crossing, from the 1940 work and H-6486 (1939-40) are in agreement with the present work.

5. Comparison with Prior Surveys

Except for the adjoining surveys considered in item 4 there are no prior hydrographic surveys of this area by this Bureau.

H-6770 (1942) W.D. Present survey depths are in harmony with the effective depths of this wire drag survey.

6. Comparison with Chart 8703 (Latest print date 7-31-43)

a. Hydrography

The hydrography charted within the limits of the present survey originates largely with blueprint 36700 compiled from boat sheets of this area. The 20-fm. sounding in Lat. 54°54.4', Long. 161°51.9' from the boat sheet of the present survey is in error and actually has a value of 26 fathoms. Soundings charted from the blueprint are supplemented in a few places by soundings from the smooth sheet of the 1940 survey. The area should be completely revised from the present smooth sheet.

b. Aids to Navigation

No charted aids to navigation fall within the limits of the present survey.

7. Condition of Survey

Satisfactory.

8. Compliance with the Instructions for the Project

Satisfactory except that no bottom characteristics were taken.

9. Additional Field Work Recommended

Within the completed portion of H-6588 the following indications of shoals listed in the Descriptive Report and Review of the original survey were not completely developed on the present survey:

a.	11	fathoms	in	Lat.	54°49.5'	,	Long.	162°00.5'
b.	9	"	"	"	54°51.5'	,	"	161°56.9'
c.	19	"	"	"	54°52.6'	,	"	162°01.9'
d.	20	"	"	"	54°55.2'	,	"	161°54.7'
e.	19	"	"	"	54°54.4'	,	"	161°56.3'

Additional development is desirable on the shoals of the present survey in Lat. $54^{\circ}51.6'$, Long. $161^{\circ}59.6'$ and Lat. $54^{\circ}57.1'$, Long. $161^{\circ}55.0'$.

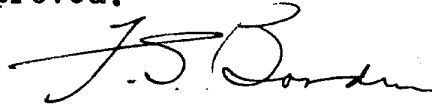
10. Superseded Surveys

None.

Examined and approved:



Chief, Surveys Branch



Chief, Division of Charts



Chief, Section of Hydrography



Chief, Division of
Coastal Surveys

applied to chart 8703
" " " 8859
" " " 8802
" " " 8705

June 12, 1944
" " "
" " "
July 2 1946

J.H.S.
J.H.S.
J.H.S.
A.H.B.