

5980  
5981

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

# DESCRIPTIVE REPORT

*Topographic* } Sheet No. 5135 - 5235  
*Hydrographic* }

U. S. COAST & GEODETIC SURVEY  
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State ALASKA

LOCALITY

Unalaska Island  
~~Alutian Islands~~

Captains and Nateekin Bays

1935.

CHIEF OF PARTY

H. B. Campbell

5981

DEPARTMENT OF COMMERCE  
U. S. COAST AND GEODETIC SURVEY

REG. NO.

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.

H5980

5981

Field No. 5135 - 5235 H5981

REGISTER NO.

State Alaska

General locality Unalaska Aleutian Islands

Locality Captains and Nateekin Bays

Scale 1:5,000 Date of survey Sept. & Oct., 1935

Vessel U.S.C. & G.S.S. DISCOVERER

Chief of Party H. B. Campbell

Surveyed by H. O. Fortin & G. E. Morris

Protracted by H. O. Fortin & H. J. Seaborg

Soundings penciled by H. O. Fortin & H. J. Seaborg

Soundings in fathoms ~~feet~~

Plane of reference M. L. L. W.

Subdivision of wire dragged areas by

Inked by *[Signature]*

Verified by *[Signature]*

H-5981

D. Bloom

J.C. McLaughlin

H5980

Instructions dated April 13, 1934.

Remarks:

DESCRIPTIVE REPORT

To Accompany

HYDROGRAPHIC SHEETS NO. 5135 & 5235

Season of 1935

U.S.C. & G.S.S. DISCOVERER

H. B. CAMPBELL, Commanding

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AUTHORITY:

This survey was made in accordance with the Director's Instructions, dated April 13, 1934.

SCALE:

The scale of this sheet is 1:5,000.

All soundings are in fathoms and fractions of fathoms.

EXTENT:

These sheets include the hydrographic survey of Captains and Nateekin Bays. The Captains Bay sheet made a proper connection with sheet No. <sup>H 5684</sup> 0.51 of the DISCOVERER's 1934 season's work in the vicinity of South Amaknak Rocks, and Latitude 53° 52.7' North where it connected with sheet No. <sup>H 5980</sup> 5135 of the DISCOVERER's 1935 season's work.

Sheet No. <sup>5980</sup> 5135 covers the complete hydrographic survey of Nateekin Bay, and connects with sheet No. 2135 along Latitude <sup>H-5978</sup> 53° 53.7' North.

CONTROL:

Triangulation and topography furnish the necessary control. The hydrographic signals on Amaknak Island were taken off sheet No. 2135 by means of D.M's and D.P's. The cuts and three point fixes for the above are recorded in volume 3, pages 69 - 71 of sheet No. 2135. Hydrographic signal "Old" was located by cuts

and recorded in volume 3, sheet No. 5135, page 2. All topographic signals on Amaknak Island were taken from the tracing of topographic sheet No. "B" of the DISCOVERER's 1934 season's work. ✓

SURVEY METHODS:

Usual methods of survey were used as described in the Hydrographic Manual. ✓

Hand leads used were graduated in fathoms and feet. These were tested at the beginning and end of each day's work. No corrections were necessary. ✓

Wire soundings were taken by means of a sheave, which was graduated in fathoms and tenths of fathoms. It was tested at the beginning and end of the season's work and found to be within the allowable limit. ✓

Frequent checks of sextants used kept them in good adjustment. ✓

The general spacing of lines on both sheets was 100 meters, except on shoals and inshore where the spacing was reduced to such an extent as to warrant proper development. ✓

All wire soundings taken from the Motorsailer No. 80 were taken by means of a gas power driven sounding machine which was located aft, due care being taken that all soundings were in a vertical position when being taken from the stern of the launch. Mr. H. O. Fortin, red letter days, was in charge of Motorsailer No. 80. Mr. G. E. Morris, blue letter days, was in charge of the Motorsailer No. 70. Only hand lead soundings were taken from this launch, which included the development of all shoals and inshore hydrography that could conveniently be taken by means of hand lead. ✓

CHARACTERISTICS OF THE BOTTOM:

The general character of the bottom was sandy at the head of the bays and bights to rocky inshore and on shoal areas, to sticky and muddy in deeper water.

ANCHORAGES AND CHANNELS:

Anchorage and channels <sup>are</sup> ~~were~~ described in Coast Pilot Notes, 1935, by the Commanding Officer of the Str. DISCOVERER.

DISCREPANCIES WITH FORMER SURVEYS:

The reef <sup>\*</sup> baring 1 foot at M.L.L.W., 36 meters southwest of hydrographic signal "Sox", <sup>Lat: 53° 52' 53" Long: 166° 33' 9"</sup> was listed as baring 3 feet on topographic sheet No. "B", 1934, DISCOVERER. The height as given on the hydrographic sheet should supercede all others.

\* Rock awash.  
H5981 ✓

The shoal of 2-1/4 fathoms as given on chart No. 9007 in Captains Bay, Latitude 53° 50' (1428 meters) North, Longitude 166° 35' (725 meters) West, is the 1-5/8 fathom shoal at Latitude 53° 50' (1281 meters) North, Longitude 166° 35' (703 meters) West. Named "Swallow Reef" (see Review) K.T.A.

H5981 ✓  
see par. 8 of review of

DANGERS AND OBSTRUCTIONS:

1. Nateekin Bay is clear from all obstructions. However, small craft should be careful of the 1-1/8 fathom shoal, 453 meters southeast of triangulation station "Kind, 1934". <sup>Lat: 53° 53' Long: 166° 37'</sup>

H5980 ✓

2. A large kelp patch 0.3 mile south of Hog Island is quite prominent all year round, and should be steered clear of.

3. The additional development as recommended in the descriptive report of sheet No. 0.51, DISCOVERER 1934, 110 meters north

H5981 ✓

of signal <sup>key</sup> "Key", was done. A least depth of 1 fathom was found. Positions 60 and 64 "b" (blue).  $\phi$  53° 52'  $\lambda$  166° 33.4'

4. A least depth of minus 2 feet was found on Bailey Ledge, positions 3 and 4 "e" (blue). A small kelp patch marks this dangerous reef during the summer months.  $\phi$  53° 51.7'  $\lambda$  166° 33.6'

5. A least depth of <sup>12 fathoms</sup> 12 fathoms was found at Latitude 53° 51.18' North, Longitude 166° 34.75' west, position 204 "g" (red).

6. A reef awash at M.L.L.W. was located at Latitude 53° 50.65' North, Longitude 166° 35.00' west.

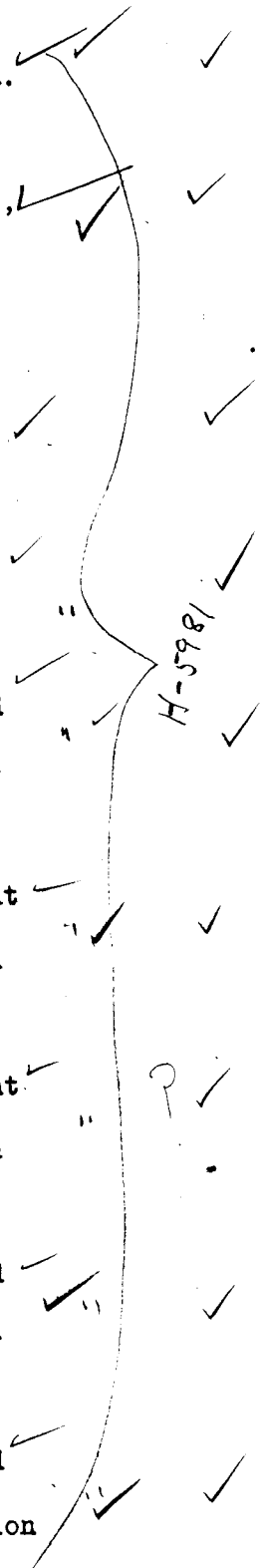
7. A shoal with the least depth of 1-5/8 fathoms was found at Latitude 53° 50.70' North, Longitude 166° 35.65' west, position 3 "d" (blue). It is marked by kelp. *Swallow Reef*

8. A shoal with a least depth of 8-3/4 fathoms was found at Latitude 53° 50.67' North, Longitude 166° 35.95' West, position 54 - 57 "r" (blue).

9. A shoal with a least depth of 4-1/6 fathoms was found at Latitude 53° 50.<sup>60</sup> North, Longitude 166° 35.79' West, position 46 "h" (red).

10. A shoal with a least depth of 7-3/4 fathoms was located at Latitude 53° 50.49' North, Longitude 166° 35.65' West, position 37 "e" (blue).

11. A shoal with a least depth of 5-4/6 fathoms was located at Latitude 53° 50.48' North, Longitude 166° 35.85' West, position 19 "r" (blue).



12. Least depth of  $4\frac{1}{8}$  fathom on rock located at Latitude  $53^{\circ} 50.47'$  North, Longitude  $166^{\circ} 35.99'$  West. Marked by kelp. Position 115 "c" (blue).

13. A shoal with a least depth of 7 fathoms was found at Latitude  $53^{\circ} 50.07'$  North, Longitude  $166^{\circ} 35.96'$  West, position 9 "f" (blue).

14. A least depth of  $1-2\frac{1}{6}$  fathoms on rock at Latitude  $53^{\circ} 50.02'$  North, Longitude  $166^{\circ} 36.11'$  West, between positions 212 and 213 "g" (red).

15. A shoal with a least depth of 11 fathoms was found at Latitude  $53^{\circ} 50.78'$  North, Longitude  $166^{\circ} 36.23'$  West, positions 25 - 27 "h" (red).

NAMES:

Geographic names are covered by descriptive reports of topographic sheets "C" and "D", 1935 and "B", 1934.

Respectfully submitted,

*Henry O. Fortin*  
Henry O. Fortin,  
Jr. Hydro. & Geod. Engineer,  
U.S.C. & G.S.S. DISCOVERER.

Approved and forwarded,

*H.B. Campbell*  
*per J.M. Smock*  
H. B. Campbell,  
Chief of Party, C. & G. S.

H5981

STATISTICS

FOR SHEET, FIELD NO. 5135 - 5980

MOTORSAILER NO. 80

1935

DATE 1935	DAY	POS.	SOUNDINGS WIRE-H.L.	STAT. MILES		MILES, NAUTICAL		
				WIRE - H.L.		To & From	Misc.	Total
Sept. 25	a	37	81	3.1		6.8	2.7	9.5
" 30	b	39	95	3.3		2.9	0.2	3.1
Totals, Sept.		76	176	6.4		9.7	2.9	12.6
Oct. 1	c	163	385	15.3		2.2	13.4	15.6
" 2	d	158	355	16.5		5.4	15.0	19.4
" 3	e	174	387	19.3		9.9	16.9	26.8
" 5	f	90	159	4.3		10.8	3.8	14.6
Totals, Oct.		585	1286	55.4		28.3	49.1	76.4

MOTORSAILER NO. 70

Sept. 28	a	46	198	5.3				15.6	
" 30	b	13	62	1.1		6.8		20.6	
Totals, Sept.		59	260	6.4		6.8		36.2	
Oct. 1	c	183	911	19.4		11.8		29.8	
" 2	d	179	722	14.7		10.7		26.8	
" 3	e	87	319	6.2				12.9	
Totals, Oct.		449	1952	40.3		22.5		69.5	
Totals, Sept. (both launches)		135	176	260	6.4	6.4	16.5	2.9	48.8
Totals, Oct. (both launches)		1034	1286	1952	55.4	40.3	50.8	49.1	145.9
Grand Totals (for sheet)		1169	1462	2212	61.8	46.7	67.3	52.0	194.7



STATISTICS

FOR SHEET, FIELD NO. 5235 - 5981

MOTORSAILER NO. 80

1935

DATE 1935	DAY	POS.	SOUNDINGS		STAT. MILES		MILES, NAUTICAL		
			WIRE-H.L.		WIRE - H.L.		To & From	Misc.	Total
Sept. 25	a	86	224		8.7		0.8	7.6	8.4
" 27	b	167	427	2	16.5		14.4	7.3	21.7
" 28	c	102	264		8.3		7.3	3.2	10.5
" 30	d	<u>91</u>	<u>240</u>		<u>9.5</u>		<u>8.3</u>	<u>4.3</u>	<u>12.6</u>
Totals, Sept.		446	1155	2	43.0		30.8	22.4	53.2
Oct. 1	e	39	91		4.2		2.6	3.7	6.3
" 2	f	19	41		1.8		2.2	1.6	3.8
" 4	g	213	376		16.8		7.7	14.7	22.4
" 5	h	<u>141</u>	<u>136</u>	7	<u>4.7</u>		<u>2.0</u>	<u>4.2</u>	<u>6.2</u>
Totals, Oct.		412	644	7	27.5		14.5	24.2	38.7

MOTORSAILER NO. 70

Sept. 27	a	200		992		21.9			21.6
" 28	b	71		232		6.3			
" 30	c	<u>124</u>		<u>413</u>		<u>8.1</u>			
Totals, Sept.		395		1637		36.3			21.6
Oct. 2	d	9		9					
" 3	e	44		44					
" 5	f	<u>64</u>		<u>64</u>					<u>3.0</u>
Totals, Oct.		117		117					3.0
Totals, Sept. (both launches)		841	1155	1639	43.0	36.3	30.8	22.4	74.8
Totals, Oct. (both launches)		529	644	124	27.5		14.5	24.2	41.7
Grand Totals, (for sheet)		1370	1799	1763	70.5	36.3	45.3	46.6	116.5

HYDROGRAPHIC SURVEY NO. H5980

Smooth Sheet yes

Boat Sheet 2

Sounding Records 4 Vols. 4

Descriptive Report One report for H5980 & H5981

Title Sheet One " " "

List of Signals Vol 1

Landmarks for Charts (Form 567) no

Statistics yes

Approved by Chief of Party no

Recoverable Station Cards (Form 524) no

Special Chart for Lighthouse Service no  
(Circular Nov. 30, 1933)

Remarks \_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

Field Records Section (Charts)

HYDROGRAPHIC SHEET NO. **H5980**

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

Number of positions on sheet	...1169
Number of positions checked	...109
Number of positions revised	.....1
Number of soundings recorded	..347.4
Number of soundings revised	.....8
Number of signals erroneously plotted or transferred	.....0

Date: *June 29, 1936.*

Verification by { *D. Bloom* ..... Time: *31<sup>3</sup>/<sub>4</sub> hrs.*  
                  { *J. A. McCormick* ..... *10 hrs.*  
Review by *John G. Ladd* ..... Time: *12 hrs*

Field Records Section (Charts)

HYDROGRAPHIC SHEET NO. **H5981**

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

Number of positions on sheet	1370
Number of positions checked	14
Number of positions revised	0
Number of soundings recorded	3561
Number of soundings revised	4
Number of signals erroneously plotted or transferred	0

Date: *June 27, 1936*  
*Inking*  
Verification by *[Signature]*

Review by John G Ladd

Time: *47 Per.*  
Time: 8 hrs

Verrier's Report on H-5980.

Records: Records are satisfactory. ✓

Drafting: Drafting is excellent. ✓

Control: Shoreline and topographic signals  
are from T-6426, T-6427 and T-4889. ✓  
also T-6428.

Junctions: This sheet is joined on the north by  
H-5978 and on the south by H-5981. ✓  
Junctions were made and are  
satisfactory.

June 29, 1936.

Submitted,  
J. A. Mc Cormick.

Section of Field Records  
Hydrographic Survey 5981(1935) Field Number 5235  
Captains Bay, Unalaska Island, Alaska.  
Chief of party, H.B. Campbell.

1. Condition of Records:

The records are neat legible and conform to the requirements of the Hydrographic Manual. ✓

2. Shoreline and Control.

The shoreline and the control originates with T-4889(1934), T-6425(1935) and T-6426(1935). ✓

3. Sounding Line Crossings.

No regular system of crosslines was run, however, considering the nature of the bottom, the soundings on adjacent parallel lines are in satisfactory agreement. ✓

4. Depth Curves.

The usual depth curves can be satisfactorily drawn. ✓

5. Junctions with contemporary Surveys.

The junctions on the north with H-5980(1935) and on the northeast with H-5684(1934) are satisfactory. ✓

6. Field Plotting.

The Field plotting was satisfactory. ✓

7. Remarks.

(a). In Lat.  $53^{\circ}51.67'$  Long.  $165^{\circ}33.06'$  an  $8\frac{1}{2}$  fathom sounding falls 15 meters outside of a 10 fathom sounding. This is probably due to the irregular bottom.

(b). Attention is directed to the  $13\frac{1}{2}$  fathom sounding (Lat.  $53^{\circ}50.33'$  Long.  $166^{\circ}35.88'$  marked "O.K." in Volume 2 page 67, and to the  $9\frac{1}{2}$  fathom sounding (Lat.  $53^{\circ}50.35'$  Long.  $166^{\circ}36'$ ) also marked "O.K." in Volume 1 page 64. Because of the probability of shoaler depths; these spots should have been developed.

(93c)  
Position for 10 fath. is swifter, more accurate plotting places 10 out even with  $8\frac{1}{2}$

J.C.L.

Verified and inked by,

June, 27, 1936.

Leo S. Straw.

HYDROGRAPHIC SURVEY NO. H5981

Smooth Sheet yes

Boat Sheets 2

Sounding Records 5 Vols. \_\_\_\_\_

Descriptive Report One D.R. for H5980 & H5981

Title Sheet One " " "

List of Signals Vol 1

Landmarks for Charts (Form 567) no

Statistics yes

Approved by Chief of Party no

Recoverable Station Cards (Form 524) no

Special Chart for Lighthouse Service no  
(Circular Nov. 30, 1933)

Remarks \_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

Remarks

Decisions

	Remarks	Decisions
1		
2		
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27		



GEOGRAPHIC NAMES

Survey No. H5980  
H5981

Name on Survey	On Chart No. 8860		On previous survey No. 74889		On U.S. coast range charts maps 9007		From local information		T 5422 On local maps		P. O. Guide or Map		U.S. B. O. N. Rem. Military Atlas		Geog. Pict. of U.S. Coast Range Atlas	
	A	B	C	D	E	F	G	H	K							
H5980																1
<u>Unalaska Island</u>	*	✓	✓												✓	2
<u>Nateekin Bay</u>	*		✓												✓	3
<u>Devilfish Point</u>				✓	*											4
<u>Hog Island</u> *	*		*													5
																6
																7
																8
																9
																10
																11
																12
H5981																13
<u>Unalaska Island</u>	*	✓	✓												✓	14
<u>Amaknak Island</u>		✓	*												✓	15
<u>South Amaknak Rocks</u>		✓	*												✓	16
<u>Bailey Ledge</u>			*												✓	17
<u>Obernoi Point</u>			*												✓	18
<u>Captains Bay</u>	*		✓												✓	19
<u>Port Levashof</u>											*				✓	20
<u>Swallow Reef</u> *																21
																22
																23
																24
																25
																26
																27

Names underlined in red approved  
by *(Signature)* on 6/29/36

\* Approved by KFA.  
July 15, 1936  
19061.

Names underlined in red approved  
by *(Signature)* on 6/26/36

# MEMORANDUM

## IMMEDIATE ATTENTION

SURVEY  
 DESCRIPTIVE REPORT  
~~PHOTOSTAT OF~~

No. H 5980  
 5981  
 No. #1

received April 8, 1936  
 registered April 28, 1936  
 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	<i>J.B.P.</i>	<i>Page 3 - Dangers</i>
26		
30		
40		
62		
63		
82		
83	<i>R.F.S.</i>	<i>Page 3 middle par. - New shoals</i>
88		
90		

RETURN TO

82	
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LAC

### TIDE NOTE FOR HYDROGRAPHIC SHEET

May 29, 1936.

Division of Hydrography and Topography:

✓ Division of Charts: Att: Mr. E. P. Ellis

Tide Reducers are approved in  
4 volumes of sounding records for

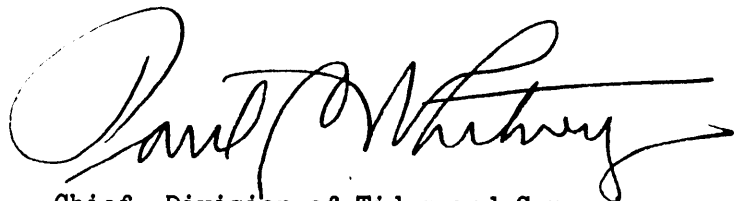
HYDROGRAPHIC SHEET 5980

Locality Nateekin Bay, Southwest Alaska.

Chief of Party: H. B. Campbell in 1935.  
Plane of reference is mean lower low water reading  
3.8 ft. on tide staff at Dutch Harbor  
12.4 ft. below B.M. 1

Height of mean high water above plane of reference is 3.4 feet.

Condition of records satisfactory except as noted below:

  
Chief, Division of Tides and Currents.

TIDE NOTE FOR HYDROGRAPHIC SHEET

June 2, 1936.

Division of Hydrography and Topography:

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

Tide Reducers are approved in  
5 volumes of sounding records for

HYDROGRAPHIC SHEET 5981

Locality Captains Bay, Unalaska I., S.W. Alaska.

Chief of Party: H. B. Campbell in 1935  
Plane of reference is mean lower low water reading  
3.8 ft. on tide staff at Dutch Harbor  
12.4 ft. below B.M. 1

Height of mean high water above plane of reference is 3.4 feet.

Condition of records satisfactory except as noted below:

*Paul Schuman*

Acting Chief, Division of Tides and Currents.

Section of Field Records

REVIEW OF HYDROGRAPHIC SURVEY NO. 5980 (1935) FIELD NO. 5135

Nateekin Bay, Unalaska Island, Alaska

Surveyed in 1935

Instructions dated April 13, 1934

Hand Lead and Machine Soundings.

3 Point fixes on shore signals.

Chief of Party - H. B. Campbell.

Surveyed by - H. O. Fortin and G. E. Morris.

Protracted by - H. O. Fortin and H. J. Seaborg.

Soundings penciled by - H. O. Fortin and H. J. Seaborg.

Verified and inked by - J. C. McCormick and D. Bloom.

1. Condition of Records.

The records are neat and legible and conform to the requirements of the Hydrographic Manual except as follows:

- a. No triangulation reference station was shown on the smooth sheet by the field party. This has been added in the office.
- b. No approval note by the chief of party was contained in the Descriptive Report.

The Descriptive Report is complete and satisfactorily covers all items of importance.

2. Compliance with Instructions for the Project.

The survey satisfies the instructions for the project and is a very good large scale survey of the area.

3. Shoreline and Signals.

The shoreline and topographic signals originate with T-4889 (1934), T-6426 (1935), T-6427 (1935) and T-6428 (1935). Hydrographic signal "Old" originates with this survey and the cuts for same are contained in the sounding volumes. The balance of the hydrographic signals originate with H-5978 (1935).

4. Sounding Line Crossings.

No regular system of cross lines was run, however, those that occur in the normal development of the work together with the parallel adjacent lines are in good agreement.

5. Depth Curves.

Within the limits of the survey the usual depth curves may be satisfactorily drawn, including most of the 3 fathom curve and parts of the two and one fathom curves.

6. Junctions with Contemporary Surveys.

Satisfactory junctions are made with H-5978 (1935) on the north and with H-5981 (1935) on the south.

7. Comparison with Prior Surveys.

a. T-1950 (1867) - (Contains Hydrography)

This topographic survey on a 1:40,000 scale contains a few soundings of Russian authority which falls within the limits of the present survey. The survey has no projection and the sounding lines have no control, being apparently based on references to topography only, which in turn is of a very sketchy nature. The soundings are in fair agreement with this new survey with the exception of two 7 fathom soundings (one of which is charted) which fall on the present survey in approximate Lat.  $53^{\circ} 53.7'$  Long.  $166^{\circ} 33.7'$  in depths of 12 to 14 fathoms.

A shoal with a least depth of  $5 \frac{5}{6}$  fathoms was located on the adjoining survey H-5978 (1935) about 225 meters to the northward of the 7 fathom shoal. In view of the approximate location of the latter, the two shoals are undoubtedly one and the same and the 7 fathom shoal should therefore be disregarded in future charting.

8. Comparison with Chart No. 9007 (New Print dated May 10, 1935)

Within the area of the present survey the chart is based on surveys discussed in the foregoing paragraphs together with a survey by officers of the Coast Guard Cutter CHELAN in 1934 (blue print No. 27240) BA Chart No. 1457, and other undetermined sources.

The soundings for these latter 3 sources are in fair agreement with the present survey with the following exceptions:

- a. Blue print 27,240 consists of a photostat of Chart 9007 upon which the original soundings taken by the Coast Guard Cutter were plotted. There is no evident means of control for the lines other than vague topographic features. Upon a careful comparison between the charted blue print soundings and those of the present survey it is found that numerous deep soundings fall in much shoaler water (such as a 30 fathom in depths of 13 to 15 fathoms) and shoal soundings fall in deeps (such as 25 fathoms in depths of 31 to 35 fathoms), with no indications from the surrounding soundings of the present survey of any deeps or shoals respectively.

From the comparison it is quite apparent that numerous sounding lines on the blue print are radically out of position. In view of the development, scale and adequate control of the present survey, blue print 27,240 should be superseded by the present survey within its limits.

- b. The charted 14 fathom sounding at Lat.  $53^{\circ}53.5'$ , long.  $166^{\circ}34.3'$  falls on the present survey in approximate depth of 30 fathoms. The source of this sounding could not be determined and has been charted since the original drawing of the chart. From the nature of the surrounding soundings it is unquestionably out of position and should be about 100 meters to the north where it would fall on the edge of a large shoaling in similar depths. The 14 fathom sounding should be disregarded in future charting.
- c. The charted soundings along the edge of the large shoal off the north-west shore of Nateekin Bay Lat.  $53^{\circ}53.0'$ , long.  $166^{\circ}37.2'$  originating with B. A. Chart No. 1457 (surveyed in 1904), are all apparently plotted about 150 meters too far eastward. The 1 to 3 fathom soundings all fall on the present survey in depths 8 to 15 fathoms deeper. This apparent small displacement being possible due to the steepness of the slope on the edge of the shoal. In view of the probably weak control on the B. A. Chart, together with the development of the area with adequate control on the present survey, the soundings in Nateekin Bay originating with B. A. Chart 1457 should be superseded by the present survey in future charting.

9. Field Plotting.

The field plotting was satisfactory.

10. Additional Field Work Recommended.

No additional field work is required.

11. Superseding Old Surveys.

Within its limits the present survey supersedes the following survey for charting purposes:

T-1950 (1867) (contains hydrography) in part.

12. Reviewed by - John G. Ladd, July 8, 1936.

Inspected by - A. L. Shalowitz.

Examined and approved:

*K. T. Adams*

K. T. Adams,  
Asst. Chief, Division of Charts.

Chief, Division of Charts.

*Fred. R. Peacock*  
Chief, Section of Field Work.

*J. G. Ladd*  
Chief, Division of H. & T.

Section of Field Records

REVIEW OF HYDROGRAPHIC SURVEY NO. 5981 (1935) FIELD NO. 5235

Captains Bay, Unalaska Island, Alaska

Surveyed in 1935

Instructions dated April 13, 1934

Hand Lead and Machine Soundings.

3 Point fixes on shore signals.

Chief of Party - H. B. Campbell

Surveyed by - H. O. Fortin and G. E. Morris

Protracted by - H. O. Fortin and H. J. Seaborg

Soundings penciled by - H. O. Fortin and H. J. Seaborg

Verified and inked by - Leo S. Straw

1. Condition of Records.

The records are neat and legible and conform to the requirements of the Hydrographic Manual except as follows:

- a. No approval note by the chief of party was contained in the Descriptive Report.

The Descriptive Report is complete and satisfactorily covers all items of importance.

2. Compliance with Instructions for the Project.

The survey satisfies the instructions for the project.

3. Shoreline and Signals.

The shoreline and topographic signals originate with T-4889 (1934), T-6425 (1935) and T-6426 (1935).

4. Sounding Line Crossings.

No regular system of cross lines were run, however, the few that do occur in the normal development of the work together with the parallel adjacent lines are in satisfactory agreement.

5. Depth Curves.

The usual depth curves may be satisfactorily drawn including most of the 3 fathom and portions of the one and two fathom curves.

6. Junction with Contemporary Surveys.

Satisfactory junctions are made with H-5980 (1935) on the north and with H-5684 (1934) on the northeast.

7. Comparison with Prior Surveys.

- a. T-1950 (1867) (Contains Hydrography)



This topographic survey on a 1:40,000 scale without a projection, contains a few soundings, originating from Russian authorities, that fall within the limits of the present survey. In view of the evident lack of control for these soundings, together with the adequate development of the area on the 1:5,000 scale of the well controlled present survey, the soundings on T-1950 (1867) should be superseded in future charting.

8. Comparison with Chart No. 9007 (New Print dated May 5, 1935)

The chart is based on the survey discussed in the foregoing paragraphs together with the follow miscellaneous sources:

- a. Most of the soundings along the western shore of Amaknak Island originate with blue print No. 27,240 (a survey in 1934 by the officers of the U. S. Coast Guard Cutter CHELAN). Since the soundings are in satisfactory agreement with the present survey, blue print No. 27,240 may be disregarded in future charting.
- b. The 2 1/4 fathom sounding at Lat. 53°50.75' Long. 166°35.65' originates with chart letter 358 (1922) from the inspector at Seattle (stating that the U. S. S. SWALLOW had reported a 14 foot shoal at this location). The sounding falls on the present survey in depths of about 26 fathoms but about 110 meters north of a shoal with least depth of 1 5/6 fathoms.

An examination of the general area on the present survey leads to the conclusion that the 2 1/4 fathom sounding is an inaccurate location of the 1 5/6 fathom shoal and should therefore be disregarded in future charting. (see also page 3 of Descriptive Report for H-5981). This shoal has been named Swallow Reef from the naval vessel reporting it.

- c. The 12 fathom sounding at Lat. 53°52.68' Long. 166°34.15' falls on the present survey just north of a 24 fathom sounding. No definite authority for this sounding could be obtained, although it is considered to be either of Russian or U. S. Fish Commission origin. From a study of the area it is considered that the sounding is out of position and more properly belongs about 75 meters to the east (shoreward) where it would be in agreement with the present survey. It should therefore be disregarded in future charting.

9. Field Plotting.

The field plotting was satisfactory.

10. Additional Field Work Recommended.

The following areas should be further developed when work is again resumed in this locality.

- a. The area between the island and the mainland at Lat.  $53^{\circ}50.45'$ , long.  $166^{\circ}36.55'$ , to the extent of determining whether a channel exists in the area or not.
- b. The 9-1/2 fathom (rky) sounding at Lat.  $53^{\circ}50.38'$ , long.  $166^{\circ}36.0'$  and the 13-1/2 fathom sounding at Lat.  $53^{\circ}50.33'$  Long.  $166^{\circ}35.9'$  which are single soundings on sounding lines and are both surrounded by deeper waters.
- c. The area at Lat.  $53^{\circ}52.0'$ , Long.  $166^{\circ}33.6'$ , in order that the shoaler depth curves west of the small island may be adequately delineated.

11. Superseding Old Surveys.

Within its limits the present survey supersedes the following survey for charting purposes:

T-1950 (1867) (Contains hydrography) in part.

12. Reviewed by - John G. Ladd, July 9, 1936.

Inspected by - A. L. Shalowitz.

Examined and approved:

*K. T. Adams*  
K. T. Adams,  
Asst. Chief, Division of Charts.

*Fred. R. Peacock*  
Chief, Section of Field Work.

*L. O. Robert*  
Chief, Division of Charts.

*G. W. H. H. H.*  
Chief, Division of H. & T.

H. 5981  
Applied to drawing of chart 9008, Nov. 1936 - S.B. Maize

Applied (H. 5980 and H. 5981) to new compilation of Chart No. 9007. Dec, 1936 S.B. Maize

H. 5980 and H. 5981 applied to drawing of Chart No. 8860 Dec 1936 S.B. Maize

H. 5980 and H. 5981 Applied to drawing of Chart No. 8802 S.B. Maize June 1937

H. 5980 + H. 5981 applied to new compilation (extended) of Chart No. 9007 S.R. Aug. 1938

H. 5980 & H. 5981 " " " " " 9006 J.M.A. June 1943