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Rev.	Apr	41 '	935

DEPARTMENT OF COMMERCE U. S. COAST AND GEODETIC SURVEY

# DESCRIPTIVE REPORT 2141 H66% Sheet No. 2241 H6697

U.S. COAST & GEODETIC SURVEY LIBRARY AND ARCHIVES

MAY 1 8 1942

Hydrographic

LOCALITY

LEUTIAN ISLANDS

#### 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. 2141

REGIST	ER NO. H-6696	
State Alaska		
General locality Aleutian Isl	ands	
Locality Seguam Island (Kaste	rn half)	••••
Scale 1:20000 Date of s	urvey August .Sept	ember, 19.11.
Vessel EXPLORER		
Chief of Party F. B. T. Siens		
C A Burmister Surveyed by .H.S.Cole	E B Brown  F.X.Popper	
Protracted by J.T.Guthri	e E.B.Brown	1
Soundings penciled by	E.B.Brown	n
Soundings in fathoms ************************************		
Plane of reference MLL	W	
Subdivision of wire dragged ar	eas by	·
Inked by C.E. Denzis 8	/20/42	·
Verified by	·····	
Instructions dated 3 April 19	38 40 and others	19
Remarks:		

U. S. GOVERNMENT PRINTING OFFICE

#### DEPARTMENT OF COMMERCE

U. S. COAST AND GEODETIC SURVEY

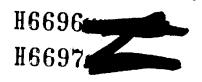
# HYDROGRAPHIC TITLE SHEET

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. 2241

	REGISTER NO.
State	ALASKA
General locality	ALEUTIAN ISLANDS
	SEGUAM ISLAND (Waters hate)
Scale1/20,000 Dat	te of survey Aug. 20 to Sept. 13 1941
Vessel	EXPLORER
Chief of Party	F.B.T.SIEMS
Surveyed by	ISTER H.S.COLE K.S.ULM J.T.GUTHRIE
Protracted by R.H.WOOD	COCK £.B.BROWN
Soundings penciled by	R.H.WOODCOCK
Soundings in fathoms Kee	XX FATHOMS
Plane of reference	MEAN LOWER LOW WATER
Subdivision of wire drag	ged areas by
Inked by Leroy Kin	g Sept. 9, 1942
Verified by	er er er
Instructions dated	FEBRUARY 3 , 1938
Remarks:	
•	
. U.	S. GOVERNMENT PRINTING OFFICE

1



#### DESCRIPTIVE REPORT

To accompany

HUG96 (1941)

HUG96 (1941)

LAUNCH HYDROGRAPHIC SHEET NO. 2141 & 2241.

The area covered by these two sheets comprises the inshore sea immediately surrounding SEGUAM ISLAND, No. 2141 being the eastern part and No. 2241 the western part. The survey is on a scale of 1:20000. 38 (SURVEYOR) It was accomplished under authority of Instructions Dated 3 February, 1941.

The usual more modern methods of surveys were employed. Horizontal

Sec D.R. 7-6867
control was established through many Triangulation Stations, and

Signals located by Topographic surveys. Vertical control was established

Traversi,

and period of the island near Finch Cove. During the brief periods when this tide
gage was not in operation, tide reducers have been obtained from the

standard gage at Dutch Harbor.

The 808 AS type Automatic Depth Recorder was used throughout this survey. additional Soundings were recorded in the usual manner in the record books at 30— in effice — second intervals; and at such other intervals as were necessary to give See par(7a) a good picture of the ocean floor. Further soundings were inserted in the record when the Recorder Charts were scanned in the office. The fathom—scale was used throughout the survey (approximately 112 soundings per minute).

There are several shoals of importance in the area covered by this survey.

1- In Lat. 52°19.7! Long. 172°16.9! several lumps with about 3½ fathoms over them. This is about one-half mile east of the easternmost point of the island.

2-3 fathoms about one-fourth mile northwest of (1).

3- A shoal point extends one-fourth mile offshore in Lat. 52°19.11

Long. 172018.41 with a least depth of about X fathoms. 2% plotted

about a mile offshore, and rising abruptly out of depths of 26 to 28 fathoms. This shoal is of small extent; and is not marked by kelp or by breakers in so far as this party observed.

5. Relatively shoal water extends some distance off shore from the point on which Triangulation Station AIR is located. The area is lumpy and broken marked with some kelp and breakers.

broken, marked with some kelp and breakers. (coff)

6. The westernmost point of the island is marked by a low rock, bare at all stages of the tide, though often covered when the sea is rough.

H-667 This rock is about one-fourth mile offshore in Lat. 52°15.81 Long.

172°38.41

7- It should be noted that relatively shoal water extends off all the points, and these areas are usually marked by breakers in bad weather. The bottoms are very irregular; kelp grows profusely on most of them.

Visible dangers as pinnacles and off lying rocks are easily seen, and may be readily avoided. There are several groups of these: in Lat. 152°21.21 Long. 172°34.51; triangulation stations RUE and PIKE; an extensive group at Triangulation Station LIME ROCK; and another group at Signal IN in Lat. 52°18.31 Long. 172°20.81. These are all close inshore. See 1940 8

There are no channels around the island except the passes which are all deep and clear. (Only the area near Sequent in Sequent Pass sorveyed)

There are two anchorages which the ship used on a number of occasions. These are FINCH COVE on the northeastern side of the island; and LAVA COVE on the south side of the island. These both have good holding ground, and are suitable for protection in weather from the south for Finch Cove, and from the north in Lava Cove. They are not recommended for heavy storms, however. There are a number of small-boat anchorages which might be used if necessary. These are (1) just to the westward of Finch Cove, (2) just west of the easternmost point of the Island and on the south side of the island. There are several other places of refuge which may be found, especially along the western side of the Island, and in the long bight in which the signals ULT and CAMEL are located.

Currents around the island are strong and very erratic. As around Amukta and Chagulak Islands the general flood direction is northerly, with the ebb southerly. On the flood, the current seems to divide somewhere near the Point on which Triangulation Station TURF is located; and seem to rejoin near LIME ROCK on the north. The reverse action appears to take place on the ebb. Funch Cape

Current velocities as follows have been computed from two consecutive runs in opposite directions and nearly at the same time:

- 6 Sept. (20-h to 49-h red) Off LIME ROCK direction 90° velocity 2.35 miles. (159-h to 192-h red) SW of Signal IN direction 60° velocity 1.83 miles.
- 2 Sept. (29 to 74-d red) SW of OFF direction north, velocity 4.32 miles.
- 21 Aug. (49-62-c red) South of OFF direction west, velocity 3.53 miles.
- 7 Sept. (83-101-f red) off TURK, direction and velocity negligible.
- 21 Aug. (160-192-c red) Off ULT, direction southwest, velocity .56 mile.

Tide rips are baden many points; they make up suddenly and furiously, and are dangerous to small craft. Passage through the rips by small boats should not be attempted unless the operator is familiar with the danger. The worst rips are found along the southwast point of the Island near OFF, with lesser ones off the easternmost point, and off the northern point near LIME NOCK. These are all conspicuous and, while they seem to indicate shoal water by their whiteness, they make up in deep water so form no menace to navigation for the larger ship.

4 Sept.	đ	22 <b>.</b> 9	442	114
5 Sept.	e	<u>10<b>.</b>0</u>	169	114
Totals		412.0	6894	1783

Respectfully submitted,

Clarence A. Burmister, Jr. H. & G. Engr.

Approved and Forwarded:

F. B. T. Siems, Chief of Party, C. & G. S., U.S.C. & G.S.S. EXPLORER

### LIST OF SIGNALS TO ACCOMPANY LAUNCH HYDROGRAPHIC SHEET NO. 2141 146696

Letter fellowing name indicates sourse: Topographic Sheet

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Able	C			(nid)	E
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Bulk	-E-41	Jit	C	Rock	-C-41
Band	E		-	Ref	
Black	E	Kid	-C-41		C
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Cove	E	Lo	C	Same	O
*COAE	1941	Leo	C	*SAM	1941
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. 1		Pole	F	Lm	T-6869
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Letter following name indicates source: Topographic Sheet

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	Ada	D -	Gal	E	Poo	Ď	
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	Bird	D			Slant	-E-141	
	Bon	E	Ina	-D-41	Side	E	
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Since this is an original survey, there are no sources available to compare this with. Off-lying rocks as shown on original charts are substantiated in most cases, though their actual relative positions are considerably changed.

Statistics for Sheet 2141 are as follows:

Date Day Miles of line		Soundings recorded	Positions.	
Launch No.	1 (red)			
3 Aug. 17 Aug. 21 Aug. 29 Aug. 1 Sept. 4 Sept. 5 Sept. 6 Sept. 7 Sept.	a b c d e f g h	25.5 68.1 1.5 32.3 61.5 27.5 43.2 52.8 8.6	438 983 34 609 956 471 718 910 145	109 252 9 164 256 126 209 222
Launch No.	IV (blue)			
5 Sept. 6 Sept.	a b	32•5 18•6	535 375	133 95
Launch No.	II (green)			
21 Aug. 3 Sept. 5 Sept. 6 Sept. 7 Sept. 8 Sept.	a b c d e f	13.0 39.0 32.7 27.0 43.2 <u>6.6</u>	222 700 493 585 638 <u>103</u>	64 199 159 148 190 35
Totals:		533.6	8915	2408
Sheet #22	41" <b>.</b>			
Launch No	. 1 (red)			
20 Aug. 21 Aug. 2 Sept. 3 Sept. 7 Sept.	b c d e f	68.3 50.1 56.0 59.0 42.8	1016 881 960 931 671	231 215 241 262 170
Launch No	. II (blue)			
20 Aug. 21 Aug. 1 Sept.	` а Ъ с	30.7 29.2 43.0	520 605 701	150 164 192

### TIDAL HOTE U.S.C. & G.S.S. Explorer Aloution Islands--1941

Dutch Earbor Standard Cogo

Lat 53° 53.5 166° 32.2

M. L.L.V.on the staff equals 4.2 feet

Notes-Righest and levest tides may be found on consulting the recerts on file in the Division of Miles & Corrents, Vachington. D. 6.

Yenasha Id., Cabin Cove. Pertable dage.

Lyne 1700 42.5

x.L.b.y. on the staff aguals 1.5 foot.

Righost tide edestrod June 11th equals 6.4 feet. Lowest tide observed June 9th squals -0.2 foot. Compartions with Batch Emptor Standard Sage

Rango factor equals 1.0 Time Sheter equals -1 hour,

Americ Id. Porteble Cogo

149× 520 30.3

long 171° 13.8

N.L.L.V. on the staff equals 3.8 feet.

Eighost tide observed July 6 semile 7.6 feet

Loopet tide observed June 8, July 6,7.48 equals 2.0 feet. Openarison with Batch Mexter Standard Gogs.

Ringo factor aguals 1.0

Pine Castor equits -1 3/4 hours.

Seguns Id., Finds fove. Pertable Sege.

Lat 520 23.4 Long 1720 24.0'

K.L.L.Y. on staff equals 4.8 feet.

Rignost tide observed duly 9 equals 6.6 feet.

Lovest tide observed August 3 & 5 equals 3.5 feet.

Comparyison with Standard Cogo Datch Harber.

Time factor -li hours for high vator, plus i hour for

low water.

Reaco factor equals 1.0

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Processing Office Notes.

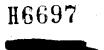
H6696

The following shoals are noted in addition to those previously mentioned:-

	_		Sounding Remarks
52 15.80	172 28.10	70-71b	Fathoms 1 5/6 Helge
52 18.92	172 19.00	160-161k	5 4/6
52 23.80	172 25.20	70-71f	7 1/2/4 ~ "
52 22.80	172 23.43	52-5 <b>3</b> d	4 /
52 22.80	172 23.26	53-54d	4 1/2

#### Discrepancies at crossings.

52 18.1	172 18.7	2-3e(red) 53 4-5e(green)51	Probably accounted / for by angle Accepted rejection at Pos. 3e.
52 23.7	172 21.2	67-68h 168,169,170g	4 and 5 fathom differences Accepted probably accounted for by broken bottom.



#### Processing Office Notes.

Discrepancies at crossings.

Latitude.	Longitude	Position No.	Soundings. Fathoms	Remarks
52 14.50	172 31.00	lllf 81-82f	26-24 3/1 32 (fathogram mis	read) Slope
52 15.58	172 31.00	<b>244</b> 244-2 <b>4</b> 5e 33-34f	10 <del>1</del>	Probably a sunken rock.
52 21.48	172 34.55	143-144a 139-140c	11) Not considered	

Further development.

Brokem bottom extending about 3/4 mile south additional soundings from the southernmost point of Seguam Island (marked by triangulation station TURF) should have been further developed.

Officer in Charge

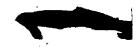
Seattle Processing Office.

# Surveys Section (Chart Division)

# HYDROGRAPHIC SURVEY NO. H 6697

Boat sheets two.; sounding vols. (8).; wire drag vols; bomb vols; graphic recorder rolls (3)(in 3 envelopes) special reports, etc
special reports, etc
The following statistics will be submitted with the cartog-
The following statistics will be submitted with the cartographer's report on the sheet:
The following statistics will be submitted with the cartog-rapher's report on the sheet:
Number of positions on sheet .1783.
Number of positions checked20
Number of positions revised
Number of soundings recorded .6894.
Number of soundings revised (refers to depth only)
Number of soundings erroneously spaced
Number of signals erroneously plotted or transferred
Topographic details Time
Junctions Time .42.1. hrs.
Verification of soundings from graphic record Time
Verification by G.F. Serdan (additional Sounding and Topo. detail)  G.F. Serdan (additional Sounding and Topo. detail)  20 1784
Review by G.F. Jordan Time .?? Date Sept. 17,194

Survey No. <b>11669</b>	<u> 37.</u>	/×	ious s	E. diso.	Jocal Kion	Mada	, jide of	NCH SILV	, agri	
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Name on Survey	/ A,	В,	/ c,	D	E	/ F	G	/н	/ K	$\angle$
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	Remarks	Decisions		
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Remarks

Decisions

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# Surveys Section (Chart Division)

# HYDROGRAPHIC SURVEY NO. H6696

Records accompanying survey:	
Boat sheets four; sounding vols. (10).;	wire drag vols;
bomb vols; graphic recorder rolls	s (4);
special reports, etc	• • • • • • • • • • • • • • • • • • • •
	• • • • • • • • • • • • • • • • • • • •
The following statistics will be submitted rapher's report on the sheet:	with the cartog-
Number of positions on sheet	2408.
Number of positions checked	.24
Number of positions revised	4
Number of soundings recorded	.8915.
Number of soundings revised (refers to depth only)	.7
Number of soundings erroneously spaced	• • • • •
Number of signals erroneously plotted or transferred	9
Topographic details Time	31/2
Junctions Time	
Verification of soundings from graphic record Time	] hr
Verification by C.E. Dennis Total time	701 hrs. Date .8/20/42.
Review by Harold W. Murray Time	/2.". Date 8/3//42

#### TIDE NOTE FOR HYDROGRAPHIC SHEET

July 17, 1942.

Division-of-Hydrography-and-Topography:

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

Plane of reference approved in 10 volumes of sounding records for

HYDROGRAPHIC SHEET 6696

Locality Seguam Island (Eastern Half) Aleutian Islands, Alaska.

Chief of Party: F. B. T. Siems in 1941

Plane of reference is mean lower low water reading

4. gft. on tide staff at Finch Cove, Seguam Island

9.1ft. below B. M. 1

4.2 ft. on tide staff at Dutch Harbor - Time Factor | 1/2 hours for high water

12.5 ft. below B. M. 1

Range Factor = 1.0

Height of mean high water above plane of reference is 3.2 feet.

Condition of records satisfactory except as noted below:

Chief, Division of Tides and Currents

о. а. сотвенным увинтис оттов 15432

#### TIDE NOTE FOR HYDROGRAPHIC SHEET

July 17, 1912.

Division of Hydrography and Topography:

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

Plane of reference approved in g volumes of sounding records for

HYDROGRAPHIC SHEET 6697

Locality Seguam Island (Western Half), Aleutian Islands, Alaska

Chief of Party: F. B. T. Siems in 1941

Plane of reference is mean lower low water reading

4.8ft. on tide staff at Finch Cove, Seguam Island

9.1ft. below B. M. 1

4.2 ft. on tide staff at Dutch Harbor - Time/ -12 hours for high water

12.5 ft. below B. M. 1

Range Factor = 1.0

Height of mean high water above plane of reference is 3.2 feet.

Condition of records satisfactory except as noted below:

Chief, Division of Tides and Currents.

GOVERNMENT PRINTING OFFICE 1548:

# MEMORANDUM IMMEDIATE ATTENTION

SURVEY DESCRIPTIVE REPORT REMOTOSTATION	No. H	H6696 H6697

received May 25, 1942 registered July 14, 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.

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#### DIVISION OF CHARTS

#### SURVEYS SECTION

#### REVIEW OF HYDROGRAPHIC SURVEY

REGISTER NO. 6696 Field No. 21

Alaska, Aleutian Islands, Seguam Island (Eastern Half)
Surveyed in August - September 1941; Scale 1:20,000
Instructions dated February 3, 1938 (SURVEYOR)

Soundings: 808AS Recorder

Control:

Visual fixes on shore signals

Chief of Party - F. B. T. Siems
Surveyed by - C. A. Burmister, E. B. Brown, K. S. Ulm,

H. S. Cole, F. X. Popper and J. T. Guthrie
Protracted by - J. T. Guthrie, E. B. Brown
Soundings plotted by - E. B. Brown
Verified and inked by - C. E. Dennis
Reviewed by - Harold W. Murray, August 31, 1942
Inspected by - H. R. Edmonston

#### 1. Shoreline and Signals

The shoreline and signals originate with 1941 plane table surveys T-6866, T-6868 and T-6869.

#### 2. Sounding Line Crossings

Agreement of sounding line crossings is very god.

#### 3. Depth Curves

The usual depth curves may be completely drawn.

#### 4. Junctions with Contemporary Surveys

The junction with H-6723 (1941) and H-6697 (1941) will be considered in the reviews of those surveys.

#### 5. Comparison with Prior Surveys

No prior surveys have been made in this area.

#### 6. Comparison with Chart 8802 (New Print date 1-29-42)

No charted hydrography is shown within the limits of the present survey. The two clusters of sunken rock and islet detail charted off the east coast of Segnam Island should be superseded by the shoals and islet detail on the present survey.

#### 7. Condition of Survey

Satisfactory.

#### 8. Additional Field Work Recommended

When convenient the 38-fm. sounding rising from depths of about 60 fathoms in Lat. 52°19.5', Long. 172°16.15' should be investigated. The reading of this shoal on the fathogram is somewhat doubtful because of a change in phase (pos. 13-15g) but it is to be noted that this shoal is in range with two inshore shoals on the west.

#### Compliance with Instructions 9.

Satisfactory, except that no bottom characteristics were obtained in either Finch or Lava Coves. The Descriptive Report, which recommends these anchorages, states that the holding ground is good.

#### Superseded Surveys 10.

None.

Examined and approved:

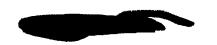
Chief, Surveys Section

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Chief. Section of Hydrography

Chief, Division of Coastal

Surveys



#### DIVISION OF CHARTS

#### SURVEYS SECTION

#### REVIEW OF HYDROGRAPHIC SURVEY

REGISTER NO. 6697 Field No. 2241

Alaska, Aleutian Islands, western part Seguam Island Surveyed in August and September 1941; Scale 1:20,000 Instructions dated February 3, 1938 (SURVEYOR)

Soundings: 808AS Fathometer Control: Visual three-point fix

Chief of Party - F. B. T. Siems
Surveyed by - Ship's Officers (EXPLORER)
Protracted by - R. H. Woodcock, E. B. Brown
Soundings plotted by - R. H. Woodcock
Verified and inked by - Leroy King
Reviewed by - G. F. Jordan
Inspected by - H. R. Edmonston

#### 1. Shoreline and Signals

Triangulation was accomplished under the present project.

On the west and north sides of the island most of the control was signals (shown in blue) located by a combination of cuts by the hydrographic and topographic parties. The sextant angles are listed in the descriptive report for T-6867, T-6868. Random traverse was run between the above located signals from which the remaining topographic signals and the shoreline detail were obtained.

The south side of the island was controlled by plane table survey T-6869.

#### 2. Sounding Line Crossings

Satisfactory.

#### 3. Depth Curves

Satisfactory.

### 4. Junctions with Contemporary Surveys

Satisfactory junctions are made with H-6696 (1941), which covers the eastern part of the island, and with the offshore survey H-6723 (1941), which surrounds the present survey.

#### 5. Comparison with Prior Surveys

This basic survey is the first made in this area.

#### 6. Comparison with Chart 8802 (Latest print of 8-31-42)

#### (a) Hydrography

(1) The sunken rock charted at Lat. 52°23.7', Long. 172°29.5' originates from advance information on the present survey, Letter 554 (1941), which reported least depth of 2fm. The final smooth sheet value is 2-4/6fm., substantiated by 3-2/6fm. on an adjacent line, both of which were scaled at the tops of single graphic lines on the fathogram, positions 21 and 51d.

The descriptive report notes that no breakers nor kelp were observed over this rock. Normally, the single line graph would have been considered to be kelp, as the island is lined with kelp; and the least depth would have been scaled at 6fm. at the top of the heavier graphic lines. Moreover, the nonexistence of breakers or "humps" and surface kelp would tend to discredit the shoaler depth.

The chief of party, now in the office, considers that the single line graph could represent a volcano core finger and, therefore, the 2-4/6fm. and 3-2/6fm. depths have been plotted. No investigation was made with leadline or wire drag.

- (2) The charted rock detail close to shore originates from the present topographic surveys.
- (b) There are no dredged channels nor aids to navigation within the area of this survey.

#### 7. Condition of Survey

#### (a) Sounding Records

The sounding records are neat and legible and conform to the Hydrographic Manual.

The scaling and recording of depths every 15 sec. instead of 30 sec. inside the 20-fm. curve, especially off the west and south shores of the island, would have been advisable (see Par.(c)).

#### (b) Descriptive Report

Satisfactory.

#### (c) Field Plotting

The protracting was satisfactory. Minor disagreements, on the west and southwest, between the smooth and boat sheets were found to result from the boat sheet protracting on the unadjusted location of signals. The boat sheet lines are more regular.

The descriptive report notes that additional soundings were scaled from the fathograms while plotting the smooth sheet. Additional soundings were also added by this office in many areas, particularly to develop and encircle rocky shoals and points. This applies especially to the undeveloped area south of triangulation station TURF, 1941, which is mentioned in the descriptive report under "further development." In two cases, by the scaling of additional soundings, small isolated shoals were found to be ridges connected with the shore.

#### 8. Compliance with Instructions for the Project

Satisfactory. Specific instructions were not given for bottom characteristics and none were obtained.

#### 9. Additional Work

When surveys are resumed in this locality additional work, as follows, is considered advisable.

- (a) Lat. 52°23.7', Long. 172°29.5' investigate least depth on 2-4/6-fm. rock by mechanical methods, lead line or wire drag.
- (b) Lat. 52°23.7', Long. 172°28.0' develop shoal inshore from this location.
- (c) Lat. 52°21.1', Long. 172°35.2' development of the indicated ridge extending from the 4-fm. sounding northwestward to the line of 32-fm. soundings.
- (d) Lat. 52°18.3', Long. 172°37.6' development of point on 10-fm. curve.

#### H-6697 (1941) - 4

- (e) Lat. 52°16', Long. 172°39' development of 200-meter splits outside 3-5/6-fm. sounding and the 6-1/6-fm. sounding 500 meters S.E.
- (f) Lat. 52°14.5', Long. 172°32' development of extensive shoal area off the south shore of the island.
- (g) Bottom specimens in anchorage areas.

#### Superseded Surveys 10.

No prior surveys.

Examined and approved:

Chief, Division of Charts

Chief, Division of Coastal

Surveys

H6696 Applied to Ch 8862 ang. 21/942 - John H6697 Sept 8, 1942 - girer.

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