625

B. S. COAST & GEODETIC SURVEY A LIBRARY AND ARCHIVES

· MAR 7 1938

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

DESCRIPTIVE REPORT

Topographie Hydrographic)

Sheet No. __ 112336____

DECLASSIFIED BY NOAA

PURSUANT TO DOC SYSTEMATIC REVIEW **GUIDELINES AS DESCRIBED IN SECTIO** 3.3(a), EXECUTIVE ORDER 12356.

State ALASEA Aleutian Islands

LOCALITY

Umnak Pass

ALEUTIAN ISLANDS

Clare IMPNIESTABLE to Pustoi Island

193 6-7

A. M. SOBIERALSKI

COMMANDING OFFICER
U.S.C.&G.S.S. SURVEYOR

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. U2336

REGISTER NO.H6255

State Aleutian Islands
General locality Aloutian Islands Umnak Pass
Cape Nette Juan to Pustoi Island Locality Hartham Approaches to United Pages
July, Aug., Sept., Oct. '36 Scale 1-20000 Date of survey May, June, Aug., Sept. 19.37.
VesselSURVEYOR
Chief of Party A. M. Sobieralski
Surveyed by A.M.S., G.L.B., W.F.M., I.T.S., J.L.
Protracted byWilliam F. Deane
Soundings penciled by
Soundings in fathoms foot
Plane of referenceMalalaWa
Subdivision of wire dragged areas by
Inked by W.A. Bruder
Verified by W.A.B.
Instructions dated
Remarks:

U. S. GOVERNMENT PRINTING OFFICE

DESCRIPTIVE REPORT

To Accompany

HYDROGRAPHIC SHEET FIELD NO. U2336 H-C255

NORTHERN APPROACHES TO UMNAK PASS

AUTHORITY: This survey was made in compliance with the Director's Instructions dated April 13, 1934, Project HT-176.

LIMITS: This sheet covers the inshore area north of Unalaska Island from Nellie Juan Cape to Boulder Bay; the inshore area east of Umnak Island from Lat. 53° 29.5', south of Cape Idak, to Lat. 53° 23.3', southwest of Pustoi Island; and an area that spans Umnak Pass near Ship Rock. Chernofski Harbor, Unalaska Island, was surveyed on a sheet of larger scale, and the area between the two inshore areas was surveyed on a sheet of smaller scale.

SURVEY METHODS: The outer lines of this survey were run by the SURVEYOR using the fathometer No. 1, Type 312, Serial No. 312 104 AB., for sounding and sextant fixes for control. The inshore lines were run by the WILDCAT and launches using wire and hand lead for sounding and sextant fixes for control. All launch soundings were corrected as prescribed by the Hydrographic Manual, the only correction being for tide variation. Fathometer soundings for that part of the work on this sheet done during the 1936 season were corrected for index, temperature, slainity, etc., in accordance with the Hydrographic Manual, and in the manner set out in the Fathometer Report for the 1936 Season. Copies of the correction tables used have been secured in the front of Vol. 1 for this sheet.

Fathometer soundings for that part of the work on this sheet accomplished during the 1937 field season were corrected in accordance with the Hydrographic manual and Field Memorandum No. 3, dated June 11, 1936. Index corrections were not necessary as the draft setting was adjusted to eliminate these corrections. Copies of the correction tables used have been secured in the front of Vol. 5, for this sheet.

Where two soundings occur on the same launch position the shoalest should be charted. The soundings were taken simultaneously from opposite sides of the launch, and in no case more than 12 ft. apart.

The overlap with the work on Sheet 4336 which occurs between Lat. 53° 26.5', and Lat. 53° 28.5', and between Long. 167° 32.0', and Long. 167° 35.0' was made to develop this area on U2336 closer than was conveniently possible on Sheet 4336.

Little difficulty was incurred in obtaining fixes although weather conditions sometimes impeded work. On the lines run by the ship west of Boulder Bay an occasional weak fix had to be employed, but there were enough stronger fixes to control the lines.

\$53023.1 1/670 39.7

O Mar is located on a rock of about 8 ft. elevation. The original tracing of the topographic sheet UF 36 showed the signal on the rock, but when the topographic sheet was inked the signal was shown on the beach by mistake. This error was undoubtedly caused by blurred shoreline and the hydrographic sheet should be accepted as showing the true position of O Mar. Appropriate note placed on topographic sheet H.W.M.

DANGERS: In Lat. 53° 23.7', Long. 167° 47.0' a bank with least depth of 17 fms. was found. Development showed this shoal to be ridgelike.

In Lat. 53° 26.4', Long. 167° 34.1' a shoal with a least depth of 10 fms. was found and developed.

In Lat. 53° 26.1', Long. 167° 29.4' a shoal with a least of $10\frac{1}{4}$ fms. was found and developed.

In Lat. 53° 25.7', Long. 167° 32.9' a shoal was developed and a least depth of 12 fms. found.

In Lat. 53° 25.3', Long. 167° 33.6' a least depth of 10½ fms was found after a very comprehensive development.

In Lat. 53° 25.5', Long. 167° 33.8' a least depth of 11 fms was found by the ship. Extensive development by launches showed no shoaler sounding.

In Lat. 53° 21.8', Long. 167° 44.4' a shoal with least depth of $3\frac{1}{2}$ fms was found.

In Lat. 53° 25.5', Long. 167° 30.8' there is a rocky shoal marked by kelp on which least depth obtained was 42 tfathoms. It is proposed to develop this area more thoroughly in 1938.

The 9 fathom sounding in Lat 53° 22.3', Long 167° 49.1' is developed on the adjoining sheet U2436.

ANCHORAGES: During the season of 1936 the ship anchored $\frac{1}{2}$ mile southward of \triangle Nork, Umnak Island, in 14 to 16 fms., sand bottom. This area offered good shelter in westerly weather. High cliffs along the shore are responsible for the calm water even in heavy weather.

An anchorage in 6 to 8 fms., rocky bottom, for small craft is found in Boulder Bay. There is shelter here from all except northerly weather. The best anchorage is 300 yards northeastward of 0 POT.

Some shelter for small craft from northerly and westerly weather is afforded by the small cove on the west side of No Name Bay. Anchorage may be had 150 yards off 0 Chic and 0 Sale in 2 to 3 fms., sand bottom. These topographic signals are tumble-down shacks.

Shelter from all except northerly weather may be had in the west arm of Station Bay. The anchorage is about 500 yards from the head of the γ arm in 5 fms., rocky bottom.

In the east arm of Station Bay shelter from all weather may be had in the center of the small bight on the west at head of arm. Anchorage may be had in 5 fms., mud bottom.

Some shelter for small craft from easterly and southerly weather is afforded by a small bight 400 yards southward of \triangle WEDGE in 4 to 5 fms., rocky bottom. This is not recommeded as the land directly east of it is very low and wind sweeps across from Chernofski Harbor.

CURRENTS: The effect of the ebb current towards Umnak Pass increases from Nollie Juan Cape Aspide and from Cape Idak southward, until it attains a velocity estemated at 3 knots in the vicinity of Ship Rock.

30

Tide rips are noticeable eastward of Ship Rock especially on the flood. Off the various points along the Unalaska Island shore, the current causes tide rips which are particularly noticeable in the vicinity of Boulder Bay.

CHANNELS: The sounding lines in the channel between Umnak & Pustoi Islands are rather widely spaced but the channel has little importance. The only occasion to use it would be by small vessels.

Vessels traversing Umnak Pass from the southward bound for Chernofski Harbor should stay about $\frac{5}{4}$ mile off the north shore of Unalaska Island on course 50° true. Maintain this course till the west entrance point of No Name Bay bears South true then change course to 76° true. Maintain this course till east tangent of West Point bears South true then change to 125° true, which is the approximate mid channel course for entering Chernofski Harbor.

When making Chernofski Harbor from Kashega a course of 240° true passing ½ mile off Nellie Juan Cape is clear of all danger. Continue this course to a point 1 mile north of West Point then change to 125° true for entering Chernofski Harbor.

COMPARISON WITH PREVIOUS SURVEYS: Since existing surveys are of a reconnaissance nature no accurate comparison can be made.

CVERLAYS: An overlay was made to clarify soundings and positions in Lat. 53° 25.5', Long. 167° 33.7'. Essential sdigs platted on smooth sheet and tracing destroyed. H.W.M.

Respectfully Submitted:

Approved & Forwarded:

IRA T. SANDERS

Jr. H. & G. Engr.

A. M. SOBIERALSKI Commanding Officer U.S.C.&G.S.S. SURVEYOR

STATISTICS

HYDROGRAPHIC SHEET FIELD NO. U2336 H-6255

DATE	VOLUME	DAY	STATUTE MILES	POSITIONS	SOUNDINGS
Ship					
√ 7 - 8 - 36	1	A	45.8	119	487
/7-16-36	1	В	17.5	52	292
√ 7-17-36	1	C	6.4	22	8 4
√8-3-36	1	D	4.3	11	37
9-18-36	1	E	24.4	79	372
9-19-36	l	F	11.3	4 8	156
9-19-36	2	F	5.5	24	66
9-26-36	2	G	36.7	128	469
10-3-36	2	H	27.0	97	361
5-28-37	5	J	16.6	50	183
6-16-37	5	K	70.9	192	69 8
8-24-37	5	L	47.2	158	576
	Ship's tot		313.6	980	3781
Motor Sa				***	
√7 - 16 - 36	3	a	29.2	194	527
7-17-36	3	ъ	23.4	156	454
/9-18-36	3	c	3.0	27	86
9-18-36	4	c	12.6	75	240
9-26-36	4	d	9.0	53	164
5-28-37	8	е	12.2	86	185
5-31-37	8	f	2.5	26	. 59
6-16-37	8	g	27.6	158	542
6-29-37	8	h	8.7	66	157
∧8-2 -3 7	9	j	22.7	142	382
√ 8-24-37	9	k	14.9	136	282
	Motor Sail	ler's Tota		1119	3078
WILDCAT					
_y 8-27-37	6	a	10.3	101	232
8-30-37	6	Ъ	2.8	3 0	49
8-31-37	6	c	8.9	67	184
9-3-37	6	d	9.8	. 115	181
9-4-37	6	е	9.4	190	101
9-4-37	7	e	0.9	16	18
9-5-37	7	f	9.5	138	228
,	WILDCAT'S	Total	51.6	657	991
Launch N					-
√6-29 - 37	10	a	8.6	70	131
	Launch No		8.6	70	131
				, -	
	Grand Tota	al	539.6	2826	7981

Area. 62.6 sq. statute miles

LIST OF SIGNALS USED FOR CONTROL

HYDROGRAPHIC SHEET FIELD NO. U2336 H-6255

```
Triangulation Locations
                            Deer 1936
                                                         Wet 1935
Top 1935
                            Wash 1936(see note in
                                                         Ward 1936
Pass 1935
                                          dese repert)
                                                         State 1936
Nork 1936
                            Unala 1936
                                                         Lum 1936
                             Juan 1935
Sork 1936
                                                         How 1936
                            Wedge 1935
Skee 1935
                                                         Spear 1935
                            Churn. 1935
Otter 1935
Pustoi 1935
                            Chernofski Entr. Lt. 1936Crow 1936
                            Noff 1935
                                                         Fast 1936
Sheen 1935
                            To 1936
                                                         Loose 1936
Ship Rock 1935
                                                         Tax 1936
Hump 1936
                          Topkgraphic Locations
                      Topographic Sheet Field Letter UJ36 T-6550
            Zak
                             Sil
                                           Fun
           Vol
                             Liz
                             Fo
                                           Fi
           Pot
                                           Mel
            Sam
                      Topographic Sheet Field Letter UI36 7-6549
                                                         Dry
Gin
            Ide
                             Bil
Ava
                                            \tilde{3}
                             Lam
Bat
            Jo
                                            4
                                                         Bet
            Kil
                             Pat
Cook
                                            5
                                                         Gav
Can
                             Tap
           Lax
                                            6
Ten
            Gas
                             Rag
                                                         Jag
                                            7
Dub
            Oil
                             Cra
                                                         Nig
                                            8
            Est
                             Did
                                                         Pal
Αp
                                            9
                                                         Ken
            Hic
                             Cab
Red
            Yar
                             Tar
                                            A
                                                         Par
Eve
            Doc
                             Pig
                                           N
                                                         Edge
Fug
                                            Don
Gut
            Mob
                             Dog
                                                         Mid
            Bum
                             Gor
Hov
                      Topographic Sheet Field Letter UF36 T-4937
            Sat
                             Tal
                                            Ira .
                                                        Sho
Uno
                             Tos
Dos
            Sun
                                            Gulp
                                            Mar(see noteNip
Tres
                             Lit
            Moon
Quat
            Star
                             Gam
                                            Tol desc rep) Irk
Cinc
            Plan
                                            Walk
                             Mag
                                                         Bus
Sex
            Jupe
                             Lug
                                            Chic
                                                          Tur
Sept
            Nep
                             Нe
                                            Sale
                                                         Key
Oct
            Ven
                                            Elm
                             Big
                                                         Low
Nov
            Mars
                                            Pas
                             Ran
                                                          In
Deck
            Turn
                             Mad
                                            Fir
                                                         Poi
 Jan
            Ace
                             Dam
                                            Bug
                                                         Но
Feb
            Ion
                             Red
                                            Lab
                                                          So
Mare
            Cig
                             Yor
                                            Spy
                                                         Pot
Wed
            Vot
                                                          Off
                             Roy
                                            Man
            Pad
 Thur
                             Gow
                                            Lux
                                                          Zip
            Bal
                                            Zil
Fry
                             Wag
                                                         Pit
                      Topographic Sheet Field Letter CH37 (Photo Comp.)
May | Also on
June 7-4937
                             Clar
                                            Side
                                                         Head
            Her
            Toot
                                            Cor
                                                         Rig
                             Bac
Мe
            Grave
                             Win
                       Hydrographic Stations
Cuts in Vol. 5
White Rock
Pea
                                 do
Ate
                                 do
                                            8
```

APPROVAL SHEET

to accompany

HYDROGRAPHIC SHEET FIELD NO. U2336 H-6155

This sheet and the records have been examined and are approved.

A. M. SOBIERALSKI Commanding Officer U.S.C.&G.S.S. SURVEYOR FORM 712
DEPARTMENT OF COMMERCE
COAST AND GEODETIC SURVEY
Ed. Feb. 1935

TIDE NOTE FOR HYDROGRAPHIC SHEET

March 24, 1938

Division of Hydrography and Topography:

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

Plane of reference

TidexReducerszare approved in

10 volumes of sounding records for

HYDROGRAPHIC SHEET 6255

Aspid

Locality Cape #41/14 Huan to Pustoi Island, Aleutian Islands

Chief of Party: A. M. Sobieralski in 1936 & 1937 Plane of reference is mean lower low water reading

3.3 ft. on tide staff at Chernofski Harbor

8.8 ft. below B.M. 1

3.3 ft. on T. S. at Kashega Bay off Limit of H-6155

10.4 ft. below B. M. 1

Height of mean high water above plane of reference is 3.4 feet at Chernofski Harbor; 3.7 feet at Kashega Bay.

Condition of records satisfactory except as noted below:

Chief, Division of Tides and Currents..

U. S. GOVERNMENT PRINTING OFFICE

GEOGRAPHIC NAMES Survey Not 6255	,)	/x .n	Vous	diodio	, S. S.	. Jack	4x / 800	W. Kali	R. Str.	ک خ
	6	Chor do	V C	S. Mada	or rocking	70 Ker V	Q Carde of	Mod Mchail	N.S. Jight	/
Name on Survey	/ A,	В,	/ c,	<u> </u>	E	* F	G	<u>/ H</u>	<u>/ ĸ</u>	-
Umnak Island	/									
Ship Rock	/									
Pustoi Island	~									
Boulder Bay	GNS									
No Name Ray	GNS									
Station Bay	GNS									
MARK ROLLY						-				
Chernofski Harbor	/				/					
Andria Jun Capel	/									
Sumnak Pass	/									_
Jother Point	~									_
Unalaska Island	V							ļ		
Cape Idak	/									
Egyt Report										
Otter Bight 7-29-38 L.H										_
Paso Pt.			. ,							
Paso Pt. Bering Sea										
									ļ	_
			,							
				-		-			-	
		-								
		1							,	_
ivance underling the real appro-	addi									
15 SHE 014/14/3										

1	•	USGB decision
2		see T- 6549
3		., .,
4		see T. 4937
5		11
6		" "
7	of Chernotski Hbr. a desc. name	
8		
9	changed by U.S.G.B. to Cape Aspid.	(see loclow)
10		see T-6549
11		10 11
12		USGB decision
13		
14	a desc. name - applied to East Dt. of Chernofski Hbr.	
15		V.S. G. B. decision
16	omit name on this sheet	Later reports
17		USGB decision
18		
19	<i>'</i> .	
20	,	
21		
. 22		
23		
24		
25		
26		
27		
M 234		

HYDROGRAPHIC SHEET NO.5

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

Number of positions on sheet	2826
Number of positions checked	
Number of positions revised	6
Number of soundings recorded	7981
Number of soundings revised	42
Number of signals erroneously	
plotted or transferred	0

\

hydrographic survey no. $\underline{{ m H6255}}$

Smooth Sheet Yes
Boat Shoet Three
Records; Sounding 10 Vols., Wire Drag Vols., Bomb Vols.
Descriptive Report Yes
Title Shoet Yes
List of Signals In D.R.
Landmarks for Charts (Form 567) None
Statistics In D.R.
Approved by Chief of Party
Recoverable Station Cards (Form 524)None
Special Chart for Lighthouse Service None (Circular Nov. 30, 1933)
Hydrography: Total Days 22; Last Date Sept. 5, 1937
Remarks

MEMORANDUM IMMEDIATE ATTENTION

,		received Mar. 7, 1938
SURVEY DESCRIPTIVE REPORT		registered Mar. 19, 1938 verified
PHOTOSTATXOF	Mox x q x	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	V	ws	Page 3 tought
40			
62			
63			
82			
83			
88			
90			

RETURN TO

	82	T.	В.	R e ed
- 1	02	•	37.	, 60 012

Report on M-6255
Whist of party A.M. Sobieralski
Protracted by W. F. Deane
Verified & inked by Wallace A. Bruder

Surveyed in (July-Oct, 1936 May - Sept, 1937 Surveyed by A.M.S., G.L.B., W.F.M., 1.T.S., J.L. Soundings flotted by W.F.D.

O The records conform to the requirements of the General I notructions, with the following exceptions:

a. The colors of the day letters on the covers of volumes 4 and 5 were changed & v from black to blue as per insides. (& hange made by verifier)

b. use of a period to separate degrees from minutes throughout every volume gives the oppearance of degrees and tenths. A dash to replace the period hereafter is * recommended.

"Turning about " instead of just " turning" is recommended for the remarks &

column whenever a lines turns 1800.

3 The would depth surves were completely drawn. The overlapping curves agree very well.

3 The field flatting was complete to the extent prescribed in the Hydrographic manual with the fellowing exceptions:

a. It is recommended to always pencil the direction the counding line curves, regardless of whether coundings where taken on the turn. (If not too conjected) * The turns were pencilled in open places by the verifier.

The office did not have to do over any part of the drafting done by the field party. It was very well done, with the exception of blurred, uneven rock award symbols.

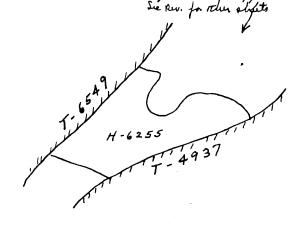
Four of the fine adjacent contemporary wheets have their junctions complete and satisfactory. The fifth, H-6303 is at present being verified and inked.

John sheets (2) applied.

See Rev. for row sheets

JMHAR H-6255 H-6303 H-6303 JN ALASKA

* The so items not mentioned in Rev. H.W.M.



6. Remarks

a. The field draftsman very selden gave notes of explanation as to why certain original field notes were changed or rejected, or preference given another. Too much stress could not be put on the importance of a thoroughly detailed discussion and decision being in the remarks column.

b. It is recommended never to obliterate original notes. a thin colored pencil line other than black with the correction over is the approved method. Throughout the entire ten volumes the approved method was never followed. The extreme case is the middle of page 34 in volume 9.

C. The boat sheet has a red X over a sunker rock symbol that appears to be either a correction to readrock award, or deterior of rock. The verifier has shown the rock award symbol as the nearest sounding line is over 30 meters away.

I . The verifie does not believe the words "line recurse" should come after line turns. I

e. a shool sounding of 11 fathoms outside a 13 seems questionable at long. 167039.1', 400 meters n. w. O Gulp. However the verifier checked all auromoting positions and found them to be correct. This is probably a shool similar to the root of the sheet. It has been wiked as such.

f. The rerifier could not find any authority for the shortine at \$530 24.6' \$1670 32' to 33.5' It is probably on a sheet covering beharms fake Harbor. The sloreline and reef line were left in pencil as originally put on by field. From Field Sheet # CH37 Treef line were left in pencil as originally put on by field. See page 5 J P. R.

9. Be careful of using confusing names. This was only down in * one case. That is:

OMars \$ 53° 23.9'

OMar \$53° 23.1'
\(\lambda \) 167° 39.7'

4. The controlling depth should be 4 4 instead of 4 2 on page 2 of this + descriptive report.

i. O IRK on the hydro. sheet is shown as INC on T-4937. \$ 53° 22.9'
IRK med in records, so no change. Unimportant! name change topor sheet.

^{*} These items not mentioned in Rev. H.W. M.

Section of Field Records

REVIEW OF HYDROGRAPHIC SURVEY H-6255 (1936-37) FIELD NO. U2336

Cape Aspid to Pustoi Island, Umnak Pass, Aleutian Islands
Surveyed in 1936 - 37, Scale 1:20,000
Instructions dated April 13, 1934 (SURVEYOR)

Hand Lead, Fathometer and Machine Soundings.

3 Point fixes on shore signals.

Chief of Party - A. M. Sobieralski. Surveyed by - Various officers. Protracted by - William F. Deane. Soundings plotted by - W. F. D. Verified and inked by - W. A. Bruder.

1. Condition of Records.

The records are neat and legible and conform to the requirements of the Hydrographic Manual except that original entries in the sounding records which were in conflict with other information were frequently crossed out in such manner that the original entry was obliterated. The accepted practice is to draw a neat line through the conflicting information. (Par. 78).

In about one-third of the sounding volumes a decimal point instead of dash was used to separate the degrees and minutes of angles. (See page 107 of Hydrographic Manual).

The Descriptive Report is clear and comprehensive and satisfactorily covers all items of importance except that the approval sheet was not signed by the Chief of Party.

2. Compliance with Instructions for the Project.

The plan, character and extent of the survey comply with the Instructions for the Project.

3. Shoreline and Signals.

The shoreline and signals originate with plane table surveys: T-4937 (1936), T-6549 (1936), T-6550 (1936) and topographic map Field sheet No. CH 37. The latter sheet has not yet been registered in this office.

4. Sounding Line Crossings.

Agreement of such cross lines as were run or result from the work is satisfactory.

5. Depth Curves.

The usual depth curves may be satisfactorily drawn.

6. Junctions with Contemporary Surveys.

The junctions on the north with H-6256 (1936-37), H-6257 (1936-37) and H-6176 (1936), on the east with H-6212 (1936-37) and on the southest with H-6303 (1936-37) are satisfactory.

7. Comparison with Prior Surveys.

No prior surveys have been made by this Bureau in this area.

8. Comparison with Charts 8802 (New Print dated Dec. 13, 1937) and 9196 (New Print dated Feb. 3, 1938)

a. Hydrography.

Hydrography shown on the chart is limited to Chernofski Harbor and originates from a reconnaissance in 1929 and soundings in 1925 and 1929 by the U. S. Coast Guard (see note on Chart 9196). This reconnaissance information is very sketchy and should be superseded by the present survey in future charting.

b. Aids to Navigation.

The entrance light in Chernofski Harbor satisfactorily marks the features intended.

9. Field Plotting.

Field protracting and plotting are excellent.

10. Additional Field Work Recommended.

Additional field work is recommended on the following shoals:

- a. On the 9-3/4 fathom sounding at lat. 53°2 5.3', long. 167° 33.1'.
- b. On the spit defined by the 10 fathom curve at the western approach to Chernofski Harbor in lat. 53°24.8'; long. 3½ fms. on H-6414 lof7° 35.05'.
- c. On the 12 and 13 fathom spot defined by the 20 fathom curve at the western approach to Chernofski Harbor in lat.53°24.7', long. 167°35.7'.
- d. On the 10-3/4 fathom sounding in lat. 53°24.2', long. 167°36.7', which defines the end of a spit extending off the point on the east side of Station Bay.
- e. On the 12 fathom spot in lat. 53°23.91, long. 167°38.51 off the point at the western entrance to Station Bay.

- f. On the 8 to 20 fathom spit in lat. 53°23.4', long. 167°50.1'.
- g. On the 6-4/6 fathom shoal defined by the 7 fathom curve in lat. 53°26.1', long. 167°50.4'.
- h. It is noted on page 2 of the Descriptive Report that during the current season the field party proposes to develop the 4-4/6 fathom shoal in lat. 53°25.5¹, long. 167°30.8¹.

11. Superseded Prior Surveys.

There are no prior surveys made by this Bureau in this area.

12. Reviewed by - Harold W. Murray, Sept. 31, 1938.

Inspected by - E. P. Ellis.

Examined and approved:

T. B. Reed.

Chief, Section of Field Records

Chief, Division of Charts.

Chief, Division of H. &. T.

applied to Chart Comp. 9022 Dec. 1, 1938. He was suren applied to Chart comp 9020. May, 1940. Fa.M.,
" " (new) chart 9009 - Feb. 28-1942 P.B.C.

.

ر. ز.

•

.