

FE 162

Sheet filed in tube for H-8415

Diagram No. 8865 & 9198-2

NOAA FORM 76-35A

U.S. DEPARTMENT OF COMMERCE
NATIONAL OCEANIC AND ATMOSPHERIC ADMINISTRATION
NATIONAL OCEAN SURVEY

DESCRIPTIVE REPORT (HYDROGRAPHIC)

Type of Survey ... Field Examination
Field No. EX-025158
Office No. FE-162

LOCALITY

State Alaska
General Locality .. Aleutian Islands
Locality Alcan Harbor, Shemya Island

1958

CHIEF OF PARTY
G.C. Mast

LIBRARY & ARCHIVES

DATE June 16, 1958

☆ U.S. GOV. PRINTING OFFICE: 1976-669-441

NOTE: A new system for registering Field Examinations (FE's) was established in 1980. All FE's are now consecutively numbered as shown hereon. The date shown in the new format is the actual date of survey. This material was previously registered as;

FE No.2 1958

FE 162

F E No. 2 1958

Sheet filed in tube for
H-8415

FE-162

Diag. Cht. Nos. 8865 and 9198-2.

Form 504	
U. S. COAST AND GEODETIC SURVEY	
DEPARTMENT OF COMMERCE	
DESCRIPTIVE REPORT	
Type of Survey	Hydrographic
Field No. EX-025158	Office No. F.E. No. 2 (1958)
LOCALITY	
State	Alaska
General locality	Aleutian Islands
Locality	Alcan Harbor, Shemya Island
194 58	
CHIEF OF PARTY	
G. C. Mast	
LIBRARY & ARCHIVES	
DATE	June 16, 1958

Smooth Sheet filed
in tube H-8415

F E No. 2
1958

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.

SPECIAL SURVEY 2-58

REGISTER No.

Field No. **EX-025158**

State **Alaska**

General locality **Alutian Islands**

Locality **Alcan Harbor, Shemya Island**

Scale **1:2500** Date of survey **11, 12 and 19 May 1958**

Instructions dated **22 April 1958, Telegram of 29 April 1958**

Vessel **EXPLORER**

Chief of party **G. C. Mast**

Surveyed by **L. F. Woodcock, H. D. Reed, Jr.**

Soundings taken by fathometer, graphic recorder, hand lead, wire **fathometer**

Fathograms scaled by **L. B. S., M. E.**

Fathograms checked by **M. E., L. B. S., J. M. R., J. K. R.**

Protracted by **L. F. W. and H. D. R., Jr. (Boat sheet only)**

Soundings ~~plotted~~ ^{inked} by **L. F. W., H. D. R., Jr., J. K. R., T. E. S.**

Soundings in ~~xxxxx~~ feet at ~~xxxxx~~ MLLW *and are true depths*

REMARKS:

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.....

DESCRIPTIVE REPORT TO ACCOMPANY HYDROGRAPHIC

SURVEY EX-025158 (SPECIAL SURVEY 2-58)

ALCAN HARBOR, SHEMA ISLAND, ALEUTIAN ISLANDS

1958

Chief of Party: G. C. Mast
USC&GS SHIP EXPLORER

Surveyed by: L. F. Woodcock
H. D. Reed, Jr.

A. PROJECT:

The survey was executed in accordance with the Director's letter 22/MEK, S-2-EX of 22 April 1958, subject SPECIAL SURVEY 2-58, ALCAN HARBOR, SHEMA, ALASKA, and the Director's telegram dated 29 April 1958.

B. SURVEY LIMITS AND DATES:

The survey encompasses the area of Alcan Harbor, Shemya Island, south of latitude $52^{\circ} 44' 20''$. The hydrography was accomplished on 11, 12 and 19 May 1958. Its primary purpose was to determine the adequacy of the existing chart.

C. VESSEL AND EQUIPMENT:

The sounding vessels were launch No. 2 and launch No. 3 operating from the Ship EXPLORER. Launch No. 2 operated in the western portion of the harbor, while launch No. 3 operated in the eastern portion. Launch No. 2 used 808 fathometer No. 158SPX. Launch No. 3 used 808 fathometer No. 127-S

D. TIDE AND CURRENT STATIONS:

A temporary tide staff was erected on the ship dock in Alcan Harbor. However, we were able to find none of the tidal bench marks in the vicinity. Nevertheless, staff readings were taken at 15 minute intervals during all periods of hydrography. On 12 May it was necessary for the EXPLORER to seek shelter in Massacre Bay. While in this vicinity, the marigram from the standard gage in Massacre Bay was used to obtain tide heights at 15 minute intervals during periods of hydrography on 11 and 12 May. These values were corrected for the time and height difference as given in the tide tables and the corrected values were used to derive tide corrections for 11 and 12 May. A comparison was made between these corrected values and the staff readings at Alcan Harbor, to obtain a provisional value for the plane of MLLW on this staff. On 11 May the value obtained was 4.5 feet and on 12 May the value obtained was 4.6 feet. On 12 May there was a strong northerly wind and a heavy surge pounding into Alcan Harbor, which could have accounted for the slight difference. For this reason, the value of 4.5 feet was applied to staff readings on 19 May to obtain tide reducers.

This method of obtaining tide reducers was adopted because it was imperative for us to furnish the results of the survey to local navy authorities as quickly as possible. Upon your receipt of the tide mari-gram from the newly installed gage in Massacre Bay, it will be advisable for the office to check tide reducers used in the field on 19 May.

No current stations were observed.

E. SMOOTH SHEET:

A smooth sheet was not plotted. Uncorrected soundings were penciled on a blue-line boat sheet and later inked after final reduction of the soundings.

F. CONTROL STATIONS:

Signals used for hydrography were located on graphic control sheet EX-A-58. *Signals were applied to FE 2, 1958, and EX-A-58 marked for destruction.*

G. SHORELINE AND TOPOGRAPHY:

A portion of the shoreline originates with the blue-line boat sheet furnished by Washington. The remainder of the shoreline was penciled on the sheet from the insert on Chart 9125 and was used merely as an aid to the hydrographers.

There has been a significant change in shoreline in the vicinity of the breakwater on the western side of the harbor. This shoreline was rodded in on graphic control sheet EX-A-58 and is shown on the blue-line boat sheet in red ink. *Shoreline on EX-A-58 transferred to FE 2, 1958. EX-A-58 marked for destruction.*

Due to the surge which seems to be always present to some degree, development of the low water line was impossible.

H. SOUNDINGS:

All soundings were taken with 808 fathometers in feet on the A and B scales. A phase comparison for each fathometer was accomplished in Massacre Bay. An initial setting for each fathometer was obtained by bar checks at 12 and 18 feet, and proper corrections were applied for variations from this initial.

Due to the presence of unexploded bombs on the harbor bottom, no hand lead soundings or bottom samples were taken.

I. CONTROL OF HYDROGRAPHY:

All hydrography was controlled by visual fixes on shore signals.

J. ADEQUACY OF SURVEY:

The present survey is complete and adequate to supersede prior surveys, with the following exceptions:

See Review
|

1. Due to heavy surge and breakers, the present survey does not adequately cover the inshore areas of the harbor. ✓
2. Most of the soundings in the extensive kelp area centered at latitude 52° 44' 08", longitude 174° 04' 05" are derived from very faint bottom traces. The soundings in this area are unreliable and ships should avoid the area. ✓
3. No bottom samples were taken. ✓

K. CROSSLINES:

Crosslines comprised approximately 10% of the hydrography. Considering the character of the bottom and the ever present swell, no excessive crosslines were noted. ✓

L. COMPARISON WITH PRIOR SURVEYS:

The present survey shows a great many changes. This is probably explained by the extremely heavy weather to which this harbor is frequently subjected, and the presence of a great deal of rubble on the harbor bottom from previously existing breakwater. The present survey should supersede prior surveys in their common area. The presence of wreckage at latitude 52° 43' 52", longitude 174° 04' 31" was verified by 8-foot soundings in general depths of 20 to 30 feet. There is no visible wreckage. ✓

M. COMPARISON WITH CHART: (Correction to C&GS Chart 9125 from Notice to Mariners 11, 17 March 1956)

The 1 1/4-fathom sounding at latitude 52° 43' 52" 5, longitude 174° 04' 06" lies in a depth of 33 feet on the present survey.

revised to 21ft and transferred to FE 2, 1958 from H-6873 (1945). (See Review FE 2, 1958)

The 3/4-fathom sounding alongside the dock at latitude 52° 43' 46", longitude 174° 04' 09" now lies in depths of 8 to 9 feet.

Deleted from chart 9125 dated 6-30-52

The rock awash at latitude 52° 44' 07", longitude 174° 04' 01" was not seen during the survey and is now either washed away or covered at MLLW. There is a great deal of kelp in the area with breakers during heavy surge.

Delete rock awash (See Review FE 2, 1958.)

The 1-3/4-fathom sounding in latitude 52° 44' 09", longitude 174° 04' 08" was not verified, the least depth in the vicinity being 16 feet on the present survey. Due to the heavy kelp and consequent doubtful nature of soundings, this charted sounding should be considered for retention.

Transferred to FE 2, 1958 from H-7994 (1952)

N. DANGERS AND SHOALS:

Dangers and shoals have been covered above or are apparent on the boat sheet.

O TO Y.

Not applicable.

Z. TABULATION OF APPLICABLE DATA:

Graphic Control Sheet EX-A-58 and its descriptive report

Fathograms: Launch No. 2, a, b and c days

Launch No. 3, a and b days

Sounding volumes: 4

1 - Form 277, Tide Staff Readings

2 - Graphs, Tide Corrections on 11, 12 and 19 May 1958

5 - Sheets, Conversion of Massacre Bay tides to Alcan Harbor
and Determination of MLLW on Alcan Harbor Tide Staff

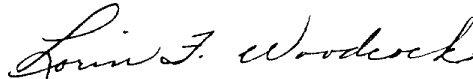
1 - Massacre Bay Tide Marigram for Period 30 April to 16 May 1958
(Forwarded on 21 May 1958, Package No. 10)

2 - Fathogram sections, A to B phase comparisons

5 - Form 685, Report on Condition of Bench Mark (Forwarded 5/15/58, Pkg No. 9)

4 - Form 526, Recovery Note, Triangulation Station (Forwarded 5/21/58,
Pkg No. 11)

Respectfully submitted,



Lorin F. Woodcock
LCDR, C&GS

Approved and forwarded:



G. C. Mast
CDR, C&GS

Commanding Ship EXPLORER

STATISTICS FOR HYDROGRAPHIC SURVEY EX-025158

SPECIAL SURVEY 2-58, ALCAN HARBOR

USC&GS SHIP EXPLORER

<u>DATE</u>	<u>VESSEL</u>	<u>DAY</u> <u>LETTER</u>	<u>VOLUME</u>	<u>N. MILES</u>	<u>S. MILES</u>	<u>POSITIONS</u>
5/11	Launch #2	a	I	3.0	3.5	37
5/12	" #2	b	I	5.3	6.1	80
5/12	" #3	a	I	5.9	6.8	88
5/19	" #2	c	I & II	11.8	13.6	164
5/19	" #3	b	I & II	<u>13.6</u>	<u>15.6</u>	<u>193</u>
TOTALS				39.6	45.6	562

0.8 square statute miles

TIDAL NOTE

Tide station at Massacre Bay, Attu, Alaska

Latitude $52^{\circ} 50' 03''$ N
Longitude $173^{\circ} 11' 36''$ E

Operation of gage at a new site on Murder Point
was started on 16 May 1958

Latitude $52^{\circ} 48' 32''$ N
Longitude $173^{\circ} 10' 05''$ E

(See Paragraph D of Descriptive Report for method
of obtaining tide corrections.)

APPROVAL SHEET

EX-025158 (Special Survey 2-58)

The field work was accomplished under my supervision. The sheet and supporting records have been examined and are approved.



G. C. Mast
Commander, C&GS
Commanding Ship EXPLORER

DETERMINATION OF BASE LINE VALUE

ON MASSACRE BAY MARIGRAM

	<u>Base Line</u>
4 May	4.27
5 "	(4.65)R
6 "	(4.74)R
8 "	(5.30)R
9 "	4.15
10 "	4.42
11 "	4.10
12 "	4.38
14 "	4.21
14 "	4.20
15 "	4.27
16 "	4.25

Average: 4.25 feeton staff

ATTU, MASSACRE BAY

4.10 = Staff MLLW

<u>DATE</u>	<u>165° TIME</u>	<u>HEIGHT FROM BASE LINE</u>	<u>BASE LINE</u>	<u>HEIGHT ON STAFF</u>	<u>HEIGHT ABOVE MLLW</u>
5/11/58	1300	+1.35	4.25	5.60	1.50
	1315	1.26	4.25	5.51	1.41
	1330	1.18	4.25	5.43	1.33
	1345	1.10	4.25	5.35	1.25
	1400	0.98	4.25	5.23	1.13
	1415	0.88	4.25	5.13	1.03
	1430	0.78	4.25	5.03	0.93
	1445	0.68	4.25	4.93	0.83
	1500	0.60	4.25	4.85	0.75
	1515	0.55	4.25	4.80	0.70
	1530	0.48	4.25	4.73	0.63
	1545	0.40	4.25	4.65	0.55
	1600	0.38	4.25	4.63	0.53
	1615	0.35	4.25	4.60	0.50
	1630	0.32	4.25	4.57	0.47
	1645	0.30	4.25	4.55	0.45
	1700	0.25	4.25	4.50	0.40

ATTU, MASSACRE BAY

4.10 = Staff MLLW

<u>DATE</u>	<u>165° TIME</u>	<u>HEIGHT FROM BASE LINE</u>	<u>BASE LINE</u>	<u>HEIGHT ON STAFF</u>	<u>HEIGHT ABOVE MLLW</u>
5/12/58	0800	+0.88	4.25	5.13	1.03
	0815	0.95	4.25	5.20	1.10
	0830	1.00	4.25	5.25	1.15
	0845	1.04	4.25	5.29	1.19
	0900	1.10	4.25	5.35	1.25
	0915	1.16	4.25	5.41	1.31
	0930	1.23	4.25	5.48	1.38
	0945	1.30	4.25	5.55	1.45
	1000	1.38	4.25	5.63	1.53
	1015	1.47	4.25	5.72	1.62
	1030	1.51	4.25	5.76	1.66
	1045	1.55	4.25	5.80	1.70
	1100	1.60	4.25	5.85	1.75
	1115	1.64	4.25	5.89	1.79
	1130	1.68	4.25	5.93	1.83
	1145	1.72	4.25	5.97	1.87
	1200	1.75	4.25	6.00	1.90
	1215	1.80	4.25	6.05	1.95
	1230	1.79	4.25	6.04	1.94
	1245	1.78	4.25	6.03	1.93
	1300	1.77	4.25	6.02	1.92
	1315	1.76	4.25	6.01	1.91
	1330	1.74	4.25	5.99	1.89
	1345	1.73	4.25	5.98	1.88
	1400	1.73	4.25	5.98	1.88

OBSERVED MASSACRE
BAY TIDES

OBSERVED MASSACRE BAY TIDES
CORRECTED TO ALCAN HARBOR

<u>DATE</u>	<u>TIME</u>	<u>TIDE</u>	<u>TIME</u>	<u>TIDE</u>	<u>STAFF</u>	<u>STAFF MLLW</u>
5/11/58	1300	+1.50	1259	+1.55		
	1315	1.41	1314	1.45		
	1330	1.33	1329	1.37		
	1345	1.25	1344	1.29	5.8	4.51
	1400	1.13	1358	1.16	5.7	4.54
	1415	1.03	1413	1.06	5.6	4.54
	1430	0.93	1428	0.96	5.5	4.54
	1445	0.83	1443	0.85	5.5	4.65
	1500	0.75	1458	0.77	5.4	4.63
	1515	0.70	1513	0.72	5.3	4.58
	1530	0.63	1527	0.65	5.2	4.55
	1545	0.55	1542	0.57	5.1	4.53
	1600	0.53	1557	0.55	5.0	4.45
	1615	0.50	1612	0.51	4.9	4.39
	1630	0.47	1627	0.48	4.9	4.42
	1645	0.45	1642	0.46	4.9	4.44
	1700	0.40	1657	0.41	4.9	4.49
			Average =			4.52

MASSACRE BAY

OBSERVED MASSACRE BAY TIDES
CORRECTED TO ALCAN HARBOR

<u>DATE</u>	<u>TIME</u>	<u>TIDE</u>	<u>TIME</u>	<u>TIDE</u>	<u>STAFF</u>	<u>STAFF MLLW</u>
5/12/58	0800	+1.03	0757	+1.06		
	0815	1.10	0813	1.13		
	0830	1.15	0828	1.19	5.8	4.61
	0845	1.19	0843	1.23	5.7	4.47
	0900	1.25	0858	1.29	5.7	4.41
	0915	1.25	0913	1.35	5.9	4.55
	0930	1.38	0929	1.42	5.9	4.48
	0945	1.45	0944	1.49	6.0	4.51
	1000	1.53	0959	1.58	6.2	4.62
	1015	1.62	1014	1.67	6.3	4.63
	1030	1.66	1029	1.71	6.4	4.69
	1045	1.70	1045	1.75	6.4	4.65
	1100	1.75	1100	1.80	6.5	4.70
	1115	1.79	1115	1.84	6.7	4.86
	1130	1.83	1130	1.88	6.6	4.72
	1145	1.87	1145	1.93	6.8	4.87
	1200	1.90	1200	1.96		
	1215	1.95	1215	2.01	Average =	4.63
	1230	1.94	1230	2.00		
	1245	1.93	1245	1.99		
	1300	1.92	1300	1.98		
	1315	1.91	1315	1.96		
	1330	1.89	1330	1.94		
	1345	1.88	1344	1.93		
	1400	1.88	1359	1.93		

DEPARTMENT OF COMMERCE
U. S. COAST AND GEODETIC SURVEY

REG. NO.

TOPOGRAPHIC TITLE SHEET

The Topographic Sheet should be accompanied by this form, filled in as completely as possible, when the sheet is forwarded to the Office.

Field No. EX-A-58
Special Survey 2-58
REGISTER NO.

State Alaska

General Locality Aleutian Islands

Locality Alcan Harbor, Shemya Island

Scale 1:2,500 Date of survey 11 and 12 May, 1958

Vessel USC&GSS EXPLORER

Chief of party G. C. Mast

Surveyed by E. W. Richards

Inked by E. W. Richards

Heights in feet above --- to ground to tops of trees

Contour, Approximate contour, Form line interval --- feet

Instructions dated 22 April, 1958

Telegram 29 April 1958.

Remarks: Graphic control sheet.

Applied to FE-2, 1958 - marked for destruction.

DESCRIPTIVE REPORT TO ACCOMPANY TOPOGRAPHIC
SURVEY EX-A-58 (SPECIAL SURVEY 2-58)

ALCAN HARBOR, SHEMYA ISLAND
ALEUTIAN ISLANDS, ALASKA

1958

Scale: 1:2500
USC&GSS EXPLORER
CDR G. C. Mast, Comdg

Field Work Officer - L. F. Woodcock
Surveyed by E. W. Richards

A. PROJECT

The survey was executed in accordance with the Director's letter 22/mek, S-2-EX of 22 April 1958, subject SPECIAL SURVEY 2-58, ALCAN HARBOR, SHEMYA, ALASKA, and the Director's telegram of 29 April 1958. ✓

B. CHARACTER OF CONTROL

All control established on this survey was located by graphic cuts from stations of known geodetic positions, as follows: ✓

Set-up number

- | | |
|--------------------|---|
| 1. COVE (USE) 1944 | Triangulation station |
| 2. A-8 | Topographic station |
| 3. A-7 (USE) 1944 | Triangulation station |
| 4. H-5 (USE) 1944 | Triangulation station |
| 5. A-5 | Topographic station |
| 6. A-3 | Topographic station |
| 7. ALCAN 1947 | Triangulation station |
| 8. TOM | (located by graphic cuts during this survey.) |

C. DISCREPANCIES AND DEVIATION FROM STANDARD PRACTICE

1. The set-up at A-7 (USE) 1944 indicated a disagreement with cuts taken from other stations. Therefore, observations were discontinued at this station and the remaining stations occupied. In order to resolve this difference in the field, a signal was placed on the marked station (stamped "A-7") and cuts were taken on it from other known stations. The difference of 49 meters from the plotted position of the listed geodetic position is clearly evident on the planetable sheet. Later, when time permitted, a search was made in the area of the plotted position of this station. A triangular concrete post was found, which had a 40-mm. shell case set in the

center of the top. There was no stamping on the case. Evidence of an old triangulation signal was found here also. At the stamped station "A-7" which was located by graphic cuts during this survey a protective barricade was still standing.

2. Whenever possible, ALCAN 1947 was used as an initial. However, it was not visible at station A-5; so HECP (indefinite object) was used. This turned out to be a poor initial. All cuts fell about 15' in a counter-clockwise direction from the graphic positions previously plotted and, in particular, on A-8. The difference of 15' noted on A-8 was applied to all cuts from A-5 accordingly, holding A-8 as a fixed initial.

3. All set-ups were made over the marked station except at signal (ww) TOM, which was located graphically as a part of this survey. This set-up was four meters away from TOM on a line with A-8.


D. CHANGES OF SHORELINE

Sea action is rapidly destroying the breakwater adjacent to the ship dock at Alcan Harbor. The revised shoreline along the breakwater was rodded in from station TOM.

E. LIST OF PLANETABLE POSITIONS

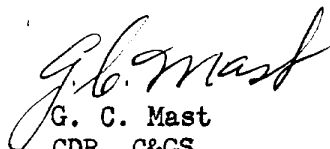
All new stations located were of a temporary nature.

Respectfully submitted,



E. W. Richards
LCDR, C&GS

Approved and forwarded:



G. C. Mast
CDR, C&GS
Commanding Ship EXPLORER

L.S.S.

TIDE NOTE FOR HYDROGRAPHIC SHEET

Chart Division: R. H. Carstens:

7 August 1958

Plane of reference approved in

4 volumes of sounding records for F.E. No. 2 1958

~~HYDROGRAPHIC SHEET~~

Locality Alcan Harbor, Aleutian Islands

Chief of Party: G. C. Mast in 1958

Plane of reference is mean lower low water, reading

3.5 ft. on tide staff atx (1943) at Massacre Bay

6.7 ft. below B.M. 1 (1943)

Height of mean high water above plane of reference at the working grounds is 3.4 feet.

Condition of records satisfactory except as noted below:


Signature

Acting Chief, Tides Branch

GEOGRAPHIC NAMES

Survey No. **F.E.No.2**
(1958)

Name on Survey	A <i>On Chart No.</i>	B <i>On previous survey No.</i>	C <i>On U. S. quadrangle Maps</i>	D <i>From local information</i>	E <i>On local Maps</i>	F <i>P. O. Guide or Map</i>	G <i>Rand McNally Atlas</i>	H <i>U. S. Light List</i>	K	
										1
										2
										3
										4
										5
										6
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										26
										27

Hydrographic Surveys (Chart Division)

HYDROGRAPHIC SURVEY NO. ~~F.E.No.~~ 2 (1958)

Records accompanying survey:

Boat sheets 2....; sounding vols. 4....; wire drag vols.; bomb vols.; graphic recorder rolls ~~3~~-Envelopes special reports, etc. ~~2-Descriptive reports and 1-Original copy of Boat sheet~~.....

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

Number of positions on sheet	.....	562
Number of positions checked	.....	26
Number of positions revised	.....	0
Number of soundings revised (refers to depth only)	.....	12
Number of soundings erroneously spaced	.....	0
Number of signals erroneously plotted or transferred	.....	0
Topographic details	Time	..... 0
Junctions	Time	..... 0
Verification of soundings from graphic record	Time	..... 3
Verification by <i>J. Jeske</i>	Total time	..... 38 Date 7-28-61
Reviewed by <i>J. Jeske</i>	Time	..... 16 Date 7-28-61

FIELD EXAMINATION FE-2, 1958

Alaska, Aleutian Islands, Alcan Harbor, Shemya Island

1. The field examination was made in compliance with the Director's letter 22/MEK, S-2-EX of 22 April 1958, Special Survey 2-58, Alcan Harbor and the Director's telegram dated 29 April 1958.
2. The purpose of the examination was to determine the adequacy of the charted information. Major bottom changes prompted the extensive development.
3. The results of the field examination are as follows:

- a. A comparison of the field examination with surveys H-6873 (1945), H-7634 (1947) and H-7994 (1952) which supersede portions of H-6873, show the bottom to be in a constant state of flux. Differences in depths of as much as 10 ft. between the prior surveys and the field examination are noted. The shoreline in the vicinity of the breakwater in Lat. $52^{\circ}43.82'$, $43'49''$ Long. $174^{\circ}04.0'$ has changed considerably. These changes in shoreline were plotted on graphic control survey EX-A-58, and transferred to the field examination smooth sheet in red. Two soundings have been transferred from H-6873 to the field examination.

The $1\frac{1}{4}$ fm. (7 ft.) sounding (not shown on N to M 37, 1959) in Lat. $52^{\circ}43.87'$, Long. $174^{\circ}04.11'$, on H-6873 (1945) is erroneous and should actually be $3\frac{1}{2}$ fms. (21 ft.). The kelp trace instead of the true bottom trace on the fathogram was erroneously recorded in the sounding volumes. The sounding has been revised on H-6873 and should be added to N to M 37 (1959).

With the addition of these soundings the field examination is considered to be basic and in the common area is adequate to supersede the prior surveys mentioned above.

- b. The present field examination has been charted on N to M 37 - 1959 prior to verification and review. Attention is directed to the $3\frac{1}{2}$ fms. previously mentioned and the rock awash charted from photogrammetric survey T-9153 (1944-48) in Lat. $54^{\circ}44.12'$ ($47'67''$) Long. $174^{\circ}04.03'$ ($018''$) where present depths of 12-13 ft. occur. A comparison of the field examination with survey H-6873 (1945) shows that considerable scouring of the bottom has occurred in this area. The rock awash is believed to have been washed away and to no longer exist. The feature, therefore, should be deleted from the chart.

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- c. No contemporary surveys join the field examination. Charted depths at the limits of the field examination are in adequate agreement with the present survey depths.
4. The results of the field examination are shown on the smooth sheet which is filed in the tube for H-8415.
5. The attached report covers all matters pertaining to this examination. No further discussion is considered necessary.

Reviewed by: I. M. Zeskind
7-27-61

Inspected by: R. H. Carstens

