7053

Diag'd. on Diag. Cht. No. 8863-2

Form 504

U. S. COAST AND GEODETIC SURVEY

DEPARTMENT OF COMMERCE

DESCRIPTIVE REPORT

Type of Survey HYDROGRAPHIC

Field No. SU 2345 Office No. H-7053

LOCALITY

State ALASKA

General locality ALEUTIAN ISLANDS

Locality DELAROF ISLANDS

ULAK & AMATIGNAK ISLANDS

194 5

CHIEF OF PARTY

C. D. Meaney
SURVEYOR

LIBRARY & ARCHIVES

DATE OCT 11 1946

B-1870-1 (1)

7053

Form 537
(Ed. Nov. 1941)

REG. NO.

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.

REGISTER No. H-7053

Field No. SU 2345

State ALASKA

General locality ALEUTIAN ISLANDS

Locality DELAROF ISLANDS

Scale 1:20,000 Date of survey July - Sept. 1945

Instructions dated 3 February 1938

Vessel SURVEYOR

Chief of party C. D. Meaney

Surveyed by C.D. Meaney, R.C. Rowse, H. J. Healy & W.R. Porter

Soundings taken by fathometer, graphic recorder, ~~hand lead or wire~~

Protracted by C.A.J. Pauw

Soundings penciled by C.A.J. Pauw

Soundings in fathoms ~~feet~~ at ~~MLW~~ MLLW

REMARKS: Processed in the Seattle Processing Office

U. S. GOVERNMENT PRINTING OFFICE 428075

7053

USC&GS M.V. E. LESTER JONES

6 September 1944

To: C.O., USC&GSS DERICKSON

Subject: Boat sheet, 1:20,000, Ulak - Amatignak I. area

*Attach these notes to subj. boat sheet.

Sheet has not been numbered H-7053. No hydrography yet performed. (1:80,000 sheet of area shows some reconnaissance soundings.)

Triangulation stations have been plotted using preliminary positions. Following stations have no check: MESA 1944, ROG 1944, BLUFF 1944. MESA should be occupied for closure angle, and its ref. marks cut in. ROG should be occupied for directions: AMATIGNAK, TAN, BLUFF, and described. Descriptions of remaining stations are complete. At ROG some cuts should be obtained on topo stations, etc., (ROG does not see ULAK.)

Following stations are marked and have been described and mostly pricked on air photos: Sow, Lit, Nag, Pot, Far, Gab, Ace. Complete descriptions have been prepared except for dm's and dp's which presumably should be entered by processing office after smooth plotting.

A moderate number of additional theodolite or sextant cuts will be required for complete fixing of some of the hydrographic objects. Sheet shows all cuts available to date. All cuts shown are by theodolite except a few marked sextant cuts.

E. B. Roberts

* See notes by processing office

SEXTANT ANGLES OBSERVED FOR LOCATION OF CONTROL.
ULAK - AMATIGNAK I. BOAT SHEET 1:20,000.
Abstracted here for entry into hydrographic record of sheet.

Aug. 18, 1944, EBR sext. 847 OK. At anchor near Ulak I.
(Note angles not simultaneous, but taken in rapid succession.)

Time; 1050	Objects	1st	2nd	3rd	Mean	Adjusted
	TAN } - - - -	90-12	90-23	90-19	18 - 1	90-17
	BUT } - - - - -	42-05	42-22	41-56	08 - 1	42-07
	KIK } - - - - -	47-07	47-17	47-45	23 - 1	47-22
	BEE } - - - - -	19-02	18-57	19-03	01	19-02
	GAB } - - - - -	31-42	31-33	31046	40	31-40
	CLIF } - - - - -	34-48	34-46	34-55	50 - 1	34-49
	BUB } - - - - -	31-56	31-57	31-42	52	31-52
	ACE } - - - - -	62-57	63-01	62-42	53 - 1	62-52
	TAN }					
	Sum	359-49	360-16	360-08	05	360-00

Time; 1820, Aug. 24, 1944, Sextant angles at Sta. LIT; E. side Amatignak I.,
Observed RMS. Recorder, J. B. Jones. Sext. 752, IC-01'

	Objects	1st	2nd	3rd	Mean	Corrected
Rk. awash ⊙Vic of S. end of Ulak Located by Topo 1945	Breaker } - - -	10-07-45	07-40	07-50	07-45	10-07
	POT } - - -	57-03-30	03-50	03-30	03-37	57-03
	NAG }					
	POT } - - -	22-16-40	15-10	16-40	16-10	22-15
	BLACK }					
⊙Moe	NAG }	46-37-20	36-40	37-00	37-00	46-36
	S. gable house }					
Rk awash - ⊙Vic	Breaker - - -	113-45-50	45-10	46-10	45-43	113-45
	S. gable house					

Copychecked from orignal record:
EBR

DESCRIPTIVE REPORT

TO ACCOMPANY

HYDROGRAPHIC SURVEY H-7053 (SU-2345)

ULAK AND AMATIGNAK OF THE DELAROF ISLANDS

ALEUTIAN ISLANDS

1945 C.S. 218

Scale: 1/20000

Chief of Party: C.D. Meaney, Commanding Ship SURVEYOR, 1945

Field work by: C.D. Meaney, R.C. Rowse, H.J. Healy, and W.R. Porter.

A. PROJECT:

This hydrographic survey was executed under Instructions for Project C.S. 218 dated 3 February 1938; Supplemental Instructions dated 16 April 1943 and 1 February 1944; Instructions issued by Capt. F.B.T. Siems dated 5 May and 28 May 1945.

B. SURVEY LIMITS AND DATES:

The survey covers the waters adjacent to Ulak Island and waters northeast, east and southeast of Amatignak Island. The pass between these two Islands was completely covered. Junctions were made with the following surveys accomplished during 1945: H-7050 and the reconnaissance survey H-7049. This work was executed between July 24 and September 14, 1945.

C. VESSELS AND EQUIPMENT:

The ship SURVEYOR and launches Nos. 2 and 4 accomplished the hydrography covered by this survey. The launches operated from the ship. The ship used the Dorsey III fathometer with recorder verification for all depths of 100 fathoms or less. The R.C.A. Modle NMC fathometer was used for depths greater than 100 fathoms. NMC also used in depths under 100fm.

D. TIDE AND CURRENT STATIONS:

All tidal data was obtained from the portable automatic tide gage maintained at Ulak. No current stations were occupied.

E. SMOOTH SHEET:

The smooth sheet will be constructed and plotted by the Seattle Processing Office.

F. *CONTROL STATIONS:

Triangulation by L.C. Wilder in 1944 and C.D. Meaney in 1945, and signals located on topographic sheets Nos. 6991 and 6993 accomplished by SURVEYOR personnel during 1945 furnish the control. Much of the launch hydrography was accomplished previously to the topographic location of the signals. The launch hydrography on the west coast of Ulak Island south of Fucus (Tanadak) Island, and along the southeast coast of Ulak including PATTON cove was accomplished in advance of control.

G. *SHORELINE AND TOPOGRAPHY:

To be taken from air photography. Heavy kelp in the shoaler waters close to the islands and constant swell breaking on the offlying rocks and reefs and on the rocky shores endangered launches and personnel and prevented the delineating of the one fathom and low water curves. Much of the shore line is abrupt with deep water close to the shore. Foul water is generally inside the ten fathom curve.

H. *SOUNDINGS:

Standard methods were used to obtain all depths. Soundings from position 46 a thru 124 a with Launch No. 4 have been rejected as the launch depth recorder was not operating at the correct speed during this period.

I. CONTROL OF HYDROGRAPHY:

All sounding lines were controlled by sextant fixes at proper intervals.

J. ADEQUACY OF SURVEY:

This survey is considered complete over the area covered. The south, west and north coasts of Amatignak were not surveyed.

K. CROSSLINES:

Crossings are satisfactory. However, crossings should be much improved when the smooth plotting is accomplished using the final positions of all signals.

L. & M. COMPARISON WITH PRIOR SURVEYS AND CHART:

There are no prior surveys of this area.

N. DANGERS AND SHOALS:

There are no dangers or shoals to endanger surface navigation outside the ten fathom curve. Vessels are advised to stay beyond the twenty fathom curve in the vicinity of these islands and attention is called to the numerous rocks, reefs and kelp lying off these islands within the ten fathom curve.

*See notes by processing office

O. COAST PILOT INFORMATION:

For additional information see Coast Pilot Report for 1945 by Lieut. Comdr. C.D. Meaney.

P. AIDS TO NAVIGATION:

There are no aids to navigation within this area.

Q. LANDMARKS FOR CHARTS:

None.

S. SILTED AREAS:

None.

T. BY PRODUCT INFORMATION:

Hasgox Point serves as feeding grounds for a large number of sea lions. Sea lions inhabit this point in much greater numbers than in any other section of the Delarof group visited during 1945.

Z. TABULATION OF APPLICABLE DATA:

Topographic Surveys forwarded to Seattle Processing Office.
Velocity corrections forwarded to Seattle Processing Office.
Triangulation Computation forwarded to Washington Office
Coast Pilot Report forwarded to Washington Office.

Respectfully Submitted,

Wilbur R Porter

WILBUR R. PORTER
Lieut. Comdr., C. & G. Survey

Approved,

C.D. Meaney

C.D. MEANEY
Lieut. Comdr, C. & G. Survey
Comdg. Ship SURVEYOR

VELOCITY CORRECTIONS

Corrections to and including 20 fathoms for all launch work were compiled from bar checks. For greater launch depths and all ship soundings temperature salinity and pressure curves were used to determine correctinns

A frequency meter is attached to the RCA Model NMC fathometer. A reading of 60.0 indicates that the speed of the driving arm is correct. A higher reading indicates that the speed is too great and a negative correction should be applied to each sounding. Frequency meter readings between 59.7 and 60.3 indicate an error of no more than 1/2 of 1% and no corrections have been made when the frequency meter read with that range.

All velocity corrections have been entered and checked.

7053

TIDE NOTE

All tidal data was referred to the Ulak gage. When this gage was not in operation the necessary information was obtained by applying a minus forty minutes to the Ogliuga gage. The difference in range of these two gages was disregarded as negligible (Reference Director's letter dated 15 October 1945).

Station	Lat.	Long.	MLLW of Staff	Drum Range
Ogliuga	51° 36.2'N	178° 37.0'W	3.8	3.5
Ulak	51° 21.8'N	178° 58.5'W	3.7 Staff of Aug. 4 2.6 " " " 18	3.7

All tide reducers have been entered and checked.

MHHW 3.8
Mean sea level 2.2
MLLW 0.0

STATISTICS H-7053

Date	Vol.	Day	No. of Pos.	Stat. Miles
		SURVEYOR		
7-24-45	8	A	97	35.2
8-3-45	8	B	64	24.0
8-10-45	8	C	70	47.9
8-10-45	9	C	~~27~~ 117	25.9 -?
8-11-45	9	D	98	51.0
8-18-45	10	E	9	2.0
8-24-45	10	F	55	27.0
8-25-45	10	G	77	34.8
8-28-45	10 & 11	H	103	46.1
8-30-45	11	J	7	3.8
9-8-45	11	K	219	80.3
9-12-45	12	L	187	57.6
9-13-45	12	M	78	24.2
		Launch No. 2		
7-24-45	1	a	212	44.3
8-3-45	1	b	154	28.2
8-4-45	1	c	34	7.9
8-4.45	2	c	152	33.9
8-10-45	2	d	179	37.1
8-11-45	3	e	109	31.4
8-18-45	3	f	23	6.0
8-30-45	3	g	72	26.2
9-12-45	3	h	90	24.5
9-14-45	7	j	121	28.7
		Launch No. 4		
8-30-45	4	a	124	32.3
9-8-45	4	b	156	45.5
9-12-45	5	c	123	31.4
9-13-45	5	d	120	26.2
9-14-45	4 & 5	e	85	19.3
		TOTALS.....	2845	882.7

LIST OF SIGNALS H-7053

Name	Origin
Abe	T-6991
Ace	T-6993
Bee	T-6991
Bet	T-6991
Black	T-6991
BUFF	Triangulation, 1944
But	T-6991
Can	T-6991
Cat	T-6991
Cliff	T-6991
Cross	T-6991
Cone	T-6993
Dig	T-6991
DOC	Triangulation, 1944
Dog	T-6991
Dom	T-6993
Eel	T-6991
Eve	T-6991
Fall	T-6993
Far	T-6993
Fig	T-6991
Gab	T-6991
Gal	T-6991
Get	T-6991
High	T-6991
Him	T-6991
Hip	T-6991
Inn	T-6991
Ink	T-6991
Jan	T-6991
Jib	T-6991)
Jim	T-6993)
Jim	T-6991
Joe	T-6991
Junior	T-6991
Kik	T-6991
Lap	T-6991
Lit	T-6991)
	T-6993)
Lord	T-6991
Low	T-6991
Man	T-6991
Map	T-6993
MESA	Triangulation, 1944
Mik	T-6991
Mce	T-6993
Monk	T-6993
Mut	T-6991
Nat	T-6991
New	T-6993
KNOB	Triangulation, 1945
Nor	T-6991
Not	T-6991
Oar	T-6991
Obo	T-6991
Old	T-6991
Pet	T-6991
Pit	T-6991
Pod	T-6991
Pot	T-6993
Rak	T-6993
Rat	T-6991
Red	T-6993
Rob	T-6991
Rod	T-6991
ROG	Triangulation, 1944
Sam	T-6991
Sin	T-6991
Spin	T-6993
Stak	T-6993
Sow	T-6993
Tan	Triangulation, 1944
Tes	T-6991
Tom	T-6993
Tri	T-6991
Two	T-6993
ULAK	Triangulation, 1944
Vic	T-6993
Vim	T-6991
Wac	T-6991
War	T-6991
Wet	T-6991
Zip	T-6991

H-7053

SU 2345

Delarof Islands
Ulak and Amatignak I.

Seattle Processing Office Notes

In 1944 the party of the E. LESTER JONES, E. B. Roberts, Comdg., prepared a boat sheet for this survey. They were diverted from hydrography by the needs of the triangulation that season and did no sounding on this sheet. They made some cuts to signals. As signals were located by planetable the following year by the SURVEYOR's party, the only value of the cuts is to check the positions of Signals VIC and MOE. The first two pages of this report are by the 1944 party.

Smooth Sheet-

Projection is hand made on K & E Paragon Paper N-118 (not German). The bits of topography and the signals were transferred from T-6991 and T-6993 of 1945 and inked. The shoreline and rocks from photo-topo compilation T-8006 covering Ulak Island was transferred to the smooth sheet. ~~Only the HWM from T-8006 was inked, other features from this source being left in pencil.~~ The rocks, etc., from hydrographic source can be distinguished from rocks from photo-topo by leaders and notes run to all items from the hydrographic survey. Planetable features are inked.

The shoreline of Amatignak is from an old photo compilation, probably from Navy photographs. It is the only thing available here. From the general outline of the north part of the island as shown by the graphic control and the cuts to INTER at the south end of the island, its size was approximated and a pantograph enlargement made. From this enlargement the islet (Signal) DOM and Signal MAP were recognized. Then on the base MAP-DOM another pantographed outline was made which seemed to fit fairly well the northeast part of the island, where topographic signals are located. This part is shown in solid pencil, the rest of the island in broken pencil lines. It is presumed that field inspection of photographs will be included in the next season's work here, and that a compilation based on a completed ground survey will follow.

Boat Sheets-

The boat sheets were returned to the field party for continuation of the survey, but it now seems that no additional work will be done during the 1946 season.

Soundings - Launch 4 - 46a to 124a-

See Paragraph H of report by the field party. On investigation of the fathogram, it was found that one rate of fathometer speed prevailed from Pos. 46a to 81a and another rate from 81a to 124a. A graph was made and the corrected soundings entered in the sounding record, green positions 46 to 81, and in yellow positions 81 to 124. See Volume 4. See graph on Page 72, Vol. 4. The resulting soundings gave good crossings with lines of Launch 2 and the SURVEYOR. The area concerned is west of Ulak Island, chiefly south of Tanadak.

Questioned Sounding-

(9)
6.3 fms., Pos. 55c, Launch 2, Vol. 2 Page 6
Latitude 51° 21'6" Longitude 178° 59'5".

This was first read 9.5 fms., then rescanned 6.5 by the field party. We hold that the second reading is on kelp and that the reduced sounding should be 9.3 fms. In view of its position in Pratt Cove, we would suggest additional soundings on this spot and on the 9.5fm. sounding 200 meters to northeast when convenient. survey is adequate.

H-7053

SU 2345

Delarof Islands

Ulak and Amatignak Is.

Geographic Names Penciled on the Smooth Sheet

Ulak Island

Ulak Pass

Tanadak (or Fucus) I.

Pratt Cove

Hasgox Pt.

Batton Cove

Dinkum Pt.

Amatignak I.

Ulva Cove

Pacific Ocean

Respectfully submitted,

Edgar E. Smith
Cartographic Engineer
Seattle Processing Office

Hydrographic Surveys (Chart Division)

HYDROGRAPHIC SURVEY NO. 7053

Records accompanying survey:

Boat sheets .....; sounding vols. 12; wire drag vols. .....;

bomb vols. .....; graphic recorder rolls 3;

special reports, etc. .....

.....

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

Number of positions on sheet		2845
Number of positions checked		197
Number of positions revised		18
Number of soundings revised (refers to depth only)		1145
Number of soundings erroneously spaced		200 est.
Number of signals erroneously plotted or transferred		—
Topographic details	Time	15
Junctions	Time	12
Verification of soundings from graphic record	Time	40

Verification by Roy E. Elkins Total time 287 Date 2-14-47

Reviewed by J. F. Jordan Time 20 Date 3-5-47

M-2232-1

GEOGRAPHIC NAMES

Survey No. H-7053

Name on Survey	A On Chart No.	B On previous survey No.	C On U. S. quadrangle Maps	D From local information	E On local Maps	F P. O. Guide or Map	G Rand McNally Atlas	H U. S. Light List	K	
Delarof Islands										1
Ulak Island		(location of one tide staff)								2
A Matignak Island									USGB	3
Tanadak Island										4
Dinkum Pt.										5
Hasgox Pt.										6
Knob Pt										7
Ulak Pass										8
Ratton Cove										9
Pratt Cove										10
Ulva Cove										11
Pacific Ocean										12
Alaska		for title								13
Aleutian Islands										14
										15
										16
				[redacted]						17
				L Heck 3/6/47						18
										19
										20
Oglinga I		(location of one tide staff)							USGB	21
										22
										23
										24
										25
										26
										27

M 234

DIVISION OF CHARTS

REVIEW SECTION - NAUTICAL CHART BRANCH

REVIEW OF HYDROGRAPHIC SURVEY REGISTRY NO. 7053

FIELD NO. SU-2345

Alaska-Aleutian Islands, Delarof Islands, Ulak and Amatignak Ids.
Surveyed in July to September 1945 Scale 1:20,000
Project No. CS-218

Soundings:

Fathometer:

Dorsey III
NMC Recorder
808A Recorder

Control:

Sextant angles on shore signals

Chief of Party - C. D. Meaney
Surveyed by - C. D. Meaney, R. C. Rowse, H. J. Healy and W. R. Porter
Protracted by - C. A. J. Pauw
Soundings plotted by - C. A. J. Pauw
Verified and inked by - R. E. Elkins
Reviewed by - G. F. Jordan, March 5, 1947
Inspected by - H. W. Murray

1. Shoreline and Signals

The origin of control and topographic detail is adequately covered in the Descriptive Report.

2. Bottom Configuration and Depth Curves

The bottom is quite irregular adjacent to the shoreline where the depths are generally less than 20 fathoms. Offshore, the bottom is generally smooth except in the area formed by the protrusions of the depth curves southeast of Ulak Island.

The delineation of depth curves is satisfactory except in some areas close inshore where hydrography was prevented by rough seas or by dense kelp.

3. Sounding Line Crossings

The agreement of soundings at crosslines is adequate. Several disagreements existing before verification have been adjusted. These adjustments included a 1.5 fm. correction to B-and C-scale soundings of Launch No. 2, index corrections of 5 to 15-fms. to many 0-2000 scale NMC-soundings, and adjustments to some NMC-soundings where consistent differences of 0.5 to 1 fm. occurred between Dorsey and NMC soundings in areas of flat bottom.

4. Junctions with Adjoining Surveys

Adequate junctions are effected on the north, east and southeast with H-7050 (1945). No surveys on the southwest and west are as yet registered.

5. Comparison with Prior Surveys

Except for a few reconnaissance soundings on Bp. 39018 (1944) (now superseded) there are no prior surveys in the area by this Bureau.

6. Comparison with Chart 8863 (Print date of Oct. 5, 1946)

a. Hydrography

Charted hydrography originates with advance information of the present survey (Bp. 40309) and is now superseded by hydrography on the completed smooth sheet.

b. Aids to Navigation

No aids to navigation are charted in this area. There are no dangers which might require marking.

7. Condition of the Survey

a. The Descriptive Report and sounding records are complete and comprehensive.

b. The smooth plotting was adequate except that during verification it was necessary to correct the spacing of numerous soundings where positions at the beginning and end of sounding lines were taken at odd intervals. Similarly, many peaks and deeps had been scaled from the fathograms and recorded at even instead of at their proper uneven intervals.

c. The survey provides very good coverage of the area, particularly in Patton and Pratt Coves; however, as a matter of record, it is to be noted that the following shoal areas are not thoroughly developed:

Retained; see par. 7d. Review of H-7974 (1952)

(1) 3 fm. at lat. 51° 17.3', long. 179° 04.22'.
(2) 66 fm. at lat. 51° 17.98', long. 178° 53.04'.
(3) Shoal area inside the 30-fm. curve southeast of Ulak Island. Done on H-7053 (1952) AdWK
(4) No positions were given for a group of rocks awash mentioned in the sounding records at lat. 51° 21.45', long. 179° 01.7'.

8. Compliance with Project Instructions

The survey adequately complies with the project instructions.

9. Additional Field Work

This is a basic survey and no additional field work is recommended at this time. However, in addition to the development of the shoals mentioned in preceding paragraph 7c, it is desirable that closer spaced hydrography be executed in the northwest portion of the survey. A closer spacing of lines here would better delineate the irregular bottom in 200-to 400-fm. depths in the northerly approach to Ulak Pass. concur KJC

Examined and approved:

I. E. Rittenburg
Chief, Nautical Chart Branch

C. M. Durgin
Chief, Division of Charts

K. G. Crosby
Chief, Section of Hydrography

C. K. Green
Chief, Division of Coastal Surveys

H.W.M.

Form 712
DEPARTMENT OF COMMERCE
COAST AND GEODETIC SURVEY
Rev. June 1937

TIDE NOTE FOR HYDROGRAPHIC SHEET

~~Division of Hydrography and Topography~~

Division of Charts: H. W. MURRAY

Plane of reference approved in
12 volumes of sounding records for

HYDROGRAPHIC SHEET 7053

Locality - Ulak & Amatignak Islands, Delarof Islands, Aleutian Islands, Alaska.

Chief of Party: C. D. Meaney in 1945.
Plane of reference is mean lower low water, reading
3.7ft. on tide staff at Ulak Island.
7.4ft. below B. M. 1

3.8 ft. on tide staff at Ogliuga Island.
4.7 ft. below B. M. 1

Height of mean high water above plane of reference is 3.6 feet.

Condition of records satisfactory except as noted below:

E. C. McKay
Chief, ~~Division~~ Section of Tides ~~and Currents.~~

U. S. GOVERNMENT PRINTING OFFICE 154327

NAUTICAL CHARTS BRANCH

SURVEY NO. H-7053

Record of Application to Charts

DATE	CHART	CARTOGRAPHER	REMARKS
4/16/48	8863	L.A. McGann	~~Before~~ (After) Verification and Review Examined – not applied at this time.
			~~Before~~ After Verification and Review
5/26/50	8863	GHE	
9/18/50	9102	GHE	~~Before~~ After Verification and Review
11/26/58	Record 8863	J.P. Walker	~~Before~~ After Verification and Review
			Before After Verification and Review
			Before After Verification and Review
			Before After Verification and Review
			Before After Verification and Review
			Before After Verification and Review
			Before After Verification and Review

M-2168-1

A basic hydrographic or topographic survey supersedes all information of like nature on the uncorrected chart. Give reasons for deviations, if any, from recommendations made under "Comparison with Charts" in the Review.

Tide
MHW 3.6 above MLLW

7053 Ad. WK.

7053 Ad. WK.

Diag. Cht. No. 8863-2

Form 504

U. S. COAST AND GEODETIC SURVEY

DEPARTMENT OF COMMERCE

DESCRIPTIVE REPORT

Type of Survey HYDROGRAPHIC

Field No. Project CS-218 *Office No.* H-7053 Ad. Wk.

LOCALITY

State ALASKA-ALEUTIAN ISLANDS

General locality DELAROF ISLANDS

Locality ULAK ISLAND--INVESTIGATION OFF DINKUM POINT

19~~44~~ 52

CHIEF OF PARTY

G. L. Anderson

LIBRARY & ARCHIVES

DATE

B-1870-1 (1)

Hydrographic Surveys (Chart Division)

HYDROGRAPHIC SURVEY NO. H-7053 Ad. Wk. 1952

Records accompanying survey:

Boat sheets .....; sounding vols. ...1...; wire drag vols. .....;

bomb vols. .....; graphic recorder rolls 1 Env.;

special reports, etc. ..1 Tracing.....

.....

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

Number of positions on sheet		142
Number of positions checked		All plotted by verifier
Number of positions revised		—
Number of soundings revised (refers to depth only)		5
Number of soundings erroneously spaced		—
Number of signals erroneously plotted or transferred		—
Topographic details	Time	—
Junctions	Time	—
Verification of soundings from graphic record	Time	1

Verification by D.R.Engle.....Total time ..59.. Date 5-14-53

Reviewed by J. F. Jordan..... Time ..4.. Date 5-21-53

M-2232-1

REPORT ON
HYDROGRAPHIC INVESTIGATION OFF DINKUM POINT
Item 18d, Project CS-218, Chart 8863
Prel. Rev. Chart 8863,

Instructions issued Ship EXPLORER called for additional investigation off the southeast corner of Ulak Island, Dinkum Point, inside the thirty fathom curve where Survey H-7053 (1945) showed irregular bottom which was not thoroughly developed.

A system of East-West lines, crossing old lines at approximately 60° was run using Launch No. 1 for the inshore part and Ship EXPLORER for the offshore part.

Topographic station SAM and triangulation station BLUFF, 1944 were recovered and used. No station to the west could be positively recovered. A point was selected on the island between signals OLD and NAT, and was whitewashed to serve as a left object. It was located by sextant cuts which are recorded in the sounding volume and checked by scaling from bromide copy of topographic manuscript. (Hydro. Signal "Red").

Three point sextant fixes were used for all control.

Tide corrections were applied using Lash Bay gage corrected to Ulak gage.

Fathometer corrections were applied which are discussed in the fathometer report for this season.

Standard methods were used throughout.

No smooth sheet was made. A tracing was made from original boat sheet SU-2345, and positions were plotted and reduced soundings inked on this tracing. (replotting on smooth sheet in brown ink)

A 19 fathom spot was found, Lat. 51° 19'.80, Long. 178° 52'.75 which did not appear on Survey H-7053 (1945). All other critical soundings agreed very closely in both depth and position with previous survey.

This survey is plotted on Unalaska Datum.

Respectfully submitted

Edgar F. Hicks Jr.
Edgar F. Hicks, Jr.
Commander, USC&GS

Approved and Forwarded:

George L. Anderson
George L. Anderson
Captain, USC&GS
Comdg. Ship EXPLORER

DIVISION OF CHARTS

REVIEW SECTION - NAUTICAL CHART BRANCH

REVIEW OF HYDROGRAPHIC SURVEY

REGISTRY NO. H-7053 Ad. Wk. FIELD NO. ------

Alaska-Aleutian Islands, Delarof Islands, Ulak Island

Project No. CS-218

Surveyed - August 1952 Scale 1:20,000

Soundings:

808 and NMC-2 Fathometers

Control:

Visual fixes on shore signals

Chief of Party - G. L. Anderson
Surveyed by - E. F. Hicks, Jr.
Protracted by - D. E. Engle
Soundings plotted by - D. E. Engle
Verified by - G. F. Jordan
Reviewed by - G. F. Jordan, 22 May 1953
Inspected by - R. H. Carstens

This additional work consisted of development of the irregular ridge extending southeast from Dinkum Point, Ulak Island, as recommended in the review of the original work and on Preliminary Review Chart 8863.

The numerous development lines and the control for the survey are discussed in the Descriptive Report.

The survey revealed two 19-fm. shoals, 250 meters apart. The outermost shoal is at lat. 51° 19.8', long. 178° 52.78'. Although it is believed shoaler depths do not exist in this outermost area, it should be noted that there is no record of a detached investigation on this 19-fm. shoal in 30-fm. depths. There is a gap of 120 meters between this sounding and the sounding line to the north which shows a shoal depth of 22 fms.

The 19-fm. depths supersede a 20-fm. sounding applied to Chart 8863 from the original survey.

22 May 1953 G. F. Jordan

Inspected by: R. H. Carstens

RHC

Form 712
DEPARTMENT OF COMMERCE
COAST AND GEODETIC SURVEY
Rev. Apr. 1950

TIDE NOTE FOR HYDROGRAPHIC SHEET

~~Division of Coastal Surveys~~ 25 November 1952

Division of Charts: R. H. Carstens

Plane of reference approved in 1
volumes of sounding records for

HYDROGRAPHIC SHEET 7053 Ad. Wk.

Locality Ulak Island, Aleutian Islands, Alaska

Chief of Party: G. L. Anderson in 1952
Plane of reference is mean lower low water, reading
1.8 ft. on tide staff at Lash Bay, Tanaga Island
7.7 ft. below B. M. 2 (1944)

Height of mean high water above plane of reference at Ulak Island is 3.8 feet.

Condition of records satisfactory except as noted below:

E. C. McKay
Section of Tides

Chief, Division of Tides and Currents.

U. S. GOVERNMENT PRINTING OFFICE 877933

NAUTICAL CHARTS BRANCH

SURVEY NO. H-7053 Ad. Wk. 1952

Record of Application to Charts

DATE	CHART	CARTOGRAPHER	REMARKS
5/31/56	8863 1044 WE.	[signature]	~~Before~~ After Verification and Review Reconstruction
			Before After Verification and Review
			Before After Verification and Review
			Before After Verification and Review
			Before After Verification and Review
			Before After Verification and Review
			Before After Verification and Review
			Before After Verification and Review
			Before After Verification and Review
			Before After Verification and Review
			Before After Verification and Review

M-2168-1

A basic hydrographic or topographic survey supersedes all information of like nature on the uncorrected chart. Give reasons for deviations, if any, from recommendations made under "Comparison with Charts" in the Review.