

7079

DiagId. on Diag. Ch. No. 8863-2

Form 504
Rev. June 1941

DEPARTMENT OF COMMERCE
U. S. COAST AND GEODETIC SURVEY

DESCRIPTIVE REPORT

~~Air Photographic~~
~~Plano Table~~
Hydrographic

7079
Survey No. 1245
(Field) FIELD

LOCALITY

State Alaska - Aleutian Is
Adak I.
General locality Aleutian Islands
Adak Island, Scabbard Bay to
Locality Kagalaska Strait
Approaches to Kuluk Bay

1945

CHIEF OF PARTY

R. F. A. Studds

U. S. GOVERNMENT PRINTING OFFICE 315551

MAR 14 1946

67079

875

DEPARTMENT OF COMMERCE
U. S. COAST AND GEODETIC SURVEY

HYDROGRAPHIC TITLE SHEET

REG. NO. H7079

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-7079

Field No. PA 1245

State ALASKA - Aleutian Is.

General locality ~~ALEUTIAN ISLANDS~~ - ADAK ISLAND

Locality Approaches to Kuluk Bay
Seaboard Bay to Kagalaska Strait

Scale 1:10,000 Date of survey 4 to 19 September 1945

Instructions dated 8 August 1945

Vessel PATTON

Chief of party R.F.A. Studds

Surveyed by R.F.A. Studds and S.B. Grenell

Soundings taken by fathometer, graphic recorder, ~~hand lead, etc.~~

Protracted by Betty B. Jones

Soundings penciled by Betty B. Jones

Soundings in fathoms ~~and tenths~~ at ~~MLLW~~ MLLW and

REMARKS:

Smooth Sheet and Plotting by the Seattle Processing Office.

DESCRIPTIVE REPORT

TO ACCOMPANY

HYDROGRAPHIC SHEET 1245

SHIP PATTON 1945

SCALE 1:10,000 R. F. A. STUDDS, COMMDG.

PROJECT: CS-218; Liaison Officer, Project 23 (Supplemental)
dated 8 August 1945.

SURVEY LIMITS AND DATES: The survey was executed between 4 September and 19 September 1945. The sheet extends from a junction with H-6915 and H-6917 in the vicinity of Scabbard Bay eastward to Black Point, and from the shoreline of Adak Island northward to Lat. 51° 52.7' to a junction with sheet 1115. Blind Cove and Kagalaska Strait are not included in the survey. See attached sheet index for location of limits and junctions.

VESSELS AND EQUIPMENT: The inshore hydrography was executed with a 33 foot Higgins landing craft equipped with an outboard mounted "fish" and 808 recorder No. 74. The offshore hydrography was executed by the Ship PATTON using the Dorsey III recorder No. 35.

TIDE AND CURRENT STATIONS: Reducers were taken directly from the record of the standard tide gage operating at Sweeper Cove. No time or range corrections were applied. There were no current stations occupied on the project.

CONTROL STATIONS: The triangulation control was partly executed in 1943, G. C. Mattison, Chief of Party and partly in 1945, R. F. A. Studds, Chief of Party. See attached list for names of stations, dates, etc.

SHORELINE AND TOPOGRAPHY: The shoreline in the vicinity of Scabbard Bay was from a planetable survey of 1943, Ship EXPLORER. From this area eastward the approximate shoreline and topographic signal location is on Sheet PA-D-45. The shoreline is sketched in approximately, but all signals are accurately located by stadia or checked intersection. It was impossible to locate the low water line by hydrography due to the ledge and boulder beach formation and the continuous ground swell during the sounding periods.

SOUNDINGS: All soundings were taken with standard echo equipment; the Dorsey III on the ship and the 808 type on the launch. One vertical cast with wire was taken by the ship to obtain salinity and temperature data.

* Not registered - PA-D-45 destroyed 4/51 - Report attached
all information on H-7079.
GFL

CONTROL OF HYDROGRAPHY: Both ship and launch hydrography were controlled by the standard sextant fix on signals located either by plane-table or triangulation.

ADEQUACY OF SURVEY: The survey is complete within the limits of sounding and all junctions with adjoining sheets are adequate and in agreement. Eastward from Triangulation Station RF2, 1945, the inshore launch hydrography has not been done. This includes Blind Cove and approaches and the north entrance to Kagalaska Strait. Between the second sounding after position 17a and the third sounding before position 23a the fathometer was recording incorrectly and all soundings have been rejected. The gap in this line leaves a rather wide spacing but the depth is not critical and it is believed that the area is sufficiently covered.

COMPARISON WITH PRIOR SURVEYS: ^{H-6889} The only prior survey of the area is the U. S. Navy survey of about 1935 which furnished the present charted depths. The soundings on the Navy survey are widely spaced and it is impossible to draw the depth curves accurately. It is recommended that a comparison between the two surveys be made after the smooth sheet is completed.

COMPARISON WITH CHART: The U. S. Navy soundings are shown on Chart 9141 (Formerly HO-5631). See notes in foregoing paragraph relative to comparison. The charted position of the offlying rocks at Thunder Point is not in agreement with topographic sheet PA-D-45. ^{T-7001} The large pinnacle, on which triangulation station RF2, 1945 is located, and the two pinnacles to the NW of this rock should be charted in their correct position. *Present charted position satisfactory.*

DANGERS AND SHOALS: There are no important shoals in the area covered by the soundings. However, there are two very large pinnacle rocks to the NW of Triangulation Station RF2, 1945, which constitute a danger. They are both very low, the one farthest to the NW breaks over in a swell, and the water is very deep close-to. Because of their low visibility they might easily be struck without warning at night or in thick weather.

COAST PILOT INFORMATION: A special report on this subject is being submitted.

AIDS TO NAVIGATION: A special report on this subject is being submitted. There are no aids to navigation on this sheet.

LANDMARKS FOR CHARTS: There are no landmarks to be charted in the area covered by this survey.


GEOGRAPHIC NAMES: No geographic names other than those already
charted are being submitted for this area.


TABULATION OF APPLICABLE DATA:

Reports: Coast Pilot Information, R.F.A. Studds, 1945.

Respectfully submitted,

Approved:


R. F. A. Studds, Lieut. Comdr.
Cmdg. SHIP PATTON


S. B. Grenell
Lieut. Comdr., C&GS

STATISTICS FOR HYDROGRAPHIC SHEET 1245

SHIP PATTON; PROJECT 218, SUPPLEMENTAL 23

Vol.	Day	Date	Soundings	Positions	Miles, Stat.	Vessel
I	a	19 Sept.	echo	106	18.3	Launch
II	A	4 Sept.	echo	148	46.6	PATTON
	B	6 Sept.	echo	19	6.2	PATTON
	C	8 Sept.	echo	90	27.6	PATTON
III	D	11 Sept.	echo	55	16.4	PATTON
	E	15 Sept.	echo	30	8.1	PATTON
	F	18 Sept.	echo	<u>66</u>	<u>14.0</u>	PATTON
Totals, Launch:				106	18.3	
Totals, Ship:				408	118.9	
Grand Total:				<u>514</u>	<u>137.2</u>	

Area Sq. Stat. Mi: 14.2

7079

TIDE NOTE - SHEET 1245

The tide reducers for this survey were taken from the record of the standard gage at Sweeper Cove, Adak Island. The value of MLLW on the staff was 3.1 feet. No correction for either time or range was made for any part of the survey.

VELOCITY CORRECTION ABSTRACT

An abstract of velocity corrections has been made from the data listed in the Report of Velocity Corrections and a copy of the abstract of reducers applicable to the survey is pasted inside the front cover of Sounding Vol. No. I.

APPROVAL SHEET

The records and the boat sheet for Survey 1245
are approved.

The records were examined frequently in the field, generally daily.

The Survey is considered complete and adequate. The descriptive report covers all pertinent detail.



R. F. A. Studds
Lt. Comdr., C&GS
Cmdg., USS PATTON

H-7079

PA 1245

Adak Island

Scabbard Bay to Kagalaska Strait

Geographic Names Penciled on the Smooth Sheet

Adak Island

Kuluk Bay

Kagalaska Island

Kagalaska Strait

Scabbard Bay

Blind Cove

Respectfully submitted,

Edgar E. Smith

Edgar E. Smith
Cartographic Engineer
Seattle Processing Office

Approved and Forwarded,

F.B.T. Siens

F.B.T. Siens
Officer in Charge,
Seattle Processing Office

GEOGRAPHIC NAMES

Survey No. **H7079**

Name on Survey	On Chart No.		On previous survey No.		On U. S. quadrangle Maps		From local information		On local Maps		P. O. Guide or Map		Rand McNally Atlas		U. S. Light List	
	A	B	C	D	E	F	G	H	K							
<u>Alaska</u>																1
<u>Aleutian Islands</u>																2
<u>Adak Island</u>														USGB		3
<u>Kuluk Bay</u>														"		4
<u>Kagalaska Island</u>														"		5
<u>Kagalaska Strait</u>														"		6
<u>Blind Cove</u>														"		7
<u>Thunder Point</u>														"		8
<u>Black Point</u>														"		9
																10
																11
																12
																13
<u>Sweeper Cove</u>															location of tide staff	USGB 14
																15
																16
																17
																18
																19
																20
																21
																22
																23
																24
																25
																26
																27

Names underlined in red appended by 60

Hydrographic Surveys (Chart Division)

HYDROGRAPHIC SURVEY NO. **H7079**

Records accompanying survey:

Boat sheets 1....; sounding vols. 3....; wire drag vols.; bomb vols.; graphic recorder rolls 1...; special reports, etc.

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

Table with 2 columns: Description and Value. Rows include: Number of positions on sheet (514), Number of positions checked (85), Number of positions revised (3), Number of soundings revised (refers to depth only) (58), Number of soundings erroneously spaced (170), Number of signals erroneously plotted or transferred (0), Topographic details (Time 1 hr.), Junctions (Time 5 hr.), Verification of soundings from graphic record (Time 13 hr.).

Verification by Charles P. Reed Total time 100 hrs. Date June 4, 1946

Reviewed by R.H. Carstens Time 19 hrs. Date June 11, 1946

DEPARTMENT OF COMMERCE
U. S. COAST AND GEODETIC SURVEY

REG. NO.

TOPOGRAPHIC TITLE SHEET

~~7001~~

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. ~~PA - D - 15~~

REGISTER NO.

State ALASKA

General locality Adak Island, Aleutian Islands

Locality Scabbard Bay to Blind Cove

Scale 1:10,000 Date of survey August, 1945

Vessel PATTON

Chief of party R. F. A. Studds

Surveyed by A. Gordon Anderson

Inked by A. Gordon Anderson

Heights in feet above _____ to ground to tops of trees

Contour, Approximate contour, Form line interval _____ feet

Instructions dated 8 August 1945, 19____

Remarks: _____

72004

TIDE NOTE FOR HYDROGRAPHIC SHEET

21 March 1946

~~Division of Hydrography and Topography:~~

Division of Charts: H. W. MURRAY

Plane of reference approved in
3 volumes of sounding records for

HYDROGRAPHIC SHEET 7079

Locality Scabbard Bay to Kagalaska Strait, Adak I., Aleutian Is., Alaska

Chief of Party: R. F. A. Studds in 1945
Plane of reference is mean lower low water, reading
3.0 ft. on tide staff at Sweeper Cove
7.0 ft. below B. M. 1

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

Condition of records satisfactory except as noted below:

H. A. Manner
Chief, Division of Tides and Currents.

DESCRIPTIVE REPORT TO ACCOMPANY

TOPOGRAPHIC SHEET ~~PA-D-45~~ Destroyed 7/1/51

SCABBARD BAY TO BLIND COVE, AAA

R. F. A. Studds, Chief of Party

August 1945

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INSTRUCTIONS: The survey was made in accordance with Instructions for Project 23, Supplemental, dated 8 August 1945 from the Liaison Officer. The purpose of the survey was to locate hydrographic signals for hydrography, with clarification of the shoreline where necessary. The scale of the survey is 1:10000.

GENERAL DESCRIPTION AND METHODS: The survey was extended from the previous limit of the 1943 survey at triangulation station SCAB-1943 by running a stadia distance traverse to triangulation station RF-2, 1945, joining sheet PA-C-45(2). Topographic stations ABE and OUT are 1943 stations which were recovered. The traverse closed 15 meters, ^{Probably 1.5 m.} which error was adjusted as prescribed in the Manual.

Two offshore rocks near RF-2, 1945 were located, otherwise the shoreline was not located, since it appears to be correctly interpreted and delineated on the U. S. Engineer Quadrangle (see letter from Liaison Officer, dated 22 August 1945).

No declinatoire observations were made.

No aerial photographs for this area were available. RF-2, 1945 and SCAB, 1943 could be identified on aerial photographs as they are on the high point of offlying rocks.

Station BEST is a marked topographic station.

Approved and Forwarded:

R. F. A. Studds
R. F. A. Studds, Lt. Comdr.
Cmdg., USS PATTON

Respectfully submitted,


A. Gordon Anderson
A. Gordon Anderson, Lt. (j.g.)
Topographer

This planetable survey has been compared with contemporary hydrographic surveys. No further revision by the Hydrographic Subjects Section is necessary at the present time. R.H. Carters 6/11/46

H-7079 (Add. Wk. 1955)

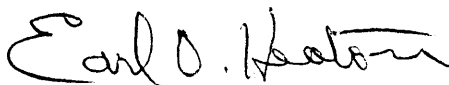
1. The additional work was accomplished in accordance with the Director's letter dated 21 August, 1946.
2. The purpose of the additional work was to develop the 20-fm. curve in the vicinity of lat. $51^{\circ}51.25'$, long. $176^{\circ}30.0'$ and to develop several shoals in the vicinity of lat. $51^{\circ}51.7'$, long. $176^{\circ}28.0'$. These areas were indicated by encircling them in blue on the boat sheet of the 1945 survey.
3. It was necessary to apply a correction of +0.025 statute miles to shoran readings from station AXLE between positions 1a - 19a (incl.) to bring the additional work into agreement with the hydrography accomplished in 1945. No shoran calibrations were obtained for the additional work done in this area. All other boat positions of the 1955 work were obtained by sextant angles on shore objects located on plane table survey T-7000 of 1945.
4. The following results were obtained:
 - a. The 20-fm. curve in lat. $51^{\circ}51.25'$, long. $176^{\circ}30.0'$, was adequately delineated.
 - b. The additional work confirmed the least depth of 14.5 fms. found in lat. $51^{\circ}51.6'$, long. $176^{\circ}28.13'$ during the 1945 survey.
 - c. The 17-fm. sounding in lat. $51^{\circ}51.46'$, long. $176^{\circ}27.53'$ (15 on boat sheet) was not investigated. Falling close to shoaler depths within the 20-fm. curve, the 17 fms. is not a danger to navigation.
 - d. Other shoal indications in the vicinity of lat. $51^{\circ}51.7'$, long. $176^{\circ}28.0'$ recommended for development in the review of H-7079 fall within survey H-8070 (1953).
5. Only partial application of survey H-7079 (1945-55) has been made to chart 9141 (print date 9-29-52). Within the area of the additional work the 20-fm. curve differs appreciably with the charted information and some general depths differ as much as 5 fms.

Examined and Approved:


H. R. Edmonston
Chief, Nautical Chart Branch


E. R. McCarthy
Chief, Chart Division


J. Q. Bull
Chief, Hydrography Branch


Earl O. Heaton
Chief, Division of Coastal Surveys

DIVISION OF CHARTS

REVIEW SECTION - NAUTICAL CHART BRANCH

REVIEW OF HYDROGRAPHIC SURVEY

REGISTRY NO. 7079

FIELD NO. 1245

Alaska-Aleutian Is., Adak I., Approaches to Kuluk Bay
Surveyed in Sept. 1945 Scale 1:10,000
Project No. CS-218

Soundings:

808 Fathometer
Dorsey Fathometer

Control:

Sextant fixes on shore signals

Chief of Party - R. F. A. Studds
Surveyed by - R. F. A. Studds and S. B. Grenell
Protracted by - B. B. Jones
Soundings plotted by - B. B. Jones
Verified and inked by - C. P. Reed
Reviewed by - R. H. Carstens, June 11, 1946
Inspected by - H. W. Murray

1. Shoreline and Signals

The source of the shoreline and signals is given in the Descriptive Report.

2. Sounding Line Crossings

Depths at crossings are in good agreement.

3. Depth Curves and Bottom Configuration

Curves of 5 fathoms and deeper were satisfactorily drawn. As there is deep water close inshore, curves less than 5 fathoms could not be completely developed.

The bottom in general is remarkably smooth except within the 40-fm. curve in the vicinity of Thunder Point where several pinnacles rise several fathoms from the bottom.

4. Junctions with Contemporary Surveys

A satisfactory junction was effected with H-6917 (1943) on the west. The junction with H-7078 (1945) on the north will be considered when that survey is verified. There are no surveys on the east and southeast registered at the present time.

5. Comparison with Prior SurveysH-6889 (1933) 1:15,000

This U. S. Navy survey covers the entire area of the present survey. Agreement in depths is only fair. The control on the Navy survey is largely dead reckoning and numerous lines are obviously misplaced.

The following charted sounding from the prior survey are probably out of position and should be disregarded:

<u>Sounding</u>	<u>Lat.</u>	<u>Long.</u>	<u>Chart</u>	<u>Present Depth</u>
a. 56	51° 52.58'	176° 30.20'	9119, 9141	61
b. 60	51° 52.40'	176° 30.20'	9119	73
c. 41	51° 52.20'	176° 29.69'	9141	80
d. ^{erased from} 67 _{chart 9114}	51° 52.45'	176° 29.80'	9141	73
e. 55 " "	51° 52.32'	176° 28.89'	9141	74
f. 45 " "	51° 52.18'	176° 28.89'	9141	66
g. 62 " "	51° 52.20'	176° 29.15'	9141	70
h. 56 " "	51° 52.00'	176° 26.73'	9141	68
i. 66 " "	51° 51.48'	176° 26.47'	9141	78
j. 70 " "	51° 51.60'	176° 26.10'	9141	79

Except for charted inshore rocks and sunken rocks, the present survey supersedes H-6889 in the common area. Bottom characteristics have been retained from H-6889.

6. Comparison with Charts 9119 (Latest print date 11/17/45)
Chart 9141 (Latest print date 2/2/46)A. Hydrography

The hydrography charted within the limits of the present survey originates with the previously discussed survey which needs no further consideration. The charts should be brought into agreement with the present survey.

B. Aids to Navigation

No aids to navigation fall within the limits of the present survey.

7. Condition of Survey

The field plotting was satisfactory.

The Descriptive Report and the sounding records were complete.

The fathograms showed excessive sparking. These markings made the correct scanning of depths uncertain especially where the profile was faint.

8. Compliance with Instructions for the Project

The survey satisfactorily complies with the Instructions except that only one bottom characteristic was taken.

9. Additional Field Work Recommended

Split lines would be desirable in the vicinity of the following:

	Sounding	Lat.	Long.
<i>Instructed to Derrickson (I.E.R.) 29 Aug. 1946 by F.B.T. Siems Add WK not ac- complished 1/19/54 D.S. returned to office</i>	34 fms.	51° 51.7'	176° 27.33'
	20 and 24 fms.	51° 51.38'	176° 27.28'
	17 fms.	51° 51.45'	176° 27.7'
	19 fms.	51° 51.68'	176° 27.92'
	14 fms.	51° 51.60'	176° 28.3'
	20 fm. curve	51° 51.24'	176° 30.25'

H-8079 (1943)
Add. WK 1955 (R)

Examined and approved:

Robert W. Knapp
Chief, Nautical Chart Branch

J. S. Borden
Chief, Division of Charts

Evel O. Heaton
Chief, Section of Hydrography

Raymond B. Egan
Chief, Division of Coastal Surveys

T.S.W.
H.W.M.

TIDE NOTE FOR HYDROGRAPHIC SHEET

~~Division of Hydrography and Topography~~

Division of Charts: H. W. MURRAY

Plane of reference approved in
1 volume of sounding records for

HYDROGRAPHIC SHEET 7079 (additional work)

Locality - Scabbard Bay, Adak Island, Aleutian Islands, Alaska.

Chief of Party: I. E. Rittenburg in 1946
Plane of reference is mean lower low water, reading
3.0 ft. on tide staff at Sweeper Cove
7.0 ft. below B. M. 1

Height of mean high water above plane of reference is 3.7 feet.

Condition of records satisfactory except as noted below:

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

NAUTICAL CHARTS BRANCH

SURVEY NO. H7079

Record of Application to Charts

DATE	CHART	CARTOGRAPHER	REMARKS
4/3/46	8863	Albert	Before After Verification and Review Examined - not applied
3/19/47	9141	H. MacEwen	Before After Verification and Review Partial application
5/11/48	9119	F.A. McGunn	Before <u>After</u> Verification and Review Partially applied
5/15/50	9102	G. Everett	Before After Verification and Review
7/21/51	9193	R. Straus	Before After Verification and Review Partial three Chart 9141. C.P. No. 5. Ver. against amend sheet 2.3.6.
11/26/58	8863	J.P. Walker	Before After Verification and Review Completely applied to Reconst.
5/31/60	9119 } 9141 }	A. Evans	Before After Verification and Review odd / partial application -- to be considered final application until chart is reconstructed
			Before After Verification and Review
			Before After Verification and Review
			Before After Verification and Review

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.

7079
Additional work

Diag. Cht. No. 8863-2

Form 504

U. S. COAST AND GEODETIC SURVEY
DEPARTMENT OF COMMERCE

DESCRIPTIVE REPORT

Type of Survey Hydrographic
Field No. PA-1245 Office No. 7079 Ad. Wk.

LOCALITY

State Alaska
General locality Aleutian Islands
Locality North Side Adak Island

19 55

CHIEF OF PARTY

S. B. Grenell

LIBRARY & ARCHIVES

DATE November 15, 1955

B-1870-1 (1)

7079
Additional work

SPECIAL REPORT

ADDITIONAL SOUNDINGS ON H-7079

USC&GSS EXPLORER 1955 Season

Surveyed by S. L. Hollis, Jr.

Reference: Boat Sheet H-7079, PA1245

1. The purpose of the survey was to complete soundings in areas marked for additional development on Boat Sheet H-7079. It was advisable to do the hydrography on ~~EA-2255~~ since no new control or Boat Sheet was necessary and the original Boat Sheet could not be used because the hydrographic signals were not recoverable.

2. The soundings are smooth plotted on tracing paper over Boat Sheet EX-2255 (H-8240) ^{cloth}. This overlay is to be enlarged to 1:10,000 scale for transfer to H-7079. ^{Tracing attached to D.R.} 1945

3. The hydrography was done on 15 June 1955 using EXPLORER launch #3, fathometer 808J #127-S and shoran receiver 866 CRV. Fathometer corrections were taken directly from "Appendix I" of "Special Report on Fathometer Corrections, USC&GSS EXPLORER, 1955 Field Season", previously submitted. ^{in Library}

Shoran Corrections were derived from calibrations taken on 24 June.

Tide reducers were obtained from the standard tide gage at Sweeper Cove, Adak Island. No time or range corrections were applied to the observed tides.

Positions 1 through 19 were controlled by shoran stations AXLE and SAND. Due to shoran failure the remainder of the sounding was controlled by visual fixes, using triangulation stations, HID, 1943, RF-2, 1945 and WAR(USN) 1933.

4. The 20 fathom curve is adequately developed in the vicinity of latitude $51^{\circ} - 51'$ between longitudes $176^{\circ} - 30'$ and $176^{\circ} - 31'$. At latitude $51^{\circ} - 51.6'$, longitude $176^{\circ} - 28.13'$ a least depth of 14.5 fathoms was recorded. The previous least depth was ~~12.5~~ fathoms.

This area is considered adequately developed. The soundings in the vicinity of latitude $51^{\circ} - 51.7'$, longitude $176^{\circ} - 27.8'$ are verified.

The 15 fathom sounding at latitude $51^{\circ} - 51.46'$, longitude $176^{\circ} - 27.53'$ was not investigated. All other areas marked for development were completed on survey H-8070 in 1953.

15fm sdg which appeared on boat sheet is shown as 17 fm on S.S.

5. Data forwarded herewith include:

- (a) The original Boat Sheet H-7079 (PA-1245).
- (b) 1:20,000 scale tracing cloth plot of new work.
- (c) 1 envelope - fathogram.
- (d) 1 volume sounding record.

gwh

6. Other data submitted separately:

- (a) Special Report on Fathometer Corrections, USC&GSS
EXPLORER, 1955 Season.
- (b) Sweeper Cove tide observations.
- (c) Position of Shoran Stations AXLE and SAND.
- (d) Special Report on Shoran Corrections, Ship EXPLORER, 1955
Special Report 90/1955
S.B. Grenell, H.A. Beroliz

Respectfully submitted

G. E. Haraden
G. E. Haraden
Lt.(jg), C&GS

Approved and forwarded:

S. B. Grenell
Capt., C&GS
Commanding Ship EXPLORER

Hydrographic Surveys (Chart Division)

HYDROGRAPHIC SURVEY NO. 7079 Additional Work.

Records accompanying survey:

Boat sheets; sounding vols. ...1.; wire drag vols.;
 bomb vols.; graphic recorder rolls 1-Evn.; ;
 special reports, etc. 1-Descriptive report. and 1-Overlay tracing.....

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

Number of positions on sheet	.....	35
Number of positions checked	.....	16
Number of positions revised	.....	16
Number of soundings revised (refers to depth only)	.....	31
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 hr

Verification by Chester F. Rupp Total time 20 hrs Date Feb. 17, 1956

Reviewed by W. Jeske Time 12 hrs Date 20 Mar. 1956

Soundings in fms. at MLLW and are based on a velocity of sound in water of 800 fms/sec.

Soundings were not corrected for velocity because of small correction factor (0.0075) determined from temperature and salinity observations in D.R. of H-6915.

RHC

TIDE NOTE FOR HYDROGRAPHIC SHEET

~~Division of Coastal Surveys~~

23 November 1955

Division of Charts: R. H. Carstens

Plane of reference approved in
1 volumes of sounding records for

HYDROGRAPHIC SHEET 7079

Locality

Aleutian Islands, Alaska

Chief of Party: S. B. Grenell

Plane of reference is mean lower low water.

3.0 ft. on tide staff at Sweeper Cove

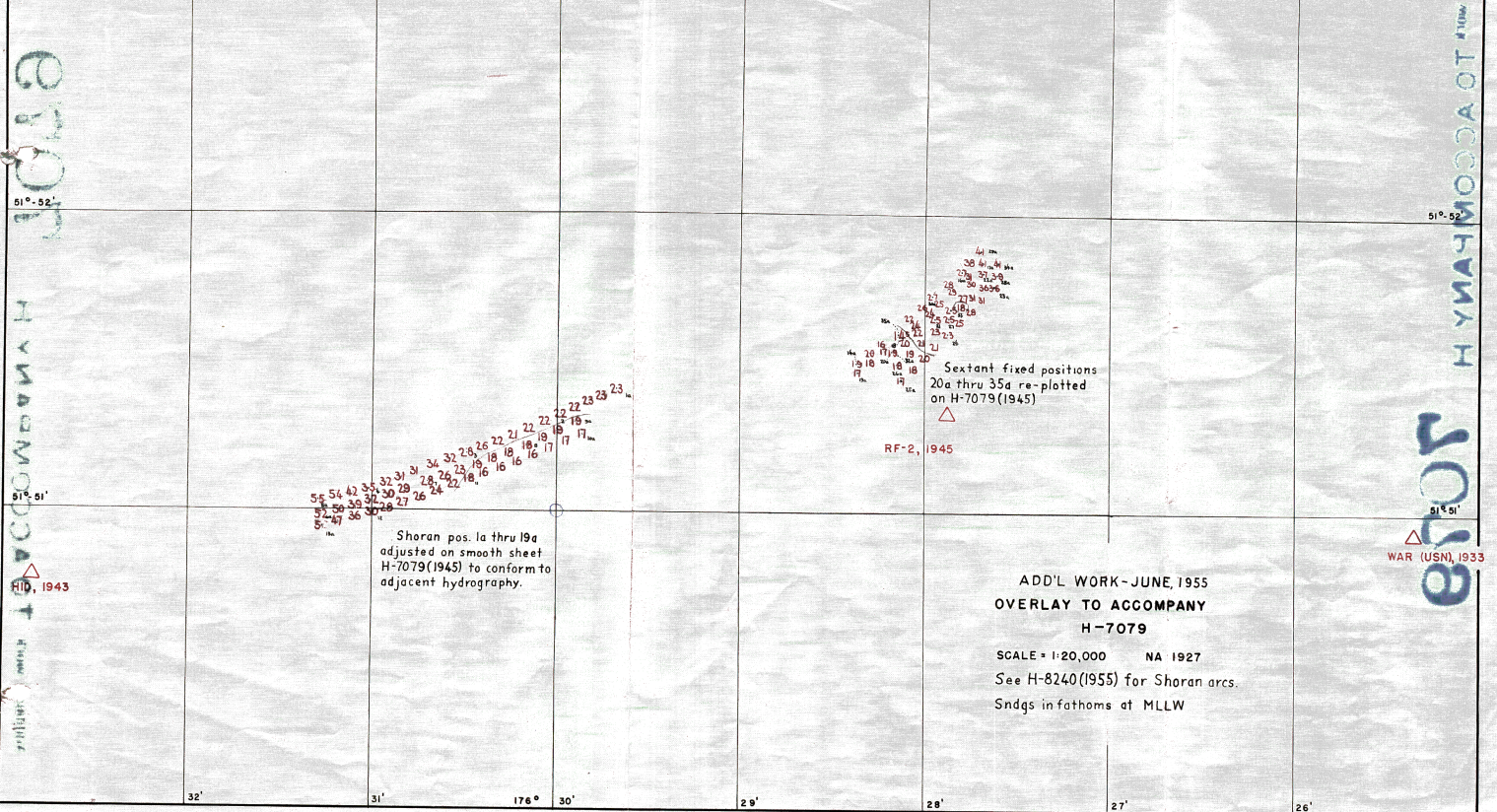
19.6 ft. below B. M. 16 (1951)

Height of mean high water above plane of reference is 3.7 feet.

Condition of records satisfactory except as noted below:

William Shapiro

Branch
Acting Chief, ~~Division of Tides and Currents~~



NAUTICAL CHARTS BRANCH

See descriptive report of 1945 survey for review of add'l. work 1955.

SURVEY NO. H-7079 Additional Work.

Record of Application to Charts

DATE	CHART	CARTOGRAPHER	REMARKS
<i>1/28/57</i>	<i>9/193</i>	<i>Hand-drawn</i>	<i>add 18 fm. sdg. No Coll. Consider as completely applied</i> Before After Verification and Review
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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.