7889

Achides H. 7740

Diag. Cht. No. 8864-2

U. S. COAST AND GEODETIC SURVEY

DEPARTMENT OF COMMERCE

DESCRIPTIVE REPORT

Type of Survey - HYDROGRAPHIC

Field No. EX-2250 Office No. H-7889

LOCALITY

State ALASKA-ALEUTIAN ISLANDS

General locality RAT ISLANDS

Locality EAST END OF ALICHITKA ISLAND

19/4/...50

CHIEF OF PARTY

H. A. Kare

LIBRARY & ARCHIVES

DATE JULY 24, 1951

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 7889

Field No. Ex-2250

State Alaska - Aleutian Islands
General locality Aleution Islands East End Of
Locality 4 Amchitka Island
Scale 1:20,000 Date of survey 13 May to 15 June 1950
Instructions dated 3 February 1938, Supplemental Instr. through 9 Feb 1950
Vessel EXPLORER Launches 2 & 3
Chief of party H. Arnold Karo
Surveyed by M. A. Hecht and R. H. Tryon
Soundings taken by fathometer, graphic recorder, Kana lead, whe
Protracted by H.C.Parsons
Soundings penciled by H.C.Parsons
Soundings in fathoms xfeet at MLLW MLLW
REMARKS: Fathograms scanned by Young, Frost, Cole, Ellis.
" checked by RLK, FXP, HCP, JSP, CJF, REW, DMV.

U. S. GOVERNMENT PRINTING OFFICE 428975

to accompany HYDROGRAPHIC SURVEY NO.

7889

Field No. Ex-2250 Amchitka Island Scale: 1:20,000 1950

USC&GSS EXPLORER

H. Arnold Karo, Comdg.

Surveyed by: M. A. Hecht and R. H. Tryon

A PROJECT

This survey was executed under instructions dated 3 February 1938, and Supplemental Instructions received through 9 February 1950, for Project CS-218. Additional work required by Director's letter dated 14 April 1949 was accomplished.

B SURVEY LIMITS AND DATES

The survey covers the inshore hydrography for the east end of Amchitka Island on both the north and south sides. It joins H-7042, 1945 on the northwest and H-7040, 1945 on the southwest, and contemporary survey Ex-4150 on the northeast, east and south.

Field work began on 13 May 1950 and was completed on 16 June 1950.

C VESSELS AND EQUIPMENT

EXPLORER launches 2 and 3 were used for the entire period and were operated from the ship. Launch 3 was equipped with shoran after 28 May, while Launch 2 was so equipped for the entire period.

Both launches were operated at full speed except in waters dan-

gerous to small boat navigation.

Soundings were obtained with Submarine Signal Company 808 Depth Recorders, No. 72S on Launch 2 and 127S on Launch 3.

D TIDE AND CURRENT STATIONS

Reducers for tide were obtained from the tide gage at Constantine Harbor and were applied without time or range corrections.

There were no current stations.

E SMOOTH SHEET

The smooth sheet projection was made in the Washington Office by ruling machine. All other data are to be supplied by the Seattle Processing Office.

F CONTROL STATIONS

No triangulation was accomplished in 1950. Existing triangulation has been accomplished from 1943 to 1949. Photo-hydro stations are shown on manuscripts T-5599 and T-5600 as edited in 1950. Signal END was located by sextant cuts on Ex-4150. For location of O END see Proceeding notes here with

H-7890 (1950)

G SHORELINE AND TOPOGRAPHY

The shoreline and topographic details are from compilation sheets T5599 and T5600 as edited in 1950. For details, see Field Edit report submitted in 1950 by Ship EXPLORER.

The low water line is not delineated by the hydrography due to a rugged coast line with offlying rocks and too impenetrable beds of kelp.

H SOUNDINGS

The depths were measured in fathoms by 808 type depth recorders. Corrections for tide, velocity, index and phase were applied to the soundings. Speed corrections for 115f to 121f (green) were applied.

I CONTROL OF HYDROGRAPHY

The hydrography was controlled by visual three point fixes and shoran distances. Launch 2 operated on the north side between TINY 6 mile and 7 mile arcs and east of the TINY 8 mile arc. Shoran control was used in these areas. Launch 3 accomplished the remainder of the area using visual fixes on shore objects for most of the work with some shoran work after 28 May.

J ADEQUACY OF SURVEY

The survey is complete and adequate to supersede prior surveys for charting. The junctions with adjoining boat sheets is satisfactory and no holidays or excessive differences are noted. Depth curves can be adequately drawn at the junction of the boat sheets.

Because of heavy kelp and rugged coast line, it was not possible to fill in all inshore areas.

K CROSS LINES

Nine percent of the hydrography was run as crosslines. The agreement is good on the boat sheets and further comparison will be made after smooth plotting.

L COMPARISON WITH PRIOR SURVEYS

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

Recon. Survey # 6,06(1935) USN feels in this area

M COMPARISON WITH CHART

The paucity of soundings in this area from Chart 8864 makes comparison with the new survey difficult. The present survey shows much shoaler depths offshore from East Cape. A more detailed comparison with the chart can be made after smooth plotting.

See 196
of Review

Soundings on a Band ((blue) days were transferred to H-7889 from 50 2145, which was originally registered H-7041. Register No.H-7041 was subsequently assigned to another sorvey. Sounding volumes and fathograms for 50-2145 are filed with H-7889. The Descriptive Report for 50-2145 is attached to this Deep. Rpt.

N DANGERS AND SHOALS

The area from signal End off East Cape eastward to longitude 179° 30.6'E has numerous shoal spots with least depths of from 1 to 5-fathoms. The 5-fathom spot in latitude 51°-21.5N longitude 179° 30.6'E marks the eastern limit of the shoal area. From signal End west to East Cape, the bottom is less ragged and at longitude 179° 28.8E 8 - fathoms can be carried through the pass. The entire area off East Cape is covered with kelp which tows under except at slack water. Current rips and a heavy chop will be met in this area in all weather except at slack water when the seas are calm.

An investigation of the 9.6 fathom sounding and delineation of the 10 fathom curve requested in Director's letter dated 14 April 1949 was accomplished on b day, g day and j day for launch 3. No indication of the 9.6 fathom sounding was found during the running of the regular lines. On g day, the launch drifted in the vicinity of the shoal spot for over 57 minutes. Soundings of from 9 to 10 fathoms were found in the immediate vicinity and the shoalest of Tathoms is plotted at position 35g (green). (Latility Long 179 22.40)

It is recommended that the Afathom sounding be charted according

to the data found in 1950.

O COAST PILOT INFORMATION

This report has been submitted.

P AIDS TO NAVIGATION

The following aids to navigation were located at the entrance to Constantine Harbor.

Lighted "bell 1"		37b (green)
N-3		38 b
Can 3	•	396
N-4		77j (green)

Q LANDMARKS FOR CHARTS

The report for landmarks for charts was submitted on Form 567 on 10 August 1950.

R GEOGRAPHIC NAMES

The recommendations for Geographic Names are covered in the field edit report submitted in 1950.

S-Y

There is nothing to report under these headings.

Respectfully submitted

Raymond H. Tryon Jr.
LCDR, USC&GS

Forwarded and approved

S. B. Grenell, CDR, USC&GS

Comdg. Ship EXPLORER

PART III: SHORAN ZERO SETTINGS

Shore	Set		Ship	Launch #1	Launch #2	Leunch #3
Hany	(1f)	* .	99.804	99.818	99.798	99.789
THE	(hf)		99.811	99.804	99.808	99,804
IMTS			99.830			
GARE	. •		99.821			
ROCK	(hf)		99.825	99.814	99.812	99.796
DORE	(11)		99.804	99.770	99.773	99.771
DROM	(hf)		99.815	99.791	* (See below)	99.787
HILL	(11)		99.827	99.815	* (See balow)	99.801

The shoran zero settings for Launch #2 at Port Clarence were determined at two distances. The variation in zero settings between the two calibrations was proportional to distance. This variation was attributed to the attenuation of shoran signals at line-of-sight distances.

- Calibration	No. 10	Calibration No. 12		
DRUM distance DRUM sero set	13.820 miles 99.762	DRUM distance 6.700 miles DRUM zero set 99.790		
HILL distance HILL zero set	19.356 miles 99.780	HILL distance 5.909 miles HILL zero set 99.819		

From the above data the zero sets for Launch #2 are:

DRUM

HILL

<u>Distance</u>	Zero Set	Distance	Zero Set
0 - 7.5 miles 7.5-10.0 miles 10.0-12.5 miles 12.5-out miles	99.790 99.780 99.770 99.762	0 - 8.5 miles 8.5-11.5 miles 11.5-14.5 miles 14.5-17.5 miles 17.5-out miles	99.819 99.810 99.800 99.790 99.780

VELOCITY CORRECTIONS

1950 808 Fahhometer

Vicinity Amchitka I. Surveys Nos. 2150, 2250, 4150, H-7731, H-7737 Vicinity Sledge I. & Port Clarence Surveys Nos. 2350, 2650, 2750 & 4350.

4250, 10150	(Ship) (Launch)			(Launch)	
Corr'n fag	Depth fmg	Corrin ft.	Depth ft.		ft. Depth ft. 0.2 reducer)
0.0	0 to 6.0	0.0	0 to 29.0	0.0	0.0 to 08.5
-0.2	to 14.0	-0.5	to 60.0	-0.2	to 12.0
-0.4	to 22.0	-1.0	to 88.0		0.5 reducer)
-0.5	to 30.0	-2.0	to 151.0	0.0	0.0 - 19.0
-0.8	to 38.5	-3.0	to 160.0	-0.5	- 51.0
-1.0	to 46.5			-0.1	- 80.0
-1.2	to 54.5			-2.0	- 242.0
-1.4	to 63.0	•		-3.0	- 160.0
-1.6	to 71.0				
-18	to 79.0				
-2.0	to 87.0		Surveys Nos.	2450 & 255	2
-2.2	to 95.0				~
-2.4	to 103.5	0.0	0.0 to 19.0	0.0	0.0 to 2.0
-2.5	to 114	~0.2	to 33.5	-0.2	to 23.5
-3. 0	to 134	-0.4	to 50.5	-0.4	to 38.0
-3.5	to 154	-0.6	to 60.0	-0.6	to 56.0
-4 .0	to 175			-0.8	to 60.0
				~7.0	to 88.0



```
Speed Correction
                                  Ex- 2250
                Lounch # 3
Calibration Speed
      1/2 x 2.54 · 1.27 cm/1/2 min fix'
      2/3 x 2.54 = 1.693 cm/2 min fix
Position 115d-116d
      1.354 cm
                               6.2 70
                       .084 - 6.61%
     1.27
     0.084 cm error
                      Y. 27
                        1.354
Position 116d-117d
    1.353
    1.27
    0.083 cm error
                       1.353
Position 117d -118d
      1.375
     1.27
     0.105 cm error
      1.350
                       080 · 6.30 %
     1.27
```

Position 118d-119d 1.350 0.080 cm error

Position 119d-121d 1.795 <u>3.6/3</u> = 1.806 1.806 1.818 1.693 3.613 0.113 6,26% .113 . 6.67% 1-693 1.806

Note: All corrections are negative

corrected in Wash Off.

138. G.

APPROVAL SHEET

The boat, smooth sheet and records have been in-

B. Grenell

Commander, USC&GS

H 7889 Ex 2250 H 8890 Ex 4150 H-789/

Processing Office Notes.

These two sheets, the inshore and Offshore sheets around the east end of Amchitka Island, have been mutually involved in the adjustment of shoran positions so that the same remarks often can be applied to both sheets. (4/50 H-7891)

Smooth sheets.
The projections were ruled on the machine in Washington. Shoreline was transferred from T 5599 and T 5600 which were complied from photographs inspected in the field. Topographic signals are from the same two sheets. Shoran stations TINY and HART are from the field computations of 1949. Other triangulation stations are from Vol.V of the adjusted positions, Pages 211, 212 & 214. The location of hydro signal END is covered in a separate paragraph herewith.

To control the shoran arcs, positions were computed along two radiating lines from each station TINY and HART, at convenient distances in statute miles. The resultant points were plotted. The intervals along the radii were subdivided carefully into two statute mile spaces on H 7890 and into one mile spaces on H 7889. The distance arcs were drawn thru the points obtained.

Positions, H 7889 & H 7890.

Many of the shoran positions of these sheets have been adjusted after the manner of RAR. The uncertainties of the positions were less than RAR differences, but the shifts of positions amount to a centimeter and more in places.

On beginning the plotting nothing would check. The sounding lines located by shoran were in almost complete disagreement with lines controlled by visual fixes. Visual lines were not consistent. Many visual fixes depended on Θ PEG and Θ END. These signals were fixed as related under the heading " Θ END".

The new location of OPEG & O END did not bring visual and shoran controlled lines into agreement, a few cases excepted. It was at first thought that the interference of hills between the positions and shoran signal HART caused discrepancies. An investigation showed that this could account for only a few thousandths of a mile at places while the original observation was recorded in hundredths. Insmany such cases it later appeared that distances from HART were more reliable than those from TINY while the line to TINY was clear and un obstructed. On both Sheets H 7889 and H 7890 distances from HART have been in better agreement with visual fixes than those from TINY, but this too is subject to variations.

The agreement between TINY and HART and between shoran and visual fixes is better to southeastward from TINY. Near the shoran base line disagreement of shoran distances is not large but shoran intersections were thrown a long way on account of the weakness of the fix. Fortunately there were visual fixes also in this locality. They frequently checked the distances from HART.

On H 7889 the adjustment of the area north and west of East Cape depend on visual fixes which were used on several lines which approximately ran parallel to the shore and crossed the lines run on Shoran arcs. The discrepancies between shoran and visual in this area was considerable. In general the shoran points were too far offshore. There was a gap between the inshore ends of shoran sounding lines and the rocks or reef lines. It had to be brought in closer to shore to make references to rocks at all reasonable and to make crossings with visual lines further out. A lot of fitting and trying was done before a satisfactory adjustment was obtained.

The two plotters have worked together to keep the two sheets in agreement. They are also in agreement with all other adjacent sheets, whether of the current or prior seasons.

It is suggested that the plotting of the positions be adjustment accepted as they now lay on the sheet.

In the sounding records, the additional corrections to shoran distances to obtain agreement with the accepted points shoran entered at each shoran fix.

7 C

Adjustment by Proc. Off. done by applying varying corrections to sharan distances and is influenced much by dead reckoning

⊙ END (H 7889 & H 7890)

This object is an eight foot high bare rock, so far as we can ascertain the only bare rock in the reef a mile off East Cape. The field party used on the boatsheet the position of a bare rock in the middle of the reef as then shown on the un-inspected photo compilation T.5600, although four hydrographic cuts (H 7823) 896 to 92 G-day intersected a hundred and fifty meters to southward of the boatsheet position. See cuts 5,6,7 & 8 on the accompanying print. In trying to settle this difference we found on Sheet H 7041 of 1945 a large number of cuts passing thru a point at an acute angle. These are in the books of H 7041 as positions 1B, 2B, 4b? 6B, 8B, 10B, 11B, 23B, 29B, and 60A-day. They were made in 1945 to locate O ROK as it was then called. Our photostat copy of H 7041 is not very clear but there seem to be eight good cuts visible. See cuts 9 to 16 of the print. These cuts were transferred by tracing, making correction for datum differences of course. They were approximately at right angles to the four G-day cuts (1950) and were very close to the same intersection.

At this point the matter was referred to Washington to settle the matter; whether the rock was in the middle of the reef or on its southern edge; or was the rock at the southern position with the reef all around it.

We received from Washington a print of T 5600 showing the bare rock shifted to the southern edge of the reef and showing cuts 1 to 4 of the accompanying print which intersect at the southern edge of the reef. Also, the important signal PEG was shifted a millimeter to southwestward. The G-day cuts were plotted using the new position of Θ PEG. The cuts 1 to 4 from Washington, 5 to 8 from G-day hydro, and 9 to 16 (not all shown) from H 7041 are remarkably consistent. We think we have a very good location of Θ END, the most important visual signal of these surveys and the landmark of a dangerous reef. The accepted smooth sheet position scales φ 51°22' + 200 M.

λ 179°307 + 632 M.

See P Z of D.R. 10: H-7041 Attention is called to the following soundings on H 7889.

φ	7.	Fms.	Φ	7	Fms.
51 21.55 21.80 22.45; 22.63; 22.50; 22.57; 21.91; 21.95; 21.73;	25.65 E 26.65. 28.45. 28.62. 29.10. 29.05. 29.91. 29.62. 30.5.	6.8 4.8 2.8 3.5 7.1 4.6 64.8	51 21.48 · 21.84 · 21.65 · 21.55 · 21.43 · 21.6 Ø	179 30.85m 30.05 30.57 30.07 30.20 30.65 30.85 30.10	2.4. 5.7. 4.3. 4.8. 10.4. 9.1.

The breakers listed below were transferred from T 5600,(1950) as shown on the corrected print furnished to us. The print is attached to this report. The breakers are visible on single lens air photo 48-0-506, the only photograph of this reef available to us.

φ λ 51 22.33· 179 29.5· 21.9 - 29.95 *

The rocks awash shown in ink in the vicinity of © END are from the same corrected print of T 5600. (1950)

The rocks shown in pencil are from boatsheet and notes in the record. These are located in relation to the adjusted sounding lines as well as we can fix them. In the case of the rock at \$\phi\$ 51 22.28 \$\lambda\$. 179 29.44 \$\text{E}\$, Mr. Tryon recalls that it was directly ahead of him as he ran down from the north on line ll-l3 f-day and that he turned off to the right to position 13-f with the rock astern.

Cart. Enor

7/17/1951

DEPARTMENT OF COMMERCE U. S. COAST AND GEODETIC SURVEY

1500 Westlake Ave. North, Seattle 9, Wash.

EXPRESS ADDRESS:

9 August 1951

To:

Director

U S Coast & Geodetic Survey

Washington, D.C.

Subject:

Addition to report hydrographic sheet.

There is inclosed a print of the east end of Amchitka Island. On the reverse is a letter to Lt. Comdr. R.H.Tryon concerning Sea Otter Rock and his reply. It is requested that the correspondence be added to the descriptive report for sheet H 7889.

Dutch Harbor Alaska 29 June 51

Dear Mr Smith

your letter must have gotten mixed with 2nd class mail in the Seattle Office to have taken 3 weeks to arrive here. Also an identical looking letter to Tryon was missent here. I have forwarded his letter to the Surveyor at Kodiak — suspect it was about the same subject — if it was he will be wible to shed some light on the matter since the sounded in the vicinity of Sea Offer RK. I never got closer to their rock Than OPES where I took sextant cuts. The rock was over a mile away and it was a bad day with lots of white water out near the rock. I cut the only rock in that I could see. Mr Hecht (on Aretic Party) also sounded

near Sea Otter RK. I have take the liberty of sending my sketch to him and asked him to drop you a note. I Think you did a good job of pieceing together those cuts. The elevation of the rock came from the launch hydrographers (Hecht & Tryon). We noted that the cuts from OPEG did not fit the boat sheet & manuscript position of the rock (OEK), the hydrographers felt they could strengthe it with a few sextant cuts while on hydro lines.

We are enroute north and may stop at NOME for the 4th (July).

Best Regards

Lt. Comdr. R.H.Tryon:

I thought this might be of interest to you. The bare rock shown at the middle of the reef was used as the boatsheet position of \odot end. Hydrographic cuts Nos. 5,6,7 & 8 showed the signal at the southern edge of the reef. Then we found on a photostat of the 1945 sheet H 7041 eight cuts which fell between 9 and 16. They intersected at an acute angle but passed thru a point. They are approximately at rt. angles to the 1950 cuts and after applying datum differences they intersect almost in the same point.

At this point we referred the matter back to Washington. They shifted \odot Bow and \odot Peg slightly to SW. They balso furnished cuts 1,2,3 & 4.

With the new position of \odot Peg cuts 5,6,7 & 8 were replotted as shown on the reverse hereof.

We are of the impression that \odot End (Sea Otter Rock), an eight foot high bare rock, is the only bare rock in this reef. I would appreciate your idea on this point.

E.H. Smith

1500 Westlake Ave. North. Seattle 9.

aug 6, 1951

Dear Tur. Sunth,

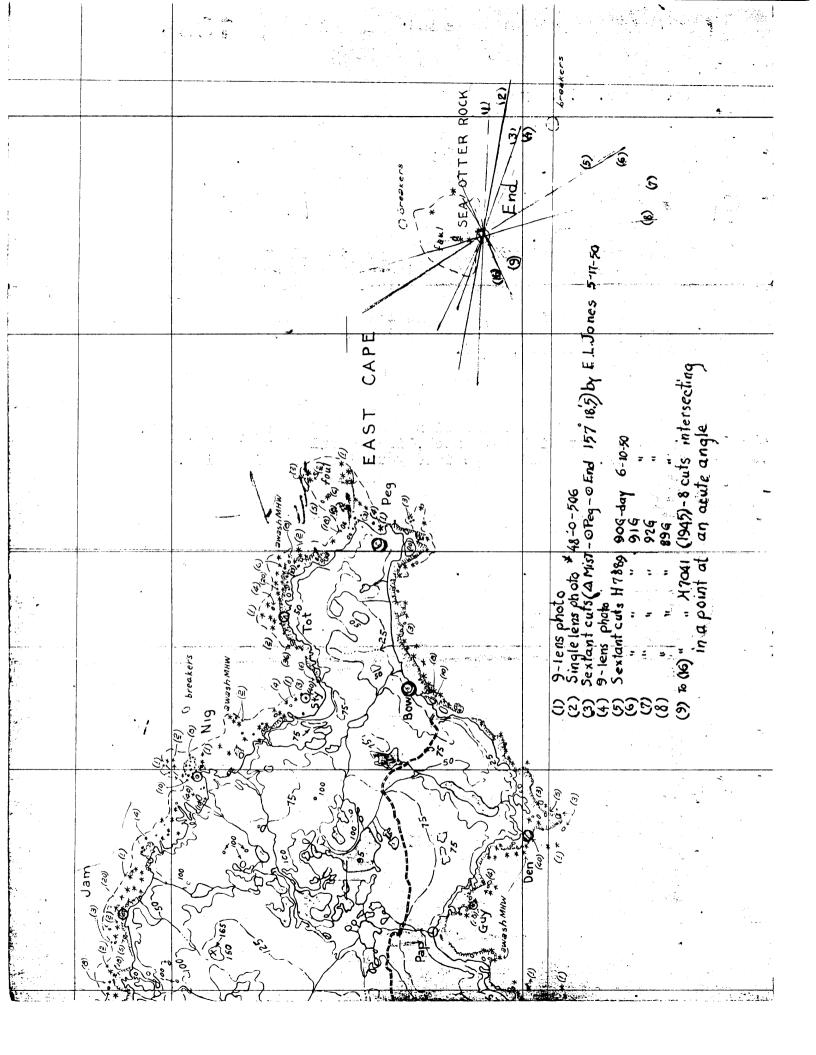
your letter above rangles rue as we we want step out and us haven's returned until now.

with regard to your impression of our rocks in the vicinity of O END, you are absolutely correct and with the exception of the rocks award as noted in 1950, this is all that ever was visible to iss in 1950.

Job of evaluating the data in this case.

Please excuse this hurried answer to your query but me are putty much on the go now bursely.

Layarouf J. Tryon J.



DEPARTMENT OF COMMERCE U. S. COAST AND GEODETIC SURVEY

POST-OFFICE ADDRESS: 1500 Westlake Ave. North, Seattle 9, Wash.

TELEGRAPH ADDRESS:

EXPRESS ADDRESS:

1 May 1951

To:

The Director

U S Coast & Geodetic Survey

Washington, D.C.

Thru:

Supervisor NW District

Subject:

Signals Sheet H 7889, east end of

Amolitka Island.

In the area east and south of East Cape, Amchitka we are finding discrepancies between shoran and visual fixes. At many positions both shoran and visual fixes were recorded. The shoran usually plots to northward of the visual point. The visual fixes most often include © Peg and/or © End. Since the visual fixes are not very strong in the vicinity of Sea Otter Rock a slight change in Peg might be helpful.

Now in the case of © End (Sea Otter Rock, the eight foot high bare rock in the reef a mile east of Fast Cape) we have have four cuts spread over an angle of 26° but passing thru a point. On the 1945 sheet H 7041 there are a number of cuts making an acute intersection but passing thru or very close to a point. The 1945 cuts are approximately at right angles to the 1950 cuts and they seem to check on the 1950 intersection, after allowing for datum difference. See section of T 5600 attached.

there appears to be only one bare rock in this reef.

Lt.Comdr. R.H.Tryon, now in the SURVEYOR, who ran sounding
lines in the immediate vicinity of the rock has been
consulted. The hydrographic parties had on the boat sheet
the same position of the bare rock that appears on T 5600
and they used this position as the signal. The four cuts
(1950) to End were made during the survey of H 7890
Ex 4150, Pos. 900 to 950 Vol.5 which we still have. Each
of these positions depends on O Peg. The ship was about
1.5 miles to SSE from End. There were both shoran and
visual fixes. They plot about a millimeter apart. Shoran
arcs on the smooth sheet have been rechecked.

Our only picture of the reef is the single lens photograph 9-19-48 0 - 506 which shows the field inspection. From this one picture we are able to say which feature is the bare rock. Perhaps the nine lens photographs are more informative.

We request that the position of @ Peg on East Cape be verified and that @ End (Sea Otter Rock) be verified if possible. If you could say that the position logoted by outs seems unreasonable we could discard it and proceed.

Sheet H 7888 Ex 2150 is now completed except for examination. It will be forwarded in a day or two. That leaves H 7889 Ex 2250 at the top of the priority list. We have lost time on account of the uncertainty explained herein. It is requested that the reply be sent by air mail.

Edgar E Sunt

Car C. Engl

Forwarded.

Jack Senior Supervisor NW Dist.

MAY 18 1951

IN REPLY ADDRESS THE DIRECTOR
U. S. COAST AND GEODETIC SURVEY
AND NOT THE SIGNER OF THIS LETTER
AND REFER TO NO. 70-001

DEPARTMENT OF COMMERCE U. S. COAST AND GEODETIC SURVEY WASHINGTON 25

1,14 May 1951

To: Ar. Idgar E. Smith

Thru: Supervisor, Northwestern District

U. S. Coast and Geodetic Survey

705 Federal Office Building

Scattle 4. Washington

Subject: Signals, East End, Amchitka Island, Alaska

In compliance with your letter of 1 May 1951, this office has rechecked the positions of the hydrographic signals on the east end of Amchitka Island. This has been done without regard to the direction which shoran and visual fixes fail to cut on signals Peg and End. The positions of signals Peg and Bow have been changed approximately one half millimeter. The position of signal End has been shifted about 100 meters to the south and cast and now agrees quite closely with the hydrographic cuts. The original position of End was the result of misidentification of Sea Otter Rock. The eastern end of Amchitka Island has been photogrammetrically cantilevered from triangulation stations Mist and Chuck and may have progressively weak position determinations eastwardly from those two stations.

It is believed that the best position determinations have been made from the data and photography that can be made and that you must therefore make the best adjustment you can in fitting the hydrographic data to the topographic data of T-5600.

A cut-out of T-5600 showing the revised positions for signals Peg, End, and Bow and the materials you forwarded for the investigation are enclosed.

Acting Director

KTAdams

Lt. Comdr. E.L.Jones.

I thought this might be of interest to you. The bare rock shown in the middle of the reef was used as the boatsheet position of End. Hydrographic cuts Nos. 5,6,7 & 8 showed the signal at the southern edge of the reef. Then we found on a photostat of the 1945 sheet H 7041 eight cuts between 9 and 16 which intersected in an acute angle but passed thru a point. They are approximately at rt. angles to the 1950 cuts and after applying datum differences they intersect almost in the same point.

At this point we referred the matter back to Washington. They shifted signals Bow and Peg slightly to SW. They also furnished cuts 1,2,3 & 4.

With the new position of \odot Peg cuts 5,6,7 & 8 were replotted as shown on the reverse hereof.

We are of the impression that © End (Sea Otter Rock), an eight foot high bare rock, is the only bare rock in this reff. I would appreciate your idea on this point.

E.E. Smith

1500 Westlake Ave.North Seattle 9.

7 July 1951

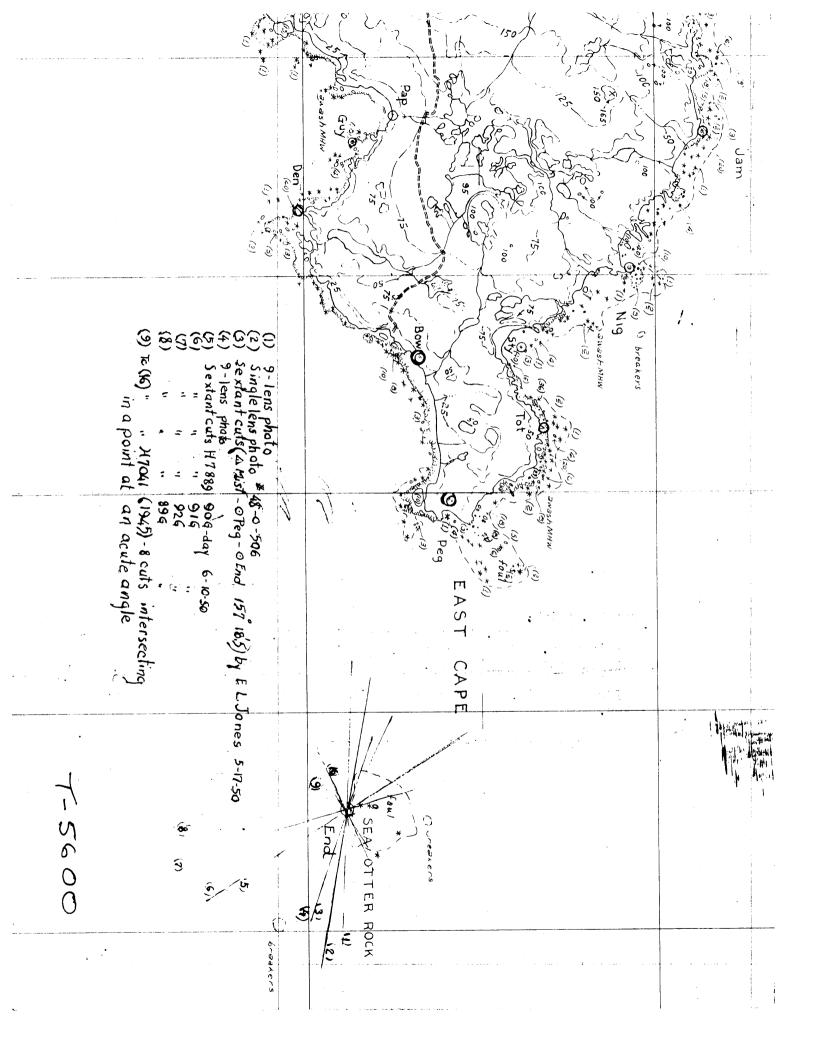
Dear Mr. Smithh

Comdr. Jones referred this to me, because I ran the hydro in this area. You are correct, the eight foot high bare rock is the only bare rock in this reef, and the center of this was Signal END. There is another rock that is just awash at low tide just north about 160 meters as I remember it, but no cuts on this would have been possible or were taken.

Trust that this information will be of value.

Sincerely.

/ Clark



H 7889 Ex 2250

East end of Amchitka Island.

List of geographic names penciled on smooth sheet.

Amchitka Island

Amchitka Pass

East Cape

South Bight

Constantine Harbor

Pacific Ocean

TIDAL NOTE

Soundings for this survey were reduced from tide data obtained from the portable abtomatic tide gage located at Kiriloff Wharf, Constantine Harbor, Amchitka Island, Alaska. Latitude 51°-24.81N longitude 179°-16.8E.

This tide gage is in the same location as in 1949, and the same tide staff was used. The plane of reference is MLIW, which is 2.5 feet on the staff. All soundings and tidal observations are based on 165th meridian time (west). No corrections for difference of time or range of tide were applied.

TATISTICS FOR HYDROGRAPHIC SHEET NO. 7889

Field No. Ex-2250

	USC&GS	S EXPLORE		C m . mt min
The MITTI	DAY	WAT IBOT	NO OF POSITIONS	STATUTE MILES
DATE	LETTER	VOLUME	LOSITIONS	MITTER
1950				
Leunch 5-29 5-30 6-10 TOTA	a b c	1 1 2	47 134 63 244	16.6 39.5 16.5 72.6
Launch 5-13 5-15 5-17 5-25 5-29 5-30 6-9 6-10 6-15	3 a b c d e f £ h	1 1, 1&2 2 3 3 4 4 4	50 143 137 172 69 185 66 14 77	10.5 20.6 20.7 32.3 12.5 36.5 11.2 1.4 11.3
GR.	AMD TOTALS	5	1157	230.0

AREA: square statute miles 17.8

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.

H-7889 (195°) H-774° (1949) REGISTER No. H-7041

Field No. SU 2145

State	AIASKA
General locality	Aleutian Islands
Locality	SOUTH COAST AMCHITKA ISLAND
Scale 1:20,000	Date of surveyJune - Aug. 1945
Instructions dated	3 February 1938
Vessel	Ship SURVEYOR and Launch No. 2
Chief of party	C. D. Meaney
Surveyed by	C. D. Meaney and W. R. Porter
Soundings taken by fathon	neter, graphic recorder, hand lead, wire Graphic Recorder
Protracted by	
	Roy M. Sylar
	from at Million MLLW
REMARKS:	
Smooth Sheet a	nd Plotting by the Seattle Processing Office.
.,	

DESCRIPTIVE REPORT

To ACCOMPANY HYDROGRAPHIC SURVEY H-1941 (SU-2145)

SOUTH COAST AMCHITKA ISLAND, ALEUTIAN ISIANDS

1945 C.S. 218

sdgs of 1945 work plotted on H-7889& H-7740

Scale:

1/20000

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

Field work by: C.D. Meaney and W.R. Porter.

A. PROJECT:

This 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, 28 May and 11 July, 1945. The purpose of the survey was to extend survey H-7040 offshore and to the eastward and also to furnish hydrographic information to the U.S. Navy engaged in operations to salvage an Army tug stranded on the beach to the westward of East Cape.

B. SURVEY LIMITS AND DATES:

This is an incompleted scheet and consists of parts of three days of ship hydrography and a half day of launch hydrography south and adjacent to work completed on sheet H-7040. The sheet will cover sags, transferm the offshore approaches to the anchorage at South Bight, Amchitka. The work was accomplished June 26, Aug. 5 and 6, 1945

Register No. H-7041(50-214) Cancelledand to seets

C. VESSELS AND EQUIPMENT:

The SURVEYOR and Launch No. 2 were used for this work. The launch based from the ship. The ship obtained all depths by the Dorsey III fathometer (No. 42), Type 808 recorder No. 46 was also operated to verify ship soundings. Type 808 recorder No. 59 was used in Launch No. 2.

TIDE AND CURRENT STATIONS:

All tide data for reducers was obtained from the portable automatic tide gage at South Bight or from the standard tide gage at Constantine Harbor by applying a range and time correction obtained from the Washington Office.

No current stations were occupied.

sdgs from SU-2145 transferred as follows:1-6A & 10-30A(green) to H-7740(1949);
a, B&C(blue) to H-7889(1950).

E. SMOOTH SHEET:

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

F. CONTROL STATIONS:

Previous triangulation on Amohitka before 1945, additional triangulation executed in 1945 supplemented by signals located by topography on T-6989 and T-6990 were used for control.

G. SHORELINE AND TOPOGRAPHY:

To be obtained from air photographs.

H. SOUNDING:

Standard methods were used to obtain all depths.

I. CONTROL OF HYDROGRAPHY:

All sounding lines retained were controlled by sextant fixes on shore signals. Several of these signals were temporarily located by sextant cuts; later their final position was obtained by topography. A few uncontrolled lines were run by Launch No. 2 thru the kelp bed off the stranded Army tug to aid in salvage operations. These have been rejected as lack of signals and thick fog prevented definite control. The lines were run by compass courses between the stranded tug and a vessel at anchor outside the kelp field.

J. ADEQUACY OF SURVEY:

This survey is not complete.

K. CROSSLINES:

Only a few crossings were obtained. These are satisfactory.

L & M. COMPARISON WITH PRIOR SURVEYS AND CHART:

Sufficient work on a similar scale had not been accomplished previously for comparison.

N. DANGERS AND SHOALS:

None.

O. COAST PILOT INFORMATION:

Submitted with sheet H-7040.

P. AIDS TO NAVIGATION:

None.

Q. LANDMARKS FOR CHARTS: Form 567 attached.

GEOGRAPHIC NAMES:

This data to be furnished by the Seattle Processing Office. '

S. SILTED AREAS:

None.

Z. TABULATION OF APPLICABLE DATA:

Triangulation

- Forwarded Sept. 19, 1945 (Washington)

Coast Pilot Report - Forwarded (Washington)

Velecity Corrections - Forwarded Processing Office

Topographic Sheets - Forwarded Processing Office.

Respectfully submitted,

WILBUR R. PORTER

Lt. Comdr., C. & G. Survey

Approved:

C.D. MEANEY (

Lt. Comdr., C. & G. Survey

Commanding Ship SURVEYOR

Jdq. records, fathograms and Desc. Rpt. filed with H-7889

H 7889 H -7740 STATISTICS FOR HYDROGRAPHIC SURVEY H-7041 (SU-2145)

c	L	2	_
2	n	.1	D

Day:	Date	Vol. No.	No. Pos.	No. Stat. Miles
A	6/26/45	1	78	39.1
В	8/5/45	ī	29	9.9
B C	6/26/45 8/5/45 8/16/45	ī	9	3.6
		Launc	h No. 2	
8.	8/6/45	2	54	9.7
	TOTAL		170	62.5

Area Approx. 10 sq. miles.

Portable automatic gage at South Bight

Lat. 51° 22.7'N Long. 179° 22.9'E

Zero of staff is 4.9 below M.L.L.W.

Standard Automatic Tide gage at Constantine Harbor established June 30, 1945.

Lat. 51° 29' 49"N Long. 179° 17' 48"E

Zero of staff is 6.9 feet below M.L.L.W.

Standard Automatic tide gage at Constantine Harbor to June 30.

Lat. 51° 24.8'N Long. 179° 17.7'E

The zero of the tide staff was 5.0 feet below M.L.L.W.

Range - 1.3

Time - -30 minutes, from Constantine Harbor.

FATHOMETER CORRECTIONS

Launches 2 & 4
Corrections for Sheets H-7007, (H-7040 (SU-1145) & H-7042 (SU-1245)

9.1 20.0 -0.2 13.7 20.0 -0.2		I			1	1	Part 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	1
Depth Corrections Ch. jk 2.0 9.0 fms. 0.0 fms. 0.0 fms. 13.7 20.0 -0.2		Fathomet	er No.52			Fathome	er No. 5	9
9.1 20.0 -0.2 13.7 20.0 -0.2 & S. 20.0 28.7 -0.4 28.8 37.5 -0.6 37.5 46.2 -0.8 46.3 55.0 -1.0 48.0 56.4 -1.0 55.1 63.5 -1.2 65.6 72.2 -1.4 72.3 80.8 -1.6 80.9 89.8 -1.8 89.9 98.4 -2.0 98.5 101.0 -2.2 101.1 124.0 -2.5 Comp. by R.#.B.		Dep	th	Correctio		1	i	1
28.8 37.5 -0.6 37.6 46.2 -0.8 46.3 55.0 -1.0 55.1 63.5 -1.2 65.1 73.9 -1.4 72.3 80.8 -1.6 80.9 89.8 -1.8 89.9 98.4 -2.0 98.5 101.0 -2.2 101.1 124.0 -2.5 Comp. by R.#.B.	ir Ch. sk	1		1	ms.	i	1	1 1
37.6 46.2 -0.8 46.3 55.0 -1.0 55.1 63.5 -1.2 56.5 65.0 56.4 -1.0 56.4 72.2 -1.4 72.3 80.8 -1.6 80.9 89.8 -1.8 89.9 98.4 -2.0 98.5 101.0 -2.2 101.1 124.0 -2.5	. & S.	20.0	28.7	-0.4			ì	!
46.3 55.0 -1.0		11	ł	i		i	1	1 1
55.1 63.5 -1.2 63.6 72.2 -1.4 73.9 -1.4 72.3 80.8 -1.8 89.9 98.4 -2.0 98.5 101.0 -2.2 101.1 124.0 -2.5 56.5 65.0 99.9 101.0 -2.2 101.1 125 -2.5			i	1		i	1	•
63.6 72.2 -1.4 65.1 73.9 -1.4 74.0 82.2 -1.6 82.3 91.2 -1.8 99.9 98.5 101.0 -2.2 101.1 124.0 -2.5 101.1 125 -2.5		11	•	!		1	•	!
72.3 80.8 -1.6 82.3 91.2 -1.6 82.9 98.5 101.0 -2.2 101.1 124.0 -2.5 74.0 82.2 -1.6 82.3 91.2 -1.8 99.5 101.0 -2.2 101.1 124.0 -2.5			I	i .			1	1 1
80.9 89.8 -1.8 89.9 98.4 -2.0 98.5 101.0 -2.2 101.1 124.0 -2.5							}	1
89.9 98.4 -2.0 91.3 99.8 -2.0 99.9 101.0 -2.2 101.1 125 -2.5		· ·	1	1		i i	•	i i
98.5 101.0 -2.2 101.1 125 -2.5 101.1 125 Comp. by R.H.B.		1.	1	i		1	1	1
101.1 124.0 -2.5 101.1 125 -2.5 Comp. by R.#.B.		1.	1	1			!	1 !
Comp. by R.H.B.			1	1		l l	1	1
							1	
	~	- 50				Co	mn. by R.	HaBa
	* .							
		i).				1	1	1

VELOCITY CORRECTIONS

(Attached)

VELOCITY CORRECTIONS

Ship SURVEYOR Dorsey III & 808 Fathometers

Sheets H-7047 (SU-2145); H-7040 (SU-1145); H-7042 (SU-1245)
7889
7740
Amchitka Id.

	774 ⁰			mchitka I	Ld.				
	DEP From	TH To	Fms. Correction	ns		Andrein date er er	ite. I bit tuke ta tet et	isustini la uz usul	
#	. T. T. YET			The residence of the second seco	The Last Control of the Control of t	THE RESERVE AND THE PROPERTY OF THE PROPERTY O	An the stylen at A.	n tens verten f	
		13.0	-0.2						
ľ	13.1	21.6	-0.4						
	21.7	30.5	-0.6						
	30.6	39.2	-0.8						
ij	39.3	47.8	-1.0						
	47.9	56.5	-1.2						
- 1	56.6	65.2	-1.4						
1	65.3	73.8	-1.6						
1	73.9	82.5	-1.8						
	82.6	91.0	-2.0						
	91.1	10¥.0	-2.2						
	100.1	117.0	-2.5						
	117.1	139.5	-3.0						
	139.6	162.5	-3. 5						
	162.6	185.5	-4.0			·			
***			Corred	tions R.	.A. Mode	N-M-C-			
i			001.00	02020					
1		No corre	otion 2 -	200 fati	oms for	Red light			
		+ 2.2	fathoms fo	r N.M.C.	Recorder	(Index)			
		Correct	ions for R	ecorder l	0. 46 fr	om the abo	ve table.		
						į			
							<u> </u>		
							-		
1									
ij	•						_		
- 1							Comp. V	1	
							hecked	K.B.J.	
i					-	ł			

LIST OF STAIONS ON SHEET H-4941

NAME

ORIGIN

ARMS			Triangulation
BAKE	(Control	Tower)	11
ВОВ	(00220202		tt
CHUCK	ζ		n
HIM (HIM 2)	•	!!
Kof	• •	,	T-6989
Lad	,		* -T=6990
MIST			Triangulàtion
Ned			T-6989
Nip			T-6989
Pod			T=6990
Rek	(Wreck)		T -6990
Rok	(Rock)		Sextant cuts Vols. 1 & 2.
			* Not registered - See T-8016

Form 567 Rev. March 1935

DEPARTMENT OF COMMERCE U. S. COAST AND GEODETIC SURVEY

LANDMARKS FOR CHARTS

TO BE CHARTED STRIKE OUT ONE

Section |

been inspected from seaward to determine their value as landmarks, be I recommend that the following objects which have 🖪 charted on (deleted from) the charts indicated.

The positions given have been checked after listing.

					.d0	MEANY			Chie	Chief of Party.
GENERAL			POSITION					13	тял	
	LA	LATITUDE	LONG	LONGITUDE		METHOD	DATE	CHAR	RE CH V	STA A HO
NAME AND DESCRIPTION	0	D. M. METERS	0	D. P. METERS	DATUM	LOCATION	LOCATION		01151	AFFECTED
MIST 1966 30 feet highways	25 25	100	170 52		The last	1	876		10	
North Radio Tower	51 as	200		39		- 1				
Back Radio Town	51 23	52	279 88	8683	*		*		+	Ale
South Radio Tomer	81 83	6063	170 20	23	•					rutie
Centeral Radio Somer H-7889	61 23	1769	179 20	203	*	*	*		+	n
West Radio Town	20 10	669	170 20		*		•		-	len
SILO 1945 (Silo-like structure 30 feet high)	61 28	14808		878	£	*			-	d a
Elgbest Rader Town	23	14861	179 18	200	a	*				
Main Mangar, Saler Burney	22 23	16063	1	8003	E	7	*			
Redar Tent (rank on steel H-7884 francusz)	61 21	930R	179 13	343			æ			
TOWER 1944, Oglings	61.36	14153	178 50	88	£	: : : : :	1024			
Vacation - Tower - Dakes National	51 23	91.72	179 15	897 2	t	#		: =:	- -	
Control Tower - Charite Current	61 22	16193	179 18	469%	· · · · · · · · · · · · · · · · · · ·	2			7	As romante la
A STATE OF THE STA					100				•	

This form should be proported in accordance with 1934 Field Memorandum, "LANDMARKS COR LIARTS." The data should be considered for the charts of the area and not by individual field survey sheets. Information under each column heading should be given.

U. S. GOVERNMENT PRINTING OFFICE

Form 567 Rev. March 1935

DEPARTMENT OF COMMERCE

U. S. COAST AND GEODETIC SURVEY

Saattle, Mahington

TOBETOTIE STRIKE OUT ONE

TO BE CHARTED

LANDMARKS FOR CHARTS 4 - 7740

I recommend that the following objects which have (the contract that the following objects which have the contract to determine their value as landmarks, be The positions given have been checked after listing. charted on (deleted from) the charts indicated.

						C.D. EXAMEY	UEY	Ch	Chief of Party.	;; ;;
GENERAL LOCALITY			POSITION	7				19 A		
	LATI	LATITUDE	LOP	LONGITUDE		METHOD OF	DATE	OR CH	CHARTS	άÖ
NAME AND DESCRIPTION	0	D. M. METERS	-	D. P. METERS	DATUM			HSNI		
Sadar Power, Tenges Selend)	3	19	178 06	200	Kraleska	77	1946			
Front Range, Constantine Surbor	51 23	form	179 1	36 900	*	*	*		Alm	
Seer Bengs, *	S3 13	1076	24	25 T22T		*	85		rtlan	
Ber Bene Lange, " .	53 23	27	170 1	16 572£	100	*	*		In	
				1					landi	
									3	
				-						
									union de d'Albatelle Me	
										:
										l i
									-	

This form—all be prepared in accordance with 1934 Field Memorandum, "LANDMARKS . C. CHARTS." The data should be considered for the charts of the area and not by individual field survey sheets. Information under each column heading should be given.

U. S. GOVERNMENT PRINTING OFFICE

H-7889 H-7740 H-7041 (SU 2145)

South Coast Amchitka Island Seattle Processing Office Notes

Datum-

Unalaska.

Shoreline-

No shoreline and no aerial photographs are available. The shoreline is to come from air photos per page 2 of the report by the field party. Shoreline subsequently compifed on T-SS99 and T-S600(1950)

Unfinished Sheet-

As work is barely started on this sheet, it is presumed that the sheet will be returned to the Seattle Processing Office for further plotting when the work is available. The boat sheet is retained for use by the field party during the coming season. Surrey Combined with H-7889 (1950) and H-7740 (1949)

Rejected work-

The party made an investigation between signal WRECK (mast of wrecked ship) and the sounded area to provide information for salvaging operations. This area is 5 to 9 fms. deep. It was rejected on account of uncertain control. The area is about the size of a half dollar.

15 Fm. Bank-

The 15.5 fm. sounding at Latitude 51° 2015 Longitude 179° 2212 "
is supported by development on H-7040. That sheet has not been processed.
The man sheet shows a sounding of 15 fms. yery close to the sounding on H-2014. There is a sounding of 14 fms. That 51° 201459 Long. 179° 21175 on H-7040.

The 15.5 fm. sounding has not been plotted on 4-7040, as the area in which it falls is considered adequately developed on 4-7040.

Respectfully submitted,

Edgar E. Smith Cartographic Engineer Seattle Processing Office .

Approved and Forwarded,

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

	GEOGRAPHIC NAMES Survey No. H-7889			Sur	et stran			O'N	nac /sly	ilos Lie	
·	Survey No. 11 7007	6	Ho. Ou	denois and	of diagram	or local stor	Or oci noci	O Guide of W	and McHally	7.5. light lie	//
٠,	Name on Survey	<u> </u>	В	<u>/c</u>	/ D	E	F	<u> </u>	/ H	<u>/ K</u>	
	Alaska			(for	40	(16)					<u>``1</u>
	Aleutian Island	s ·			N.				·		2
e e	Pacific Ocean										3
	Amchitka Islan) -								1864y	4
	Kirilof Point									u	5
	Constantine Ha	~ bur				1				31	6
	East Cape			:.						u	7
	Sea Offer Roc	K .									8
	Amchitka Pass									B6-X	9
٤	Omega Point	·									10
	South Bight								,		11
\$ "	Vakin Point										12
									**.•		13
	:	·		÷							14
					Yam	7 .	inder		į.	161	15
						ap,		L. t	9-12 tech	1	16
-							ļ				17
	Kirilat Whart	-	(1	Jant	ion	1 70	- de a	496			18
									,	,	19
			`	ļ							20
	`			ļ		<u> </u>					21
•							ļ				22
							,				23
											24
	,						,				25
											26
											27
	and the second of the second o]	M 234

Hydrographic Surveys (Chart Division)

HYDROGRAPHIC SURVEY NO. H-7889.

Records accompanying survey:		
- · · · · · · · · · · · · · · · · · · ·		
Boat sheets; sounding vols; v	vire dra	g vols;
bomb vols; graphic recorder rolls	2 env.,	
special reports, etc ! Smooth Sheet; ! Des	criptive	Report ;
••••••••	• • • • • • •	• • • • • • • • • • • •
The following statistics will be submitted was rapher's report on the sheet:	th the	cartog-
Number of positions on sheet		1,327
Number of positions checked		82.
Number of positions revised		4
Number of soundings revised (refers to depth only)		7.
Number of soundings erroneously spaced		0
Number of signals erroneously plotted or transferred		1.
Topographic details	Time	8.
Junctions	Time	. 20
Verification of soundings from graphic record	Time	35
Verification by Wellin Verification S. Reserotal time	68	Date 9-6-5-
Reviewed by	24	Date 2-/3-53 3-/0-54
Verification Campleted by S. Rose, Feb. 16	1954	160 Harres
Total Venification 68+20+169+1	, '/U 7, 3 4 4 4 4	And Hours

M-2232-1

DIVISION OF CHARTS

REVIEW SECTION - NAUTICAL CHART BRANCH

REVIEW OF HYDROGRAPHIC SURVEY .

REGISTRY NO. H-7889

FIELD NO. SU-2145 EX- 2250

Alaska - Aleutian Islands, Rat Island, East End of Amchitka Island

Project CS-218

Surveyed June - Aug. 1945 and May - June, 1950

Scale 1:20,000

Soundings:

Control:

808 Fathometer

Visual fixes on shore signals

Chief of Party - H. A. Karo, C. D. Meaney
Surveyed by - C. D. Meaney, W. R. Porter, M. A. Hecht, R. H. Tryon
Protracted by - H. C. Parsons
Soundings plotted by - H. C. Parsons
Verified and inked by - E. G. Yearley, S. Rose
Reviewed by - I. M. Zeskind
Inspected by - R. H. Carstens

1. Shoreline and Control

The shoreline originates with air-photographic surveys T-5599 and T-5600 of 1950.

The source of the control is given in the Descriptive Report.

2. Sounding Line Crossings

Depths at crossings are in adequate agreement.

3. Depth Curves and Bottom Configuration

The usual depth curves were adequately delineated except in depths less than 10-fms. where the foul character of the bottom and heavy kelp prevented development to the low water line.

The bottom is very irregular in depths less than 30-fms., and is generally smooth in greater depths. Dangerous detached shoals lie $1-l\frac{1}{2}$ miles offshore from the east end of Amchitka Island.

4. Junctions with Contemporary Surveys

Adequate junctions were effected on the northwest with H-7042 (1945), H-7739 (1949) and H-7007 (1944-45), and on the southwest with H-7040 (1945). The junction with H-7890 (1950) on the east will be considered in the review of that survey.

5. Comparison with Prior Surveys

H-6906 (1935) U.S.N 1:150,000

The present survey falls within the limits of this small-scale U. S. Navy reconnaissance survey. A comparison between the present survey and the few sounding lines controlled by dead reckoning on this prior survey reveals nothing of cartographic importance.

The present survey is adequate to supersede the prior survey within the common area.

6. Comparison with Chart 8863 (Latest print date 1/14/52)
Chart 8864 (Latest print date 9/29/52)
Chart 9123 (Latest print date 10/6/52)

A. Hydrography

The charted hydrography originates principally with the previously discussed prior survey, with a compilation from advance information of H-7007 (1944) shown on Bp 39015 and with several soundings in the vicinity of Sea Otter Rock from the present survey prior to verification and review. Except as mentioned below unimportant differences of 1-2 fms. were noted.

The 1-fm. sounding charted in lat. 51°21.6', long. 179° 30.1', originates with the present survey prior to verification. The least depth on this shoal was revised to 2.4 fms. during verification and review.

The present survey supersedes the charted hydrography within the common area.

B. Aids to Navigation

Minor discrepancies between the charted and present survey positions of buoys are noted, as for example, Buoy N-2 charted in lat. 51°25.05', long. 179°20.03', falls about 80 meters northward on the present survey.

The charted positions adequately mark the features intended. No new features were revealed which might require marking.

7. Condition of Survey

- The sounding records and Descriptive Report are complete and comprehensive.
- b. The smooth plotting was accurately done.
- c. Shoran fixes as originally recorded were frequently erroneous as evidenced by discrepancies between sounding lines controlled by visual fixes and sounding lines controlled by shoran. Discrepancies in distances to inshore features from the ends of sounding lines controlled by shoran were also noted. No excessive weaknesses were found in the positions of the visually controlled hydro-To rectify these discrepancies the processing office has adjusted the shoran controlled lines to agree with the visually controlled hydrography by applying corrections to shoran distances. This adjustment has eliminated the more serious discrepancies at crossings. However, during verification, it was necessary to make additional adjustments in the position of the sounding lines to eliminate other apparent discrepancies in sounding line crossings on the smooth sheet.

8. Compliance with Project Instructions

The present survey adequately complies with the Project Instructions.

9. Additional Field Work Recommended

This is an adequate basic survey of the area and no additional field work is recommended.

Examined and approved:

H. R. Edmonston

Chief, Nautical Chart Branch

H. Arnold Karo Chief, Division of Charts

Chief, Section of Hydrography

Earl O. Heaton Chief, Division of Coastal Surveys Form 712
DEPARTMENT OF COMMERCE
COAST AND GEODETIC SURVEY
Rev. June 1937

TIDE NOTE FOR HYDROGRAPHIC SHEET

April 25, 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

/-1940 Mitantative (S-2393)

Locality South Coast of Amchitka Island, Aleutian Is., Alaska

Chief of Party: C. D. Meaney in 1945
Plane of reference is mean lower low water, reading
4.3 ft. on tide staff at South Bight
17.5 ft. below B. M. 1

Height of mean high water above plane of reference is 3.5 feet.

Condition of records satisfactory except as noted below:

Chief, Division of Tides and Currents.

. соуванивит разитис огрзсв 15482

TIDE NOTE FOR HYDROGRAPHIC SHEET

12 September 1951

Division of Charts:

R. H. Carstens

Plane of reference approved in 6 volumes of sounding records for

HYDROGRAPHIC SHEET

7889

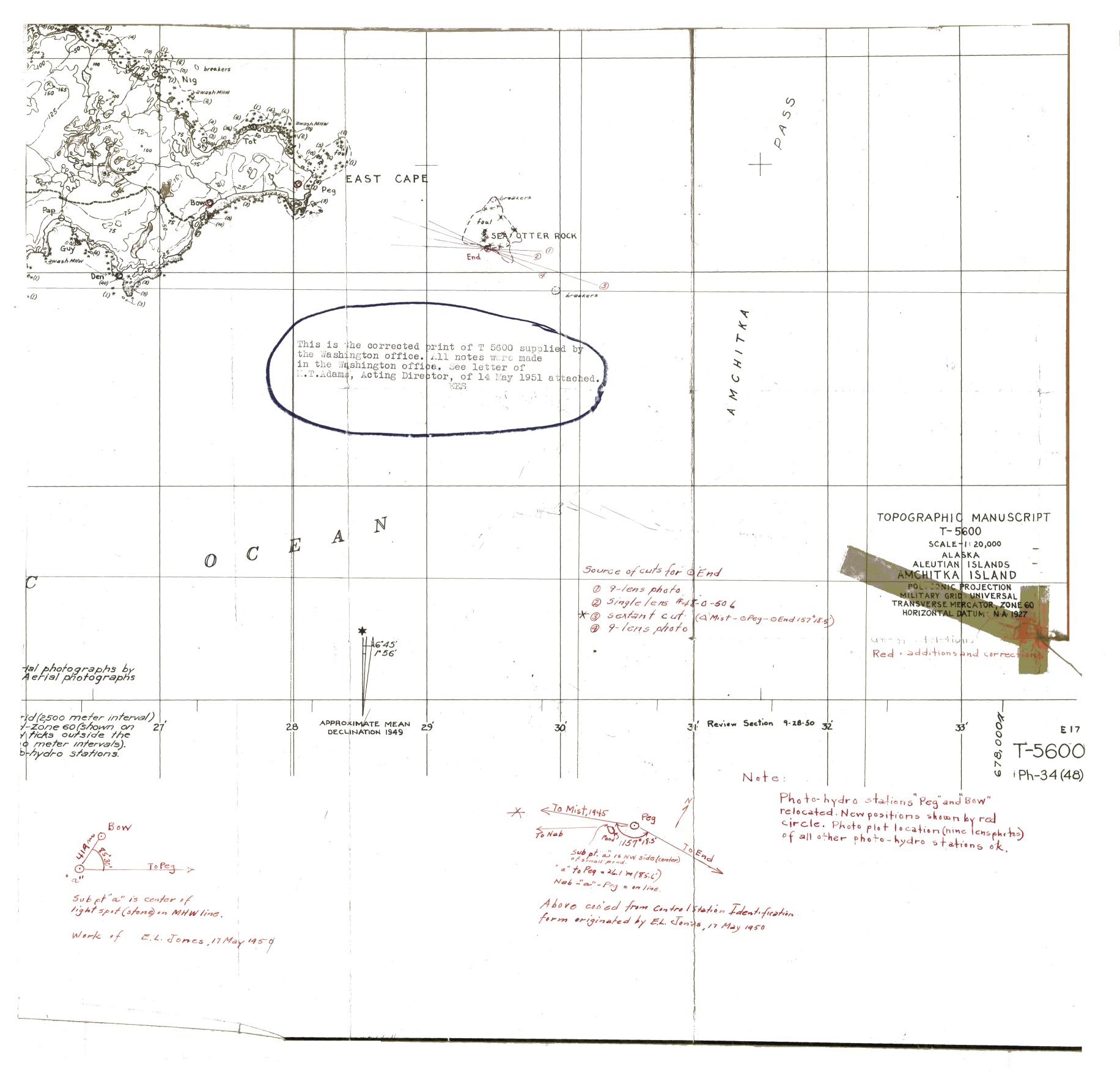
Locality Amchitka Island, Aleutian Islands

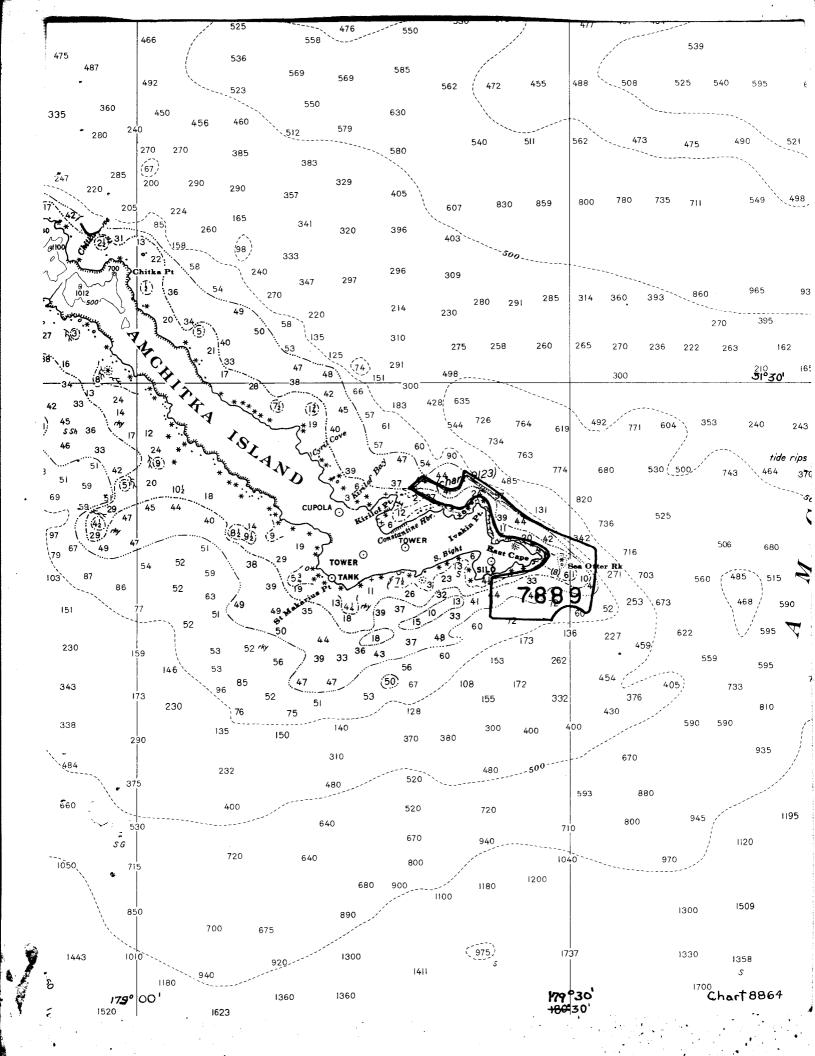
Chief of Party: H. A. Karo in 1950
Plane of reference is mean lower low water, reading
2.5 ft. on tide staff at Constantine Harbor
9.9 ft. below B. M. 1 (1944)

Height of mean high water above plane of reference is 2.8 feet.

Condition of records satisfactory except as noted below:

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





NAUTICAL CHARTS BRANCH

SURVEY NO. H-7889

Record of Application to Charts

DATE	CHART	CARTOGRAPHER	REMARKS
2/29/52	8864	S.G. Mc Jam	Before After Verification and Review
			Examined only-added be other Rk.
TAN 1993	16450	Dow Cotto	Before After Verification and Review Tully appl
			New Metric Chart
			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
			•
	-		
			W 2169.1

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.

NAUTICAL CHARTS BRANCH

7740 SURVEY NO. N. 7044

Record of Application to Charts

DATE	CHART	CARTOGRAPHER	REMARKS
6/25/51	8863	Ricegari	Before After Verification and Review Cartelly apple
3/28/56	8863	Stegman	Before After Verification and Review Cauffelly applied
5/24/57	9/02	Wittmann	Refer
11/61	8864	ME	After Verification and Review
01 /93	16450	Om Contto	Before After Verification and Review Fully applied New metric Chart
			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.