

6256

U. S. COAST & GEODETIC SURVEY
LIBRARY AND ARCHIVES

MAR 14 1938

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~~CONFIDENTIAL~~

6256
8902-2

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

DESCRIPTIVE REPORT

~~Topographic~~ } Sheet No. U 2536
~~Hydrographic~~ }

DECLASSIFIED BY NOAA
PURSUANT TO DOC SYSTEMATIC REVIEW
GUIDELINES AS DESCRIBED IN SECTION
3.3(a), EXECUTIVE ORDER 12356.

State Aleutian Islands
~~ALASKA~~

LOCALITY
Umnak Island
~~Aleutian Islands~~
Cape Idak to Cape Tanak
~~Cape Idak, Umnak Island~~

193 6-7

CHIEF OF PARTY

A.M. Sobieralski, Commanding Officer,
U.S.C. & G.S. Ship SURVEYOR

U. S. GOVERNMENT PRINTING OFFICE

6256

~~CONFIDENTIAL~~

DEPARTMENT OF COMMERCE
U. S. COAST AND GEODETIC SURVEY

REG. NO.

HYDROGRAPHIC TITLE SHEET

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

Field No. U. 2536

Lia. 8802-2

REGISTER NO. ⁶²⁵⁶
~~H-6266~~

GRM
10/25/00

State ~~Alaska~~ Aleutian Islands

General locality ~~Aleutian Islands~~ Umnak Island

Locality Cape Idak, Umnak Island to Cape Tanak

Sept., 1936

Scale 1 : 20000 Date of survey June - Sept., 1937

Vessel U.S.C. & G.S.S. SURVEYOR & Launches

Chief of Party A. M. Sobieralski

Surveyed by A.M.S.; G.L.B.; I.T.S.; C.J.W.

Protracted by Ira T. Sanders

Soundings penciled by W. F. Deane

Soundings in fathoms ~~feet~~

Plane of reference MLLW

Subdivision of wire dragged areas by

Inked by

Verified by

Instructions dated April 13, 1934

Remarks:

DESCRIPTIVE REPORT

to accompany

HYDROGRAPHIC SHEET FIELD No. U 2536

U.S.C.&G.S.S. SURVEYOR & Launches

A. M. Sobieralski, H.&G. Engr., Commanding

PROJECT HT 176

NORTHEAST COAST, UMNAK ISLAND,

ALEUTIAN ISLANDS, ALASKA

Scale 1 : 20,000

This survey was made under the authority of the Director's ✓
Instructions to the Commanding Officer, of the U.S.C.&G.S.S.
SURVEYOR, dated April 13, 1934.

SURVEY METHODS:

The positions of all soundings on this sheet were determined ✓
by sextant fixes on objects or signals ashore. All signals were
located by plane table or theodolite in accordance with standard
practice

Depths were determined by fathometer, wire or hand lead. On
the SURVEYOR fathometer No. 1, Type 312, Serial No. 312 104 AB was
used. All fathometer soundings were corrected for temperature,
salinity, index etc., in accordance with the Hydrographic Manual
and Field Memorandum, No. 3, dated June 11, 1936. These corrections
were computed as set forth in Fathometer Reports for the years 1936
and 1937. Copies of the corrections are attached to the front
of Volume 1, this sheet. It will be noted that for the 1937 work ✓
on this sheet index corrections were not necessary, as the draft
setting was kept properly adjusted.

DISCREPANCIES:

There is no general cross line system on this sheet. However, ✓
where crossings occur the soundings are in good agreement, except
as follows: Lat. 53 - 32.8, Long. 167 - 49.5; a 148 fathom sound-
ing falls between 135 and 140 fathoms. Lat. 53 - 33.1, Long. *irregular bottom*
167 - 49.5; a 185 fathom sounding falls just off the line between *and steep slopes.*
143 & 151 fathoms. These crossings are poor, but the discrepancies
are probably due to the steep slopes in this area. The junction
with Sheet 2535 (Discoverer) on the west is satisfactory.

DANGERS:

No offshore dangers were discovered. It will be noted, how- ✓
ever, that there are areas along that stretch of coast between
Triangulation Stations KADI & GREEN where shoal soundings occur
offshore with deeper water closer in. This is due to sand ridges
formed by the backwash from heavy surf along this area.

CHANNELS:

There are no channels on this sheet. ✓

ANCHORAGES:

During the seasons of 1936 and 1937 the SURVEYOR anchored off the small semi-circular bight southeast of Triangulation station TEXAS. The anchorage was about one (1) mile off shore in 10-12 fathoms, sand bottom. This anchorage afforded protection only from southerly and westerly weather. No other anchorages are available on this sheet. ✓

COMPARISON WITH PREVIOUS SURVEYS:

There are no previous surveys by this Bureau in the area covered by this sheet. ✓

GEOGRAPHIC NAMES: / GHE

There are no new geographic names in the area covered by this sheet.

Respectfully submitted

Ira T. Sanders
IRA T. SANDERS, Jr. H. & G. Engr.
U.S.C. & G.S.S. SURVEYOR

Approved & Forwarded

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

STATISTICS

to accompany

HYDROGRAPHIC SHEET FIELD No. U 2536

| <u>Date</u> | <u>Day</u> | <u>Vol.</u> | <u>No. pos.</u> | <u>No. Soundings</u> | <u>Statute Miles</u> |
|-------------------------------|------------|-------------|-----------------|----------------------|----------------------|
| <u>SURVEYOR</u> | | | | | |
| / 9-26-36 | A | 1 | 87 | 438 | 41.2 |
| / 6-17-37 | B | 1 | 138 | 703 | 73.0 |
| / 9-12-37 | C | 1 | 64 | 261 | 18.5 |
| X 9-12-37 | H | 1 | 10 | 55 | 3.5 |
| <u>M. S. & Lch. No. 4</u> | | | | | |
| X 9-26-36 | b | 2 | 110 | 262 | 15.0 |
| / 7-12-37 | c | 2 | 26 | 46 | 2.8 |
| / 7-13-37 | d | 2-3 | 122 | 352 | 22.2 |
| <u>Lch. No. 3</u> | | | | | |
| / 9-18-36 | a | 4 | 106 | 314 | 16.0 |
| X 9-26-36 | b | 4 | 171 | 680 | 39.6 |
| Totals | | | 834 | 3111 | 231.8 |

Area in Square Statute Miles = 37.5

LIST OF SIGNALS

to accompany

HYDROGRAPHIC SHEET FIELD No. U 2536

TRIANGULATION LOCATIONS:

| | |
|-------|--------|
| PASS | 1935-6 |
| IDAK | 1935-6 |
| TRY | 1936 |
| KADI | 1936 |
| GREEN | 1935-6 |
| TEXAS | 1936 |
| TANAK | 1935-6 |
| TRIP | 1936 |

TOPOGRAPHIC LOCATIONS:

Topo. Sheet Field Letter N-35
(Discoverer)

| | | | |
|-----|-----|-----|-----|
| Pig | Mat | Gas | Dot |
| Cub | See | How | Pac |
| Zip | Yel | Red | Pil |
| Kid | Jap | Did | |

TOPOGRAPHIC LOCATIONS:

Topo. Sheet Field Letter UJ36

| | | | |
|-----|------|------|------|
| Ho | Fum | Fo | Liz |
| Sil | Sam | Pot | Vol |
| Zak | Tuts | Mal | Gat |
| Sex | Pea | Eye | Gut |
| Al | Sob | Lit | Big |
| Dem | Blu | Tit | Wax |
| Toy | Jun | May | Rosy |
| Eve | Pat | Go | Ben |
| Nub | Dad | Sue | Dust |
| San | Log | Good | Ver |
| Sit | Izy | Dol | Cap |
| Lip | Zim | Doc | Bla |
| Not | Can | Do | |

APPROVAL SHEET

to accompany

HYDROGRAPHIC SHEET FIELD No. U 2536

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

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

Lac

TIDE NOTE FOR HYDROGRAPHIC SHEET

March 24, 1938.

Division of Hydrography and Topography:

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

Plane of reference
~~Tide Reductions~~ approved in
4 volumes of sounding records for

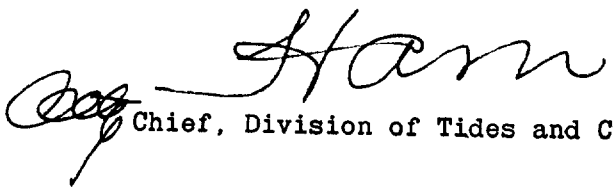
HYDROGRAPHIC SHEET 6256

Locality Cape Idak to Cape Tanak, Umnak Island, Aleutian Islands.

Chief of Party: A. M. Sobieralski in 1936 & 1937
Plane of reference is mean lower low water reading
3.3 ft. on tide staff at Chernofski Harbor (off limit of # 6256)
8.8 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:


Chief, Division of Tides and Currents.

GEOGRAPHIC NAMES
 Survey No. **H6256**

| Name on Survey | 8802 | | | | | | | | | |
|---------------------|-----------------|---------------------------|-----------------------------|---------------------------|------------------|-----------------------|-----------------------|---------------------|--|----|
| | 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 | | |
| <u>Bering Sea</u> | ✓ | | | | | | | | | 1 |
| <u>Cape Tanak</u> | ✓ | | | | | | | | | 2 |
| <u>Umnak Island</u> | ✓ | | | | | | | | | 3 |
| <u>Cape Idak</u> | ✓ | | | | | | | | | 4 |
| | | | | | | | | | | 5 |
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Names underlined in red approved
 by *[Signature]* on 4/21/38

Remarks

Decisions

| | Remarks | Decisions |
|----|---------|----------------------|
| 1 | | <i>USGB decision</i> |
| 2 | | <i>see H-6265</i> |
| 3 | | <i>USGB decision</i> |
| 4 | | <i>see H-6265</i> |
| 5 | | |
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Field Records Section (Charts)

HYDROGRAPHIC SHEET NO. **H6256**

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

| | |
|--|---------------|
| Number of positions on sheet | <i>.834.</i> |
| Number of positions checked | <i>...40.</i> |
| Number of positions revised | <i>....5.</i> |
| Number of soundings recorded | <i>.3111.</i> |
| Number of soundings revised | <i>...62</i> |
| Number of signals erroneously plotted or transferred | <i>None.</i> |

Date:

Verification by *H.F. Stegman*

Review by *Leo Braun*

Time: *9 days 5½ hrs. (68½ hr.)*

Time: *23 hours.*

HYDROGRAPHIC SURVEY NO. H6256

Smooth Sheet Yes

Boat Sheet Two *PART OF WORK BY SURVEYOR ON H-6257 boat sheet.*

Records; Sounding 4 Vols., Wire Drag Vols., Bomb Vols.

Descriptive Report Yes

Title Sheet Yes

List of Signals Yes

Landmarks for Charts (Form 567) None

Statistics IN D.R.

Approved by Chief of Party Yes *not signed*

Recoverable Station Cards (Form 524) None

Special Chart for Lighthouse Service None
(Circular Nov.30, 1933)

Hydrography: Total Days 6 ; Last Date September 12, 1937

Remarks _____

MEMORANDUM

IMMEDIATE ATTENTION

SURVEY
 DESCRIPTIVE REPORT } No. H -6256
~~PHOTOSTAT OF~~ } ~~NO. H -6256~~

{ received Mar. 14, 1938
 registered Mar. 19, 1938
 verified
 reviewed
 approved

This is forwarded in order that your attention may be directed to the matters as indicated below. Please initial in column 3 as an acknowledgement that your attention has been thus directed. The complete original records are available if desired. If you cannot give this your immediate attention, please initial, note, and forward to the next section marked, calling for the records at your convenience.

| ROUTE | | Initial | Attention called to |
|-------|--|---------|---------------------|
| 20 | | | |
| 22 | | | |
| 24 | | | |
| 25 | | | |
| 26 | | | |
| 30 | | | |
| 40 | | | |
| 62 | | | |
| 63 | | | |
| 82 | | | |
| 83 | | | |
| 88 | | | |
| 90 | | | |
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RETURN TO

| | |
|----|------------|
| 82 | T. B. Reed |
|----|------------|



1.

VERIFIER'S REPORT
HYDROGRAPHIC SURVEY
H-6256 (1936-7)

SURVEYED IN: Sept. 1936, June - Sept. 1937 ✓

CHIEF OF PARTY: A. M. Sobieralski

SURVEYED BY: A. M. S. G. L. B., I. T. S., G. J. W.

PROTRACTED BY: I. T. Sanders

SOUNDINGS PLOTTED BY: W. F. Deane

VERIFIED AND INKED BY: H. F. Stegman

The records of this survey conform to the requirements of the general instructions except as follows:

1. The approval note in the descriptive report was not signed by the Chief of Party.

2. In the sounding record for the launch, Motor Sailer ✓ the day letter for "Cand d" days as shown on each page is in printed lower case (purple) where as the positions were inked to blue on the smooth sheet in blue. This was done to differentiate to conform them from those of the launch No. 3 for which a script to smooth sheet. ✓

3. Boat sheet plotting of the Ship Surveyor on "C" day ~~was not inked.~~ is included with smooth sheet Field No. 4336 (H-6257) ✓
See green note on page 4 of Vol. 1. H-6256.

4. No compass headings were recorded for the launch ✓ Motor Sailer. Some of the headings for launch No. 3 were also omitted.

L. S. S.

The 10, 20, 50, 100, and 200 fathom curves were completely ✓ drawn, and portions of the 1, 2, 3, and 5 fathom curves were also drawn.

The field plotting on smooth sheet was complete, and ✓ carefully and accurately done. Soundings in general were accurately placed between positions. It was necessary to correct them only where there was a change of course

between positions, or where soundings were taken at odd intervals. The latter was true of the poor crossing at Lat. $53^{\circ}33.1$ Long. $167^{\circ}49.5$, mentioned in the descriptive report. Correct plotting of the 185 fathom sounding corrected the discrepancy.

Two discrepancies not mentioned in the descriptive report were noted.

There is one of 15 fathoms at Lat. $53^{\circ}33.8$ Long. $167^{\circ}49.5$ crossing a study of the record failed to reveal any error here. There is a lack of parallelism between the three north-south courses here, which, although not in conformity with the compass heading, was probably caused by the opposite effect of the N.W. wind or current on the axis of the ship when running north, and when running south. satisfactory
very steep slope
L.S.S.

For the second discrepancy see page 3 of this report.

Topographic Sheet T-6550 (1936) which covers the entire shoreline of H-6256, was carefully compared to the Hydrographic sheet. The following discrepancies were noted:

The rock awash 30 meters east of signal Sex, Lat. $53^{\circ}30.26'$ Long. $167^{\circ}47.2$ on this sheet is shown as a sunken rock on the topo sheet. This rock is not mentioned in the sounding record, ~~but is shown on the boat sheet~~ ^{now} shown ^{on} H-6256 same as ^{on} T-6550.

The rock awash 100 meters N.E. of signal Do, Lat. $53^{\circ}32.9'$, Long. $167^{\circ}57.9$ shows as a bare rock 1 ft. above N.H.W. on the topo sheet. This rock is outside the limits of this hydrographic sheet, but was inked on the boat sheet and smooth sheet by the field party. ~~Removed~~ - details of shoreline to be shown on H-6277.

The sunken rock (150 meters S.E. of signal Doc) Lat. $53^{\circ}32.2'$ Long. $167^{\circ}57.4$ is shown as a rock awash on the topo sheet. This rock is not mentioned in sounding record, ~~but is inked on boat sheet~~. Now shown on H-6256 same as on T-6550

~~The height of the rock 80 meters S.S.E. of Sta. Gut, Lat. $53^{\circ}30.6$ Long. $167^{\circ}47.2$ was inked on the topo sheet as 3 feet above N.H.W., from information in the sounding record.~~

T-6550

The topographic sheet ^{T-6550} was the source of the low water [✓]
 line, ~~west of signal Dem lat. $53^{\circ}31.4'$ long. $167^{\circ}48.0'$~~ . The
 topographic sheet was also the source of control for the
 hydrographic survey. Control - T-6550 and T-6599.

No junctions were made with adjacent hydrographic
 sheets. H-6257 which joins this survey on the north and
 east, and H-6255 [✓] which joins it on the south had not yet
 been verified. The adjacent sheet on the west in the
 vicinity of Cape Tanak, is not yet in the office.

Respectfully submitted,

Harold T. Stigman

April 20, 1938

Note: In lat $53^{\circ}32.7'$ long $167^{\circ}49.5'$ A sounding of 108 fathoms [✓]
 falls between 89 and 101 fathoms soundings, and very close to
 the 101 depth.

Section of Field Records

REVIEW OF HYDROGRAPHIC SURVEY NO. 6256 (1936-37) FIELD NO. U2536

Cape Idak to Cape Tanak, Umanak Island, Aleutian Islands
Surveyed in 1936 and 1937, Scale 1:20,000
Instructions dated April 13, 1934 (SURVEYOR)

Hand Lead and Machine Soundings.
~~Machine~~ Fathometer Soundings.

3 Point fixes on shore signals.

Chief of Party - A. M. Sobieralski.
Surveyed by - G. L. Bean, I. T. Sanders, and C. J. Wagner.
Protracted by - I. T. Sanders.
Soundings plotted by - W. F. Deane.
Verified and inked by - H. F. Stegman.

1. Condition of Records.

The records are neat and legible and conform to the requirements of the Hydrographic Manual except that the descriptive report and approval sheet were not signed by the Chief of Party.

The Descriptive Report is brief but satisfactorily covers all items of importance.

2. Compliance with Instructions for the Project.

The plan, character and extent of the work satisfy the instructions for the project.

3. Shoreline and Signals.

The shoreline and signals are from planetable surveys T-6550 (1936) and T-6599 (1937).

4. Sounding Line Crossings.

Such cross lines as were run or result from the work are satisfactory.

5. Depth Curves.

Within the limits of the survey, the usual depth curves may be satisfactorily drawn including portions of the 5, 3, 2 and 1 fathom curves.

6. Junctions with Contemporary Surveys.

The junctions with H-6255 (1936-37) on the south, H-6257 (1936-37) on the northeast, and H-6277 (1935-36-37) on the west will be considered in the reviews of those surveys.

7. Comparison with Prior Surveys.

There are no prior hydrographic surveys by this Bureau covering the area of the present survey.

8. Comparison with Chart 8802 (New Print dated Dec. 13, 1937).

Within the area of the present survey, the chart contains no information which needs consideration in this review.

9. Field Plotting.

The field plotting was satisfactory.

10. Additional Field Work Recommended.

This survey is complete and no additional field work is required.

11. Superseded Old Surveys.

There are no prior surveys in this area.

12. Reviewed by - Leo S. Straw, June 21, 1938.

Inspected by - E. P. Ellis.

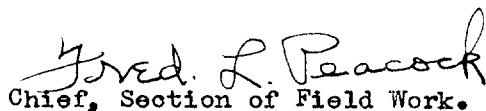
Examined and approved:



T. B. Reed,
Chief, Section of Field Records.



K.T. Adams
Chief, Division of Charts.



Fred. L. Peacock
Chief, Section of Field Work.



Chief, Division of H. & T.

Applied to Chart Comp. 9021 Dec. 1938. E. Piccini
" " " " 8861 Jan 1942 J. Walby

6256 (Additional work 1938)

U. S. COAST & GEODETIC SURVEY
LIBRARY AND ARCHIVES

JAN 7 1939

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Form 504
Ed. June, 1928

DEPARTMENT OF COMMERCE
U. S. COAST AND GEODETIC SURVEY
L. C. Colbert, Director

State: Alaskan Is.
ALASKA

DESCRIPTIVE REPORT

Topographic } Sheet No. 6256
Hydrographic } Field No. U 2536

LOCALITY
Umnak Pass Island
CAPE IDAK to Cape Tanak

1938

CHIEF OF PARTY
A. M. Sobieralski
Commanding Officer
U. S. C. & G. S. S. SURVEYOR

DECLASSIFIED BY NOAA
PURSUANT TO DOC SYSTEMATIC REVIEW
GUIDELINES AS DESCRIBED IN SECTION
3.3(a), EXECUTIVE ORDER 12356

DECLASSIFIED BY NOAA
PURSUANT TO DOC SYSTEMATIC REVIEW
GUIDELINES AS DESCRIBED IN SECTION
3.3(a), EXECUTIVE ORDER 12356.

6256 (Additional work 1938)

~~CONFIDENTIAL~~

DEPARTMENT OF COMMERCE
U. S. COAST AND GEODETIC SURVEY

REG. NO.

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.

ADDITIONAL WORK 1938

Field No. U 2536

H 6256 (Ad. Wk. 1938)

REGISTER NO. 6256 (1936-37)

State ALASKA Alutian Islands

General locality ALEUTIAN ISLANDS ~~Umnak Pass~~ Umnak Island

Locality CAPE IDAK to Cape Tanak

Scale 1:20,000 Date of survey July 29, 1938

Vessel U.S.C. & G.S.S. SURVEYOR

Chief of Party A. M. Sobieralski

Surveyed by A. M. Sobieralski; G. L. Bean

Protracted by F. A. Riddell on boat sheet H. F. Stegman on sm. sheet

Soundings ~~recorded~~ ^{inked} by F. A. Riddell on boat sh. H. F. S.

Soundings in fathoms ~~feet~~

Plane of reference MLLW

Subdivision of wire dragged areas by

Inked by Wallace A. Bruder

Verified by Wallace A. Bruder

Instructions dated April 13, 1934

Remarks:

DESCRIPTIVE REPORT

to accompany

ADDITIONAL WORK 1938

on

HYDROGRAPHIC SURVEY No. 6256 (1936-37) Field No. U 2536

U.S.C.&G.S.S. SURVEYOR

A. M. Sobieralski, H.&G.E., Commanding

Project HT 176

Cape Idak to Cape Tanak

Aleutian Islands, Alaska

Scale 1:20,000

This report covers the Additional Work 1938 and is supplementary to the Descriptive Report of 1937. While the original survey was considered complete this additional work was thought desirable in order to obtain a more detailed delineation of the bottom in two spots where, because of insufficient soundings, depth curves could not be drawn with an assurance of accuracy and also in order to prove or disprove several doubtful or erroneous soundings. On account of the abrupt changes in depth, it often was not only difficult to follow the fathometer readings but at times to get any readings at all. This fact accounts for many of the misses which necessitated the running of some of the additional lines.

The plotting was done on a tracing made from the original smooth sheet and the depth curves are shown in ink in their respective colors. In spots where revision of the curves was made necessary by this additional work, the original curves are indicated by dashed pencil lines.

The additional soundings and the revised curves tend to prove that the following soundings are at least doubtful if not erroneous and should be rejected:

181 fathoms - Lat. 53° - 34.15' - Long. 167° - 46.90' *Sounding retained.*
122 fathoms - Lat. 53° - 33.62' - Long. 167° - 51.20' *Rejected in reviewing original work.*
110 fathoms - Lat. 53° - 33.44' - Long. 167° - 51.30' *Sounding retained.*

Possibly if the original records were inspected a more definite reason for their rejection could be found.

L.S.S.

SURVEY METHODS:

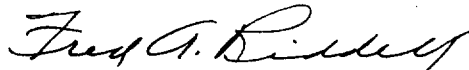
The work was done by the ship using the fathometer for obtaining soundings. The positions of sounding lines was determined by sextant fixes on recovered shore signals.

FATHOMETER CORRECTIONS:

A report covering the details of the corrections will be submitted. A copy of the corrections is attached to the front of Volume 1.

No slope corrections have been applied.

Respectfully Submitted,



FRED A. RIDDELL, Jr. H.&G.E.
U.S. Coast & Geodetic Survey

STATISTICS

to accompany

ADDITIONAL WORK 1938

HYDROGRAPHIC SURVEY No. 6256, Field No. U 2536

| <u>Date</u> | <u>Day</u> | <u>Volume</u> | <u>No.Pos.</u> | <u>No. soundings</u> | <u>Sta. miles</u> |
|-------------|------------|---------------|----------------|----------------------|-------------------|
| 7-29-38 | A | 1 | 91 | 284 | 23.1 |

Area in Square Statute Miles - 5.0.

LIST OF SIGNALS

to accompany

ADDITIONAL WORK 1938

HYDROGRAPHIC SURVEY No. 6256, Field No. U 2536

TRIANGULATION LOCATIONS

TRIP 1936
TANAK 1935-36
IDAK 1935-36

TOPOGRAPHIC LOCATIONS

| | | |
|-----|-------|-------|
| Zim | Sheet | UJ 36 |
| May | " | " |
| Jun | " | " |

APPROVAL SHEET

to accompany

ADDITIONAL WORK 1938

HYDROGRAPHIC SURVEY No. 6256, Field No. U 2536

This sheet and records have been examined
and are approved.

A. M. Sobieralski

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

TIDE NOTE FOR HYDROGRAPHIC SHEET

January 14, 1939

Division of Hydrography and Topography:

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

Plane of reference

~~Tide Reducers are~~ approved in
1 volume/ of sounding records for

HYDROGRAPHIC SHEET 6256 (Ad. Wk. 1938)

Locality Cape Idak to Cape Tanak, Umnak Pass, Aleutian Islands.

Chief of Party: A. M. Sobieralski

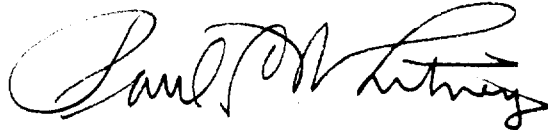
Plane of reference is mean lower low water reading

4.5 ft. on tide staff at Inaudak Bay, Umnak I.

6.4 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:



Chief, Division of Tides and Currents.

Field Records Section (Charts).

HYDROGRAPHIC SHEET NO. **H6256** (Ad. Wk. 1938)

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

| | |
|--|-----|
| Number of positions on sheet | 91 |
| Number of positions checked | 12 |
| Number of positions revised | 0 |
| Number of soundings recorded | 284 |
| Number of soundings revised | 0 |
| Number of signals erroneously plotted or transferred | 0 |
| No. Sndgs erroneously spaced | 0 |

Date:

Verification by *Wallace A. Bunder*

Time: 9 hrs. 0 min.

Review by *[Signature]*

Time: 3 1/2 hours

HYDROGRAPHIC SURVEY NO. H6256 (Ad. Wh. 1938)

Smooth Sheet Original One

Boat Sheet One (On cloth)

Records; Sounding One Vols., Wire Drag Vols., Bomb Vols.

Descriptive Report Yes

Title Sheet Yes

List of Signals In D.R.

Landmarks for Charts (Form 567) None

Statistics Yes

Approved by Chief of Party Yes

Recoverable Station Cards (Form 524)

Special Chart for Lighthouse Service
(Circular Nov.30, 1933)

Hydrography: Total Days One; Last Date July 29, 1938

Remarks

MEMORANDUM

IMMEDIATE ATTENTION

SURVEY
 DESCRIPTIVE REPORT
~~PHOTOSTAT OF~~

No. H-6256 (Ad. Wk.
 1938)
~~No. T~~

received Jan. 7, 1939
 registered Jan. 13, 1939
 verified
 reviewed
 approved

This is forwarded in order that your attention may be directed to the matters as indicated below. Please initial in column 3 as an acknowledgement that your attention has been thus directed. The complete original records are available if desired. If you cannot give this your immediate attention, please initial, note, and forward to the next section marked, calling for the records at your convenience.

| ROUTE | | Initial | Attention called to |
|-------|--|---------|---------------------|
| 20 | | | |
| 22 | | | |
| 24 | | | |
| 25 | | | |
| 26 | | | |
| 30 | | | |
| 40 | | | |
| 62 | | | |
| 63 | | | |
| 82 | | | |
| 83 | | | |
| 88 | | | |
| 90 | | | |
| | | | |
| | | | |

RETURN TO

| | |
|----|------------|
| 82 | T. B. Reed |
|----|------------|

✓ *TBR*

- ① The records conform very well to requirements of General instructions. ✓
- ② Usual depth curves were completely drawn and in most cases agree very well with the older work. ✓
- ③ The plotting, done in the office by H. F. Stegman, was excellent. ✓
- ④ The office draftsman did not have to do over any drafting. ✓
- ⑤ No junctions were affected by this additional work. ✓

⑥ Remarks:

From note of H. F. S., the verifier began trying to adjust the line 120-121 B to a position 200 meters westward. As shown in pencil, position 121 B can be so moved by using the following fix:

$$\text{Tamak} - \underline{\text{Pat}} = 73^\circ 16'$$

$$\underline{\text{Go}} - \text{Idak} = 40^\circ 00'$$

The investigation was stopped when the verifier noticed the course 120-121 was 0° , thereby putting position 120 due south of 121, which is possible.

By order of Capt. Ellis the decision is left to the reviewer. As now, everything is plotted and inked as per records.

Attention is also called to the reviewer of doubtful suds from the 1936-37 work as stated on pg. 1, ¶ 3 of the review.

Respectfully submitted,

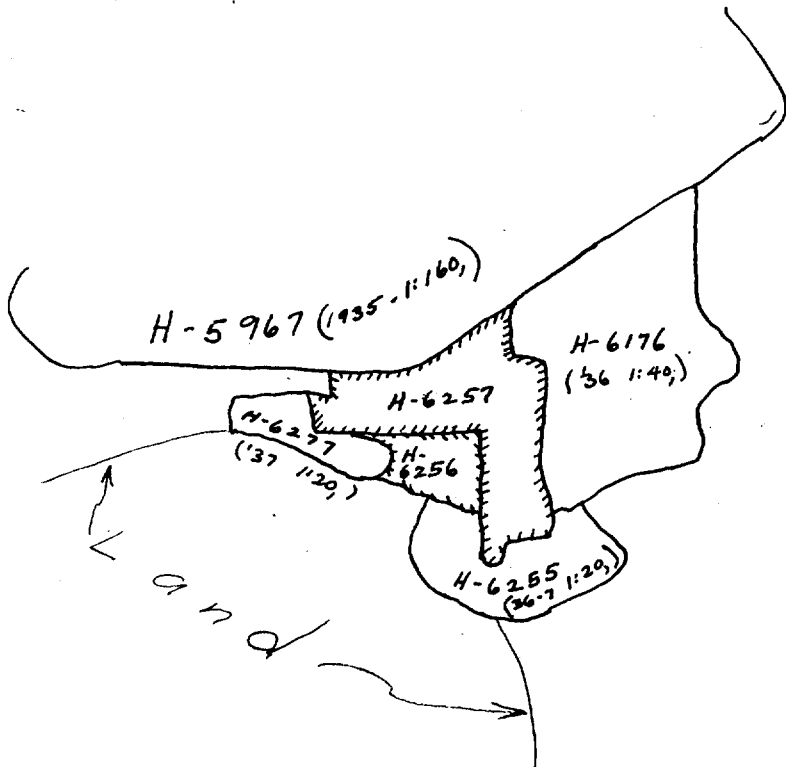
W. A. Bruder 1/27/39

Original plotting done
the fix retained. ✓

L. S. S.

H-6256 - 57

Chart # 8802 # 2.



Section of Field Records

REVIEW OF HYDROGRAPHIC SURVEY 6256 (1936-37) Ad. Wk. FIELD NO. U-2536

Cape Idak to Cape Tanak, Umnak Island, Aleutian Islands,
Surveyed July 29, 1938, Scale 1:20,000
Instructions dated April 13, 1934 (SURVEYOR)

Fathometer Soundings.

3 Point fixes on shore signals.

Chief of Party - A. M. Sobieralski.
Surveyed by - A. M. Sobieralski, and G. L. Bean.
Protracted by - H. F. Stegman (Washington Office)
Soundings plotted by - H. F. Stegman.
Verified and inked by - W. A. Bruder.

1. Purpose of Additional Work.

The Chief of Party considered it advisable to run additional lines in the area two to three miles north of Cape Idak, to more definitely delineate the 100 and 200 foot curves.

2. Office Work.

The field work was submitted on a cloth tracing made from the original smooth sheet. The work was plotted directly from the additional work record on to the original smooth sheet and was found to be in substantial agreement with the field plotting.

3. Results of Additional Work.

- a. Although the 181 fathom sounding in lat. $53^{\circ} 34.15'$, long. $167^{\circ} 46.9'$ is questionable, it is not considered that there is enough evidence to disprove this sounding. Unfortunately two "misses" occurred on the additional work line 150 meters due south of the 181 fathom sounding, which would have furnished pertinent information. It has, therefore, been retained on the survey.
- b. The 122 fathom sounding (mentioned in the additional work Descriptive Report) was rejected during the review of the original work.
- c. The 110 fathom sounding in lat. $53^{\circ} 33.44'$, long. $167^{\circ} 51.3'$ falls in very uneven bottom, depths of 115 and 117 fathoms are recorded 50 and 150 meters westward on another sounding line in the original work. Because of the uneven bottom shown by both the original work and the additional work, this sounding is believed possible and has been retained on the survey.

4. While no additional work was recommended in the review of the original work, the development is now more complete, and no further work is required.

5. Reviewed by - Leo S. Straw, Jan. 31, 1939.

Inspected by - E. P. Ellis,

Examined and approved:



T. B. Reed,
Chief, Section of Field Records.



Chief, Division of Charts.



Chief, Section of Field Work.



Chief, Division of H. & T.