[redacted]

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Form 504
Rev. April 1935

DEPARTMENT OF COMMERCE
U. S. COAST AND GEODETIC SURVEY

# DESCRIPTIVE REPORT

~~Topographic~~
Hydrographic } Sheet No. 2141 H6696 2241 H6697



State ALASKA

LOCALITY

ALEUTIAN ISLANDS

SEGUAM ISLAND

1941

CHIEF OF PARTY

F. B. T. Siems

U. S. GOVERNMENT PRINTING OFFICE 102221

Form 537
Ed. Dec. 1930

DEPARTMENT OF COMMERCE
U. S. COAST AND GEODETIC SURVEY

# HYDROGRAPHIC TITLE SHEET

REG. NO. H6696

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. 2141

REGISTER NO. H-6696

State Alaska

General locality Aleutian Islands

Locality Seguam Island (Eastern half)

Scale 1:20000 Date of survey August September, 1941

Vessel EXPLORER

Chief of Party F. B. T. Siems

Surveyed by C A Burmister, H S Cole, E B Brown, F X Popper, K S Ulm, J T Guthrie

Protracted by J.T.Guthrie E.B.Brown

Soundings penciled by E.B.Brown

Soundings in fathoms ~~feet~~

Plane of reference M L L W

Subdivision of wire dragged areas by

Inked by C.E.Dennis 8/20/42

Verified by " "

Instructions dated 3 April 1940 38 and others, 19

Remarks:

U. S. GOVERNMENT PRINTING OFFICE

Form 537
Ed. Dec. 1930

REG. NO. H6697

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.

Field No. 2241

REGISTER NO. [redacted]

State ALASKA

General locality ALEUTIAN ISLANDS

Locality SEGUAM ISLAND (Western half)

Scale 1/20,000 Date of survey Aug. 20 to Sept. 7 1941

Vessel EXPLORER

Chief of Party F.B.T.SIEMS

Surveyed by C.A.BURMISTER H.S.COLE K.S.ULM J.T.GUTHRIE

Protracted by R.H.WOODCOCK E.B.BROWN

Soundings penciled by R.H.WOODCOCK

Soundings in fathoms ~~feet~~ FATHOMS

Plane of reference MEAN LOWER LOW WATER

Subdivision of wire dragged areas by

Inked by Leroy King Sept 9, 1942

" " " " "

Verified by

Instructions dated FEBRUARY 3, 1938

Remarks:

U. S. GOVERNMENT PRINTING OFFICE

H6696
H6697

DESCRIPTIVE REPORT

To accompany

LAUNCH HYDROGRAPHIC SHEET NO. 2141 & 2241.

The area covered by these two sheets comprises the inshore sea immediately surrounding SEGUAM ISLAND, No. 2141 being the eastern part and No. 2241 the western part. The survey is on a scale of 1:20000. It was accomplished under authority of Instructions Dated 3 February, 1941.

The usual more modern methods of surveys were employed. Horizontal control was established through many Triangulation Stations, and Signals located by Topographic surveys. Vertical control was established through a portable automatic Tide Gage installed on the north side of the island near Finch Cove. During the brief periods when this tide gage was not in operation, tide reducers have been obtained from the standard gage at Dutch Harbor.

The 808 AS type Automatic Depth Recorder was used throughout this survey. Soundings were recorded in the usual manner in the record books at 30-second intervals; and at such other intervals as were necessary to give a good picture of the ocean floor. Further soundings were inserted in the record when the Recorder Charts were scanned in the office. The fathom-scale was used throughout the survey (approximately 112 soundings per minute).

There are several shoals of importance in the area covered by this survey.

1- In Lat. 52°19.7' Long. 172°16.9', several lumps with about 3½ fathoms over them. This is about one-half mile east of the easternmost point of the island.

2- 3 fathoms about one-fourth mile northwest of (1).

3- A shoal point extends one-fourth mile offshore in Lat. 52°19.1' Long. 172°18.4' with a least depth of about 2¼ fathoms.

4- In Lat. 52°23.7' Long. 172°29.5', a least depth of about 2½ fathoms, about a mile offshore, and rising abruptly out of depths of 26 to 28 fathoms. This shoal is of small extent; and is not marked by kelp or by breakers in so far as this party observed.

5- Relatively shoal water extends some distance offshore from the point on which Triangulation Station AIR is located. The area is lumpy and broken, marked with some kelp and breakers.

6- The westernmost point of the island is marked by a low rock, bare at all stages of the tide, though often covered when the sea is rough. This rock is about one-fourth mile offshore in Lat. 52°15.8' Long. 172°38.4'

7- It should be noted that relatively shoal water extends off all the points, and these areas are usually marked by breakers in bad weather. The bottoms are very irregular; kelp grows profusely on most of them.

Visible dangers as pinnacles and off lying rocks are easily seen, and may be readily avoided. There are several groups of these: in Lat. 52°21.2' Long. 172°34.5'; triangulation stations RUE and PIKE; an extensive group at Triangulation Station LIME ROCK; and another group at Signal IN in Lat. 52°18.3' Long. 172°20.8'. These are all close inshore. See page 8

There are no channels around the island except the passes which are all deep and clear. (Only the area near Segoam I. in Segoam Pass surveyed)

There are two anchorages which the ship used on a number of occasions. These are FINCH COVE on the northeastern side of the island; and LAVA COVE on the south side of the island. These both have good holding ground, and are suitable for protection in weather from the south for Finch Cove, and from the north in Lava Cove. They are not recommended for heavy storms, however. There are a number of small-boat anchorages which might be used if necessary. These are (1) just to the westward of Finch Cove, (2) just west of the easternmost point of the Island and on the south side of the island. There are several other places of refuge which may be found, especially along the western side of the Island, and in the long bight in which the signals ULT and ~~CAMEL~~ are located.

Currents around ~~the island~~ Segoam Island are strong and very erratic. As around Amukta and Chagulak Islands the general flood direction is northerly, with the ebb southerly. On the flood, the current seems to divide somewhere near ~~the Point on which Triangulation Station~~ TURF Point ~~is located~~; and seems to rejoin near ~~LIME ROCK~~ Finch Cape on the north. The reverse action appears to take place on the ebb.

Current velocities as follows have been computed from two consecutive runs in opposite directions and nearly at the same time:

6 Sept. (20-h to 49-h red) Off LIME ROCK direction 90° velocity 2.35 miles.
(159-h to 192-h red) SW of Signal IN direction 60° velocity 1.83 miles.

2 Sept. (29 to 74-d red) SW of OFF direction north, velocity 4.32 miles.

21 Aug. (49-62-c red) South of OFF direction west, velocity 3.53 miles.

7 Sept. (83-101-f red) off TURK, direction and velocity negligible.

21 Aug. (160-192-c red) Off ULT, direction southwest, velocity .56 mile.

Tide rips ~~are bad on~~ severe off many points; they make up suddenly and furiously, and are dangerous to small craft. Passage through the rips by small boats should not be attempted unless the operator is familiar with the danger. The worst rips are found along the ~~southwest point of the Island near OFF~~ western end, with lesser ones off the easternmost point, and off ~~the northern point near LIME ROCK~~ Finch Cape. These are all conspicuous and, while they seem to indicate shoal water by their whiteness, they make up in deep water so form no menace to navigation for the larger ship.

| | | | | |
|---|---|---|---|---|
| 4 Sept. | d | 22.9 | 442 | 114 |
| 5 Sept. | e | 10.0 | 169 | 44 |
| Totals | | 412.0 | 6894 | 1783 |

Respectfully submitted,

Clarence A. Burmister,
Jr. H. & G. Engr.

Approved and Forwarded:

F. B. T. Siems,
Chief of Party, C. & G. S.,
U.S.C. & G.S.S. EXPLORER

H6696

LIST OF SIGNALS TO ACCOMPANY LAUNCH HYDROGRAPHIC SHEET NO. 2141 H6696

Letter following name indicates sourse: Topographic Sheet [redacted]

| | |
|---|---|
| Ace | -E-41 |
| Adam | C |
| Ax | F |
| Able | C |
| | |
| Bulk | -E-41 |
| Band | E |
| Black | E |
| Boy | C |
| Buz | C |
| Bay | C |
| *BURN | 1941 |
| | |
| Clu | -E-41 |
| Cat | E |
| Cove | E |
| *COVE | 1941 |
| | |
| Dad | -E-41 |
| Deep | C |
| Double) | |
| Dub ) | C |
| Day | C |
| | |
| Erg | -E-41 |
| Eno | E |
| Ear | C |
| Ergo | E |
| End | E |
| | |
| Foo | -E-41 |
| *FINCH | 1941 |
| Fog | C |
| Flag | C |
| | |
| Gill | -E-41 |
| Gus | C |
| | |
| Hay | -E-41 |
| Hun | E |
| House | C |
| Hop | C |
| Hole | C |
| Hale | C |

| | |
|---|---|
| Ina | *E-41 |
| Ike | C |
| In | C |
| | |
| Jock | -C-41 |
| Jit | C |
| | |
| Kid | -C-41 |
| Kay | C |
| | |
| *LIME | |
| Rock | 1941 |
| Low | -C-41 |
| Lamb | C |
| Lap | C |
| Lo | C |
| Lee | C |
| Ling | C |
| Low 2 | C |
| Lot | F |
| *LAVA | 1941 |
| | |
| Min | -E-41 |
| Mar | E |
| Moss | C |
| Mex | C |
| Moo | F |
| | |
| Nid | |
| (Pin) | -C-41 |
| Nag | C |
| Next | F |
| | |
| Out | -E-41 |
| Obo | C |
| Ox | C |
| Out 2 | C |
| Ora | F |
| | |
| Pint | -E-41 |
| Pox | C |
| Point | C |
| Pig | C |
| Pina | C |
| Pole | F |

| | |
|---|---|
| Pie | -F-41 |
| *POINT | 1941 |
| Pin | |
| (nid) | E |
| | |
| Rock | -C-41 |
| Ref | C |
| Reg | C |
| Ro | C |
| Red | C |
| | |
| Side | -E-41 |
| Slant | E |
| Shall | C |
| Spot | C |
| Same | C |
| *SAM | 1941 |
| Spy | C |
| Stop | C |
| Sot | |
| (Set) | F |
| Sill | F |
| See | F |
| | |
| Tiny | -E-41 |
| Tone | C |
| Tie | C |
| Tic | C |
| Tip | F |
| The | F |
| Tea | E |
| | |
| Wet | -E-41 |
| Wax | F |
| | |
| Zone | -E-41 |

* Triangulation Stations

Legend:
C = T-6866
E = T-6868
F = T-6869

H6697

LIST OF SIGNALS TO ACCOMPANY LAUNCH HYDROGRAPHIC SHEET NO. 2241 H6697

Letter following name indicates source: Topographic Sheet [redacted]

| | |
|---|---|
| A | -D-41 |
| Abe | D |
| Ada | D |
| Apex | E |
| Ax | D |
| △ Air 1941 | |
| B | -D-41 |
| Bald | E F |
| Bad | D |
| Band | E |
| Bug | E |
| Bee | E |
| Bird | D |
| Bon | E |
| Bus | D |
| Bulk | E |
| Black | E |
| Blank (Joe) | D |
| △ Burn 1941 | |
| C | -D-41 |
| Cabin | E |
| Cove | E |
| Cow | E |
| Cat | E |
| Con | D |
| Camel | D |
| Car | D |
| D | -E-41 |
| Dor | E |
| Dim | D |
| Dol | D |
| Dig | E |
| E | -D-41 |
| Ergo | E |
| Eon | E |
| Eat | E |
| Edi | D |
| F | -D-41 |
| Flat | D |
| Fat | E |
| Fie | D |
| Fan | D |
| Fall | D |
| Flat 2 | E |
| Foo | E |
| G | -D-41 |
| Gir | E |
| Gal | E |
| Ger | D |
| Gray | D |
| Gil(1) | E |
| Hay | -E-41 |
| Hat | E |
| Han | E |
| Hi | D |
| Hun | E |
| Ina | -D-41 |
| Ice | E |
| Ida | E |
| Ina 2 | E |
| Jap | -E-41 |
| Jan | D |
| Knob | -D-41 |
| Kan | D |
| Ledge | -E-41 |
| Lam | D |
| Let | F |
| Lit | D |
| Lite | D & F |
| Leg | F |
| Lot | F |
| Let | D |
| Mar | -E-41 |
| Min | E |
| Mag | E |
| Mal | D |
| Notch | -E-41 |
| New | E |
| Nag | D |
| Nob | D |
| No | D |
| Out | -E-41 |
| Oat | D |
| Oak | D |
| Off | D |
| Peak | -E-41 |
| Pan | D |
| Poo | D |
| *PIKE | 1941 |
| *POINT | 1941 |
| Round | -E-41 |
| Red | E |
| Rob | D |
| *RUE | 1941 |
| Reef | D |
| Slant | -E-41 |
| Side | E |
| Small | E |
| Spill | D |
| Strag | D |
| Saw | D |
| Spot | D |
| Six | D |
| Slip | D |
| Two | D |
| Tiny | -E-41 |
| Tea | E |
| Ton | D |
| Top | D |
| *TURF | 1941 |
| Ten) | |
| Tew) | D |
| △ Tit 1941 | |
| Under | -E-41 |
| Ult | D |
| Una | D |
| Vee | -D-41 |
| Wet | -E-41 |
| Wall | E |
| Was | D |
| We | D |
| Yel | -D-41 |
| Zone | -E-41 |
| Zed | D |

* Trianguation Stations

Since this is an original survey, there are no sources available to compare this with. Off-lying rocks as shown on original charts are substantiated in most cases, though their actual relative positions are considerably changed.

Statistics for Sheet 2141 are as follows:

| Date | Day | Miles of line | Soundings recorded | Positions. |
|---|---|---|---|---|
| Launch No. 1 (red) | | | | |
| 3 Aug. | a | 25.5 | 438 | 109 |
| 17 Aug. | b | 68.1 | 983 | 252 |
| 21 Aug. | c | 1.5 | 34 | 9 |
| 29 Aug. | d | 32.3 | 609 | 164 |
| 1 Sept. | e | 61.5 | 956 | 256 |
| 4 Sept. | f | 27.5 | 471 | 126 |
| 5 Sept. | g | 43.2 | 718 | 209 |
| 6 Sept. | h | 52.8 | 910 | 222 |
| 7 Sept. | j | 8.6 | 145 | 38 |
| Launch No. IV (blue) | | | | |
| 5 Sept. | a | 32.5 | 535 | 133 |
| 6 Sept. | b | 18.6 | 375 | 95 |
| Launch No. II (green) | | | | |
| 21 Aug. | a | 13.0 | 222 | 64 |
| 3 Sept. | b | 39.0 | 700 | 199 |
| 5 Sept. | c | 32.7 | 493 | 159 |
| 6 Sept. | d | 27.0 | 585 | 148 |
| 7 Sept. | e | 43.2 | 638 | 190 |
| 8 Sept. | f | 6.6 | 103 | 35 |
| Totals: | | 533.6 | 8915 | 2408 |
| Sheet "2241". | | | | |
| Launch No. 1 (red) | | | | |
| 20 Aug. | b | 68.3 | 1016 | 231 |
| 21 Aug. | c | 50.1 | 881 | 215 |
| 2 Sept. | d | 56.0 | 960 | 241 |
| 3 Sept. | e | 59.0 | 931 | 262 |
| 7 Sept. | f | 42.8 | 671 | 170 |
| Launch No. II (blue) | | | | |
| 20 Aug. | a | 30.7 | 520 | 150 |
| 21 Aug. | b | 29.2 | 605 | 164 |
| 1 Sept. | c | 43.0 | 701 | 192 |

TIDAL NOTE [redacted]
U.S.C. & G.S.S. Explorer
Aleutian Islands--1941

Dutch Harbor Standard Gage
Lat 53° 53.5'
Long 166° 32.2'
M. L.L.W.on the staff equals 4.2 feet
Note--Highest and lowest tides may be found on consulting the records on file in the Division of Tides & Currents, Washington, D. C.

Yunaska Id., Cabin Cove. Portable Gage.
Lat 52° 40.9'
Long 170° 42.5'
M.L.L.W. on the staff equals 1.5 feet.
Highest tide observed June 11th equals 6.1 feet.
Lowest tide observed June 9th equals -0.2 feet.
Comparrison with Dutch Harbor Standard Gage
Range factor equals 1.0
Time factor equals -1 hour.

Amukta Id. Portable Gage.
Lat 52° 30.8'
Long 171° 15.8'
M.L.L.W. on the staff equals 3.2 feet.
Highest tide observed July 6 equals 7.6 feet
Lowest tide observed June 8, July 6,7,&8 equals 2.0 feet.
Comparrison with Dutch Harbor Standard Gage.
Range factor equals 1.0
Time factor equals -1 3/4 hours.

Seguam Id., Finch Cove. Portable Gage.
Lat 52° 23.4'
Long 172° 24.0'
M.L.L.W. on staff equals 4.8 feet.
Highest tide observed July 9 equals 6.8 feet.
Lowest tide observed August 3 & 5 equals 3.5 feet.
Comparrison with Standard Gage Dutch Harbor.
Time factor -1½ hours for high water, plus ½ hour for low water.
Range factor equals 1.0

8

H6696

Processing Office Notes.

The following shoals are noted in addition to those previously mentioned:-

| Latitude | Longitude | Position | Sounding Fathoms | Remarks |
|---|---|---|---|---|
| 52 15.80 | 172 28.10 | 70-71b | 1 5/6 | H6696 |
| 52 18.92 | 172 19.00 | 160-161k | 5 4/6 | |
| 52 23.80 | 172 25.20 | 70-71f | 7 ~~1~~ 2 1/4 | |
| 52 22.80 | 172 23.43 | 52-53d | 4 | |
| 52 22.80 | 172 23.26 | 53-54d | 4 1/2 | |

Discrepancies at crossings.

| | | | | |
|---|---|---|---|---|
| 52 18.1 | 172 18.7 | 2-3e(red) 53<br>4-5e(green) 51 | | Probably accounted for by angle rejection at Pos. 3e. Accepted |
| 52 23.7 | 172 21.2 | 67-68h<br>168,169,170g | | 4 and 5 fathom differences probably accounted for by broken bottom. Accepted |

H6697

H-6697

[redacted]

Processing Office Notes.

Discrepancies at crossings.

| Latitude. | Longitude | Position No. | Soundings. Fathoms | Remarks |
|---|---|---|---|---|
| 52 14.50 | 172 31.00 | 111f | 26-24 ✓ | slope |
| | | 81-82f | 3/7 32 (fathogram misread) | slope |
| | | ~~244~~ | | |
| 52 15.58 | 172 31.00 | 244-245e | 10¼ | |
| | | 33-34f | ~~1 5/6~~ 2⅝ | Probably a ~~sunken rock.~~ ledge projecting from shore |
| 52 21.48 | 172 34.55 | 143-144a | 4½ Not considered a discrepancy. | |
| | | 139-140c | 16 Close to 1½ fm, and on slope | Broken bottom ✓ |

/83

Further development. ✓

Broken bottom extending about 3/4 mile south from the southernmost point of Seguam Island (marked by triangulation station TURF) should have been further developed.

additional soundings scaled from fathograms.

Officer in Charge
Seattle Processing Office.

Surveys Section (Chart Division)

HYDROGRAPHIC SURVEY NO. H6697 [redacted]

Records accompanying survey:

Boat sheets two.; sounding vols. (8).; wire drag vols. ....;

bomb vols. .....; graphic recorder rolls (3) (in 3 envelops);

special reports, etc. .....

.....

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

| | | |
|---|---|---|
| Number of positions on sheet | | 1783 |
| Number of positions checked | | 20 |
| Number of positions revised | | 1 |
| Number of soundings recorded | | 6894 |
| Number of soundings revised (refers to depth only) | | 3 |
| Number of soundings erroneously spaced | | 0 |
| Number of signals erroneously plotted or transferred | | 0 |
| Topographic details | Time | ..... |
| Junctions | Time | 42½ hrs. |
| Verification of soundings from graphic record | Time | ..... |

Verification by Leroy King (G.F. Jordan (additional soundings and topo. detail) comparison of plotting) Total time 158½ hrs. 20/1784 Date Sept. 9, 1942

Review by G.F. Jordan Time .22.. Date Sept. 17, 1942

GEOGRAPHIC NAMES

Survey No. H6697

[redacted]

| Name on Survey | On Chart No. A, | On previous survey No. B, | On U. S. quadrangle Maps C, | From local information D | On local Maps E | P. O. Guide or Map F | Rand McNally Atlas G | U. S. Light List H | K | |
|---|---|---|---|---|---|---|---|---|---|---|
| North Pacific Ocean | | | | | | | | | | 1 |
| Seguam Island | | | | | | | | | | 2 |
| Seguam Pass | | | | | | | | | | 3 |
| | | | | | | | | | | 4 |
| | | | | | | | | | | 5 |
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| Finch Cove | | | | | | | | | | 7 |
| Dutch Harbor | | | | | | | | | | 8 |
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M 234

| | Remarks | Decisions |
|---|---|---|
| 1 | | |
| 2 | | 520 720 U.S.G.B |
| 3 | | 520 725 |
| 4 | | |
| 5 | | |
| 6 | | |
| 7 | Location of tide staff | 520720 |
| 8 | | U.S.G.B |
| 9 | | |
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| 11 | | |
| 12 | | |
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M 234

[redacted]

| | Remarks | Decisions |
|---|---|---|
| 1 | | 520 715 U.S.G.B |
| 2 | | U.S.G.B |
| 3 | | |
| 4 | | 520720 |
| 5 | Pending with U.S.G.B.: OK to apply Pending its action. | " |
| 6 | | |
| 7 | | |
| 8 | | |
| 9 | Location of tide staff | USGB |
| 10 | | |
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| 15 | | |
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| 17 | | |
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M 234

GEOGRAPHIC NAMES

Survey No. H6696

[redacted]

| Name on Survey | On Chart No. A, | On previous survey No. B, | On U. S. quadrangle Maps C, | From local information D | On local Maps E | P. O. Guide or Map F | Rand McNally Atlas G | U. S. Light List H | K | |
|---|---|---|---|---|---|---|---|---|---|---|
| Amukta Pass | | | | | | | | | | 1 |
| Bering Sea | | | | | | | | | | 2 |
| ~~Pacific Ocean~~ See H 6697 | | | | | | | | | | 3 |
| Finch Cove | | | | | | | | | | 4 |
| Lava Cove | | | | | | | | | | 5 |
| | | | | | | | | | | 6 |
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| Dutch Harbor | | | | | | | | | | 9 |
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Names [illegible] approved by L. Heck on 9/2/42

M 234

Surveys Section (Chart Division)

HYDROGRAPHIC SURVEY NO. H6696 [redacted]

Records accompanying survey:

Boat sheets four; sounding vols. (10).; wire drag vols. ....;

bomb vols. .....; graphic recorder rolls (4)..;

special reports, etc. .....

.....

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

| | | |
|---|---|---|
| Number of positions on sheet | | 2408. |
| Number of positions checked | | 24.. |
| Number of positions revised | | ..4.. |
| Number of soundings recorded | | 8915. |
| Number of soundings revised (refers to depth only) | | ..7... |
| Number of soundings erroneously spaced | | ..0.. |
| Number of signals erroneously plotted or transferred | | ..0.. |
| Topographic details | Time | 3½ hr. |
| Junctions | Time | ..0... |
| Verification of soundings from graphic record | Time | 1 hr.. |

Verification by C.E. Dennis.....Total time 70½ hrs. Date 8/20/42..

Review by Harold W. Murray..... Time 12..... Date 8/31/42..

RQC
AHR

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

# TIDE NOTE FOR HYDROGRAPHIC SHEET

July 17, 1942.

~~Division of Hydrography and Topography:~~

Division of Charts: Attention: Mr. H. R. Edmonston.

Plane of reference approved in
10 volumes of sounding records for

HYDROGRAPHIC SHEET 6696

Locality Seguam Island (Eastern Half) Aleutian Islands, Alaska.

Chief of Party: F. B. T. Siems in 1941
Plane of reference is mean lower low water reading
4.8 ft. on tide staff at Finch Cove, Seguam Island
9.1 ft. below B. M. 1
4.2 ft. on tide staff at Dutch Harbor - Time Factor -1½ hours for high water
12.5 ft. below B. M. 1 + ½ hour for low water
Range Factor = 1.0

Height of mean high water above plane of reference is 3.2 feet.

Condition of records satisfactory except as noted below:

Chief, Division of Tides and Currents

U. S. GOVERNMENT PRINTING OFFICE 154327

L.A.C. FILE

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

# TIDE NOTE FOR HYDROGRAPHIC SHEET

July 17, 1942.

~~Division of Hydrography and Topography:~~

Division of Charts: Attention: Mr. H. R. Edmonston.

Plane of reference approved in
8 volumes of sounding records for

HYDROGRAPHIC SHEET 6697

Locality Seguam Island (Western Half), Aleutian Islands, Alaska

Chief of Party: F. B. T. Siems in 1941
Plane of reference is mean lower low water reading
4.8ft. on tide staff at Finch Cove, Seguam Island
9.1ft. below B. M. 1

| | | Factor |
|---|---|---|
| 4.2 ft. on tide staff at Dutch Harbor - | Time/ | $-1\frac{1}{2}$ hours for high water |
| 12.5 ft. below B. M. 1 | | $+\frac{1}{2}$ hour for low water |
| | Range Factor = | 1.0 |

Height of mean high water above plane of reference is 3.2 feet.

Condition of records satisfactory except as noted below:

Chief, Division of Tides and Currents.

U. S. GOVERNMENT PRINTING OFFICE 154337

FORM M-238

# MEMORANDUM

## IMMEDIATE ATTENTION

SURVEY
DESCRIPTIVE REPORT
~~PHOTOSTAT OF~~

No. H H6696
~~No. H~~ H6697

received May 25, 1942
registered July 14, 1942
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 | ~~Pg 182~~ | | |
| ✓ 25 | Pg 182 | | |
| 26 | | | |
| 30 | | | |
| 40 | | | |
| 62 | | | |
| 63 | | | |
| 82 | | | |
| ✓ 83 | Pg 188&10 | HF | No chart affected except small scale. |
| 88 | | | |
| 90 | | | |
| | | | |
| | | | |

RETURN TO

| | |
|---|---|
| 82 | R. W. Knox |

W Rock

DIVISION OF CHARTS

SURVEYS SECTION

REVIEW OF HYDROGRAPHIC SURVEY — REGISTER NO. 6696
Field No. 21

Alaska, Aleutian Islands, Seguam Island (Eastern Half)
Surveyed in August - September 1941; Scale 1:20,000
Instructions dated February 3, 1938 (SURVEYOR)

Soundings:
808AS Recorder

Control:
Visual fixes on shore signals

Chief of Party - F. B. T. Siems
Surveyed by - C. A. Burmister, E. B. Brown, K. S. Ulm, H. S. Cole, F. X. Popper and J. T. Guthrie
Protracted by - J. T. Guthrie, E. B. Brown
Soundings plotted by - E. B. Brown
Verified and inked by - C. E. Dennis
Reviewed by - Harold W. Murray, August 31, 1942
Inspected by - H. R. Edmonston

1. Shoreline and Signals

The shoreline and signals originate with 1941 plane table surveys T-6866, T-6868 and T-6869.

2. Sounding Line Crossings

Agreement of sounding line crossings is very good.

3. Depth Curves

The usual depth curves may be completely drawn.

4. Junctions with Contemporary Surveys

The junction with H-6723 (1941) and H-6697 (1941) will be considered in the reviews of those surveys.

5. Comparison with Prior Surveys

No prior surveys have been made in this area.

6. Comparison with Chart 8802 (New Print date 1-29-42)

No charted hydrography is shown within the limits of the present survey. The two clusters of sunken rock and islet detail charted off the east coast of Segnam Island should be superseded by the shoals and islet detail on the present survey.

7. Condition of Survey

Satisfactory.

8. Additional Field Work Recommended

When convenient the 38-fm. sounding rising from depths of about 60 fathoms in Lat. 52°19.5', Long. 172°16.15' should be investigated. The reading of this shoal on the fathogram is somewhat doubtful because of a change in phase (pos. 13-15g) but it is to be noted that this shoal is in range with two inshore shoals on the west.

9. Compliance with Instructions

Satisfactory, except that no bottom characteristics were obtained in either Finch or Lava Coves. The Descriptive Report, which recommends these anchorages, states that the holding ground is good.

10. Superseded Surveys

None.

Examined and approved:

Robert W. Knox
Chief, Surveys Section

F. C. Borden
Chief, Division of Charts

L. P. Rayner
Chief, Section of Hydrography

G. Rude
Chief, Division of Coastal Surveys

DIVISION OF CHARTS

SURVEYS SECTION

REVIEW OF HYDROGRAPHIC SURVEY

REGISTER NO. 6697
Field No. 2241

Alaska, Aleutian Islands, western part Seguam Island
Surveyed in August and September 1941; Scale 1:20,000
Instructions dated February 3, 1938 (SURVEYOR)

Soundings: 808AS Fathometer Control: Visual three-point fix

Chief of Party - F. B. T. Siems
Surveyed by - Ship's Officers (EXPLORER)
Protracted by - R. H. Woodcock, E. B. Brown
Soundings plotted by - R. H. Woodcock
Verified and inked by - Leroy King
Reviewed by - G. F. Jordan
Inspected by - H. R. Edmonston

1. Shoreline and Signals

Triangulation was accomplished under the present project.

On the west and north sides of the island most of the control was signals (shown in blue) located by a combination of cuts by the hydrographic and topographic parties. The sextant angles are listed in the descriptive report for T-6867, T-6868. Random traverse was run between the above located signals from which the remaining topographic signals and the shoreline detail were obtained.

The south side of the island was controlled by plane table survey T-6869.

2. Sounding Line Crossings

Satisfactory.

3. Depth Curves

Satisfactory.

4. Junctions with Contemporary Surveys

Satisfactory junctions are made with H-6696 (1941), which covers the eastern part of the island, and with the offshore survey H-6723 (1941), which surrounds the present survey.

5. Comparison with Prior Surveys

This basic survey is the first made in this area.

6. Comparison with Chart 8802 (Latest print of 8-31-42)

(a) Hydrography

(1) The sunken rock charted at Lat. 52°23.7', Long. 172°29.5' originates from advance information on the present survey, Letter 554 (1941), which reported least depth of 2fm. The final smooth sheet value is 2-4/6fm., substantiated by 3-2/6fm. on an adjacent line, both of which were scaled at the tops of single graphic lines on the fathogram, positions 21 and 51d.

The descriptive report notes that no breakers nor kelp were observed over this rock. Normally, the single line graph would have been considered to be kelp, as the island is lined with kelp; and the least depth would have been scaled at 6fm. at the top of the heavier graphic lines. Moreover, the nonexistence of breakers or "humps" and surface kelp would tend to discredit the shoaler depth.

The chief of party, now in the office, considers that the single line graph could represent a volcano core finger and, therefore, the 2-4/6fm. and 3-2/6fm. depths have been plotted. No investigation was made with leadline or wire drag.

(2) The charted rock detail close to shore originates from the present topographic surveys.

(b) There are no dredged channels nor aids to navigation within the area of this survey.

7. Condition of Survey

(a) Sounding Records

The sounding records are neat and legible and conform to the Hydrographic Manual.

The scaling and recording of depths every 15 sec. instead of 30 sec. inside the 20-fm. curve, especially off the west and south shores of the island, would have been advisable (see Par.(c)).

(b) Descriptive Report

Satisfactory.

(c) Field Plotting

The protracting was satisfactory. Minor disagreements, on the west and southwest, between the smooth and boat sheets were found to result from the boat sheet protracting on the unadjusted location of signals. The boat sheet lines are more regular.

The descriptive report notes that additional soundings were scaled from the fathograms while plotting the smooth sheet. Additional soundings were also added by this office in many areas, particularly to develop and encircle rocky shoals and points. This applies especially to the undeveloped area south of triangulation station TURF, 1941, which is mentioned in the descriptive report under "further development." In two cases, by the scaling of additional soundings, small isolated shoals were found to be ridges connected with the shore.

8. Compliance with Instructions for the Project

Satisfactory. Specific instructions were not given for bottom characteristics and none were obtained.

9. Additional Work

When surveys are resumed in this locality additional work, as follows, is considered advisable.

(a) Lat. 52°23.7', Long. 172°29.5' - investigate least depth on 2-4/6-fm. rock by mechanical methods, lead line or wire drag.

(b) Lat. 52°23.7', Long. 172°28.0' - develop shoal inshore from this location.

(c) Lat. 52°21.1', Long. 172°35.2' - development of the indicated ridge extending from the 4-fm. sounding northwestward to the line of 32-fm. soundings.

(d) Lat. 52°18.3', Long. 172°37.6' - development of point on 10-fm. curve.

(e) Lat. 52°16', Long. 172°39' - development of 200-meter splits outside 3-5/6-fm. sounding and the 6-1/6-fm. sounding 500 meters S.E.

(f) Lat. 52°14.5', Long. 172°32' - development of extensive shoal area off the south shore of the island.

(g) Bottom specimens in anchorage areas.

10. Superseded Surveys

No prior surveys.

Examined and approved:

Chief, Surveys Section

Chief, Division of Charts

Chief, Section of Hydrography

Chief, Division of Coastal Surveys

#6646 Applied to Ch 8862 Aug. 21, 1942 - J.F.W.
#6697 " " " " Sept 8, 1942 - J.F.W.