

4949

Diag. Cht. No. 8502-2 & 8556-1

Form 504

U. S. COAST AND GEODETIC SURVEY
DEPARTMENT OF COMMERCE

DESCRIPTIVE REPORT

Type of Survey *Hydrographic*
Field No. Office No. *4949*

LOCALITY

State *S.W. Alaska*

General locality *Kodiak Island*

Locality *Arvestu Id*

Sarsen Bay

1929

CHIEF OF PARTY

R. R. Luken

LIBRARY & ARCHIVES

DATE

4949

4949

Form 504

DEPARTMENT OF COMMERCE

U. S. COAST AND GEODETIC SURVEY

SURVEY

JAN 18 1930

Acc. No.

State: S.W. Alaska.

11-5613

DESCRIPTIVE REPORT.

4949

Hydrographic Sheet No. 17.

LOCALITY:

Kodiak Id.

Harvester Id. - Larsen Bay.

~~191~~
1929.

CHIEF OF PARTY:

R.R. Lukens.

Survey

4949

DESCRIPTIVE REPORT.

Hydrographic Sheet, Field No. 17.

Str. Surveyor.

R.R. Lukens, Comdg.

Scale 1 : 10,000.

DATE OF INSTRUCTIONS

The work was done in accordance with Instruction's dated March 14, 1929.

LIMITS

The sheet comprises the inshore hydrography off Bear Id., Harvester Id., and the West side of Uyak Bay. Beginning at Bear Id. with a junction with Field Sheet #16, it extends Southward around Harvester Id. to a union with the Larsen Bay Sheet, Field No. 18. The hydrography extends offshore a distance of 0.7 mi. joining the ship work on Field Sheet #14 as far as Δ Stan, and from there South supplementing the work on Hydrographic Sheet #2981. A portion of the work joins and supplements Hydrographic Sheet #2964, which includes Uyak Harbor and the inshore area between Bear Id. and Harvester Id.

CONTROL

Control was established by planetable traverse between triangulation stations. No appreciable closing error was found in the topography. That part of the shoreline which is shown by a broken line on the Hydrographic sheet was obtained from a photostat copy of Topographic Sheet #2892. This comprises the shoreline of Bear Id., the inshore side of Harvester Id., and the shoreline of the mainland from Bear Id. to just South of the Uyak Cannery.

TIDE GAUGE

Automatic Tide Gauge #212 at Uyak was used in the reduction of all sounding records without adjustment.

SURVEY METHODS

The usual survey methods as prescribed by the Hydrographic Manual were employed. Surveyor's Motorsailer was used for all the work. Hand lead was used for sounding depths up to 10 fathoms. For greater depths a power driven sounding machine with a 20 lb. lead was used. The registering sheave was tested and found correct. All of the sounding lines were run on ranges, no compass bearings being recorded.

DISCREPANCIES

On page 9, sdg. Vol. #2, positions 4d to 5d there is a recorded depth of 11 fathoms - 4 ft. between depths of 20 fms. and 17 fms. This was questioned by the hydrographer and the sdg. was not plotted on the hydrographic sheet. It appears to have been an uncertainty in recording and to have been corrected to 11 fms. - 4 ft.

On page 11, sdg. Vol. #2, at position 14d, a depth of 30 fms. (reducing to 28½ fms.) was recorded. Twenty meters distance on a check position (pos. 121d) a depth of 36 fms. (reducing to 34 fms. - 5 ft.) was obtained. It is uncertain as to whether there is an error in the recording of the first depth or that it is an indication of a shoal as no further development was made by the hydrographic party.

On page 16, sdg. Vol. #2, positions 38d to 39d one sounding is shown between positions. However, from the spacing between positions it seems that one sounding was omitted by the recorder (see note to this effect in sdg. record by hydrographer). On the hydrographic sheet this distance was plotted as having two soundings with one of them omitted.

DANGERS

The offshore side of Harvester Id. is boulder-strewn, and many rocks are exposed at low tide. Foul ground extends for a distance of 100 meters off shore and landings are difficult on this side of the island.

At Lat. 57-38-1457m. and Long. 153-59-56m. there is a rock covered 1 fathom - 1½ feet at M.L.L.W.

From Harvester Id. Southward to the limits of the sheet, the West side of Uyak Bay is generally free of dangers. Cormorant Rock was located by the Topographic party and this position checked the position determined by the previous survey. The spit, extending off the South end of Harvester Id, also located by this former survey was not redetermined. ?

CHANNELS

Determination of the entrances to Uyak Anchorage has been made by previous surveys and no further information was obtained.

Approved
R. P. Lukens

Respectfully submitted,
Clarence A. George
Clarence A. George.
Aid.

Hydrographic Sheet No. 17

Note by Chief of Party:

A comparison of the topographic sheet with the former survey on T 2892 reveals some difference in the position of Cormorant Rock and the adjacent shore line.

Mr. Hubbard who did the topography states that he made a good closure in the traverse and had good cuts on Cormorant Rock. He believes that his sheet is substantially correct but of course can not be absolutely positive.

Unfortunately this difference was not discovered in the field and there is no way of verifying it now.

End of Spit The end of the spit extending from Harvester Island towards Uyak is marked by a red light on a pile dolphin. This dolphin is shown as topographical signal "Red" on the sheet.

R.R. Lukens
R.R. Lukens.

Work on Top. 4949 (1929) agrees with work on Top. 2898 both of which sheets supersede Top. 2892. ^{regarding the above note by R.R. Lukens.} The pos. of Cormorant Rock and shoreline in the vicinity of Cormorant Rock on Top. 2892 is questionable. Auth. of A.M. Schuchert.
A.S. B.

Statistics for Sheet, Field No. 17.

Day	Vol.	St. Mi.	Sdgs.	No. Pos.
a	I	4.7	74	30
b	I	26.0	535	171
c	I&II	26.1	613	160
d	II	<u>17.3</u>	<u>336</u>	<u>121</u>
		74.1	1558	482

List of Signals on Sheet, Field No. 17.

Hydrographic name	Location
Alt -	Topographic signal, sheet J.
An -	" " " N.
Are -	" " " N.
Bear -	Bear Island, 1908.
Bet -	Topographic signal, sheet N.
Big -	" " " N.
Butt -	Buttress, 1929.
Bush -	Hydrographic signal, plotted from Boat Sheet.
By -	Topographic signal, sheet N.
El -	" " " M.
Fal -	Hydrographic signal, plotted from Boat Sheet.
Far -	Topographic " , sheet N.
Fin -	" " , " M.
Flo -	Topographic signal, sheet N.
Fly -	" " " M.
Fox -	Fox, 1929.
Gab -	Topographic signal, sheet N.
Gene -	" " " N.
Gil -	" " " N.
-	Harvester, 1908.
Ho -	Topographic signal, sheet N.
How -	" " " N.
If -	" " " N.
Kim -	" " " N.

List of Signals on Sheet, Field No. 17 (cont.).

Hydrographic name	Location.
La	Topographic signal, sheet N.
Leg	" " " "
Lew	" " " "
Low	" " " "
Mac	" " " "
Me	" " " "
Mil	" " " "
Nel	" " " "
Off	" " " "
On	" " " "
Or	" " " "
Pin	" " " M.
Pup	" " " J.
Rap	" " " N.
Ray	" " " "
Red	" " " "
Rex	" " " "
Rit	" " " "
Rob	" " " "
Rod	" " " "
Roy	" " " "
Rus	" " " "
Rye	" " " "
Saw	Hydrographic signal, plotted from Boat Sheet.

List of Signals on Sheet, Field No. 17. (cont.)

Hydrographic name	Location.
Say	Topographic signal, sheet N.
Sig	" " " "
So	" " " "
Spot	" " " "
Stan	Stan, 1908.
Tee	Topographic signal, sheet N.
Til	Hydrographic signal, plotted from Boat Sheet.
Tip	Topographic signal, sheet N.
To	Hydrographic signal, plotted from Boat Sheet.
Ton	Topographic signal, sheet N.
Ty	" " " "
Up	" " " "
Wit	Hydrographic signal, plotted from Boat Sheet.

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ecom

FOR FILES OF FIELD RECORDS SECTION

January 27, 1930.

Division of Hydrography and Topography:

Division of Charts:

Tide Reducers are approved in
volumes of sounding records for

2

HYDROGRAPHIC SHEET

4949

Locality:

Uyak Bay, Kodiak I., Alaska

Chief of Party:

Plane of reference H. R. Lukens, in 1929

ft. on tide staff ~~mean~~ lower low water, reading

2.4 ft. below B. M. Uyak

Condition of records satisfactory except as checked below:

1. Locality and sublocality of survey omitted.
2. Month and day of month omitted.
3. Time meridian not given at beginning of day's work.
4. Time (whether A.M. or P.M.) not given at beginning of day's work.
5. Soundings (whether in feet or fathoms) not clearly shown in record.
6. Leadline correction entered in wrong column.
7. Field reductions entered in "Office" column.
8. Location of tide gauge not given at beginning of day's work.
9. Leadline corrections not clearly stated.
10. Kind of sounding tube used not stated.
11. Sounding tube No. entered in column of "Soundings" instead of "Remarks".
12. Legibility of record could be improved.
13. Remarks.

Paul O. Walker

Chief, Division of Tides and Currents.

IN REPLY ADDRESS THE DIRECTOR
U. S. COAST AND GEODETIC SURVEY
AND NOT THE SIGNER OF THIS LETTER

AND REFER TO No. 11-DEM

DEPARTMENT OF COMMERCE
U. S. COAST AND GEODETIC SURVEY

WASHINGTON

March 18, 1930.

SECTION OF FIELD RECORDS

Report on Hydrographic Sheet No. 4949

Shelikof Strait - Harvester Island to Larsen Bay
Southwest Alaska

Instructions dated March 14, 1929 (SURVEYOR)

Chief of Party, R. R. Lukens.

Surveyed by C. A. Egner.

Protracted and soundings pencilled by C. A. George.

Verified and inked by G. Risegari.

1. The records conform to, and the plan and character of development fulfill the requirements of the General Instructions.
2. The plan and extent of development satisfy the specific instructions.
3. The few sounding line crossings shown are good. Though there is a general lack of crossing lines the work appears to be of a very good character.
4. The depth curves can be completed within the scope of the survey.
5. The junctions with work of other sheets cannot be made at this date, but will be done when these sheets are completed.
6. Attention might be called to a 28 fathom sounding (retained by direction of A. M. Sobieralski) located near position Lat. $57^{\circ} 35'$, Long. $154^{\circ} 58'$ (see also Descriptive Report, H. 4949, page 2) which appears to be an indication of a shoal in this area. Examination of this area on H. 2981 (the only other work done in this area) shows no work bearing on the spot in question.

Lat. $57^{\circ} 34'$, Long. $154^{\circ} 58'$ - The 20 fathom curve cannot be definitely drawn in. It appears that this area should have been more fully developed and judging from indications of shoal spots in this vicinity it is probable that this shoal extends farther eastwardly and may contain shallower depths.

7. Character and scope of surveying - good.
Field drafting - good.
8. Reviewed by G. Risehari, February 13, 1930.

Supplementary Report

See page 3 of the Descriptive Report, H. 4949, for note by R. R. Lukens regarding the discrepancies between shoreline and Cormorant Rock on topographic sheets concerned. After study of the matter it was decided by Chief of Field Records Section to consider the work on Topo. 4949 and 3898 to supersede the work in question on Topo. 2892.

Approved:

A. M. Solieralski
Chief, Section of Field Records (Charts)

J. S. Borden
Chief, Section of Field Work (H. & T.)

Owing to the uncertainty of the signal locations, all the hydrography eastward of the blue dashed line on H. 2964 is to be superseded by H. 4949, authority of Chief of Field Records. The important shoal soundings, however, have been transferred to H. 4949 as there is not enough evidence disproving their existence. Though the plotting of the above shoal soundings may be slightly in error due to the above mentioned reasons, yet it is believed that they approximate their correct locations and should be retained.

S.R.

DEPARTMENT OF COMMERCE
U. S. COAST AND GEODETIC SURVEY

C. & G. SURVEY
JAN 18 1930
ACC. NO.

REG. NO. 4949

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. 17. 4949

REGISTER NO. 4949

SW.

State South West Alaska.

General locality ~~Kodiak Island~~ Shelikof Strait

Locality Harvester Id. to Larsen Bay.

Scale 1:10,000 Date of survey August 12 - Aug 15, 1929.

Vessel Motor Sailer. Str. Surveyor.

Chief of Party R.R. Lukens.

Surveyed by C.A. Egner.

Protracted by C.A. George.

Soundings penciled by C.A.G.

Soundings in fathoms ~~feet~~

Plane of reference M.L.L.W.

Subdivision of wire dragged areas by

Inked by

Verified by

Instructions dated March 14, 1929.

Remarks:

2 Vols.
Res. R.M.
135.

IN REPLY ADDRESS THE DIRECTOR
U. S. COAST AND GEODETIC SURVEY
AND NOT THE SIGNER OF THIS LETTER

AND REFER TO NO. 11-DEM

DEPARTMENT OF COMMERCE
U. S. COAST AND GEODETIC SURVEY

WASHINGTON March 18, 1930.

SECTION OF FIELD RECORDS

Report on Hydrographic Sheet No. 4949

Shelikof Strait - Harvester Island to Larsen Bay
Southwest Alaska

Instructions dated March 14, 1929 (SURVEYOR)

Chief of Party, R. R. Lukens.

Surveyed by C. A. Egner.

Protracted and soundings pencilled by C. A. George.

Verified and inked by G. Risegari.

1. The records conform to, and the plan and character of development fulfill the requirements of the General Instructions.
2. The plan and extent of development satisfy the specific instructions.
3. The few sounding line crossings shown are good. Though there is a general lack of crossing lines the work appears to be of a very good character.
4. The depth curves can be completed within the scope of the survey.
5. The junctions with work of other sheets cannot be made at this date, but will be done when these sheets are completed.
6. Attention might be called to a 28 fathom sounding (retained by direction of A. M. Sobieralski) located near position Lat. $57^{\circ} 35'$, Long. $154^{\circ} 58'$ (see also Descriptive Report, H. 4949, page 2) which appears to be an indication of a shoal in this area. Examination of this area on H. 2981 (the only other work done in this area) shows no work bearing on the spot in question.

Lat. $57^{\circ} 34'$, Long. $154^{\circ} 58'$ - The 20 fathom curve cannot be definitely drawn in. It appears that this area should have been more fully developed and judging from indications of shoal spots in this vicinity it is probable that this shoal extends farther eastwardly and may contain shoaler depths.

7. Character and scope of surveying - good.
Field drafting - good.
8. Reviewed by G. Risegari, February 13, 1930.

Supplementary Report

See page 3 of the Descriptive Report, H. 4949, for note by E. R. Lukens regarding the discrepancies between shoreline and Cormorant Rock on topographic sheets concerned. After study of the matter it was decided by Chief of Field Records Section to consider the work on Topo. 4949 and 3898 to supersede the work in question on Topo. 2892.

Approved:



Chief, Section of Field Records (Charts)

Chief, Section of Field Work (H. & T.)

11-WSW

August 25, 1930.

SECTION OF FIELD RECORDS

Report on Hydrographic Sheet No. 4950

Coast of Kodiak Island, Alaska.

Surveyed in 1929

Instructions dated March 14, 1929 (Surveyor)

Hand lead and Machine soundings

Chief of Party, R. R. Lukens.

Surveyed by C. A. Egner.

Protracted and plotted by H. F. Garber.

Verified and inked by J. Fleming.

1. The records conform to the requirements.
2. The plan, character and extent of the survey satisfy the general and specific instructions.
3. Practically no cross lines were run.
 - a. Agreement of adjacent lines is good.
4. The information is sufficient for completely drawing the usual depth curves.
5. The junction on the east with H. 4949 is satisfactory.
 - a. The junction with H. 4948, on the north, is satisfactory as far as it goes. Apparently there is no junction with contemporary work west of Long. 154° 15'.
 - b. The junction on the west with H. 4947 appears satisfactory, but this sheet has not yet been verified and this junction will be reported on in the review of H. 4947.
6. The usual amount of field plotting was well done by the field party.

7. Character and scope of surveying --- very good.
 - a. The ground is uniformly covered and shoal development is sufficient.

It is noted that the shore line of Bear Island was not run on either T. 4476 or T. 4479. This was put on this sheet from T. 2892.
8. No additional work within the limits of this sheet is necessary.
9. Reviewed by R. L. Johnston, March 13, 1930.

Approved:

Chief, Section of Field Records (CHARTS)

Chief, Section of Field Work (H. & T.)

Field Records Section (Charts)

HYDROGRAPHIC SHEET No. 4949

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

Number of positions on sheet 482
Number of positions checked 50
Number of positions revised 5
Number of soundings recorded 1558
Number of soundings revised 15
Number of signals erroneously
plotted or transferred

Date: Feb. 13, 1930

Cartographer: G. P. Risegari