

5074

Diag Cht. No 8502-2 & 8556-1

Form 504
Ed. June, 1928

DEPARTMENT OF COMMERCE
U. S. COAST AND GEODETIC SURVEY
R. S. PATTON, Director

U. S. COAST & GEODETIC SURVEY
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MAR . 7 1931

State: ALASKA.

Acc. No. _____

DESCRIPTIVE REPORT

~~Tropics~~ } Sheet No. **11**
Hydrographic } **5074**

LOCALITY

Olga Bay, NARROWS.

Kodiak Island, S.W. Alaska.

19 30

CHIEF OF PARTY

F. H. HARDY, Lt. Comdr. U.S.N.

5074

DEPARTMENT OF COMMERCE
U. S. COAST AND GEODETIC SURVEY

REG. NO. 5074

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. 11

REGISTER NO. 5074

State ~~S.W.~~ Alaska.

General locality Kodiak Island.

Locality Olga Bay, NARROWS.

Scale 1:10,000 Date of survey September, 1930

Vessel Wildcat, M/S, Launches No. 3 and 4, Gig.

Chief of Party F.H.HARDY.

Surveyed by C.D.Meaney, R.J.Sipe.

Protracted by R.J.Sipe.

(Soundings penciled by * See Director's letter dated Nov. 12-th, 1930, Referenced 25-MDS.

Soundings in fathoms _____ feet

Plane of reference _____

Subdivision of wire dragged areas by _____

Inked by J.T. Walker

Verified by J.T.W.

Instructions dated April 1-st, 1930., 192

Remarks: * Soundings penciled by H.W. Murray (Field Records Section)

DESCRIPTIVE REPORT

to accompany

HYDROGRAPHIC FIELD SHEET No.11

The NARROWS, Olga Bay, Kodiak Island, Alaska.

Str. SURVEYOR.

F.H.HARDY, Com'd'g.

SCALE 1 : 10,000

INSTRUCTIONS.

This work was done under Instructions dated April 1-st, 1930.

Soundings were not plotted, (in accordance with The Director's Letter dated Nov.12-th, 1930 Ref.25 MDS.)

SURVEY METHODS.

Hand lead was used for depths up to 10 fathoms, and vertical casts were made with power driven sounding machines at greater depths. It was found that more accurate soundings could be made with the wire and heavy lead in ten fathoms or more. The power driven sounding machines were located in the after cockpits on Launches No.3 & 4, with wire leading over the starboard side. On the Motor Sailer the machine is forward, with the wire leading out on the port side.

Ranges were used in running the lines. Work was discontinued whenever the current became too strong for accurate soundings.

TIDES.

When soundings were taken, tide staffs located at each end of the Narrows were observed. Automatic tide gauges were also in operation at Olga Bay Cannery and at Trap Point.

DANGERS.

The strong currents and numerous shoals make navigating difficult in the Narrows, and it is advisable to have local information before entering.

The following colored ink was used in plotting
Launch 1 - Blue .. Launch 3 - Green
Launch 2 - Yellow .. Motor Sailer - Violet
Launch 4 - Red

Approved & forwarded
F. H. Hardy
Commanding Officer
Inspector

Respectfully Submitted,

R. J. Sipe
R. J. Sipe,
Jr. H.&.G.E. C&GS.

List of Signals on Sheet # 11.

UPPER	...	UPPER, 1930
PAK .		Pak, 1930
IS .		ISLE. 1930
CO.		COVE. 1929
TUFF.		TUFF. 1929
CHIP.		CHIP. 1929
SNUG.		SNUG. 1929

Fin.	Topo.Sheet "E".	Dub.	Topo.Sheet "E".
Old.	do.	Sad.	do.
Sam.	do.	Ro.	do.
Far.	do.	Dog.	do.
Now.	do.	Off.	do.
You.	do.	Rat.	do.
Can.	do.	End.	do.
See.	do.	Put.	do.
Men.	do.	Lit.	do.
Mad.	do.	Pat.	do.
Nap.	do.	Ten.	do.
Pol.	do.	Ket.	do.
Fag.	do.	Ton.	do.
Toy.	do.		
Dik.	do.		
Swan.	do.		
Son.	do.		
Has.	do.		
Bert.	do.		
Gun.	do.		
Red.	do.		
Lob.	do.		
Rin.	do.		
Day.	do.		
Cone.	do.		

STATISTICS FOR FIELD SHEET # 11.

Vol.	Boat.	Day.	St.mi. of.Sdgs.	Positions, No. of.	Soundings, No. of.
1.	Wildeat.	a	2.2	23	89
2.	# 4.	a	10.0	117	299
3.	# 4.	b	4.5	58	135
2.	# 4.	c	14.3	161	349
2.	# 4.	d	8.0	106	284
3.	# 3.	a	7.6	85	272
3.	# 3.	b	0.7	8	15
4.	M/S.	a	2.2	20	76
4.	M/S.	b	11.3	140	469
4.	M/S.	c	1.3	16	51
4.	M/S.	d	1.0	12	37
4.	M/S.	e	5.4	67	202
4.	Gig.	a	1.0	27	78
TOTAL :-.....			69.5	840	2356

11
16
April 23, 1931

Division of Hydrography and Topography:

✓ Division of Charts:

Tide Reducers are approved in
4 volumes of sounding records for

HYDROGRAPHIC SHEET 5074

Locality Olga Bay Narrows, Kodiak Island, S. W. Alaska

Chief of Party: F. H. Hardy in 1930

(*) Plane of reference is mean lower low water, reading

5.8 ft. on tide staff at Trap Point

16.7 ft. below B. M. 1

-0.1 ft on tide staff at Olga Bay Narrows (Lower Station)

14.5 ft below B. M. 2

5.8 ft on tide staff at Olga Bay Narrows (Upper Station)

6.1 ft below B. M. 1

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 F. Whitney

Chief, Division of Tides and Currents.

(*) Allowance made for range of tide at place of sounding.

Section of Field Records.

Report on sheet H 5074
Chief of Party F. H. Hardy
Protracted by R. J. Sipe
Verified and Inked by
J. W. Alker

Surveyed in Sept. 1930
Surveyed by C. D. Meaney and
R. J. Sipe.
Soundings plotted by H. W. Murray

I. Sounding Records.

The sounding records were neat, legible and complete.

II. Protracting.

A few slight errors were found in the protracting but no major discrepancies were discovered.

III. Soundings.

The soundings on this sheet were penciled in by Mr. Murray of Field Records section.

No bad crossings were found. The soundings which appear erroneous in either depth or position probably appear so because of the irregular and rocky bottom.

IV. Conformity to General Instructions.

No geographic names were on the sheet; such as now appear being added by the writer. Narrows Cove appears on T 4579 in pencil and as the report for that sheet says it was assigned by Field Officers it was not inked in on H 5074. Mr. Bacon says to leave it in pencil until it is authorized by the proper authorities.

The shoreline was inked in but the low water line was not. The low water line was transferred by the writer with such alterations as were necessary to make it conform with the soundings.

V. Overlap

The only new work which this sheet joins is with H 5075 to the north which has not yet been verified. H 4970 appears to join on the diagram but does not.

H 2864 is the only old sheet in this area and it only goes as far north as Lat $57^{\circ}-01'$. It is at present being enlarged to the scale of H 5074 and when the photostat is received a comparison will be made.

VI. Development of Shoals.

The four shoals north east of Δ Isle appear to be adequately developed.

An additional cross line should have been run just west of signal End.

The shoalest portion of the channel appears in the middle of The Narrows between Shag Rock and signal Men. By much maneuvering 4 fathoms could perhaps be carried but not without considerable danger.

VII. Comparison with other data.

The sounding records have been inspected and the notes relating to kelp and tide rips (which were the only dangers described) have been plotted.

The boat sheet has been inspected and nothing was found on it which has not been, or should be, shown on the smooth sheet.

The topo sheet T4579 has been inspected and all the dangers shown on it have been transferred to the smooth sheet.

The largest scale chart of this area is 8502 which is on much too small a scale to be of any value for comparative purposes.

The descriptive report is very brief and no comment can be made on it by the writer. As the soundings were not plotted on the smooth sheet in the field this probably accounts for the brevity of the descriptive report.

Respectfully submitted
 J. Walker
 5/22/31

Note: The enlargement of H2864 was compared with a tracing of H5074 and fair agreement was found with both the soundings and shoreline.

J.W.
 5/25/31

Field Records Section (Charts)

HYDROGRAPHIC SHEET No. *5074*

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

Number of positions on sheet	.. <i>840</i>
Number of positions checked	.. <i>372</i>
Number of positions revised <i>10</i>
Number of soundings recorded	.. <i>2356</i>
Number of soundings revised <i>12</i>
Number of signals erroneously plotted or transferred <i>0</i>

Date:.....*May 21, 1931*.....

Cartographer:.....*J. W. Walker*.....

SECTION OF FIELD RECORDS

Report on Hydrographic Sheet No. 5074.
Olga Bay Narrows, Kodiak I., Alaska.
Surveyed in 1930.
Hand lead and machine soundings.
Instructions dated April 1, 1930 (Surveyor)

Chief of Party - F. H. Hardy.
Surveyed by - C. D. Meaney, R. J. Sipe.
Protracted by - R. J. Sipe.
Soundings plotted by - H. W. Murray.
Verified and inked by - J. T. Walker.

1. The records are well kept and conform to the requirements.
2. The plan, character and extent of the survey satisfy the general and specific instructions except as noted in paragraph 5.
3. For an area of such irregularity and strong currents, the sounding line crossings are adequate and satisfactory.
4. North of Lat. 57°01', the information is sufficient for completely drawing the usual depth curves. The low water line, as taken from T4579, was only changed at such places as disagreed with the soundings, although from a study of soundings adjacent to it, it seems probable that parts of it were determined at some time other than M. L. L. W.
5. The junction on the north with H. 5075 will be reported in the review of that sheet when it is completed.

This work does not extend far enough south to join the work of 1929, H. 4970. It does however make a satisfactory junction with the survey of 1906, H. 2864. A number of split lines were run within the limits of H. 2864, which agree well with the hydrography on H. 2864 but are not sufficient to enable the cartographer to make a selection from the present season's work. (Par. 16, specific instructions). There is no previous hydrographic survey covering the Narrows.

6. The protracting was acceptably done by the field party. The soundings were not plotted in the field but were plotted in the office.

7. Character and scope of surveying.

North of Lat. 57°01' the ground has been closely covered and the shoals adequately developed. The survey in this area is considered excellent.

8. No additional work is recommended in the area mentioned in the above paragraph. South of this down to the northern limits of H. 4970, it is doubtful whether any additional work is necessary since the split lines show good agreement with H. 2864.

9. Reviewed by R. L. Johnston - June 4, 1931.

Approved: A. M. Sobieralski. (*Signed*)