

4249

Diag. Cont. No. 8102-2

4249

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

State: Alaska

11-5813

DESCRIPTIVE REPORT.

Hyd. Sheet No. 123

LOCALITY:

Ingalan Narrows
Ketchikan Waterfront

192⁹

CHIEF OF PARTY:

G. M. L. O'Connell

DEPARTMENT OF COMMERCE
U.S.COAST AND GEODETIC SURVEY
E. Lester Jones, Director.

DESCRIPTIVE REPORT

to accompany

HYDROGRAPHIC SHEET "H"
Supplementing Hydrographic Sheet No.2856
Tongass Narrows, Ketchikan Waterfront.

-----ooOoo-----

Season of 1922

Steamer WETONAII

A.M.Sobieralski, H.& G. E., Chief of Party

DEPARTMENT OF COMMERCE
U.S.COAST AND GEODETIC SURVEY

E. Lester Jones, Director.

D E S C R I P T I V E R E P O R T

to accompany

HYDROGRAPHIC SHEET "H"
Supplementing Hydrographic Sheet No. 2856
Tongass Narrows, Ketchikan Waterfront.

-----ooOoe-----

Season of 1922

Steamer WIMOHAN

A. M. Sobieralski, H. & G. E., Chief of Party

DESCRIPTIVE REPORT

to accompany

HYDROGRAPHIC SHEET "H"
Supplementing Hydrographic Sheet #2856
Tongass Narrows, Ketchikan Waterfront

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The work on this sheet was done by W. T. Combs, Jr. H. & G. Engineer. A few soundings were taken along faces of docks, etc. by C. A. Egner, H. & G. Engineer.

A list of docks along the Ketchikan waterfront with least depth of water along the face is added at the end of this report.

A reported shoal spot off the Selig Fish Co's dock was investigated. An improvised drag was used to locate the spot and then the area was carefully sounded. A sounding of 26 feet was obtained 320 meters 202° (true) from the face of Selig's docks and coincides with the 4 $\frac{1}{2}$ fathom spot shown on the chart. At an extreme low tide this depth would cause some of the larger vessels to ground.

No new dangers were found, but as the faces of many of the wharves in the main part of town have been extended, as shown by the revised topography, greater depths are available than shown on the present chart.

The rocks shown on the chart lying off the face of the Northland dock and the 16-foot spot mentioned in the Coast Pilot have been covered by the new face of the Northland dock. This fact should be published in the "Notice to Mariners" in advance of the publication of a new edition of the chart, as this is one of the most important docks on the waterfront and vessels without local knowledge refuse to go alongside on account of these reported dangers, causing considerable inconvenience to the owners.

In the vicinity of the Old Lighthouse Dock, the rocks and shoal water shown on the old chart have been covered by docks.

In the vicinity of Selig's dock the new chart should show that the 4 $\frac{1}{2}$ fathom spot previously mentioned is a detached shoal with deeper water around it; otherwise this dock would appear to be inaccessible at low water to the larger vessels.

Some additional work was done to better develop the edge of the flats extending from Bar Point to Charcoal Point. The only dock in this vicinity used by larger vessels is the Sunny Point Packing Co's dock. This dock makes an excellent landmark for vessels approaching from the northward. A light on this dock would be of considerable help at night.

Fifty meters 159° (true) from Beacon No.6 (300 meters northwestward of the Sunny Point Packing Co's dock) the flats extend out beyond the line between the dock and the beacon. This fact should be emphasized on the chart as it is generally considered safe to run from the dock to the beacon, especially if passing a southbound steamer.

Vessels passing the dock of the Sunny Point Packing Company should reduce speed as considerable damage has been done to floats, etc. by the wake of vessels passing at full speed. An application has been made to the proper authorities by the owners to make this a harbor regulation.

The dock of the Ketchikan Power Co. lying about 200 meters northwestward of the beacon off the Ketchikan Creek flats, is being used to a considerable extent by large vessels. The 15 foot spot shown on hydrographic sheet #2856 lying 90 meters 168° (true) from the S.W. corner of this dock, should be emphasized on the chart, as it is a danger both in approaching this dock and in leaving the Hechman dock.

All the docks along the waterfront are uncomfortable for small boats in bad weather, and at times considerable damage has been done to them. The city float is probably the best sheltered place. The wake of passing vessels also affects small craft, and for this reason there has been a movement to establish harbor regulations prescribing the maximum speed of passing vessels. In order to furnish a proper harbor for small boats, it has been proposed to build a breakwater from Idaho Rock (off Saxman) to the shore. A few soundings were taken in this vicinity, and the depths found make it appear that a breakwater would be an expensive undertaking.

A few soundings were also taken in the vicinity of the U.S.C.S. G.S.boathouse on Gravina Island.

Respectfully submitted

A. M. Sobieralski
A. M. SOBIERALSKI, U.S. G.E.,
C Chief of Party.

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Respectfully submitted

A. M. Sobieralski

A. M. SOBIERALSKI, H. & G. E.,
Chief of Party.

LIST OF DOCKS ALONG KETCHIKAN WATERFRONT
AND LEAST DEPTH FOUND AT FACE

Position	Dock	Least Depth in ft. at MLLW
1 - 4 a	New Lighthouse	26
5 - 7 a	Standard Oil	56
9 - 12 a	New England Fish Co	26
14 a	Fidalgo Id. Packing Co.	23
50c, 24 - 26 a	Ketchikan Power Co, sawmill	40
27 a	Heckman dock	55
30 - 31a	Alaska S.S. Co	37
32 - 34a	Northland	35
35a	Forest Service Floats	75
36a	City Float	72
28a, 84 - 85c	Northern Machine Works	30
39 - 40a	Beagle Packing Co, cannery	33
42 - 43a	Old Lighthouse	36
18a	Benolkin Fish Co	22
70a	Selig Fish Co (Selig(s))	29
57 - 58a	Sunny Point Packing Co	34
32 - 33c		
40 - 41c	Smiley Packing Co. Cannery	35

STATISTICS SHEET No. _____

Date, 1922	Letter	Vol- ume	Posi- tions	Sound- ings	Miles Statute	Vessels
October 13	a	1	80	80	3.1	16' dinghy
14	b	1	29	29	2.2	" "
28	c	1	22	17	1.0	" "
20	a	1	119	362	17.0	Lch. 117
23	b	1	9	21	1.0	" "
24	c	1	89	251	9.0	" "
26	d	1 & 2	47	127	5.2	" "
Totals			395	887	38.5	

412.

COPY TO FIELD RECORDS.

Feb. 5, 1925.

Division of Hydrography and Topography:

Division of Charts:

Tide reducers are approved in
3 volumes of sounding records for

HYDROGRAPHIC SHEET 4249

Locality: **Tongass Narrows, Ketchikan Waterfront, S.E. Alaska**

Chief of Party: **A. M. Sobieralski in 1925**

Plane of reference is **mean lower low water, reading
6.5 ft. on tide staff at Ketchikan (automatic gauge)**

For reduction of soundings, 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 each 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.

H. Arman
Acting Chief, Division of Tides and Currents.

Section of G. Record
Report on N. Sh. 4249
Surveyed in 1922.
Instructions dated

C. of P. A. M. Sobieralski
Surveyed by W. T. Combs and C. A. Egner
Protracted by W. T. Combs
Adgs plotted by W. C. A.

1. Boat's head by compass omitted throughout sounding records.

The few bottom characteristics which were recorded were insufficient.

The station marked "Dot" on the smooth sheet was called "Dolphin" in the Sounding Records.

2. The protracting was very good but some of the soundings were incorrectly penciled on the smooth sheet. (Eleven mistakes were found).

3. No cross lines were run in the development of the survey. Other than this the development was good and was sufficient to draw the usual depth curves.

4. The work departed from standard practice in one case when an improvised drag was constructed and used to locate a reported shoal. After the shoal was located, soundings were taken with the lead line until the shoal was fully determined.

W. T. C.

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

March 19, 1923.

SECTION OF FIELD RECORDS

Report on Hydrographic Sheet No. 4249

Surveyed in 1922.

Instructions dated February 18, 1922.

Chief of Party, A. M. Sobieralski.

Surveyed by W. T. Combs and C. A. Egner.

Protracted by W. T. Combs

Soundings plotted by W. C. Aegerter

Verified and inked by H. W. Tyler.

1. The records conform to the requirements of the General Instructions with the following exceptions:

Compass courses omitted throughout.

Bottom characteristics omitted throughout, with a few exceptions.

An Dot on smooth sheet was called "Dolphin" in sounding records.

2. The plan and character of development fulfill the requirements of the General Instructions.
3. The plan and extent of development satisfy the specific instructions.
4. Sounding line crossings are adequate.
5. The information is sufficient for drawing the usual depth curves.
6. The field plotting was completed to the extent prescribed in General Instructions and none of it had to be done over by the office draftsmen.
7. The junction with Hydrographic 2856 is satisfactory.

8. No further surveying is required within the limits of the sheet.
9. The name Charcoal Pt. is mentioned in the descriptive report as lying within the area of the sheet, but it is not given on either the hydrographic or topographic surveys or on the chart. Its location, therefore, is unknown.
10. The character of the surveying and protracting is excellent, but the plotting of soundings only fair. (11 mistakes were made in plotting soundings).
11. Reviewed by E. P. Ellis, March, 1925.

POST-OFFICE ADDRESS: 202 Burke Bldg., Seattle, Wash.

TELEGRAPH ADDRESS:

EXPRESS OFFICE:

DEPARTMENT OF COMMERCE
U. S. COAST AND GEODETIC SURVEY
Str. SURVEYOR.

14
1929
Division of Charts
3 not wanted
R-75.

COAST PILOT (C)
January 23, 1929.

To: The Director,
Coast & Geodetic Survey.

From: Commanding Officer,
Str. SURVEYOR.

Subject: Depth of water at Ketchikan wharves.

There is enclosed herewith a copy of the data furnished the Commercial Club of Ketchikan in reference to the depth of water at the important wharves in Ketchikan, Alaska.

R. R. Lukens
R. R. Lukens, Commanding.

Inspected by E. F. ...
Feb. 1929

The soundings referred to in this letter are contained in Vol. 1, H. 4249 Add Work 1928. The soundings were taken from the docks as per note at end of attached letter. They are generally shoaler than draft of vessels using the docks. On account of the method of taking the soundings, they are considered of no charting value and have therefore not been plotted on the hydrographic sheet.

Feb. 18, 1928

A. M. Sobieralski
Chf. section Field Recs.

Depths of water at the various
docks at Ketchikan Alaska.

Oct. 19, 1928.

Name	Depth Feet MLLW	Remarks.
Tongass Trading Co. Face, 160 feet	57 1/2	Least depth at northern end of dock.
Talbot & Spaulding and Sunrise Cannery Total face 265 ft.	27 1/2	Least depth 50 to 75 feet from south end. 27 1/2 to 39 1/2 feet at north. half of dock.
Northern Machine Wks North face, 86 ft.	30	
Northern Machine Wks South face 65 ft.	58	
City float 246 feet long	77	77 feet at inner end and 108 feet at outer end.
Ketchikan Cold Storage Northern 500 feet.	32	
Ketchikan Cold Storage Southern 90 feet	27	
Alaska S.S.Co. Northern 400 feet	22	
Alaska S.S.Co. Southern 40 feet	16	
Heckman Wharf Face 218 feet	37	
Ketchikan Spruce Mills Face 197 feet	22	Least depth at north end. 36 feet midway along face.

** 8 fathoms shown on chart. ans.*

Name	Depth Feet. MLLW	Remarks.
Fildalge Pkg. Co North face, 102 ft.	24	Least depth at southern end. 31 feet at north end.
Fildalge Pkg. Co. South face, 119 ft.	15	Least depth 75 feet from northern end.
New England Fish Co. Face 440 feet	15 1/2	Least depth 125 feet from northern end.
Union Oil Co. Face 110 feet	33 1/2	
Standard Oil Co. Face, 184 ft.	46 1/2	
Lighthouse Service Face 360	17 1/2	Least depth 250 feet from northern end.

Note: The above depths were taken from the dock by means of a hand lead. Soundings average 3 to 5 feet away from the piers. Soundings are reduced to MLLW from the record of the automatic tide gauge on the Lighthouse Dock, Ketchikan.

The above data is compiled from unverified field records and subject to revision.

February 16, 1929.

E.A.L.

Division of Hydrography and Topography:

Division of Charts:

Tide Reducers are approved in
1 volume of sounding records for

HYDROGRAPHIC SHEET 4249 atd W.K.

Locality: Waterfront at Ketchikan, S. E. Alaska

Chief of Party: R. E. Lukens in 1928

Plane of reference is mean lower low water reading
2.5 ft. on tide staff at Ketchikan, Alaska.
~~XXXXXXXXXXXX~~

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.
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13. Remarks.

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Chief, Division of Tides and Currents.

DEPARTMENT OF COMMERCE
U. S. COAST AND GEODETIC SURVEY

HYDROGRAPHIC TITLE SHEET

The finished Hydrographic Sheet is to be accompanied by the following title sheet, filled in as completely as possible, when the sheet is forwarded to the Office.

U. S. Coast and Geodetic Survey.

Register No. 4249 (Supplementing Hyd. #2856)

State ALASKA

General locality . Tongass Narrows

Locality Ketchikan Waterfront

Chief of party . . A.M.Sobieralski, R. & G. E.

Surveyed by . . . W.T.Combs and C.A.Egner

Date of survey . . Oct. 13 - Oct. 25, 1922.

Scale 1:10,000.

Soundings in . . . Fathoms

Plane of reference M.L.L.W.

Protracted by W.T.C. . . . Soundings in pencil by W.C.A. . . .

Inked by . W.T. Verified by . H.W.T.

Records accompanying sheet (check those forwarded):

Des. report, _____ Tide books, _____ Marigrams, 1 Boat sheets,

3 Sounding books, _____ Wire-drag books, _____ Photographs.

Data from other sources affecting sheet

Remarks: Tides from Auto Tide Gauge at Ketchikan.