

4915

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Diag. Ch. No. 8550

Form 504 DEPARTMENT OF COMMERCE U. S. COAST AND GEODETIC SURVEY
State: <u>Alaska</u>
11-5613
DESCRIPTIVE REPORT.
Sheet No. <u>4915</u>
LOCALITY:
<u>Prince William Sound, -</u>
<u>Orca Inlet</u>
<u>Off Cordova</u>
<u>1930</u>
CHIEF OF PARTY:
<u>R.R. Lukens</u>

4915

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DEPARTMENT OF COMMERCE

AND REFER TO NO. 11-DRM

U. S. COAST AND GEODETIC SURVEY

WASHINGTON

March 21, 1930.

SECTION OF FIELD RECORDS

Report on Hydrographic Sheet No. 4915
Reconnaissance

Off Cordova, Prince William Sound, Alaska

Surveyed in 1929

No instructions issued for this work

Chief of Party, R. R. Lukens

Surveyed by R. R. L.

Soundings plotted and inked by P. L. Bernstein.

Verified by J. G. Ladd.

1. This survey was not intended as a complete survey of the area, but merely to indicate the various changes that have taken place since the last survey of 1908 (H. 2940). A detailed comparison has been made with the old survey and numerous changes are disclosed - shoalings in some places and deepening in others. The new survey is, however, not in sufficient detail to say with certainty that some of the old shoals no longer exist. The sheet cannot be combined in toto with the old work as is evident from a study of the two sheets. It is therefore recommended that the new work be used only to the extent of showing important encroachments upon the channel, such as between buoys N-8 and N-10, the shoalings off the Ocean Dock, and the depths off the City Dock, but not for the purpose of showing any deepenings. To this extent it should be considered only as a reconnaissance survey and merely a basis for further work.
2. Additional Work
It is quite clear that changes have taken place here, but to what extent is uncertain. It is also gathered from conversation with the Chief of Party that shipping interests are desirous of using Odiak Channel from Cordova to Orca Bay, but they dare not owing to the reported shoalings there. It is therefore recommended that a new survey be made to supplement the present reconnaissance survey (H. 4915) and in sufficient detail to determine the full extent of the changes that have taken place, and carried to a point where a proper junction can be effected with the old work.

Any additional work that is done here should include a development of Odiak Chammel.

3. Reviewed by A. L. Shalowitz, March 1930.

Approved:

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

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

H-4915

Chief of Party - R.R. Lukens
Surveyed by - " " "
Projected by - Field Party
Sounding reduced by - P.L. Bernstein
Verified by - John G. Ladd.

1. The records conform to the requirements of the general instructions.
2. The usual depth curves could be drawn.
3. The sheet was intended as a boat sheet and was plotted and reduced by the field party.

The projection, and triangulation stations were checked and found to be O.K. after allowing for shrinkage.

The plotting of the position were checked and the spacing ~~was~~ upon examination ~~was~~ was found to be spaced only with Boat sheet accuracy that is, poor as compared to requirement of the smooth sheet. This spacing was corrected to a fair degree of accuracy.

- 4 The detail of the ocean Docks were transferred from Topo 4443
- 5 The soundings from sheet # 2940, in parenthesis, were applied to this sheet by the field Party.
6. The sounding line crossings are fairly good, ~~altho~~ they do not check with ~~the~~ soundings taken from sheet # 2940.

John S. Ladd
jr. Contr. Eng.
March 7th 1930

FOR FILES OF FIELD RECORDS SECTION

February 1, 1930

Division of Hydrography and Topography:

Division of Charts:

Tide Reducers are approved in
1 volumes of sounding records for

HYDROGRAPHIC SHEET 4915

Locality: Prince William Sound, Alaska

Chief of Party: R. H. Lukens, in 1929

Plane of reference: mean lower low water, reading
-1.4 ft. on tide staff at Orca
ft. below B. M.

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 C. Whitney

Chief, Division of Tides and Currents.

DEPARTMENT OF COMMERCE
U. S. COAST AND GEODETIC SURVEY

C. & G. SURVEY
L. & A.
JUN 28 1929
Acc. No.

REG. NO.
4915

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. No number

REGISTER NO. ⁴⁹¹⁵ **4915**

State Alaska

General locality Prince William Sound, Orca Inlet

Locality Off Cordova

Scale 1:10,000 Date of survey May, 1929

Vessel Str. SURVEYOR

Chief of Party R.R. Lukens

Surveyed by R.R. Lukens

Protracted by Boat sheet only

Soundings penciled by P.L. Bernstein

Soundings in ~~fathoms~~ feet

Plane of reference MLLW at Orca tide gauge

Subdivision of wire dragged areas by - - - - -

Inked by P.L. Bernstein

Verified by John G. Ladd

Instructions dated March 14, 1929, 1929

Remarks: This sheet is in the nature of a reconnaissance survey to determine whether or not any changes had taken place since last survey. Sheet also shows location of aids to navigation and City Dock.

Boat Sheet only submitted

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 21, 1930.

SECTION OF FIELD RECORDS

Report on Hydrographic Sheet No. 4915
Reconnaissance

Off Cordova, Prince William Sound, Alaska

Surveyed in 1929

No instructions issued for this work

Chief of Party, R. R. Lukens

Surveyed by R. R. L.

Soundings plotted and inked by P. L. Bernstein.

Verified by J. G. Ladd.

1. This survey was not intended as a complete survey of the area, but merely to indicate the various changes that have taken place since the last survey of 1908 (H. 2940). A detailed comparison has been made with the old survey and numerous changes are disclosed - shoalings in some places and deepening in others. The new survey is, however, not in sufficient detail to say with certainty that some of the old shoals no longer exist. The sheet cannot be combined in toto with the old work as is evident from a study of the two sheets. It is therefore recommended that the new work be used only to the extent of showing important encroachments upon the channel, such as between buoys N-8 and N-10, the shoalings off the Ocean Dock, and the depths off the City Dock, but not for the purpose of showing any deepenings. To this extent it should be considered only as a reconnaissance survey and merely a basis for further work.

2. Additional work

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Any additional work that is done here should include a development of Odiak Channel.

3. Reviewed by A. L. Shalowitz, March 1930.

Approved:

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

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

Field Records Section (Charts)

HYDROGRAPHIC SHEET No. 4915..

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

Number of positions on sheet	.78..
Number of positions checked	.29.
Number of positions revised	..none
Number of soundings recorded	..849
Number of soundings revised	...20
Number of signals erroneously plotted or transferred	..none

Date:..... March 7th 1930

Cartographer:..... John G. Peed