

6169

WIRE DRAG

U. S. COAST & GEODETIC SURVEY
LIBRARY AND ARCHIVES

MAR 10 1937

Acc. No. _____

6169 WD

Form 504
Ed. June, 1928

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

State: California

DESCRIPTIVE REPORT

WIRE DRAG
Topographic }
Hydrographic } Sheet No. 12

LOCALITY
California Coast
Northern Coast of California
Buck Cr. Gitchett Cr. to Hadley Cr.
~~From 1/2 Mile South of Buck Creek to~~
~~2 Miles North of Big Flat.~~

1936

CHIEF OF PARTY
F. H. Hardy

See
Name
LIST

WIRE DRAG
6169

DEPARTMENT OF COMMERCE
U. S. COAST AND GEODETIC SURVEY

REG. NO.

WIRE DRAG
~~HYDROGRAPHIC SHEET~~ 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. 12

REGISTER NO. H6169 W.D.

State California

General locality Northern Coast of California Coast
Buck Gitchell Cr. to Hadley Cr.

Locality ~~From 1/2 mile South of Buck Creek to 2 miles North of Big Flat~~
Aug.

Scale 1:10,000 Date of survey July 16, 27 & 14, 19 37

Vessel GUIDE

Chief of Party F. H. Hardy

Surveyed by I. E. Rittenburg

Protracted by H. G. Conerly

Soundings penciled by H. G. Conerly

~~Soundings in Columns~~ feet Drag Depths in Feet

Plane of reference M.L.L.W.

Subdivision of wire dragged areas by H. G. Conerly

Inked by H. G. Conerly

Verified by J. A. Mc Cormick

Instructions dated May 31, 1934, & H. & T. January 21, 1936
2nd para. of letter of Chf. Div.

Remarks: Dual Control-Visual Fixes using Chartered Launches

VIRGINIA 1 (guide launch) and CAPON (End Launch)

DESCRIPTIVE REPORT
to accompany
WIRE DRAG SHEET FIELD NO. 12
Project No. HT-206
Coast of California
U.S.C. & G.S.S. GUIDE
1936

INSTRUCTIONS: Instructions for this work were dated May 31, 1934, ✓
and in the third paragraph of a letter from the Chief, Division of
Hydrography and Topography dated January 21, 1936.

CHARACTER AND LIMITS OF WORK: This sheet covers that area of the
Northern California from about one-half mile south of Buck Creek to
about 2 miles north of Big Flat, and from about one-third mile off-
shore to about one mile offshore in the area south of Big Flat and ✓
2 1/4 miles offshore in the area north of Big Flat, to well beyond
the 20 fathom curve. The inshore limit of the drag was governed
by the kelp line and the safe inshore limit of operation of the
launches because of swell, etc. This sheet joins with Wire Drag
Sheet Field No. 11-36 on the south and Wire Drag Sheet Field No.
13 on the north.

The scale of this sheet is 1 : 10,000. ✓

The position interval was five minutes practically through- ✓
out the sheet, except at the beginning of lines and radical changes
in course and speed.

Dual control and visual fixes were used throughout. ✓

Effective depths ranged from 18 to 83 feet. ✓

CONTROL AND DATUM: This sheet is on the ~~final adjusted~~ North
American ¹⁹²⁷ datum. Signals and shoreline were taken from topographic
sheets field letters G and H, 1935, work of this vessel. The triang-
ulation control was that of 1930. One Hydrographic Signal, DRIFT, ✓
was located by the launch hydrographic party on Sheet Field No. 2, 1936
and the cuts are indexed in that volume. The cuts are shown on this
sheet in pencil. None of the topographic features, offlying rocks,
etc. shown on this sheet were located by this party but were all traced
from the topographic sheets G and H mentioned above and therefore should
not be considered.

DATES OF SURVEY: Parts of three day's work was done on this sheet, ✓
July 16, 27 and August 14, 1936.

TIDAL REDUCERS: Tide reducers for this sheet were taken from the records of a portable automatic tide gage operated at Shelter Cove, California. For further tidal information see attached Tidal Data Sheet. ✓

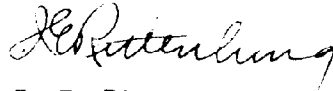
JUNCTIONS AND OVERLAPS: This sheet joins with wire drag sheets field Nos. 11-36 on the south and 13-36 on the north. As all three lines are continued onto these sheets, the junctions are good. The overlaps of adjoining and adjacent strips are also good. ✓

GROUNDINGS and SPLITS: None. ✓

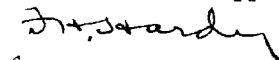
COMPARISON WITH PREVIOUS SURVEYS AND CHART: There are no soundings on either Chart 5602 or Hydrographic Sheet Field No. 2-36 that are shoaler than the dragged depths. ✓

PERSONNEL AND EQUIPMENT: Lieutenant I. E. Rittenburg was in charge of this work and in charge of the guide launch. Lieutenant (j.g.) Walter J. Chovan was in charge of the end launch. Chartered Launch VIRGINIA was used as guide launch and Chartered Launch CAPON as end launch. Standard wire drag equipment was used. ✓

Respectfully submitted,


I. E. Rittenburg,
H & G Engineer,
C. & G. Survey.

Forwarded and approved:


F. H. Hardy, Chief of Party,
Coast & Geodetic Survey,
Commanding Ship GUIDE.

STATEMENT
to accompany
WIRE DRAG SHEET FIELD NO. 12
1936

The plotting and protracting of buoy positions
was done by Ensign H. G. Conerly. ✓

The drag areas were subdivided and inked by
Ensign H. G. Conerly. ✓

The completed smooth sheet has been inspected
and is approved. ✓

F. H. Hardy
F. H. Hardy,
Chief of Party, C. & G. S.,
Commanding Ship GUIDE.

STATISTICS
 to accompany
 WIRE DRAG SHEET FIELD NO. 12
 1936

Date 1936	Day Letter	Volume	Statute Miles	Positions	Drag Length Feet	Tender Soundings	Positions
July 16	A	1	4.7	38	6,000	0	0
27	B	1	3.4	19	10,000	0	0
Aug. 14	C	1	2.5	16	9,600	0	0
<u>TOTALS</u>			10.6	73		0	0

AREA 8.6 SQUARE STATUTE MILES.

Field Records Section (Charts)

HYDROGRAPHIC SHEET NO **H6169** W. D.

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

Number of positions on sheet	... 13 .
Number of positions checked 6 .
Number of positions revised 0 .
Number of soundings recorded 0 .
Number of soundings revised 0 .
Number of signals erroneously plotted or transferred 0 .

Date: *May 11, 1937*

Verification by *J. A. Mc Cormick*

Time: *2 hrs.*

Review by *J. A. Mc Cormick*

Time: *10 hrs.*

Remarks

Decisions

	Remarks	Decisions
1		<i>USGB decision</i>
2		<i>off sheet on H-6168</i>
3		
4		
5		
6		
7		
8		
9		
10		
11		
12		
13		
14		
15		
16		
17		
18		
19		
20		
21		
22		
23		
24		
25		
26		
27		

GEOGRAPHIC NAMES

Survey No. **H6169** W.D.

Name on Survey	Sources										No.
	A	B	C	D	E	F	G	H	K		
	On Chart No. 5602										
	On Previous survey No. 7-1237, 1238										
	On U. S. Quadrangle Maps										
	From local information										
	On local Maps										
	P. O. Guide or Map										
	Rand McNally Atlas										
	U. S. Light List										
	USCP										
<u>California</u>	✓										1
Gitchell Cr	✓	✓									2
<u>Big Flat</u>	✓	✓								✓	3
<u>Hadley Cr</u>	✓	Hadley's cr.									4
<u>Buck Cr</u>	✓	✓									5
											6
											7
											8
											9
											10
											11
											12
											13
											14
											15
											16
											17
											18
											19
											20
											21
											22
											23
											24
											25
Names underlined in red approved											26
by <u>GFE</u> on 3/17/37											27

HYDROGRAPHIC SURVEY NO. H6169 W.D.

Smooth Sheet Yes

Boat Sheet Two

Sounding Records 3 Vols. _____

Descriptive Report Yes

Title Sheet Yes

List of Signals Vol#2

Landmarks for Charts (Form 567) Yes

Statistics Yes

Approved by Chief of Party Yes

Recoverable Station Cards (Form 524) None

Special Chart for Lighthouse Service None
(Circular Nov. 30, 1933)

Remarks _____

HYDROGRAPHY

Total Days 3

Last Date Aug 14, 1937

MEMORANDUM

IMMEDIATE ATTENTION

SURVEY
 DESCRIPTIVE REPORT
~~PHOTOSTAT OF~~

No. H **6169** W.D.
~~NO. 1~~

received **Mar. 9, 1937**
 registered **Mar. 13, 1937**
 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			
25			
26			
30			
40			
62			
63			
82			
83			
88			
90			

RETURN TO

82	C. K. Green
----	-------------

✓

TIDE NOTE FOR HYDROGRAPHIC SHEET

Division of Hydrography and Topography:

March 19, 1937.

✓ Division of Charts: Attention: Mr. E. P. Ellis

Tide Reducers are approved in
3 volumes of sounding ^{and wire drag} records for


HYDROGRAPHIC SHEET 6169

Locality Gitchell Creek to Hadleys Creek, Northern Coast of California

Chief of Party: F. H. Hardy in 1936
Plane of reference is mean lower low water reading
2.9ft. on tide staff at Shelter Cove
7.1ft. below B.M. 1A

Height of mean high water above plane of reference is 5.6 feet.

Condition of records satisfactory except as noted below:


Chief, Division of Tides and Currents.

Verifier's Report on H-6169 (Wire drag) (1936)

The verification of this sheet was accomplished in conjunction with the review. No comments other than those contained in the review are considered necessary.

May 11, 1937.

J. A. Mc Cormick.

Section of Field Records

REVIEW OF HYDROGRAPHIC SURVEY NO. 6169 (1936) W. D. FIELD NO. 12

Buck Creek to Hadley Creek, Northern California Coast, Cal.
Surveyed in July-Aug. 1936, Scale 1:10,000
Instructions dated May 31, 1934 (GUIDE) and Letter dated Jan.
21, 1936 from Chief, Division of Hydrography and Topography

Wire Drag.

Dual Control on Shore Signals.

Chief of Party - F. H. Hardy.
Surveyed by - I. E. Rittenburg.
Protracted by - H. G. Conerly.
Subdivision of Wire Dragged areas by - H. G. Conerly.
Inked by - H. G. Conerly.
Verified by - J. A. McCormick.

1. Condition of Records.

The records are neat and legible and conform to the requirements of the Hydrographic Manual and to S. P. 118.

The Descriptive Report is clear and satisfactorily covers all items of importance.

2. Compliance with Instructions for the Project.

The plan, character and extent of the survey satisfy the instructions for the project except that the offshore drag strip in the northwestern portion of the sheet should have been continued to a junction with the offshore drag strip on H-6168 (1936) to the southeast. For comment on effective depths see par. 8b this review.

3. Shoreline and Signals.

The shoreline and topographic signals originate with plane table surveys T-6515 (1935) and T-6516 (1935). The hydrographic signals originates with H-6162 (1936).

4. Junctions with Wire Drag Surveys.

- a. The junction with H-6168 (1936) on the southeast is satisfactory insofar as the single drag strip is concerned (see par. 2, this review), the one drag strip being continuous from one sheet to the other.
- b. The junction with H-6170 (1936) on the northwest is satisfactory, both drag strips continuing from one sheet to the other.
- c. No offshore drag work outside the limits of the present survey is included under the present project.

5. Comparison with Latest Hydrographic Surveys.

a. H-6162 (1936), H-6138 (1935-36).

The present survey covers portions of the above hydrographic surveys and the effective drag depths are consistent with the depths shown on them.

b. H-Field No. 41 (1936).

Comparison will be made with this offshore hydrographic survey when it is received from the field.

6. Comparison with Chart No. 5602 (New Print dated Aug. 6, 1936).

Within the area covered, the effective drag depths do not conflict with any of the charted depths.

7. Field Plotting.

The plotting, protracting and subdivision of the drag strips were excellent.

8. Results of Survey.

a. Shoals discovered and clearance depths obtained.

No shoals were found on this survey.

b. Effective depths.

The effective drag depths are, in general, considerably shoaler than the sounded depths shown on the latest hydrographic surveys. The survey would have been of more value had deeper effective depths been used, particularly on the inshore portion of the dragged area.

The effective depths of the various drag strips are sufficient to insure safety to surface navigation from the 10 fathom curve for a distance of 3/4 to 2 miles offshore.

c. Splits and insufficient overlaps.

No splits exist, the overlaps being generous.

9. Additional Field Work Recommended.

This survey is complete except as noted in paragraphs 2 and 8b.

10. Reviewed by - J. A. McCormick, May 13, 1937.
Inspected by - A. L. Shalowitz.

H-6169 (1936) W. D. - 3

Examined and approved:

C. K. Green, *C. K. Green*
Chief, Section of Field Records.

L. O. Lobat
Chief, Division of Charts.

Fred. L. Peacock
Chief, Section of Field Work.

Grude
Chief, Division of H. & T.

applied to Chart 5802 - Aug 6, 1937 - E. M. J.