

# 6456

## WIRE DRAG

6456 WIRE DRAG

Form 504 Rev. Dec. 1933	
DEPARTMENT OF COMMERCE U.S. COAST AND GEODETIC SURVEY R. S. PATTON, Director	
DESCRIPTIVE REPORT	
WIRE DRAG <del>Topographic</del> <del>Hydrographic</del>	Sheet No. 22-39 Register No. H-6456
U. S. COAST & GEODETIC SURVEY LIBRARY AND ARCHIVES FEB 28 1940 Acc. No. _____	
State California	
LOCALITY	
Northern California Coast	
South of Crescent City	
<del>Sisters Rocks to High Bluff to</del> Sisters Rocks	
1939	
CHIEF OF PARTY	
I. E. Bittenburg	

DEPARTMENT OF COMMERCE  
U. S. COAST AND GEODETIC SURVEY

REG. NO.

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. 22-39

**H6456**

REGISTER NO. H-6456

State California

General locality Northern California Coast

Locality Sisters Rocks to High Bluff to Sisters Rocks

Scale 1:20,000 Date of survey July 21, Aug. 15-17, 1939

Vessel Pacific Coast Wire Drag Party

Chief of Party I. E. Rittenburg

Surveyed by I. E. Rittenburg and W. J. Chovan

Protracted by H. C. Applequist

Soundings penciled by \_\_\_\_\_

Soundings in fathoms feet Drag depths in feet

Plane of reference M. L. L. W.

Subdivision of wire dragged areas by H. C. Applequist

Inked by H. C. Applequist

Verified by Francis B. Kelly

Instructions dated March 3, 1939

Remarks: Dual Control-Visual Fix, using Chartered Launches

FLORENCE (guide launch) and VIRGINIA (end launch)

DESCRIPTIVE REPORT  
to accompany  
Wire Drag Sheet Field No. 22  
Office Register No. H-6456  
California Coast  
Pacific Coast Wire Drag Party  
1939

INSTRUCTIONS: Authority for this survey is contained in the Director's Instructions, dated March 3, 1939; Project HT-230. ✓

LIMITS OF WORK: This sheet covers the offshore area from High Bluff, about 2 miles south of the mouth of the Klamath River, to Sisters Rocks. The dragged area covered extends from 1 1/2 miles to 2 1/2 miles offshore excepting a small portion at the north end, where the offshore limit is about 3 1/2 miles. The inshore limit was governed by the offshore limit of Sheet No. H-6454 on the northern half, and the intended offshore limit of Sheet Field No. 4-39 on the southern half. Sheet Field No. 4-39 was not dragged due to close of season. ✓

One strip about a mile in width and paralleling the coastline was completed. The depth of water at the offshore side of this strip varies from 22 fathoms at the north end to 14 fathoms at the south end. ✓

Another line of the same width was started at the north end but only about 2 miles was dragged when it was necessary to discontinue dragging due to rough weather. ✓

Wire Drag Sheet No. 6455 joins to the northward. No dragging has been done to the southward. ✓

CHARACTER OF WORK: The scale of this sheet is 1 : 20,000. ✓

Dual control by sextant angle fixes was used with usual position interval of five minutes except at beginning of lines and at radical changes of course. ✓

Drag tests were made twice on "A" Day, once on "B" Day. On "C" Day it was too rough to attempt any tests. ✓

Drag speed was maintained at about 1 1/4 miles per hour in order to minimize lift. Effective drag depths ranged from 58 to 80 feet. ✓

CONTROL AND DATUM: This sheet is on the final adjusted North American 1927 Datum. Signals were taken from Topographic Sheets, Office Register No.s T-6676 b and T-4949. Triangulation control was established in 1871, 1872, and 1925. One Hydrographic station "Large" was located by sextant cuts by this party on Sheet No. H-6454. No shoreline, offlying rocks, etc, were transferred to this sheet as the photostats available were on a different scale. ✓

This is an offshore survey. Shoreline not necessary.

DATES OF SURVEYS: This work was done by the chartered wire drag launches on July 21, August 15, and 17, 1939. The positions of this work are shown in Blue capitals. ✓

TIDAL REDUCERS: Tidal reducers for this sheet were taken from the records of the standard automatic tide gage at Crescent City, California. These records were furnished this party by the Washington Office. For further tidal information see the attached Tidal Data Sheet.

JUNCTIONS AND OVERLAPS: This sheet, joins Wire Drag Sheet Field No. 22-39, Office Register No. H-6455 on the north and "A" Day, this sheet, is a continuation of "R" Day, Sheet No. H-6455. No work was performed to the south, west, or the lower half to the east. On the northern half this sheet, joins Wire Drag Sheet Field No. 3-39, Office Register No. H6454 to the eastward. Also H-6453 on northeast.

GROUNDINGS: There were no groundings on this sheet.

SPLITS: There is one small split on this sheet at Latitude  $41^{\circ} 37'4$ , Longitude  $124^{\circ} 10'9$ . This is near the beginning of the line on "C" Day and is outside the 20 fathom curve.

UNFINISHED WORK: The offshore work on this sheet was not completed due to closing of the season.

COMPARISON WITH PREVIOUS SURVEYS AND CHART: There are no soundings on Chart No. 5702, or on Hydrographic Sheets, Office Register No.s 4852, 4965, and ~~4966~~, shoaler than the dragged depths shown on this sheet.

EQUIPMENT: The chartered Launches FLORENCE and VIRGINIA were used as guide and end launch. Standard wire drag equipment was used.

Respectfully submitted,

*H. C. Applequist*  
H. C. Applequist,  
Aid, C. & G. Survey.

Forwarded and approved:

*I. E. Rittenburg*  
I. E. Rittenburg,  
Chief of Party, C. & G. Survey,  
Pacific Coast Wire Drag Party.

STATEMENT  
to accompany  
WIRE DRAG SHEET FIELD NO. 22  
Office Register No. H-6456  
1939

The plotting and protracting of buoy positions was done by  
Ensign H. C. Applequist.

The drag areas were subdivided and inked by Ensign H. C.  
Applequist.

The completed smooth sheet has been inspected and is  
approved.



I. E. Rittenburg,  
Chief of Party, C. & G. Survey,  
Pacific Coast Wire Drag Party.

**STATISTICS**  
 to accompany  
**WIRE DRAG SHEET FIELD NO. 22**  
 Office Register No. H-6456  
 1939

Date 1939	Day Letter	Volume	Statute Miles	Positions	Drag Length Feet	Tender Soundings	Positions
July 21	A	I	4.4	74	10,000	-	-
August 15	B	I	9.1	116	10,000	-	-
August 17	C	I	3.0	54	10,000	-	-
<b>TOTALS</b>			<b>16.5</b>	<b>244</b>			

AREA 15.0 SQUARE STATUTE MILES.

Verifiers report for H 6456 (1939) W.D.

The records conform to the requirements of the General Instructions.

The topographic signals are taken from T 4949 (1939) & T 6676b (1939)

○ Large is a hydrographic signal located by sextant cuts on H 6454 (1939) W.D.

There were no groundings on this survey & due to its simplicity no A & D diagram was made

H 6453 (1939) WD joins H 6456 on the north-east and its limits were transferred to H 6456.

H 6454 (1939) WD joins H 6456 on the east but it has not as yet been verified.

H 6456 (1939) W.D. is a continuation to the south of H 6455 (1939) W.D. but the latter has not as yet been received in the office.

Francis B. Kelly  
March 13, 1940

Field Records Section (Charts)

HYDROGRAPHIC SHEET NO. **H6456**  
Wire Drag

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

Number of positions on sheet	..... <b>244</b>
Number of positions checked	..... <b>13</b>
Number of positions revised	..... <b>0</b>
Number of soundings recorded	..... <b>0</b>
Number of soundings revised	..... <b>0</b>
Number of soundings erroneously spaced	..... <b>—</b>
Number of signals erroneously plotted or transferred	..... <b>0</b>

Date: **March 13, 1940**

Verification by **Francis A. Kelly**

Review by **J. A. McCormick 3/16/40**

Time: **16 hrs.**

Time: **3 hr.**



HYDROGRAPHIC SURVEY NO. H6456  
Wire Drag

Smooth Sheet Yes

Boat Sheet 2

Records; Sounding 1 Vols., Wire Drag 2 Vols., Bomb     Vols.

Descriptive Report Yes

Title Sheet Yes

List of Signals Yes

Landmarks for Charts (Form 567) No

Statistics Yes

Approved by Chief of Party Yes

Recoverable Station Cards (Form 524) No

Special Chart for Lighthouse Service Yes  
(Circular Nov.30, 1933)

Hydrography: Total Days 3 ; Last Date Aug. 17, 1939

Remarks \_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

Remarks

Decisions

1		File No. 416 241
2		415 240
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GEOGRAPHIC NAMES

Survey No.  
Wire Drag  
**H6458**

Name on Survey

Name on Survey	Source of Name										
	A	B	C	D	E	F	G	H	K		
<u>Sister Rocks</u>	✓										1
<u>High Bluff</u>	✓										2
<u>Footsteps Rocks</u>	✓										3
<u>Wilson Rock</u>	✓										4
<u>False Klamath Rock</u>	✓										5
<u>Flint Rock Head</u>	✓										6
<u>White Rock</u>	✓										7
<u>False Klamath</u>	✓										8
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	Names underlined in red approved										20
	by <i>JHE</i> on 4/12/40										21
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											27

PCC  
HCC

TIDE NOTE FOR HYDROGRAPHIC SHEET

March 9, 1940

Division of Hydrography and Topography:

✓ Division of Charts: Attention: Mr. H. R. Edmonston.

Plane of reference approved in  
3 volumes of sounding records for  
wire drag

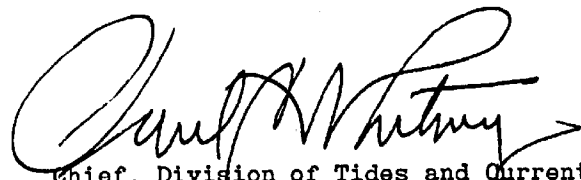
HYDROGRAPHIC SHEET 6456

Locality Sister Rocks to High Bluff, Northern California Coast

Chief of Party: I. E. Rittenburg in 1939  
Plane of reference is mean lower low water reading  
3.7 ft. on tide staff at Crescent City (Plane of Tabulations)  
12.8 ft. below B. M. 2

Height of mean high water above plane of reference is 6.2 feet.

Condition of records satisfactory except as noted below:

  
Chief, Division of Tides and Currents.

# MEMORANDUM

## IMMEDIATE ATTENTION

SURVEY  
 DESCRIPTIVE REPORT  
 PHOTOSTAT OF

No. H **HC456**  
~~No. 11~~

received Feb. 28, 1940  
 registered March 2, 1940  
 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			
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83			
88			
90			

RETURN TO

82	T. B. Reed
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*✓ TBR*

DIVISION OF CHARTS

Section of Field Records

REVIEW OF HYDROGRAPHIC SURVEY NO. 6456 (1939) W.D. FIELD NO. 22

California, Northern California Coast,  
High Bluff to Sister Rocks  
Surveyed in July - August 1939, Scale 1:20,000  
Instructions dated March 3, 1939 (I. E. Rittenburg)

Wire Drag

Dual Control

Chief of Party - I. E. Rittenburg.  
Surveyed by - I. E. Rittenburg; W. J. Chovan.  
Protracted by - H. C. Applequist.  
Subdivision of wire dragged areas by - H. C. Applequist.  
Inked by - H. C. Applequist.  
Verified by - F. B. Kelly.  
Reviewed by - J. A. McCormick, March 16, 1940.  
Inspected by - H. R. Edmonston.

1. Shoreline and Signals.

This subject is adequately covered in the descriptive report, page 1.

2. Junctions with Wire Drag Surveys.

Junctions with H-6455 (1939) on the north, H-6453 (1939) on the northeast and H-6454 (1939) on the east will be considered in the reviews of those surveys. Surveys on southeast and south were not made.

3. Results of Survey.

- a. No shoals were encountered.
- b. There is one small split in lat.  $41^{\circ}37.4'$ , long.  $124^{\circ}10.9'$ , but it falls in depths of 21 fathoms on H-4852 (1928) and need not be covered.
- c. Effective drag depths of 56 to 80 feet cover areas on H-4852 (1928) and H-4965 (1929) which show soundings of 12 to 23 fathoms. There are no conflicts with the hydrographic surveys or with Chart 5702 (New Print of Aug. 6, 1938).

4. Condition of Survey.

Satisfactory.

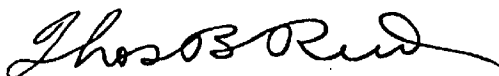
5. Compliance with Instructions for the Project.

Satisfactory.

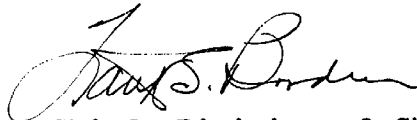
6. Additional Field Work Recommended.

When drag work is resumed in this locality the dragged area south of lat. 41°36' should be extended to the 20 fathom curve.

Examined and approved:



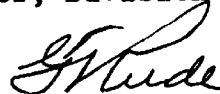
T. B. Reed,  
Chief, Section of Field Records.



Chief, Division of Charts.



Chief, Section of Field Work.



Chief, Division of H. & T.

No correction on chrt 5052 P.B.C.  
No correction on chrt 5895 P.B.C.