6423 WIRE DRAG

U. S. COAST & GEODETIC SUR LIBRARY AND ARCHIVES

MAR 21 1939

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6423 WIRE DRAG

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Form 504
DEPARTMENT OF COMMERCE U. S. COAST AND GEODETIC SURVEY
, Director
State: CALIFORNIA
DECODINE
DESCRIPTIVE REPORT
Hydrographic Sheet No. 9 - 38
Paint L LOCALITY
Point to Mendocino R. to POINT CABRILLO TO STILLWELL
A POINT
1938 199
CHIEF OF PARTY
F. H. HARDY.

DEPARTMENT OF COMMERCE U. S. COAST AND GEODETIC SURVEY

U. S. COAST & GEODETIC SURVEY
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MAR 21 1939

HANDROGRAPHICA TITLE SHEET

WIRE DRAG

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The Hydrographic Sheet should be accompanied by this form, filled in as completely as possible, when the sheet is provided to the Office.

Field No. 9 - 38

REGISTER NO. H 6423 W.D.

State CALIFORNIA
General locality OFF MENDOCING GALFFORMA/COAST.
Locality POINT CABRILLO TO STITUTELL POINT. Little River
Scale 1:10,000 Date of survey September 10 - 28, 1938
Vessel Chartered Launches FLORENCE (guide) VIRGINIA I (end)
Chief of Party F. H. HARDY
Surveyed by I. E. RITTENBURG & W. F. MAINATE
Protracted byC. A. SCHOENE
Soundings penciled by
Soundings in fathoms XXXX DRAG DEPTHS IN FEET
Plane of reference M. L. U. W.
Subdivision of wire dragged areas by <u>C. A. SCHOENE</u>
Inked byC. A. SCHOENE
Verified by A.J. Styman
nstructions dated May 31,1934; May 2,1935 & March 6, 19 37
demarks:Dual control wire drag
Positions by visual fixes
U. S. GOVERNMENT PRINTING OFFICE

DESCRIPTIVE REPORT to accompany WIRE DRAG SHEET FIELD NO. 9 - 38. Project H.T.206 Coast of California U.S.C.& G.S.S.GUIDE .1938.

INSTRUCTIONS: Instructions for this project were dated May 31, 1934, and supplemental instructions dated May 2, 1935 and March 6, 1937.

CHARACTER OF WORK: This work includes the area from Point Cabrillo to Stillwell Point, and approximately one-half mile offshore to one and one-quarter miles offshore.

The area of the work on this sheet is six square statute miles. /

The position interval was usually five minutes with supplemental / positions at radical changes in course and speed.

The effective depth range is from eighteen to eighty-five feet.

CONTROL: Control for the work on this sheet was by means of visual fixes on shore objects located by triangulation or topography.

Dual control was used for the work on this sheet.

Hydrographic signals were built over all recoverable triangulation stations, and plotted on the Final Adjusted North American Datum of 1927.

Topographic signals were transferred from Topographic Sheet Field ~ No.A'A' - 1936.
T-4946

Shoreline was transferred from Sheet No. H - 4984, scale 1:20,000 photostated to a scale of 1:10,000.

DATES OF SURVEY: Three days of work was done on this sheet, September - 10, 14 and 28, 1938.

TIDAL REDUCERS: See Season's Tidal Report, attached.

JUNCTIONS: The overlaps of drag strips joining with Sheet Field No. > 8 on the north and Sheet Field No. 10 on the south are good.
H-6414 w.P.

There is a good overlap between this sheet and the work on Wire \checkmark Drag Sheet No. 4587 b.

A discrepancy of one foot in the deep section of the drag was noted where this sheet joined Sheet No. 8. This discrepancy could not be corrected in the field because Sheet No. 8 had gone into the office. Difference duz to lift.

J. M.M.

GROUNDINGS: On September 14, in picking up the drag, the ground wire was found to be caught on a rock. A position was obtained but the end launch drifted off before a shoal sounding could be obtained.

Latitude 39° 19.26', Longitude 123° 49.20'; upright depth is thirty—three feet. This spot was covered twice, once with twenty-eight feet and once with twenty-six feet.

COMPARISON WITH PREVIOUS SURVEYS: An eight fathom sounding shown on Chart No. 5703 at Latitude 390 181.83, Longitude 1230 491.45 was covered with forty-eight feet. Charted 8 originates with 82 on H-5921(1935)

The drag depths on this sheet compare favorably with the soundings shown on Sheet H-4984. There are no drag depths greater than the soundings shown on Sheet H-4984.

PERSONNEL AND LAUNCHES: Lieutenants I. E. Rittenburg and W. F. Malnate were in charge of this work and also in charge of the guide launch. Lieutenant (j.g.) H. F. Garber was in charge of the end launch.

Respectfully submitted,

Charles a Schoene

Charles A. Schoene,

Aid

C. & G. Survey.

Approved and forwarded:

E. W. Eickelberg,

Chief of Party, C. & G. S.,

Commanding Ship GUIDE from October 3, 1938;

Preceded by Captain F. H. Hardy from 6-15-38 to 10-3-38;

Preceded by Comdr. O. W. Swainson from 5-1-38 to 6-15-38.

LIST OF SIGNALS to accompany WIRE DRAG SHEET FIELD NO. 9 - 38.

TRIANGULATION

Hydrographic name	Location
CAB	Pt. Cabrillo Lighthouse, 1909
GUL	Russian Gulch, 1929
POINT	Point, 1872
CINO	Mendocino2, 1919
HI	Mendocino High School
	Belfry, 1930
MASON	Mason, 1930
PAR	Chaparral ₂ , 1930
STICK	Stickney, 1871
MAL	Mallory, 1930

TOPOGRAPHIC

Located on Topographic Sheet Field Letter A'A' - 1936.

ED	RIC	FLAG
CEN	POI	B A RN
WHITE	\mathtt{TAN}	TRI

STATISTICS to accompany WIRE DRAG SHEET FIELD NO. 9 - 38

Date	Day	Magazini Magazini	Statute		Drag Length	Ten	de r
1938	Let.	_Vol_P	Miles	Positions	Ft.	Sounding s	Positions
9-10	A	1	7.4	106	6,000	-	
9-14	В	1	2.0	41	4,000	Court State	
9-28	C	1	1.4	20	4,000		w **
TOTAL	S		10.8	167			

AREA IS 6 SQUARE STATUTE MILES.

STATEMENT to accompany WIRE DRAG SHEET FIELD NO. 9 - 38. 1938

The smooth sheet and record have been inspected and are approved.

E. W. Eickelberg,

Chief of Party, C. & G. S.,

Commanding Ship GUIDE from October 3, 1938;

Preceded by Captain F. H. Hardy from 6-15-38 to 10-3-38;

Preceded by Comdr. O. W. Swainson from 5-1-38 to 6-15-38.

FORM 712
DEPARTMENT OF COMMERCE
COAST AND GEODETIC SURVEY
Ed. Feb. 1935

TIDE NOTE FOR HYDROGRAPHIC SHEET

April 1, 1939

Division of Hydrography and Topography:

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

Plane of reference

Trac Reducents and approved in

3 volumes of sounding/records for

and wire drag

HYDROGRAPHIC SHEET 6423

Locality Little River to Point Cabrillo, Northern California Coast

Chief of Party: F. H. Hardy in 1938

Plane of reference is mean lower low water reading
2.0 ft. on tide staff at North Jetty, Humboldt Bay
11.5 ft. below B.M. 1
3.4 ft. on tide staff at Shelter Cove
7.1 feet below B.M. 1A

Height of mean high water above plane of reference is 5.8 feet at North Jetty; 5.6 feet at Shelter Cove.

Condition of records satisfactory except as noted below:

Chief, Division of Tides and Currents.

U. S. GOVERNMENT PRINTING OFFICE

	GEOGRAPHIC NAMES Survey No. H-6423	<i>t</i> . Ti .		Sur	D D	We /		O Calide of	Moo McHally	Allas	ž /
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	Name on Survey	/ A,	B,	C,	/ D	E	or F	`	Н	У к	
	Point Cabrillo	/									1
	X Stillwell Point X Little River X Big River X Mendocino Colby Reef X Russian Gulch	V									2
	XLittle River	V									3
	y Big River	V									4
	Mendocino	~									5
	Colby Reef	/									6
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Decisions

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Field Records Section (Charts)

H6423 w.p. HYDROGRAPHIC SHEET NO

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

Number of positions on sheet	. 167
Number of positions checked	
Number of positions revised	
Number of soundings recorded	(I grounding)
Number of soundings revised	
Number of soundings erroneously spaced	•••••
Number of signals erroneously plotted or transferred	None

Date: APRIL 7, 1939

Verification by M.F.STEGMAN

Time: 8 hrs

Review by

J.A.M. Cormick 4/12/39. Fime: 8 hrs.

HYDROGRAPHIC SURVEY NO. H6423 W.P.

Smooth Sheet Yes
Boat Shoet
Records; Sounding One Vols., Wire Drag Two Vols., Bomb Vols.
Descriptive Report Yes
Title Sheet Yes
List of Signals In D.R.
Landmarks for Charts (Form 567) Yes
Statistics Yes
Approved by Chief of Party Yes
Recoverable Station Cards (Form 524)
Special Chart for Lighthouse Service (Circular Nov.30, 1933)
Hydrography: Total Days 3 ; Last Date Sept. 28, 1938
Remarks

MEMORANDUM IMMEDIATE ATTENTION

SURVEY DESCRIPTIVE REPORT	No. H-6423 W.D.	registered Mar. 28, verified	
XRICKOSTATXXXII	x isko xx ik x	reviewed	
•		lapproved	

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
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RETURN TO

82 T. B. Reed

V JBR

VERIFICATION REPORT ON H-6423(1938)WD

1. CONDITION OF RECORDS

The records are neat and legible, and conform to the requirements of the "Wire Drag" Manual.

The Descriptive Report (page 1, last paragraph) states that there is a discrepancy of 1 foot in the deep section of the drag, where H-6423 joins H-6419(1938) WD. This discrepancy is due to a difference of 1 foot in lift in this section, as noted in the Tender records of the two surveys. As drag lift tests were made at frequent intervals it is believed that this change in lift is correct as plotted.

The kelp recorded on page 18 of the Guide launch record was not inked by the verifier (\$-39-17.6 \text{\$123-48.5}\$) It falls well within the area dragged to 3\text{\$4} feet on Aday and is therefor believed to be floating kelp.

No mention was made of this kelp on Anwhen the Guide launch passed about 120 meters inshore of it's reported location.

2. SHORELINE AND SIGNALS

Shoreline originates with T-4499, T-4500, and T-4501 (1929)
Topo signals originate with T-4946 (1936) graphic control.

3. JUNCTIONS WITH CONTEMPORARY WIRE DRAG SURVEYS.

Junctions were made with the following sheets:

H-6419 W.D. (1938) on the north.

H-6424 W.D. (1938) on the south.

H-45876 W.D. (1926) inshore in the vicinity of Russian Gulch.

Overlap was satisfactory in each case.

H. JUNCTIONS WITH CONTEMPORARY HYDROGRAPHIC SURVEYS

The 5½ fm grounding (upright depth) was transferred in green 1 to H-4984 (1929) &- 39°-19.2 1-123°-49.2

The kelp recorded on page 12 of vol. 1 was transferred in green to 4-4984 (1929) \$-39-15.4 1-123-47.8

5. FIELD PLOTTING

Field platting was well done - next and accurate. The only work done over by the verifier was the transfer of limits of H-45876 W.D. This work had apparently been penciled without correcting the datum.

April 7, 1939

Lespectfully submitted

SECTION OF FIELD RECORDS

REVIEW OF HYDROGRAPHIC SURVEY NO. 6423 (1938) W. D. FIELD NO. 9

Little River to Point Cabrillo, Mendocino, California. Surveyed in September, 1938, Scale 1-10,000 Instructions dated May 31, 1934; May 2, 1935; March 6, 1937. (GUIDE)

Wire Drag.

Dual control on shore signals.

Chief of Party - F. H. Hardy
Surveyed by - I. E. Rittenburg and W. F. Malnate
Protracted by - C. A. Schoene
Subdivision of wire dragged areas by - C. A. Schoene
Inked by - C. A. Schoene
Verified by - H. F. Stegman

1. Shoreline and Signals.

- a. Shoreline was transferred in the field from a bromide enlargement of H-4984 (1929). It should not be used for charting purposes.
- b. Topographic signals originate with T-4946 (1936).
- 2. Junctions with Wire Drag Surveys.

Junctions with H-6419 (1938) W.D. on the north, H-4587b (1926) W. D. off Russian Gulch, and H-6424 (1938) W.D. on the south are satisfactory.

3. Results of Survey.

a. Shoals discovered and clearance depths obtained.

A $5\frac{1}{2}$ fathom grounding in latitude 39° 19.26', longitude 123° 49.20' falls in depths of 18 to 25 fathoms on H-4984 (1929). Cleared with an effective depth of 28 feet.

b. Splits and insufficient overlaps.

There is a small split at Mendocino Bell Buoy in latitude 39° 17.9°, longitude 123° 48.7°. Overlaps are otherwise ample.

4. Comparison with Latest Hydrographic Surveys. $\frac{\text{H-4984 (1929), H-4989 (1929), H-4990 (1929),}}{\text{H-5921 (1935)}}$.

There are no conflicts between soundings on the above surveys and effective drag depths on the present survey. The $8\frac{1}{2}$ fathom shoal (charted as 8 fathoms) in latitude 39° 18.8', longitude 123° 49.4' on H-5921

(1935) was cleared with an effective depth of 48 feet on the present survey.

5. Comparison with Chart 5703 (New Print dated Sept.28,1937)
Chart 5710 (New Print dated May 18, 1937)

There are no conflicts between charted depths and effective drag depths. The position of Mendocino Bell Buoy, as determined on the present survey, is in substantial agreement with the charted position.

6. Condition of Survey.

C

- a. The drag records are neat and legible.
- b. The descriptive report satisfactorily covers all items of importance.
- c. The field plotting is very good.
- d. Effective depths are sufficiently close to bottom depths.
- 7. Compliance with Instructions for the Project.

 The survey satisfies the instructions for the project.
- 8. Additional Field Work Recommended.

 No additional work is required.
- 9. Reviewed by J. A. McCormick, April 12, 1939.
 Inspected by E. P. Ellis

Examined and approved:

T. B. Reed,

Chief, Section of Field Records

Fred. L. Peacock

Mude

Chief, Division of H. & T.

K.T. Adams

Chief, Division of Charts.

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