

6321 WIRE DRAG

U. S. COAST & GEOD. SURV.
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6321 WIRE DRAG

Form 504
Rev. April 1935
DEPARTMENT OF COMMERCE
U. S. COAST AND GEODETIC SURVEY

DESCRIPTIVE REPORT

Wire Drag
~~Dopographic~~
~~Hydrographic~~ } Sheet No. 2

State California

LOCALITY
Northern California Coast
~~3 miles south to 5 miles north~~
Vicinity
of Eel River.

1938

CHIEF OF PARTY
F. H. Hardy.

DEPARTMENT OF COMMERCE
U. S. COAST AND GEODETIC SURVEY

WIRE DRAG
~~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. 2

REGISTER NO. H 6321 W.D.

State California

General locality Northern California Coast

Locality Vicinity
~~3 miles south to 3 miles north~~ of Eel River.

Scale 1:10,000 Date of survey July 29, 1938

Vessel Chartered Launches (Guide FLORENCE)(End launch VIRGINIA I)

Chief of Party F. H. Hardy

Surveyed by Walter J. Chovan

Protracted by H. S. Littlefair and F. L. Johnson

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. S. Littlefair and F. L. Johnson

Inked by F. L. Johnson

Verified by Walter J. Chovan

Instructions dated May 31, 1934, May 2, 1935, March 6, 1937

Remarks: Dual Control Wire Drag

Positions by visual fixes

DESCRIPTIVE REPORT
to accompany
WIRE DRAG SHEET FIELD NO. 2
Project HT-206
Coast of California
U.S.C. & G.S.S. GUIDE.
1938

INSTRUCTIONS: Directors Instructions dated May 31, 1934 and supplemental instructions dated May 2, 1935 and March 6, 1937.

CHARACTER AND LIMITS OF WORK: This sheet includes the area from three miles south to three miles north of Eel River, and approximately one-half mile offshore.

The area of the work on this sheet is 8 square statute miles.

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

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

The effective depth is from twenty-nine to fifty-nine feet.

CONTROL AND DATUM: This sheet is on the Final Adjusted North American Datum of 1927. Topographic Signals were taken from Topographic Sheets (Field Letters "S" and "T").
T-6615b T-6616a

Control for the wire drag on this sheet was by means of visual fixes.

Dual control was used for all this work.

DATES OF SURVEY: One day's work was done on this sheet on July 29, 1938.

TIDAL REDUCERS: Tidal reducers for this sheet were obtained from the portable automatic tide gage at Eureka, North Jetty, California. See attached sheet regarding tidal reducers.

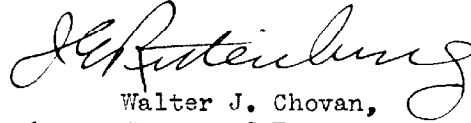
JUNCTIONS: The drag strip on the south end of this sheet is continued from Wire Drag Sheet Field No. 3-1938. The drag strip on the north end of the sheet continues onto Sheet Field No. 1-1938.
H-6320

There are no overlaps of drag strips on this sheet.

GROUNDINGS: There are no groundings on this sheet.

PERSONNEL AND LAUNCHES: Lieutenant (j.g.) Walter J. Chovan was in charge of this work, also in charge of the Guide Launch (Chartered Launch FLORENCE). Lieutenant (j.g.) Harry F. Garber was in charge of the end launch (Chartered Launch VIRGINIA I).

Respectfully submitted,



Walter J. Chovan,
Jr. H & G Engineer,
C. & G. Survey.

for.

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.

STATISTICS
~~STATEMENT~~
to accompany
WIRE DRAG SHEET FIELD NO. 2
1938.

Date 1938	Day Letter	Volume	Statute Miles	Positions	Drag Length Feet	Tender Soundings	Positions
July 29	A	1	6.4	102	10,000	--	--

AREA IS 8 SQUARE STATUTE MILES.

LIST OF SIGNALS
to accompany
WIRE DRAG SHEET FIELD NO. 2
1938

TRIANGULATION

<u>Hydrographic Name</u>	<u>Location</u>
SALT	Salt River, 1928

TOPOGRAPHIC

Located on Topographic Sheet Field Letter "S", 1937.

SIX	SIG	MAC	SITE	DAN	RIT
<u>WINDMILL</u>	NADA	LAB	FOR	JEP	BET
JAN	TER	BO	CHIM	RIV	IRE
CEN	GAB	VIL	EEL	SLO	

Located on Topographic Sheet Field Letter "T", 1937.

NUT	HEW	DOG	KEY	TEX	RAT
ABE	FOG	SMO	DUCK	MILK	FLIP
					TRI

Shelter Cove tides were used for reducers for work south of False Cape with no corrections for time or heights. For work north of False Cape when records at Humboldt Bay were incomplete or missing a correction of plus fifteen minutes was applied with no corrections for heights, in accordance with Director's letter dated October 26, 1938.

San Francisco tides were used for reducers on May 29th and October 7th to 18th inclusive, when records from Humboldt Bay and Shelter Cove were incomplete or not available. A correction in time of minus 0.46 hours to high water, minus 0.14 to low water and a range factor of 1.12 to staff readings was applied. These factors reduce tides at San Francisco to Shelter Cove as of simultaneous comparison between these stations determined in 1936.

Hourly heights were tabulated for only the hours of those days on which work was done. High and low waters were not tabulated. Nor were simultaneous comparisons made between North Jetty, Humboldt Bay and Shelter Cove; as previous comparisons in 1937 were made from a better series of observations.

Respectfully submitted,

~~Walter J. Chovan,
Jr. H & G Engineer,
C. & G. Survey.~~

Approved and forwarded:

~~E. W. Eickelberg,
Chief of Party, C. & G. E.,
Companing 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.~~

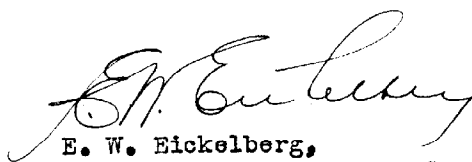
STATEMENT
to accompany
WIRE DRAG SHEET FIELD NO. 2
1938

The plotting and protracting of buoy positions was done by H. S. Littlefair and F. L. Johnson; verified by Lieutenant (j.g.) Walter J. Chovan. ✓

The drag areas were subdivided by H. S. Littlefair and F. L. Johnson and verified by Lieutenant (j.g.) Walter J. Chovan. ✓

The drag areas were inked by F. L. Johnson and verified by Lieutenant (j.g.) Walter J. Chovan.

The completed smooth sheet has been inspected and is 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.

Field Records Section (Charts).

HYDROGRAPHIC SHEET NO. **H6321** w.o.

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

Number of positions on sheet102.
Number of positions checked2.
Number of positions revised0.
Number of soundings recorded0.
Number of soundings revised0.
Number of signals erroneously plotted or transferred0.

Date: Feb. 8, 1939

Verification by J.A. M^c Cormick

Time: 5 hr.

Review by J.A. M^c Cormick

Time: 5 hr.

HYDROGRAPHIC SURVEY NO. H6321 W.D.

Smooth Sheet Yes

Boat Sheet Two

Records; Sounding One Vols., Wire Drag Two Vols., Bomb Vols.

Descriptive Report Yes

Title Sheet Yes

List of Signals D.R.

Landmarks for Charts (Form 567) None

Statistics Yes

Approved by Chief of Party Yes

Recoverable Station Cards (Form 524) None

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

Hydrography: Total Days One; Last Date July 29, 1938

Remarks _____

Remarks.

Decisions

1		File No. 406 243
2	Location of T.G. Off limit of survey	" 408 241
3	Referred to in D.R. but off limit of survey	400 240
4	" " " " " " " "	Referred to USGB vs Cape Fortunas 1/13/39
5	" " " " " " " "	407 242
6	" " " " " " " "	
7		File No. 405 243
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GEOGRAPHIC NAMES
 Survey No. **H6321**
 W.D.

Name on Survey	A, On Chart No. 5602	B, On previous survey No.	C, On U. S. quadrangle Maps	D, From local information	E, On local Maps	F, P. O. Guide or Map	G, Rand McNally Atlas	H, U. S. Light List	K
<u>Eel River</u>	✓								1
Eureka	✓								2
Shelter Cove	✓								3
False Cape	✓								4
Humboldt Bay	✓								5
San Francisco	5502								6
<u>Centerville</u>	✓								7
									8
									9
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									23
<i>Names underlined in red</i>									24
<i>to be inked on H 6321</i>									25
<i>✓ GHE Jan 13, 1939</i>									26
									27

MEMORANDUM

IMMEDIATE ATTENTION

SURVEY DESCRIPTIVE REPORT PHOTOSTAT OF	}	No. H-6321 w.d. No. T	{	received Dec. 29, 1938 registered Jan. 4, 1939 verified reviewed approved
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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			
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30			
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62			
63			
82			
83			
88			
90			

RETURN TO

82	T. B. Reed
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✓ TBR

TIDE NOTE FOR HYDROGRAPHIC SHEET

January 28, 1939

Division of Hydrography and Topography:

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

Plane of reference

~~Tide-Reducers-are~~ approved in
3 volumes of sounding/records for
and wire drag

HYDROGRAPHIC SHEET 6321

Locality Vicinity of Eel River, Northern California Coast

Chief of Party: F. H. Hardy in 1938

Plane of reference is mean lower low water reading

3.4 ft. on tide staff at Shelter Cove

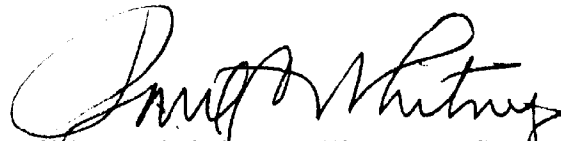
7.1 ft. below B.M. 1 A

2.0 ft. on tide staff at North Jetty, Humboldt Bay

11.5 ft. below B.M. 1

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

Condition of records satisfactory except as noted below:



Chief, Division of Tides and Currents.

Verifier's Report on H-6321 (1938) W.D.

This survey was verified and reviewed
by the same cartographer. All pertinent comment
is contained in the review.

Feb. 8, 1939.

J. A. McCormick

Section of Field Records

REVIEW OF HYDROGRAPHIC SURVEY NO. 6321 (1938) W.D. FIELD NO. 2

Vicinity of Eel River, Northern California Coast, California
Surveyed in July 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 - W. J. Chovan.

Protracted by - H. S. Littlefair and F. L. Johnson.

Subdivision of wire dragged areas by - H. S. Littlefair and
F. L. Johnson.

Inked by - F. L. Johnson.

Verified by - J. A. McCormick.

1. Shoreline and Signals.

- a. Shoreline originates with T-4514 (1929).
- b. Topographic signals are from graphic control surveys T-6615b (1937) and T-6616a (1937).

2. Junctions with Wire Drag Surveys.

The junctions with H-6320 (1938) W.D. on the north and H-6322 (1938) W.D. on the south are satisfactory.

3. Groundings.

There are no soundings or groundings on the present survey.

4. Comparison with Latest Hydrographic Surveys.

H-Field No. 1 (1938) 1:10,000; H-6416 (1938) 1:10,000;
H-6415 (1937-38) 1:40,000.

The present survey falls entirely within the combined area of the above surveys, none of which have as yet been verified. They will be compared with the present survey in their respective reviews.

5. Comparison with Chart 5602 (NewPrint dated Nov. 5, 1938).

The chart contains no soundings which conflict with effective drag depths on the present survey.

6. Conformity with Hydrographic Manual and S. P. 118.

- a. The drag volumes are neat and legible.
- b. The descriptive report is satisfactory.

- c. The field plotting is excellent.
- d. Effective drag depths are in satisfactory relation to bottom depths.
- e. There are no splits or insufficient overlaps.

7. Compliance with Instructions for the Project.

The survey satisfies the instructions for the project.

8. Additional Field Work Recommended.

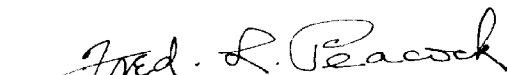
No additional work is required.

9. Reviewed by - J. A. McCormick, Feb. 8, 1939.

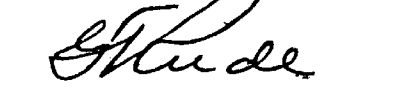
Inspected, by - E. P. Ellis.

Examined and approved:


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


Chief, Section of Field Work.


K.T. Adams
Chief, Division of Charts.


Chief, Division of H. & T.

applied to chart 5602 Oct 9, 1939

J.S.L.