

5003

Diag. Cht. No. 5602-3

5003

Form 504
Ed. June, 1928

DEPARTMENT OF COMMERCE
U. S. COAST AND GEODETIC SURVEY

R. S. Patten, Director

U. S. COAST AND GEODETIC SURVEY
L. & A.
APR 14 1930
Acc. No.

State: California

Field Nos. 10, 11 and 12, all on one Sheet H. 5003

DESCRIPTIVE REPORT

~~Topographic~~ } Sheet No. **5003**
Hydrographic }

LOCALITY

Humboldt Bay

1929

CHIEF OF PARTY

A. P. Ratti

DEPARTMENT OF COMMERCE
U. S. COAST AND GEODETIC SURVEY

HYDROGRAPHIC TITLE SHEET

REG. NO. 5003

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. 10
Field Nos. 10, 11 and 12, all on one sheet, H. 5003
REGISTER NO. **5003**

State CALIFORNIA
General locality ~~NORTHERN CALIFORNIA~~ North of Cape Mendocino
Locality HUMBOLDT BAY
Scale 1-5000 Date of survey Oct. 25 to 31, 19 29
Vessel Chartered Launch Rogue
Chief of Party A. P. Ratti
Surveyed by A. P. Ratti
Protracted by G. M. Marchand
Soundings penciled by G. M. M.
Soundings in ~~fathoms~~ feet
Plane of reference MLLW Humboldt Bay
Subdivision of wire dragged areas by _____
Inked by L. S. Straw
Verified by L. S. S.
Instructions dated April 27 and Oct. 4, 19 29.
Remarks: _____

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. 11

REGISTER NO.

State CALIFORNIA

General locality HUMBOLDT COUNTY

Locality HUMBOLDT BAY

Scale 1-5000 Date of survey Oct. 29 to 30, 19 29.

Vessel Chartered Launch Rogue

Chief of Party A. P. Ratti

Surveyed by A. P. Ratti

Protracted by G. M. Marchand

Soundings penciled by G. M. M.

Soundings in ~~fathoms~~ feet

Plane of reference MLLW Humboldt Bay

Subdivision of wire dragged areas by _____

Inked by L. S. Strain

Verified by L. S. S.

Instructions dated April 27 and Oct. 4, 19 29.

Remarks: _____

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. 12

REGISTER NO.

State CALIFORNIA

General locality HUMBOLDT COUNTY

Locality HUMBOLDT BAY

Scale 1:5000 Date of survey Nov. 1 to 4, 19 29.

Vessel Chartered Launch Rogue

Chief of Party A.P. Ratti

Surveyed by A.P. Ratti

Protracted by G.M. Marchand

Soundings penciled by G.M.M.

Soundings in ~~fathoms~~ feet

Plane of reference MLLW Humboldt Bay

Subdivision of wire dragged areas by

Inked by L.S. Straw

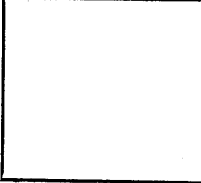
Verified by L.S. Straw

Instructions dated April 27, and Oct. 4, 19 29.

Remarks:

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



State: CALIFORNIA

DESCRIPTIVE REPORT

Topographic- }
Hydrographic } Sheet No. 10

LOCALITY

NORTHERN CALIFORNIA

HUMBOLDT BAY

19 29

CHIEF OF PARTY

A.P. Ratti

H. & G. E.

DESCRIPTIVE REPORT

To accompany Hydrographic Sheet Field No. 10, Humboldt Bay, Calif.

** ** ** ** **

DATE OF INSTRUCTIONS.-

Instructions covering this survey were dated April 27 and Oct. 4, 1929.

SURVEY METHODS.-

All soundings on this sheet were obtained with the hand-lead and all positions of same were determined by visual fixes using signals located by topography in 1929 and shown on topographic sheetfield no. F.

COMPARISON WITH PREVIOUS SURVEYS.-

The location of buoys and beacons were changed since the last survey for most recent locations see hydrographic and topographic sheets.

REMARKS.-

All soundings on this sheet are plotted in feet.
The survey covered by this sheet was of a revision nature.

Respectfully submitted,

Augustus P. Ratti

H. & G. S. Chief of Party.

T i d a l D a t a f o r S h e e t N o . 1 0 .

Location of tide staff: Field's Landing, Humboldt Bay, Calif.
Plane of Reference: MLLW 3.05 feet.

S T A T I S T I C S S H E E T N O . 10.

* * * * * * *

Date 1929	Letter	Volume	Positions	Soundings	Miles Stat.	Vessel.
Oct. 25	a	1	142	453	6.6	Rogue
" 28	b	1	114	472	5.0	"
" 30	c	1	61	222	2.9	"
" 31	d	1	65	243	2.2	"
" 31	d	2	<u>137</u>	<u>265</u>	<u>3.8</u>	"
		TOTALS	519	1655	20.5	

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Ed. June, 1928

DEPARTMENT OF COMMERCE

U. S. COAST AND GEODETIC SURVEY

R. S. Patton, Director



State: CALIFORNIA

DESCRIPTIVE REPORT

Topographic }
Hydrographic } Sheet No. 11

LOCALITY

NORTHERN CALIFORNIA

HUMBOLDT BAY

19-29

CHIEF OF PARTY

A. P. Batti

H. & G. E.

D E S C R I P T I V E R E P O R T

To accompany Hydrographic Sheet Field No.11. Humboldt Bay, Calif.

D a t e o f I n s t r u c t i o n s . *

Instructions for this survey were dated April 27 and Oct.4,1929.

S u r v e y M e t h o d s . -

All soundings on this sheet were obtained with the hand-lead and all positions of same were determined by visual fixes using signals located by topography in 1929 and shown on sheet field no.F.

R e m a r k s . -

All soundings are plotted in feet.
This survey was of a revision nature.

Respectfully submitted,

Augustus P. Ratti

H.& G.E. Chief of Party.

Tidal Data for Sheet No. 11.

Location of tide staff	North Jetty, Humboldt Bay, Calif.
Plane of Reference:	MLLW 4.47 feet.
Highest Tide:	12.7 "
Lowest Tide:	2.2 "
Type of gauge:	Standard Automatic.

S T A T I S T I C S S H E E T N O . 1 1 .

* * * * *

Date 1929	Letter	Volume	Positions	Soundings	Miles Stat.	Vessel.
Oct. 29	a	1	105	521	5.4	Rogue
" 30	b	1	<u>70</u>	<u>273</u>	<u>2.3</u>	"
TOTALS			175	794	7.7	

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DEPARTMENT OF COMMERCE

U. S. COAST AND GEODETIC SURVEY

R. S. Patton, Director

C. & G. S. S. S. S.

APR 14 1930

ALBANY

State: CALIFORNIA

DESCRIPTIVE REPORT

~~Topographic~~ } Sheet No. 12
Hydrographic }

LOCALITY

NORTHERN CALIFORNIA

HUMBOLDT BAY

1929

CHIEF OF PARTY

A. P. Ratti

H. & G. E.

DESCRIPTIVE REPORT

To accompany Hydrographic Sheet Field No. 12 Humboldt Bay, Calif.

** ** * * * * *

DATE OF INSTRUCTIONS.-

Instructions for this survey were dated April 27 and Oct. 4, 1929.

SURVEY METHODS.-

All soundings on this sheet were taken with the hand-lead and all positions were determined by visual fixes using signals located by topography in 1929 and shown on sheet field no. F.

SHOALINGS.-

A shoaling of 14 feet (4.3 m.) was found 594 m. 61° true (NE $\frac{1}{2}$ N mag.) from COG, U.S.E. *Also 13 ft, 653 m. from Cog*

REMARKS.-

This survey was made after dredging operations were completed.

All soundings are plotted in feet.

Respectfully submitted,

Augustus P. Ratti
H. & G. E. Chief of Party.

T I D A L D A T A F O R S H E E T N O . 1 2 .

Location of tide staff
Plane of Reference:

Eureka, Calif.
MLLW 2.30 feet.

STATISTICS SHEET NO. 12.

* * * * *

Date 1929.	Letter	Volume	Positions	Soundings	Miles Stat.	Vessel.
Nov.1	a	1	115	428	4.7	Rogue
" 4	b	1	<u>10</u>	<u>11</u>	<u>0.0</u>	"
		TOTALS	125	439	4.7	

May 24, 1930.

Division of Hydrography and Topography:

✓ Division of Charts:

Tide Reducers are approved in
4 volumes of sounding records for

HYDROGRAPHIC SHEET 5003

Locality: California (Humboldt Bay)

Chief of Party: A. P. Batti, in 1929

Plane of reference is mean lower low water, reading

3.5 ft. on tide staff at North Jetty

12.5 ft. below B. M. 2

2.3 ft. on tide staff at Eureka

33.6 ft. below B. M. 4

3.0 ft. on tide staff at Fields Landing

9.8 ft. below B. M. 1

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.


Chief, Division of Tides and Currents.

Section of Field Records.

Surveyed in 1929.
Report on Sheet No. H 5003.
Chief Party: U. P. Ratti
Surveyed by U. P. R.
Protracted by J. M. Marchand.
Soundings Plotted by J. M. M.
Verified and Indexed by J. P. Shaw

1. The records conform to the requirements of the General Instructions.
2. The plan and character of development fulfill the requirements of the General Instructions.
3. This survey was of a revision nature and was carried out in accordance with the specific Instructions.
4. The sounding line crossings are adequate.
5. The usual depth curves could be drawn with the exception of lines close inshore.
6. The field plotting was completed to the extent prescribed in the General Instructions.
7. No part of the field drafting was done over- and as a whole was considered very satisfactory.

8. Field sheets No 10, 11 and 12 of H-5003 are more complete developments of the channel surveys on Sheets H-5001, H-4096, and H-4097 respectively.

9. Further surveying is not required to fully develop important areas within the limits of this survey.

10. Remarks:-

In comparing Field Sheet No 10 with the contemporary survey (1929) on sheet H-5001, it was noticed that there was a disagreement of soundings in three or four cases in the main channel. No cause could be adduced in accounting for differences in depth at concurrent positions.

It should be borne in mind, in solving the above problem that there was only a lapse of 3 weeks time between the surveys.

Field sheet 11 and 12, compared very favorably with sheets H-4096 and H-4097 (both surveyed in 1919). Apparently, little change in the contour of the bottom has taken place in the last decade.

Aug. 30. 1930.

Respectfully Submitted
L. L. Starn

IN REPLY ADDRESS THE DIRECTOR
U. S. COAST AND GEODETIC SURVEY
AND NOT THE SIGNER OF THIS LETTER

AND REFER TO No. 11-DRM

DEPARTMENT OF COMMERCE
U. S. COAST AND GEODETIC SURVEY
WASHINGTON

SECTION OF FIELD RECORDS

Report on Hydrographic Sheet No. 5003

Humboldt Bay, California

Surveyed Oct. 25 to Oct. 31, 1929

Hand lead soundings

Instructions dated April 27, 1929 (Lt. A. P. Ratti)
Supplemental instructions dated October 4, 1929

Chief of Party, A. P. Ratti

Surveyed by A. P. R.

Protracted and soundings plotted by G. M. Marchand

Verified and inked by L. S. Straw

1. The records conform to the requirements.
2. The plan, character and extent of the survey satisfy the general and specific instructions.
3. There are very few cross lines. These cross fairly well and the agreement of adjacent lines is generally good.
4. Within the limits of the work, the information is sufficient for drawing the usual depth curves.
5. The examination of the end of the shoal southwest of Indian Island, shown on field sheet No. 12, shows an extension of the spit in a southwesterly direction and considerable shoaling. Within its limits, this sheet, H. 5003, should supersede the survey of 1919, H. 4097.

The revision work on field sheet No. 11, south of Lat. 40° 47' agrees fairly well with the survey of 1919, H. 4096, but within its limits this sheet, H. 5003, should supersede it.

Comparison of the work shown on field sheet No. 10, in the vicinity of Pt. Humboldt, with the hydrography on H. 5001, shows a number of differences. It is hardly probable, although not impossible, that changes have occurred in the three weeks which separate the two surveys. The work on H. 5001 was rechecked but no errors could be found. However, it is believed that any slight errors in the surveying, such as the not taking of angles exactly simultaneously would be magnified when enlarged to this scale and it is noted that most of the soundings on H. 5001 would agree fairly well with this work if their position were slightly changed.

It is recommended that the latest survey, H. 5003, supersede all previous work within its limits. This includes H. 4096, H. 4857 and H. 5001.

6. The usual amount of field plotting was well done by the field party. Through a misunderstanding the office verifier inked field sheet No. 10 to the nearest half foot instead of the nearest foot.
7. No additional work is recommended.
8. Reviewed by R. L. Johnston, Sept. 11, 1930.

Approved:

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

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

Field Records Section (Charts)

HYDROGRAPHIC SHEET No. *H-5003*

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

Field Nos: #10, #11 #12.

Number of positions on sheet	<i>.819.</i>
Number of positions checked	<i>.232</i>
Number of positions revised	<i>....1.</i>
Number of soundings recorded	<i>2888</i>
Number of soundings revised	<i>...16.</i>
Number of signals erroneously plotted or transferred	<i>....0.</i>

Date: *August 30, 1930*

Cartographer: *[Signature]*