

5945

5945

Form 504
Rev. Dec. 1933
DEPARTMENT OF COMMERCE
U.S. COAST AND GEODETIC SURVEY
R. S. PATTON, DIRECTOR

DESCRIPTIVE REPORT

Topographic }
Hydrographic } Sheet No. 2

State California

LOCALITY

Northern California Coast

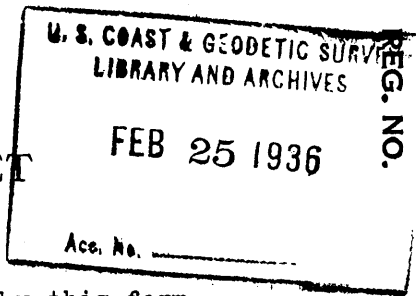
Usal Creek to Jackson Pinnacle

1935

CHIEF OF PARTY

F.H. Hardy

DEPARTMENT OF COMMERCE
U. S. COAST AND GEODETIC SURVEY



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. **H5945**

REGISTER NO.

State **California**

General locality **California Coast**

Locality ~~Off Timber Point~~ **Usal Creek to Jackson Pinnacle**

Scale **1:10,000** Date of survey **Aug. 27 to Oct. 9**, 192**35**

Vessel **Motorsailer and Gig (from Ship GUIDE)**

Chief of Party **F. H. Hardy**

Surveyed by **Francis B. Quinn and C. J. Beyma**

Protracted by **T. A. Renton**

Soundings penciled by **H. G. Conerly**

Soundings in fathoms ~~feet~~

Plane of reference **MLLW**

Subdivision of wire dragged areas by

Inked by **Jame Cornick**

Verified by **Jame Cornick**

Instructions dated **May 2**, 192**35**

Remarks: **Visual Fix Hydrography. Sounding by wire and leadline.**

DESCRIPTIVE REPORT
to accompany
HYDROGRAPHIC SHEET FIELD NO. 2
Project H.T. 206
Coast of California
U.S.C. & G.S.S. GUIDE
1935

INSTRUCTIONS:

Instructions for this project were dated May 2, 1935.

CHARACTER OF WORK:

The soundings were taken with wire and handlead, and positions were controlled by visual fixes.

The spacing of soundings and of sounding lines was kept within the limits prescribed in the above instructions. In general the lines inshore from the 10 fathom curve were spaced about 80 meters apart, with a maximum of 150 meters over a uniformly sandy bottom; and offshore from the 10 fathom curve about 150 meters with a maximum of 190 meters. No regular system of cross lines was run, but splits, developments of critical areas, and junctions with the work of the two launches and with other sheets showed a good agreement. ✓

The time interval between positions ranged from two to four minutes. .

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

LIMITS :

The area covered by this hydrography is 10.0 square statute miles, extending from Usal at Latitude $39^{\circ} 49.5'$ northward six miles to Latitude $39^{\circ} 54'$, and is in the general Longitude of $123^{\circ} 55'$.

This sheet is joined at the south by Sheet No. 1, 1935, (Field Number); at the west by Sheet No. 42, 1935, (Field Number); and at the north by Sheet No. 3, 1935, (Field Number). A satisfactory junction or overlap was made with each of these sheets. ✓

Sheet No. H-1643b, 1885, (Office Register), covers this area, but should be entirely superceded by the present survey for which stronger control was used and closer development was made. ✓

CONTROL:

The triangulation control on this sheet is from the 1930 scheme of second order coastal triangulation and field-adjusted positions of 1872 stations. All are on the North American 1927 datum. ✓

The topographic stations and topographic features are from sheets "B" and "C", 1935, (aluminum mounted), which were executed by Lieutenant (j.g.) M. G. Ricketts of this vessel. T-6378 and T-6379 ✓

Three hydrographic signals were located by sextant outs from the motorsailer. They are: ✓

REB, with cuts recorded on Page 9, Volume 1, ✓
BLACK, with cuts recorded on Pages 57 and 58, Volume 1, ✓
GREEN, with cuts recorded on Pages 57 and 58, Volume 1.

DATES OF SURVEY:

Work on this sheet was done on August 27, September 11, 19, 20, 25 and October 9. ✓

TIDAL DATA:

Tidal reducers for this sheet were obtained from Portable Automatic Tide Gage No. H-131, located at Shelter Cove, California. No corrections were applied. See "Tidal Note" sheet attached to this report. ✓

APPARATUS CORRECTIONS:

The leadlines and wire sheaves were checked throughout the season and found correct. The "Results of Sheave Measurements", November 5, 1935, are attached to the front cover of Volume 1. ✓

BOTTOM CHARACTERISTICS:

The bottom within the limits of this sheet is generally of fine gray sand, except off Jackass Cone where a rocky area extends one-half mile offshore, and close to the shoreline where numerous boulders were found. ✓

DANGERS AND SHOALS:

All the sunken rocks, rocks awash and kelp patches found on this sheet are within 400 meters of the shoreline. ✓

A rocky area with fairly uniform bottom extends one-half mile offshore at Jackass Cone, Latitude $39^{\circ} 51.5'$. A wire drag may disclose shoaler depths than the handlead, but the bottom as felt with a handlead did not suggest the existence of submerged pinnacles. ✓

SPOTS TO BE NOTICED:

A 2 2/6 fathom sunken rock, (Pos. 16d) lying 350 meters offshore at Latitude $39^{\circ} 50.9$, Longitude $123^{\circ} 53.4$ was investigated for least depth. ✓ ✓

A sunken rock (Pos. 93f) at the south edge of a kelp patch 150 meters off Jackson Pinnacle was noted while passing on a regular sounding line, but not investigated because of its proximity to shore and the kelp. ✓ ✓

A rock awash at MLLW (Pos. 100f) lying 300 meters northwest, true, from Jackson Pinnacle was investigated for least depth. ✓ ✓

A rock baring 2 feet at MLLW and lying close to shore was found 55 meters west of Signal GOON at Latitude $39^{\circ} 50.9$, Longitude $123^{\circ} 53.2$. ✓ ✓

COMPARISON WITH PREVIOUS SURVEYS:

Sheet No. H-1643 b, 1885, (Office Register), is the only previous survey covering this area. It is recommended that the present survey entirely supercede it, because of stronger control and closer development of the area. The earlier sheet shows the depths slightly shoaler particularly near shore, but agrees fairly well with the present survey. ✓

LANDMARKS:

Landmarks for charts were submitted under separate cover on Form 567 on December 10, 1935. ✓

ANCHORAGES:

No anchorages are recommended within the limits of this sheet. ✓

One small open bight at Latitude $39^{\circ} 51.5'$, Longitude $123^{\circ} 54.1'$, was used, years ago as a landing for logs, and another at Latitude $39^{\circ} 52.9$, Longitude $123^{\circ} 55.0$ was considered for that purpose. Both spots were carefully sounded, but were found of no value for anchorage purposes or for commercial use. Practically all open coast landings along this coast have been abandoned. ✓

DISCREPANCIES:

No discrepancies were noted. ✓

BOATS AND EQUIPMENT:

The work on this sheet was done with the Motorsailer, ✓

F. B. Quinn in charge, and the Gig, C. J. Beyma in charge.

Respectfully submitted,

Francis B. Quinn

Francis B. Quinn,
Jr. H & G Engineer,
C. & G. Survey.

Forwarded, approved,

F. H. Hardy

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

STATISTICS
to accompany
HYDROGRAPHIC SHEET FIELD NO. 2

Date 1935	Day Letter	No. of Sdgs.		No. of Pos.		Stat.Mi.Sdgs.		Stat.Mi. To & From	Boat Used
		Mach.	H.L.	Mach.	H.L.	Mach.	H.L.		
Aug.27	a(red)	---	60	---	16	---	1.5	3.5	M.S.
Sept.11	b "	---	777	---	202	---	19.5	3.0	"
11	a(blue)	471	---	183	---	16.1	---	2.5	Gig
19	c(red)	---	563	---	160	---	16.2	2.0	M.S.
19	b(blue)	462	---	170	---	16.1	---	0.3	Gig
20	d(red)	---	264	---	76	---	8.0	3.0	M.S.
20	c(blue)	188	---	65	--	6.3	---	2.2	Gig
25	e(red)	---	449	---	150	---	14.1	4.0	M.S.
25	d(blue)	129	---	61	---	3.0	---	4.0	Gig
Oct. 9	f(red)	---	459	---	112	---	11.6	1.0	M.S.
9	e(blue)	31	---	12	---	1.3	---	2.0	Gig
SUB-TOTALS		1281	2572	491	716	42.8	70.9		
TOTALS		3853		1207		113.7		27.5	

Total area 10.0 square statute miles.

SIGNALS USED ON HYDROGRAPHIC SHEET
No. 2 (Field No.)

Hydrog. Name	Location	Name Hydrog.	Location
LINE	Shoreline Rock 1873-1930	NOB	Topographic Sheet, Field No. B.
NORTH	North Usal ₂ 1930	TAN	-ditto-
OFF	Timber Point, large white rock off, 1930	NAT	Topographic Sheet, Field No. C.
BEE	Timber Point, large rock 1 mile north of, 1930	BERT	-ditto-
CONE	Jackass Cone 1872	DAD	-ditto-
NAC	Jackson Pinnacle 1872	HILL	-ditto-
PAT	Topographic Sheet, Field No. B.	CAT	-ditto-
PAUL	-ditto-	BILL	-ditto-
JOHN	-ditto-	DOG	-ditto-
GIN	-ditto-	BULL	-ditto-
LUG	-ditto-	RUM	-ditto-
NIK	-ditto-	SAP	-ditto-
HI	-ditto-	ROW	-ditto-
LO	-ditto-	GUS	-ditto-
BET	-ditto-	INK	-ditto-
GOON	-ditto-	REB	Sextant Cuts, Vol.1, Page 9.
DOT	-ditto-	BLACK	Sextant Cuts, Vol.1, Pages 57 and 58.
FLAT	-ditto-	GREEN	-ditto-

STATEMENT
to accompany
HYDROGRAPHIC SHEET FIELD NO.2

The smooth plotting of this sheet was done by T. A. Renton under the general supervision of Lieutenant (j.g.) L. W. Swanson.

The soundings, bottom characteristics and depth curves were penciled by Ensign H. G. Conerly.

The completed smooth sheet had been inspected and is approved.

F. H. Hardy

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

Rae

TIDE NOTE FOR HYDROGRAPHIC SHEET

March 4, 1936.

Division of Hydrography and Topography:

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

Tide Reducers are approved in
4 volumes of sounding records for

HYDROGRAPHIC SHEET 5945

Locality Usal Creek to Jackson Pinnacle, California Coast

Chief of Party: F. H. Hardy in 1935
Plane of reference is mean lower low water reading
2.7 ft. on tide staff at Shelter Cove
7.2 ft. 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:



Acting Chief, Division of Tides and Currents.

GEOGRAPHIC NAMES

Survey No.

H5945

Name on Survey

	A	B	C	D	E	F	G	H	K
	On Chart No.	On previous survey No.	On U. S. quadrangle Maps	From local information	On local Maps	P. O. Guide or Map	Rand McNally Atlas	U. S. Light List	
<u>USAL CREEK</u>	5602	✓							1
<u>JACKSON PINNACLE</u>	5602	✓							2
<u>MISTAKE PT.</u>	5602	✓							3
<u>CALIFORNIA</u>	5602								4
<u>PACIFIC OCEAN</u>	5602	✓							5
									6
									7
<i>Names approved Mar 4 1936.</i>									8
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O. Egnel

02-23-77

Remarks

Decisions

	Remarks	Decisions
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Field Records Section (Charts)

HYDROGRAPHIC SHEET NO. **H5945**

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

Number of positions on sheet	..1207
Number of positions checked	...9..
Number of positions revised0.
Number of soundings recorded	...3853
Number of soundings revised23
Number of signals erroneously plotted or transferred0

Date: *March 16, 1936*

Verification by *J. A. McCormick*

Time: *14 hrs.?*

Review by *John G. Ladd*

Time: *17 hrs.*

HYDROGRAPHIC SURVEY NO. 5945

Smooth Sheet Yes

Boat Sheets 2

Sounding Records Yes Vols. 4

Descriptive Report Yes

Title Sheet Yes

List of Signals See D.R.

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 No
(Circular Nov. 30, 1933)

Remarks _____

MEMORANDUM

IMMEDIATE ATTENTION

SURVEY }
 DESCRIPTIVE REPORT } No. H 5945
 PHOTOSTAT OF } No. T

{ received Feb. 25, 1936
 { registered March 3, 1936
 { 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
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22			
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62			
63			
82			
83			
88			
90			

RETURN TO

82	
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C. K. Green *MM. 3-36*

Verifier's Report on H-5945.

Records: Records conform with specifications. ✓

Drafting: Drafting is excellent. ✓

Control: Topographic signals and shoreline are from T-6378 and T-6379. ✓

Junctions: Junction was made with H-5920 on the south. Adjoining sheets on west and north have not been received from the field. ✓

Remarks: Junction with H-5920 was not so good in the vicinity of the ten fathom c urve. ✓

March 16, 1936.

Submitted,

J. A. McCormick

J.A.McCormick.

Section of Field Records

REVIEW OF HYDROGRAPHIC SURVEY NO. 5945 (1935) FIELD NO. 2

Usal Creek to Jackson Pinnacle, California Coast, California.

Surveyed in 1935

Instructions dated May 2, 1935

Hand Lead and Machine Soundings.

3 Point fixes on shore signals.

Chief of Party - F. H. Hardy.

Surveyed by - F. B. Quinn and C. J. Beyma.

Protracted by - T. A. Renton.

Soundings penciled by - H. G. Conerly.

Verified and inked by - J. A. McCormick.

1. Condition of Records.

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

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

2. Compliance with Instructions for the Project.

The survey satisfies the instructions for the project with the exception that no cross lines were run as called for in paragraph 12c.

3. Shoreline and Signals.

The shoreline and topographic signals originate with T-6378 (1935) and T-6379 (1935).

The hydrographic signals originate with this survey and the cuts for same are contained in the sounding volumes. (Vol. No. 1, pages 9, 57 and 58).

4. Sounding Line Crossings.

No cross lines were run. The parallel adjacent lines, however, are in good agreement.

5. Depth Curves.

The usual depth curves may be satisfactorily drawn including most of the 3 and portions of the 2 and 1 fathom curves.

6. Junctions with Contemporary Surveys.

The junction with H-5920 (1935) on the south is satisfactory, although there are slight discrepancies in the vicinity of the 10 fathom curve.

The junctions with H-5956 (1935) on the north and with Sheet No. 43, (1935) (field number), on the southwest (offshore) will be considered in the reviews of those surveys.

7. Comparison with Prior Surveys.

a. H-401 (1854).

This survey is a very small scale, reconnaissance track survey of the Pacific Coast. It contains no soundings that are in conflict with the present survey.

b. H-1643b (1885).

This survey on a 1:20,000 scale is in general good agreement with the present survey with the following exceptions:

- (1) The sunken rock shown on H-1643b (1885) but originating with T-1324 (1873), at lat. $39^{\circ}52.96'$, long. $123^{\circ}55.07'$, is not verified by the present hydrographic or topographic surveys. The Descriptive Report for the new topographic survey, T-6379 (1935), states, in referring to other rocks in the immediate area, that the area was visited at minus tide and all the existing rocks were cut in. However, since its location on the prior surveys is very conclusive, it has been added to H-5945 (1935).
- (2) The rock awash and the minus 2 foot sounding (on rock) (1885) at lat. $39^{\circ}50.12'$, long. $123^{\circ}51.4'$, falls on the present survey in an inshore unsurveyed spot. The sounding is at pos. 35c and the rock originates with the note at this position. The rock is not shown on the contemporary topographic survey T-1323 (1873), nor on the present topographic survey, T-6378 (1935). A replotting of the position (35c) together with an additional note at the position stating "rocky beach 15 meters ahead" shows that the position is inaccurately plotted, and that it should be further inshore where both the minus 2 and the rock would be in harmony with the present delineation of the area. Consequently, they should be disregarded in future charting.
- (3) The 18, 13 and 9 foot soundings shown on H-1643b (1885) at lat. $39^{\circ}52.7'$, long. $123^{\circ}55'$ fall on the present survey in depths of about 1 fathom deeper. A replotting of pos. "23₁" (at which the 9 foot sounding occurs) shows that it should be plotted about 15 meters further shoreward. In addition the soundings between pos. 22 and 23 ₁ are found to be incorrectly spaced and the 18 and 13 foot soundings should be further shoreward where they would be

in agreement with the present survey. The 18, 13 and 9 foot soundings should, therefore, be disregarded in future charting.

8. Comparison with Chart No. 5602 (New Print dated Nov. 19, 1931).

Within the limits of the survey the chart is based on surveys discussed in the foregoing paragraphs and contains no additional information that needs consideration in this review.

9. Field Plotting.

The field plotting was satisfactory.

10. Additional Field Work Recommended.

No additional sounding is required. Although there are no indications of dangers outside of the 5 fathom curve, the character of the shore formation indicates the possibility of detached rocks and wire drag work^{is}/desirable outside of the 5 fathom curve.

11. Superseding Old Surveys.

Within its limits the present survey supersedes the following surveys for charting purposes:

H-401 (1854) in part
H-1643b (1885) " "

12. Reviewed by - John G. Ladd, July 15, 1936.

In Inspected by - E. P. Ellis, August 7, 1936.

Examined and approved:

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

L. O. Lobbut.
Chief, Division of Charts.

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

Stude
Chief, Division of H. & T.

Applied to chart 5602 June 21, 1937 g.H.S.