

5642

5642

Form 504
Rev. Dec. 1933

DEPARTMENT OF COMMERCE
U.S. COAST AND GEODETIC SURVEY
R. S. PATTON, DIRECTOR

DESCRIPTIVE REPORT

Topographic } Sheet No. 8 5642
Hydrographic }

State California

LOCALITY

California Coast

Ragged Point to Villa Canyon

1934

CHIEF OF PARTY

F.H. Hardy

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. 6

REGISTER NO. 5642

State California

General locality California Coast

Locality Ragged Point to Villa Canyon

Scale 1-10,000 Date of survey Sept. 23 to Sept. 27, 1934

Vessel GUIDE

Chief of Party F.H. Hardy

Surveyed by R.F.A. Studds and I.R. Rubottom

Protracted by H. Roberts and N.G. Korneef

Soundings penciled by R.H. McCarthy Jr.

Soundings in fathoms feet

Plane of reference M.L.L.W.

Subdivision of wire dragged areas by

Inked by

Verified by

Instructions dated April 4, 1932 May 31, 1934, 192

Remarks: Visual Fix Hydrography. Soundings by Fathometer.

Wire and Hand Lead

DESCRIPTIVE REPORT
to accompany
HYDROGRAPHIC SHEET FIELD NO.6
PROJECT NO. 184
COAST OF CALIFORNIA
U.S.C. & G.S.S. GUIDE
1934

INSTRUCTIONS:

Instructions for the work on this sheet are dated April 4, 1932. The hydrography was performed in accordance with the Season's instructions dated May 31, 1934.

CHARACTER OF WORK:

The control for the hydrography on this sheet was done by means of visual fixes. The soundings were obtained by the fathometer, by wire, and by the hand lead. Twenty four (24) wire soundings were taken by the ship for comparison with the fathometer.

The depth range is from less than 2 fathoms to 36 fathoms. The majority of the work is inside the 30 fathom curve.

Soundings line spacing is approximately 100 meters inside the ten fathom curve, and 150 meters to the limits of the work on this sheet.

The position interval was usually two to three minutes, with supplemental positions at radical changes of speed and course.

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

LIMITS:

The hydrography on this sheet covers an area of approximately 14.0 square statute miles extending approximately from Latitude 35-51 (Villa Canyon) to Latitude 35-46 (One mile north of Ragged Point).

The sheet is joined on the north by Launch Sheet Field No. 5, on the south by Launch Sheet Field No. 7, completed during the 1934 season, and on the west by Ship Sheet Field No. 42 completed in 1933-34.

CONTROL:

Control for the hydrography on this sheet consisted of Hydrographic signals over triangulation stations of the 1932 scheme, executed by Lieutenant Charles Pierce, plotted on the North American 1927 Adjusted Datum. Topographic signals were located by the topographic unit of the party of the Ship GUIDE according to standard practice..

DATES OF SURVEY:

Work on this sheet began September 23, 1934 and was concluded on September 27, 1934.

TIDAL REDUCERS:

Tidal reducers for the soundings on this sheet were obtained from the San Simeon and Monterey Portable Automatic Tide Gages.

For further information on the subject of tides the reader is referred to the 1934 Season's Tidal Report which will be forwarded at a later date.

APPARATUS CORRECTION:

The apparatus correction for the soundings were applied only to those obtained by the fathometer. These consisted of corrections for temperature, salinity, and comparative vertical casts.

A report on this subject will be forwarded at a later date.

BOTTOM CHARACTERISTICS:

In general, the bottom is rocky to approximately the ten fathom curve. There is a coarse black and white sand bottom from the northern limit of the sheet to the rocky shoal off triangulation station Evans and to the 20 fathom curve.

Fine and coarse grey sand is found throughout the rest of the area covered by this sheet.

ANCHORAGES:

There appear to be no suitable anchorages on this sheet.

DANGERS AND SHOALS:

In approximately Latitude 35-49.3 two rocky shoals were found. The least depth on the southerly of the two is 5 fathoms, the northerly is 6 5/6 fathoms, both in approximately 14 fathoms of water and 1/2 mile offshore.

One mile southeast of these two shoals is White Rock No. 1 located by triangulation. *A rock awash* ~~Three smaller rocks~~ lies approximately 200 meters further offshore. These are in 15 fathoms of water.

There appear to be no other offlying dangers on this sheet.

JUNCTIONS:

The junctions with Launch Sheet Field No. 5 on the north and Launch Sheet Field No. 7 on the south and Ship Sheet Field No. 42 are uniformly good.

DISCREPANCIES:

The comparisons with photostat no. H 2076 are good.

Differences approaching one and two fathoms are found, and in a few cases where the bottom is irregular or rocky, slightly greater variances from the photostat may be found.

BOATS AND EQUIPMENT:

The inshore work was done by R.F.A. Studds and I.R. Rubottom in charge of the motorsailer. In general, lines beyond the 20 fathom curve were run by the ship, R.F.A. Studds in charge.

The large oscillator and the port forward hydrophone bank were used for all fathometer soundings taken.

The starboard sounding machine was used for all vertical casts taken.

Angles were taken on the bridge on the inshore side.

Respectfully submitted

L.W. Swanson



Jr. H. and G.E.

Coast and Geodetic Survey

Forwarded approved

Keep

** Indication, at*

STATISTICS
to accompany
HYDROGRAPHIC SHEET FIELD NO. 6

Date 1934	Day Letter	No. Soundings Mach	H.L.	No. Positions Mach.	H.L.	Stat. M. Mach.	Sdgs. H.L.	Stat M. to and from.	Boat
9-23	a		358		110		14.0	1.5	M.S.
9-24	b		627		161		24.2	---	
9-25	c		516		149		23.7	2.5	
9-26	d	242	188	118	51	17.5	10.0	2.0	
9-27	e	126	27	46	11	7.0	1.7	0.2	
<hr/>									
Total M.S.		368	1716	164	482	24.5	73.6	6.2	

		Fath RLD	Fath RLD	Fath RLD	V.C.	
9-23	A	996	170	55.7	8	21.8
9-24	B	803	142	42.0	5	24.5
9-25	C	83	23	4.2	5	4.2
9-27	D	289	55	12.5	6	13.7
<hr/>						
Total SHIP		2171	390	114.4	24	94.6

Total for Sheet	Soundings 4255	Positions 1036	Stat. Miles 212.5	Sdgs.
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Area in statute square miles---- 14.0

LIST OF SIGNALS
to accompany
HYDROGRAPHIC SHEET FIELD NO.6

HYDROGRAPHIC NAME	TRIANGULATION	LOCATION
RUCE		Spruce 1933-34
DEL		White Rock No. 2 1933
EVA		Evans 1932-33
ISA		White Rock No. 1 1933
CCW		County 1932-33
LUIS		Luis 1932-33
HI		Large White Rock off Luis 1933

TOPOGRAPHIC SIGNALS

Topo Sheet E	Topo Sheet F
Men	Fun
Ned	Go
Bar	Hat
Up	Ill
Big	Joy
Abe	Kid
Ben	Lot
Dub	My
Elf	Nix
Sue	Old
	Pad
	Ran
	Sun
	Tin
	Use
	Wet
	Zip
	At
	But
	Cal
	Do
	Eat
	Fox
	Got
	Jib
	Lit

STATEMENT
to accompany
HYDROGRAPHIC SHEET FIELD NO.6

Volumes No. 1 and 5 and d and e day of volume 4 were protracted by H. Roberts, Draftsman. Volumes No. 2 and 3 and g day of volume 4 were protracted by N.G. Korneef, Draftsman. R.H. McCarthy Jr., Draftsman, pencilled the soundings. All the above work was done under the general supervision of Lieutenant (jg) L.W. Swanson.

Lieutenant Swanson has drawn the depth curves.

The completed smooth sheet has been inspected and is approved.

F.H. Hardy
F.H. Hardy

Chief of Party
Coast and Geodetic Survey
Commanding Ship GUIDE

Field Records Section (Charts)

HYDROGRAPHIC SHEET NO. 5642

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

Number of positions on sheet	.1036
Number of positions checked	..67..
Number of positions revised	..16..
Number of soundings recorded	.4255
Number of soundings revised	..16..
Number of signals erroneously plotted or transferred0.....

Date: 5/2/35

Verification by John W. Parsons

Time: ~~40 days~~ 70 hr.

Review by

Red Strait

Time: 23 1/2 hr.

zac

March 28, 1935.

E

Division of Hydrography and Topography:

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

Tide Reducers are approved in
5 volumes of sounding records for

HYDROGRAPHIC SHEET 5642

Locality Ragged Point to Villa Canyon, California Coast

Chief of Party: F. H. Hardy in 1934
Plane of reference is mean lower low water, reading
2.5 ft. on tide staff at Monterey
12.5 ft. below B.M. 3

1.3 ft. on tide staff at San Simeon
20.0 ft. below B.M. 1

Height of mean higher high water above plane of reference is 5.3 feet
at Monterey; 5.2 feet at San Simeon.

Condition of records satisfactory except as noted below:


Acting Chief, Division of Tides and Currents.

Survey No. H-5642

GEOGRAPHIC NAMES
California

Date Feb. 11, 1935

Chart No. 5302

Diagram No. 5302-2

Approved by the Division of Geographic Names, Department of Interior. ✕

Referred to the Division of Geographic Names, Department of Interior. R

Under investigation. Q

Status	Name on Survey	Name on Chart	New Names in local use	Names assigned by Field	Location
	-----	<u>Ragged Point</u> ✓			
	-----	<u>Villa Canyon</u> ✓			
		<u>California</u> ✓			
	-----	<u>White Rock No.1</u> ✓			
	-----	<u>White Rock No.2</u> ✓			

Report on - H-5642

Surveyed in - California

Chief of Party - F.H. Hardy

Surveyed by - {R.F.A. Studds
I.R. Rubottom

Protracted by - H. Roberts + N.G. Korneef Sounding plotted by - R.H. McCarthy Jr.

Verified and inked by - John W. Parsons

The records are complete and conform to the requirements of the general instructions.

The zero and 1 fathom curves can not be drawn at all and only a portion of the 2 and 3 fathom curves can be drawn. The other curves can be completely drawn, except for a small break in the 5 fathom curve at the N.W. end of the sheet.

All positions recorded have been generally plotted satisfactorily with few corrections as noted in the records.

The junction with Hydro sheet # 5567 is very satisfactory. The junctions with Hydro sheet 5671a and 5651 could not be shown on this sheet, as they are not inked.

Remarks

The rock awash between 34 + 35 b at Lat. $35^{\circ} - 51.07'$ Long. $121^{\circ} - 24.85'$ is shown on the Topo sheet as "bares 4' MLLW". The note in Sounding Vol. 3 calls same rock "bares 7' 19 L L W".

The rock on position 7d Vol. 4 was not inked as the note didn't say whether it was awash or a sunken rock. However This note refers to White Rock No 1 (located by ^{topography} triangulation)

Respectfully submitted

John W. Parsons

Section of Field Records

REVIEW OF HYDROGRAPHIC SURVEY NO. 5642 (1934)

Ragged Point to Villa Canyon, California Coast, California
Surveyed in 1934

Instructions dated April 4, 1932, and May 31, 1934 (GUIDE)

Hand Lead, Machine and Fathometer Soundings - 3 Point Fixes on Shore Signals.

Chief of Party - F. H. Hardy.

Surveyed by - R. F. A. Studds and I. R. Rubottom.

Protracted by - H. Roberts and N. G. Korneef.

Soundings penciled by - R. H. McCarthy, Jr.

Verified and inked by - J. W. Parsons.

1. Condition of Records.

The records are neat and legible and conform to the requirements of the Hydrographic Manual, except that no copy of Landmarks for Charts on Form 567 accompanied this particular sheet.

The Descriptive Report, although brief, is considered satisfactory.

2. Compliance with Instructions for the Project.

The plan, character and extent of the survey satisfy the requirements of the instructions except that no cross lines were run as called for in paragraph 20 of the instructions dated April 4, 1932.

3. Sounding Line Crossings.

No cross lines were run, however the agreement of adjacent parallel lines is satisfactory.

4. Depth Curves.

The usual depth curves may be satisfactorily drawn including portions of the two and three fathom curves.

5. Junctions with Contemporary Surveys.

The junction with the offshore survey, H-5567 (1934), on the west is satisfactory.

The junction on the south with H-5671a (1934) and on the north with H-5651 (1934) will be considered in the reviews of those surveys.

6. Comparison with Prior Surveys.

a. H-290 (1851).

This is a small scale reconnaissance survey of the west coast, which consists mostly of topography and a single line of soundings run along the coast. Only three or four soundings fall within the limits of the present survey and they are in good agreement.

b. H-1612 (1884).

This survey covers only a narrow strip on the southeastern edge of the present survey. It is in good general agreement and shows no soundings which need discussion.

c. H-2076 (1890-91).

This survey, on a scale of 1-20,000, covers practically the entire area of the present survey with a moderate development. It is in good general agreement with the following exceptions:

- (1) In lat. $35^{\circ}50.05'$, long. $121^{\circ}24.15'$ a $6\text{-}5/6$ fathom sounding (uncharted) and a $7\frac{1}{2}$ fathom sounding (charted as 7) fall in blank area between depths of $9\frac{1}{2}$ and 12 fathoms on the present survey. In view of the fact that the surrounding depths on the old and new surveys are in good agreement, these soundings have been carried forward.
- (2) South of White Rock No. 2 differences in shore line from 90 to 125 meters are noted at various places. The present topographic surveys, T-4890 (1934) and T-4879 (1934), show numerous rocks along the shore 40 to 80 meters from their old positions. Since most of the rocks in question are on the edge or outside the limits of the Hydrographic survey, the topographic survey is the authority for their location. Two offlying rocks awash located in lat. $35^{\circ}49.28'$, long. $121^{\circ}23.26'$ and lat. $35^{\circ}49.17'$, long. $121^{\circ}23.26'$ are 70 and 88 meters, respectively, inshore from the positions on the old surveys, H-2076 (1890-91) and T-1829 (1887). The new location should be used for charting purposes. See par. 3 page 4 of Descriptive Report of T-4890 (1934).
- (3) Inshore rocks shown on H-2076 (1890-1) but originating with T-1829 (1882), which fall inside the limits of the hydrography and which differ from the present delineation will be disposed of in the reviews of T-4890 (1934) and T-4879 (1934).

7. Comparison with Chart 5302.

a. Hydrography.

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

b. Aids to Navigation.

There are no aids to navigation within this area.

8. Field Plotting.

The protracting and plotting are satisfactory and conform to the requirements of the Hydrographic Manual except that in several cases the notes in the sounding records were misinterpreted, which resulted in rocks being penciled on the smooth sheet for which there was no authority. Boat sheet only authority. See letter by chief of party attached.

9. Additional Field Work Recommended.

No additional work is required.

10. Superseding Old Surveys.

Within the area covered the present survey, with the indicated additions from previous surveys, supersedes the following surveys for charting purposes:

H- 290 (1851) in part.
H-1612 (1884) " "
H-2076 (1890-91) in part.

11. Reviewed by - Leo S. Straw and R. L. Johnston, May, 1935.


Supervised by - A. L. Shalowitz.

Examined and approved:


K. T. Adams,
Asst. Chief, Division of Charts.


Chief, Division of Charts.


Acting
Chief, Section of Field Work.


Chief, Division of H. & T.

lws

POST-OFFICE ADDRESS:

TELEGRAPH ADDRESS:

EXPRESS ADDRESS:

DEPARTMENT OF COMMERCE

U. S. COAST AND GEODETIC SURVEY

Steamer GUIDE, 510 Custom House,
San Francisco, Calif.,
July 30, 1935.

80 82-CKC
attach to review
of H-5642
7-30-35

To: The Director, U. S. Coast and Geodetic Survey,
Washington, D. C.

From: The Commanding Officer, U.S.C. & G.S.S. GUIDE.

Subject: Review of H-5642 (1934)

Reference: 82-A.A.P., June 29, 1935.

With reference to the review of H-5642 (1934)
Page 3 - Paragraph 8, Field Plotting.

It is regretted that the descriptive report of
this sheet failed to state that numerous rocks located by
the hydrographer, and in some cases not noted in the
record books, were shown on the boat sheet in blue ink.
These rocks were transferred to the smooth sheet and shown
in pencil.

It is suggested that a comparison be made with
the penciled rocks on the smooth sheet which appear without
appropriate notes in the field records, and rocks shown on
the boat sheet in blue ink. These rocks were inked blue in the
field, when lines were being run by the hydrographer to
distinguish them from rocks located by the topographic party.

The above might apply to one or two other launch
sheets in this vicinity.

F. H. Hardy
F. H. Hardy,
Captain, C. & G. Survey,
Commanding Ship GUIDE.

25 Jan 9, 1936
S.A.S.

Applied to drawing of Chart 5302 - Feby. 20, 1936 - J.W.