

5452

5452

Form 504
Ed. June, 1928

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

U. S. COAST & GEODETIC SURVEY
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JUN 1 1934

State: California Acc. No. _____

DESCRIPTIVE REPORT

~~XXXXXXXXXX~~ } Sheet No. 7
Hydrographic

LOCALITY 5452

South of Monterey Bay

Ventura Rocks to Lobos Rocks

19..35

CHIEF OF PARTY

Frd. L. Peacock

U. S. GOVERNMENT PRINTING OFFICE: 1928

DEPARTMENT OF COMMERCE
U. S. COAST AND GEODETIC SURVEY

REG. NO. 5452

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. 7

REGISTER NO. 5452

State California

General locality South of Monterey Bay

Locality Ventura Rocks to Lobos Rocks

Scale 1:10,000 Date of survey Oct. to Nov., 1933

Vessel Chartered Launch POINT REYES

Chief of Party Fred. L. Peacock

Surveyed by G. C. Jones and W. J. Chovan

Protracted by G. C. Jones and W. J. Chovan

Soundings penciled by W. J. Chovan

Soundings in fathoms ~~X 600~~

Plane of reference M L L W

Subdivision of wire dragged areas by

Inked by Irvin Michaelson

Verified by Leo S. Straw - Irvin Michaelson

Instructions dated April 4, 1932 and February 24,, 1933

Remarks:

U. S. GOVERNMENT PRINTING OFFICE: 1929

*Applied to CH 5407 - Mar. 1935. J.A. Bamber
" " " 5476 Aug 1939. S.B. Maize*

1.

DESCRIPTIVE REPORT
to accompany
HYDROGRAPHY SHEET FIELD NO. 7
Project No. HT 130
California Coast

INSTRUCTIONS: To Commanding Officer, Ship GUIDE, April 4, 1932.
Director's letter to G. C. Jones, February 24, 1933, 22-RS 1990.

SURVEY METHODS: All surveying was done in accordance with standard practice as described in the Hydrographic Manual.

The hydrography on this sheet is controlled by visual fixes. Soundings up to fifteen fathoms were obtained by lead line, deeper soundings by machine. Position of sounding apparatus, machine or hand lead was generally not over 3 meters from anglers.

The hydrography was taken inshore as far as it was safe to maneuver the sixty-five foot chartered launch. It was hoped that sometime during the season this party could be furnished a motorsailer from the Ship GUIDE so that the hydrography could be carried farther inshore.

The sunken rocks shown in yellow on the boat sheet were transferred from the old topographic sheet. The topographer inspected this coast thoroughly at minus tides for sunken rocks, and the hydrographer was continually on the lookout for verification of these rocks while on the sounding line. Every one of these rocks were found.

DANGERS: The thickly kelp covered shoal area about 0.6 miles due west from Signal GRANITE was developed by running a system of closely spaced parallel lines and also a few cross lines parallel with the axis of the shoal. The heavy kelp ~~prevented~~ drift sounding over this area. The shoalest sounding found was the first sounding after Position 62, J day, which is 4 5/6 fathoms, 1175 meters due west from Triangulation Station GRANITE.

The thickly kelp covered area about 1/4 mile northwest of Triangulation Station SHARP, was developed by drift lines. The shoalest sounding found occurred on Position 2, M day, 5 fathoms, 480 meters northwest from Triangulation Station SHARP.

ANCHORAGES: There are no anchorages on this sheet. The abalone fishermen on this coast, while on the fishing grounds, occasionally anchor in the bight, at Bixby Landing. In order to obtain holding ground they anchor in the 7 fathom kelp covered area and pay out enough chain to be in the lee of the point to obtain protection from the northwest.

This party anchored in this bight one night, and found it to be very undesirable in anything but extremely smooth weather.

COMPARISON WITH PREVIOUS SURVEYS: Soundings from old bromides were transferred to the boat sheet and checked fairly well in general. They were too widely spaced for a close check to be made.

GEOGRAPHIC NAMES: See Descriptive Report for Topographic Sheet, Field Letter G, Project No. HT 130.

TIDE REDUCERS: The tide reducers for the soundings on this sheet were obtained direct from the portable automatic tide station at Carmel Cove. Location: Latitude 36° 31.2, Longitude 121° 56.4.

Plane of reference (M L L W) reads 3.6 on staff.
Highest tide observed - 10.5 feet.
Lowest tide observed - 1.5 feet.

JUNCTIONS: The junctions with launch sheets, Field Nos. 6 and 8, and Ship Sheet, Field No. 47 are good.

STATISTICS FOR HYDROGRAPHIC SHEET FIELD NO. 7:

Statute Miles Sounding Lines	Number of Soundings	Number of Positions
122.9	2140	1446

Respectfully submitted,

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

Respectfully forwarded:

G. C. Jones
G. C. Jones,
H. & G. Engineer,
Chief of Party, C. & G. S.

LIST OF SIGNALS
to accompany
HYDROGRAPHIC SHEET FIELD NO. 7.
Project No. HT 130
California Coast

TRIANGULATION

Name	Hydrographic Name (Shortened)
Lobos Rocks West, 1932	Out
Lobos Rocks East, 1932	In
Soberanes Point, 1875-1932	Sober
Granite, 1932	Nite
Kaslars Point, 1875-1932	Kas
Division Knoll, 1875-1932	Div
Sharp Rock Most Westerly off Bixby Landing, 1932	Sharp
Round Rock 1/2 mile south of Bixby Landing, 1932	Round
Rock 3/4 mile south of Bixby Landing, 1932	Bix
Brazil, 1932	
Ventura Rock, 1932	Vent

LIST OF PLANE TABLE OBJECTS
ALL FROM TOPOGRAPHIC SHEET G
Project No. HT 130

Roy	Mis
Pit	Caw
White	Barn
The	Sig
Pow	Ash
Wash	But
Art	Vis
Ho	North
Til	South
Small	Sign
Sand	Pin
Bunk	Why
Tin	Shack
N G	New
Wine	
Flag	
High	

July 17, 1934

Division of Hydrography and Topography:

✓ Division of Charts:

Tide Reducers are approved in
4 volumes of sounding records for

HYDROGRAPHIC SHEET 5452

Locality **Ventura Rocks to Labos Rocks, Coast of Calif.**

Chief of Party: **Fred L. Peacock in 1933**
Plane of reference is **mean lower low water, reading**
3.7 ft. on tide staff at Carmel Bay
8.3 ft. below B. M. 1

Height of mean higher high water above plane of reference
is 5.2 ft.

Condition of records satisfactory except as noted below:


Acting Chief, Division of Tides and Currents

Inspection of H. 5452

North of Point Sur - California

Chief of Party - Fred L. Peacock.
Surveyed in 1933.

Hand Lead - Machine Soundings.

1. Records.

The records conform to the requirements of the Hydrographic Manual, except that no list of signals was attached to the first volume of the records for H. 5452. *Listed in Desch. Rep.*

2. Protracting.

The protracting is excellent. No positions were revised by the undersigned.

3. Character of Development.

The development is not complete in some areas close in shore. See paragraph "Survey Methods" page one of this Descriptive Report. (H. 5452).

4. Comparison with Chart 5476.

a. The more important shoaler depths determined by the new survey (H. 5452) compared directly with Chart 5476 are as follows:

1. Lat. $36^{\circ}25'.84$; Long. $121^{\circ}55'.73$ (.6 miles due west of Δ GRANITE) a $4\frac{5}{8}$ fathoms sounding falls on a $6\frac{3}{4}$ fathom sounding on Chart 5476.

2. Lat. $36^{\circ}22'.54$; Long. $121^{\circ}54'.74$ (480 meters northwest of Δ SHARP) a 5 fathom sounding falls 200 meters outside of the 10 fathom curve on Chart 5476.

3. Lat. $36^{\circ}22'.23$; Long. $121^{\circ}54'.47$ (235 meters south by east of Δ SHARP) a 6 fathom sounding falls on a 12 fathom sounding on Chart 5476. This is a shoal spot with 8 to 10 fathoms surrounding depths.

4. Lat. $36^{\circ}21'.8$; Long. $121^{\circ}54'.57$, a sunken rock 4 feet below MLLW was located (pos. 24N) about 50 meters farther out than the 10 fathoms curve shown on Chart 5476.

5. Lat. $36^{\circ}20'.57$; Long. $121^{\circ}55'.94$, a $3\frac{1}{6}$ fathoms sounding falls between a $4\frac{3}{4}$ fathoms sound and the 10 fathom curve on Chart 5476.

6. A rock awash about 200 meters northeast of Ventura Rocks is shown on Chart 5476. This rock does not appear on either of the Hydrographic or Topographic surveys made in 1933. Since there is much kelp in this immediate vicinity the rock may not have been visible to either the Hydrographic or Topographic parties. *This rock should be an error on original plotting.*

5. Remarks.

a. The Topographic signals on H. 5452, rocks and rocky reefs were checked by the undersigned. The transfer of rock and rocky reef symbols was not carefully made, some dangers were not shown correctly or not at all. ✓

b. The Hydrographic sheet was made to conform to the Topographic sheet except where additional hydrographic information was obtained and except as noted in paragraph (c) under remarks. ✓

c. The southernmost rock at Ventura Rocks is shown on T. 4849 as a bare rock with the note "awash at MHHW" and the northernmost rock at Lat. $36^{\circ}23'.47$; Long. $121^{\circ}54'.48$ with note "Awash at MHW". A penciled rock awash symbol of unknown source appears on T. 4849 in such a manner as to indicate that these bare rocks should be designated as rocks awash. The notes were not transferred to the Hydrographic Sheet and the rocks were left on the Hydrographic Sheet to agree with the inked symbols on the Topographic Sheet. The proper symbols and notes should be determined and placed on the Hydrographic sheet when it is reviewed. ✓



Submitted by - Leo S. Straw,
Aug. 23, 1934.

Field Records Section (Charts)

HYDROGRAPHIC SHEET No **H 5452**.

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

Number of positions on sheet	1446..
Number of positions checked	.16..
Number of positions revised	...0..
Number of soundings recorded	2140..
Number of soundings revised	All depths of 10 fathoms to 11 fath. plotted as required by H-Manual.
Number of signals erroneously plotted or transferred0..

Date:..... 10/3/34

Cartographer:..... Irvin Michaelson

Verification of protracting & inking abals	----- L.S. Straw	--- Time: 13hr.
Verification of rocks of rocks by by	----- " " "	--- Time: 34 ¹ / ₈ "
Verification of inking by Irvin Michaelson		Time: 22 ¹ / ₂ "
Review by R. J. Christman		Time: 19 hrs

To: Mr. Bacon
From L. S. S.

Survey No. H 5452

GEOGRAPHIC NAMES

Date: October 9, 1934

Chart No. 5402 & 5476

Names underlined in red approved Oct 11, 1934
H.B.

Diagram No. 5402-2

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

⊘ Not Approved by the Division of Geographic Names, Department of Interior.

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

Status	Name on Survey	Name on Chart or other authorities	New Names in local use	Names assigned by Field	Location
✓ <i>H.B.</i>	*****	Lobos Rks. (5402) Lobos Rocks (5476)	----	----	36°27.3' ✓ 121°56.2' ✓
✓ <i>H.B.</i>	-----	Soberanes Pt. ✓	----	----	36°27.1' ✓ 121°55.5' ✓
	<i>Hold for investigation</i> <i>H.B.</i>	Kasler Pt. USGS Kaslars Pt. Kasler's Pt. (Top 4849) " " " (15254) <i>Named after Chas. Kasler</i>	----	----	36°24.3' ✓ 121°54.8' ✓
✓ <i>H.B.</i>	<i>Use</i> <u>Motleys Landing</u> Motleys Landing (error)	NNotleys USGS Norleys Landing (Top 4849)	----	----	36°23.6' ✓ 121°53.9' ✓
✓ <i>H.B.</i>	-----	Castle Rk. <i>Vertical letters.</i>	----	----	36°22.5' ✓ 121°54.6' ✓
✓ <i>H.B.</i>	<u>Bixby Landing</u> ✓ " " USGS " " and Top 4849	Hamilton Landing (5476) Hamilton Andg. (5402)	----	----	36°22.3' ✓ 121°54.0' ✓
<i>O.K. in 1-4849</i> <i>By H.B.</i> <i>July, 1934</i>	<u>Hurricane Point</u> ✓	-----	Hurricane Pt.	Hurricane Point	36°21.4' ✓ 121°54.3' ✓
✓ <i>H.B.</i>	-----	<u>Ventura Rocks</u> (5476) Ventura Rks. (5402)	----	----	36°20.6' ✓ 121°54.4' ✓
✓ <i>H.B.</i>	<u>Pacific Ocean</u> ✓	-----	----	----	36°24.0' ✓ 121°56.3' ✓

Section of Field Records

REVIEW OF HYDROGRAPHIC SURVEY NO. 5452 (1933).

Ventura Rocks to Lobos Rocks, South of Monterey Bay, California.
Instructions dated April 4, 1932 and Feb. 24, 1933 (GUIDE).
Surveyed - Oct. to Nov. 1933.

Hand Lead and Machine Soundings - Visual fixes on Shore Objects.

Chief of Party - Fred L. Peacock.
Surveyed by - G. C. Jones and W. J. Chovan.
Protracted by - G. C. Jones and W. J. Chovan.
Soundings penciled by - W. J. Chovan.
Verified and inked by - L. S. Straw and I. Michaelson.

1. Condition of Records.

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

a. The checking of topographic signals by the field party was not evidenced by initials on the smooth sheet. They were checked by the verifier.

b. In some cases the transfer of rock and reef symbols to the smooth sheet was not carefully done, and some dangers were omitted. The necessary corrections have been applied in the office.

c. On page 58, Vol. 2, of the sounding records, there is a note "Rock hit" between position 172 and 173D. The sounding is 3 5/6 fathoms, and a more detailed note should have been added in the records. The sunken rock symbol has been retained on the smooth sheet.

2. Compliance with Instructions for the Project.

The survey in general complies with the instructions for the project. See page 1 of the Descriptive Report with reference to development close to the shore.

3. Sounding Line Crossings.

In the few cases where cross lines were run, the agreement in depth is, in general, good, except the 3 fathom discrepancy in lat. $36^{\circ}20'.95$, long. $121^{\circ}54'.34$.

4. Depth Curves.

Of the usual depth curves to be shown in ink, only the 20 fathom curve may be completely drawn, but portions of the 3, 5, and 10 ~~bottom~~^{fathom} curves may be drawn. The coast is foul out to the general trend of the 10 fathom curve, and excessive development would be necessary to completely delineate that curve.

5. Junction with Contemporary Surveys.

a. H. 5453 (1933).

The junction is satisfactory.

b. H. 5313 (1932-33).

This survey is offshore fathometer soundings, scale 1:40,000. The agreement in depth in the overlapping area is very good, differing by 1 fathom in only a few places.

6. Comparison with Prior Surveys.

a. H. 1549a (1883), H. 1549b (1883).

The agreement between the two surveys is very good. The 1933 survey shows less water ($4 \frac{5}{6}$ as against $6 \frac{3}{4}$ fathoms) on the shoal in lat. $36^{\circ}25'.9$, long. $121^{\circ}55'.7$. Also the new survey developed a 5 fathom shoal $\frac{1}{4}$ mile WNW of Castle Rock of which the 1883 survey had barely an indication in 12 to 15 fathoms. ✓

Inshore differences are as follows:

1. The rock awash shown on H. 1549b (1883) about 180 meters northeast of the Ventura Rocks does not exist. An examination of the original record shows that the position day letters were entered erroneously on the sheet and the note in the Remark Column of 7 h red was plotted against the position 7 k red. ✓

2. A number of bare rocks or islets on the 1883 survey (and on Chart 5476) are shown on the 1933 survey by the rock awash symbol with descriptive note. The differences are covered by a general note in the Descriptive Reports but not listed in detail. The only one presenting any uncertainty is the larger (southern) Ventura Rock which is described in the Coast Pilot as a "high, prominent rock" while T. 4849 (1933) shows it as "awash at MHHW" with a rock awash symbol in pencil. Confirmation of this elevation has been requested from the field party. ✓

*See attached letter
Apr. 15, 1935.*

3. A few rocks shown on the 1883 survey by the rocky reef symbol are shown on the 1933 survey by the rock awash symbol in red. They are probably awash at extreme low tide and were not seen during the 1933 survey. ✓

4. The cove at Bixby Landing, lat. $36^{\circ}22'.2$, long. $151^{\circ}54'.3$, shows several shoal depths on the 1883 survey of which a $4 \frac{1}{4}$ is charted. The spacing of the soundings along the line 10 to 11 b (sheet 1549b) is questionable as only the total time is given and the equally spaced soundings brings a crossing of $7 \frac{1}{2}$ fathoms (pos. 14 m) between the $4 \frac{1}{4}$ and $5 \frac{3}{4}$ on the line as plotted. The $7 \frac{1}{2}$ fathoms is in substantial agreement with the 1933 survey. The other soundings in this cove are fairly consistent and none of them have been carried forward to H. 5452 (1933).

b. H. 290 (1851).

This survey is on a very small scale and all the information on it has been covered in the later surveys.

7. Comparison with Chart No. 5476.

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.

8. Field Plotting.

Protracting was excellent; soundings were accurately penciled.

9. Additional Field Work Recommended.

For future consideration.

a. Inasmuch as the descriptive report states that fisherman anchor in Bixby Landing, additional development around the entrance, especially in connection with the 6-fathom sounding (lat. $36^{\circ}22'.25$, long. $121^{\circ}54'.4$) of the new survey, would be desirable.

b. In the vicinity of Ventura Rocks, unless the adjoining sheet shows some additional soundings in this area. The question of the elevation of the larger Ventura Rock should be definitely settled (see 6-a-2, above). *Reply from Chief of Party states elevations are correct as shown on this sheet. A.K.G.*

10. Shoal Soundings.

a. A $3 \frac{1}{6}$ fathom depth (after pos. 70 M, lat. $36^{\circ}20'.6$, long. $121^{\circ}53'.95$) is doubtful in that a later investigation showed no less than 7 fathoms 2 feet (pos. 112 M) and a note suggests that the earlier sounding was a no bottom on account of kelp. The $3 \frac{1}{6}$ has been retained on the sheet as no specific disposition regarding the sounding is recommended by the field party.

b. The 6 fathom shoal, lat. $36^{\circ}22'.25$, long. $121^{\circ}54'.45$ was examined by detached soundings for least depth, but recorded soundings do not show surrounding depths.

11. Superseding Old Surveys.

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

H. 1549a (1883) in part.
H. 1549b (1883) in part.
H. 290 (1851) in part.

12. Reviewed by - R. J. Christman, October 1934.

Inspected
~~Supervised~~ by - A. L. Shalowitz.

Examined and approved:

C. K. Green

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

L. O. Robert
Chief, Division of Charts.

H. S. Borden

Chief, Section of Field Work.

G. Hude

Chief, Division of H. & T.

80

POST-OFFICE ADDRESS:
TELEGRAPH ADDRESS:
EXPRESS ADDRESS:

copy made for Coast Pilot Seal

25
KTAG
80
82
H-5452

92 CKG

1934 DEC -24- AM 9:24

DEPARTMENT OF COMMERCE
U. S. COAST AND GEODETIC SURVEY
Steamer GUIDE, 510 Custom House,
San Francisco, Calif.,
Dec. 17, 1934.

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

From: Lieutenant-Commander G. C. Jones, Commanding
Ship GUIDE.

Subject: Ventura Rocks, California.

Reference: Director's letter of November 20, 1934, 80-DRM.

The discrepancy described in above reference was noted. Reply could have been made at once but it was preferred to make a field check as it could be done without loss of time.

The description of Ventura Rocks on Topographic Sheet, No. T 4849 is the correct description. It is noted that the Coast Pilot description would be correct for Lobos Rocks seven miles farther north. Also the Coast Pilot description of Lobos Rocks would fit the actual appearance of Ventura Rocks much better, though not so accurately as the description given for Ventura Rocks fits the actual appearance of Lobos Rocks.

It is thought probable that some confusion between the two groups must have occurred in early reports.

Coast Pilot Notes covering the coast from San Francisco Bay entrance to Estero Bay are being prepared and will be forwarded as part of the season's records when completed.

G. C. Jones
G. C. Jones,
Lieut.-Comdr. C. & G. S.,
Commanding Ship GUIDE.

C 4c
1517

80-DRM

November 20, 1934.

To: Lieut. Comdr. G. C. Jones,
U. S. Coast and Geodetic Survey,
510 Customhouse,
San Francisco, California.

Through: Commanding Officer,
U. S. Coast and Geodetic Survey,
Ship GUIDE.

From: The Director,
U. S. Coast and Geodetic Survey.

Subject: Ventura Rocks, California.

Your topographic sheet, number T 4849, northward of Pt. Sur, shows the northern one of the Ventura Rocks (latitude $36^{\circ} 20'.6$ N.) as having an elevation of 12 feet and the southern one as being awash at M.H.H.W. The Coast Pilot describes this feature as "two high, prominent rocks, close together, about one-half mile offshore."

This matter is called to your attention for comment in order that the description in the Pilot may be changed to agree with the elevations as shown on your sheet.

(Signed) J. H. HAWLEY

Acting Director.

20 Jan 23, 1936
1919