

5499

U. S. COAST & GEODETIC SURVEY
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Form 504
Ed. June, 1928

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

State: California

DESCRIPTIVE REPORT

~~Topographic~~ } Sheet No. 106 5499
Hydrographic }

LOCALITY

Santa Barbara Channel

Sand Point to Santa Barbara

1933

CHIEF OF PARTY

C. K. Green

5499

U. S. COAST & GEODETIC SURVEY
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PARTY #10

Santa Barbara, Calif.

Hydrographic sheet No. 106, submitted herewith, has been inspected and approved by me, together with the data listed below.

List of data forwarded with Hydrographic Sheet No. 106

Title sheet
Descriptive Report
Statistic sheet
Tidal data



Chas. K. Green,
Chief of Party.

DEPARTMENT OF COMMERCE
U. S. COAST AND GEODETIC SURVEY

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REG. NO.
5499

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. 106

REGISTER NO. 5499

State California ✓

General locality Santa Barbara Channel ✓

Locality Sand Point - Santa Barbara ✓

Scale 1:10,000 ✓ Date of survey April - August, 1933 ✓

Vessel Chartered Launch VIRGINIA I

Chief of Party Chas. K. Green ✓

Surveyed by Chas. K. Green - N. R. Gindrat - H. T. Kelsh ✓

Protracted by F. W. Gavin - J. W. Parsons

Soundings penciled by F. W. Gavin

Soundings in fathoms /feet/ ✓

Plane of reference M.L.L.W.

Subdivision of wire dragged areas by

Inked by *W. Zerkind*

Verified by *W. Zerkind*

Instructions dated October 31, 1932

Remarks:

DESCRIPTIVE REPORT
to accompany
HYDROGRAPHIC SHEET FIELD NO. 106
CALIFORNIA COAST, SANTA BARBARA COUNTY

INSTRUCTIONS

October 31, 1932.

LIMITS AND SCALE

The sheet embraces the inshore hydrography from Carpinteria to Santa Barbara to a distance of about 2 miles offshore. It joins sheet 105 on the east, sheet 107 and 52 on the west, and overlaps sheet 5030 (1930) from 1 to 1-1/2 miles on the south. The scale is 1:10,000.

GENERAL DESCRIPTION

The coast is mountainous, there being in general a 3/4 mile belt of gradually sloping ground back to the steep slopes of the foothills. The shore is skirted by both the coast highway and the Southern Pacific Railroad. At longitude 119° 36' there are several short docks with oil derricks.

Carpinteria lies at the eastern extremity of the sheet, Santa Barbara at the western extremity. They are the only towns of any importance in this area. The Richfield steel tower (signal RICH) is a conspicuous object from offshore.

The ten fathom-curve averages from 3/4 to 1-1/4 miles offshore. The bottom is generally sand within the 12-fathom curve and mud in the deeper areas. Kelp is a characteristic of the coast and extends 1/2 to 1 mile seaward in places.

SURVEY METHODS

A few of the inshore lines were accomplished with a pulling boat, but the greater part of the area was done from the launch, with hand leads (12 pound) soundings to a depth of about 12 fathoms, and wire soundings in the deeper areas. Control was ample.

DISCREPANCIES

No discrepancies were experienced. The cross lines check well.

SHOALS

(a) In Longitude $119^{\circ} 32\frac{1}{2}'$, and 575 meters S. W. of triangulation BILL are several rocks a few meters apart that bare $1/2$ foot at zero tide. 250 meters southwesterky of these rocks is a sounding of $1-1/6$ fathoms rocky bottom. Position 27 & 83 P.

(b) In Longitude $119^{\circ} 33\frac{1}{2}'$ and 1760 meters southwest of signal PER is a shoal area 300 meters long with a least depth of $4-1/2$ fathoms, kelp, sand and rocky bottom. The surrounding depths are 6 to 7 fathoms.

DANGERS

There are no dangers outside of the 10-fathom curve.

ANCHORAGES

Vessels can anchor anywhere along the coast in normal weather, but there are no good protected anchorages except at Santa Barbara breakwater.

COMPARISONS WITH PREVIOUS SURVEYS

In general, the depth curves check reasonably well with previous surveys. On the eastern portion of the sheet the 3-fathom curve averages 100 meters inshore of that curve as shown on old work (Sheet Reg. No. 1040).

The shoal bottom area between the offshore rocks awash (longitude $119^{\circ} 32\frac{1}{2}'$) and the 6-fathom curve is now deeper than at the time of the old survey. The old survey shows the 3-fathom curve projecting 480 meters west by south of these rocks awash, while now the 3-fathom curve is only 350 meters out from the rocks.

GEOGRAPHIC NAMES

No new name were assigned.

CURRENTS

The prevailing currents is easterly as influenced by prevailing westerly winds.

Approved by

Submitted by

Chas. K. Green
Chas. K. Green,
Chief of Party #10

Chas. K. Green
Chas. K. Green

STATISTICS SHEET NO. L06

DATE 1933	LETTER	VOLUME	POSITIONS	SOUNDINGS	MILES STATUTE	VESSEL
April 19	A	1	23	46	3.8	VIRGINIA I
25	B	1	59	144	14.3	"
June 5	C	1	39	80	7.6	"
9	D	1	25	94	7.2	"
16	E	1	75	160	13.1	"
19	F	1	100	223	21.0	"
26	G	1 & 2	133	321	26.5	"
27	H	2	72	128	12.5	"
28	J	2	64	256	14.0	"
29	K	2	85	315	16.0	"
July 7	L	2	107	360	19.9	"
17	M	2 & 3	115	463	19.7	"
19	N	3	93	427	14.8	"
21	P	3	103	282	8.2	"
24	Q	3 & 4	117	378	18.5	"
29	R	4	41	64	8.0	"
31	S	4	50	185	9.7	"
August 17 1934	T	4	43	136	7.5	"
May 26	U	4	36	83	5.4	"
July 5	V	4	47	203	5.5	"
TOTALS			1,344	4,348	253.2	

M. Ellis

Rae

August 30, 1934

Division of Hydrography and Topography:

✓ Division of Charts:

Tide Reducers are approved in
4 volumes of sounding records for

HYDROGRAPHIC SHEET 5499

Locality Sand Point to Santa Barbara, Coast of California

Chief of Party: Chas. K. Green in 1933.

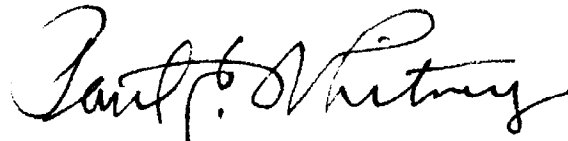
Plane of reference is mean lower low water reading

3.6 ft. on tide staff at Santa Barbara

16.6 ft. below B. M. 1

Height of mean higher high water above plane of reference
is 5.4 feet.

Condition of records satisfactory except as noted below:



Chief, Division of Tides and Currents

Field Records Section (Charts)

HYDROGRAPHIC SHEET No. .5499

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

Number of positions on sheet	.1344
Number of positions checked ²⁰
Number of positions revised ⁰
Number of soundings recorded	.4348
Number of soundings revised	... ¹³
Number of signals erroneously plotted or transferred ⁰

Date:.....^{9/27/34}.....

Cartographer:.....*C. M. Zeskind*.....

Verification of plotting
Verification & inking of rocks and shoals) by *C. M. Zeskind*

Verification of inking by *C. M. Zeskind*

Review by *Harold W. Murray*

Time: 5 hrs.
Time: 3 days 3 hrs.
Time: 7 hr.

Section of Field Records

Report on H. 5499.

The sounding records were neat, legible and complete. ✓

The protracting was well done. ✓

The field drafting was well done. ✓

plotting of
The depths conform to the Hydrographic Manual. ✓

No junctions were made on this sheet with adjoining sheets because the verification and inking of these sheets had not been completed. ✓

Submitted by - I. M. Zeskind,
Sept. 27, 1934.

Section of Field Records

REVIEW OF HYDROGRAPHIC SURVEY NO. 5499 (1933).

Instructions dated October 31, 1932 (C. K. Green).
Sand Point to Santa Barbara, Santa Barbara Channel, California.
Surveyed April to August 1933.

Hand Lead and Machine Soundings - 3 Point Control on Shore Signals.

Chief of Party - C. K. Green.
Surveyed by - C. K. Green; N. R. Gindrat; H. T. Kelsh.
Protracted by - F. W. Gavin; J. W. Parsons.
Soundings penciled by - F. W. Gavin.
Verified and inked by - I. M. Zeskind.

1. Condition of Records.

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

2. Compliance with Instructions for the Project.

The plans, character and extent of the survey satisfy the instructions for the project.

3. Sounding Line Crossings.

Sounding line crossings are satisfactory.

4. Depth Curves.

Within the limits of the survey the usual depth curves may be satisfactorily drawn including most of the 2 fathom curve and a portion of the 1 fathom curve.

5. Junction with Contemporary Surveys.

(a) The junction on the east with H. 5498 (1933), on the northwest with H. 5464 (1933) and southwest with H. 5502 (1933) will be considered when those sheets are reviewed.

(b) The junction on the south with H. 5030 and 5030a (1930) is satisfactory. There is an actual overlap of about $1\frac{1}{2}$ miles between the two surveys, which is not shown on either sheet, because of its large extent and because the greater portion of the 1930 work is tube soundings (15 to 50 fms.). Inasmuch as the present survey, H. 5499, (1933) is a complete development of the area common to the two sheets, it should supersede within its limits the work on H. 5030 and 5030a (1930) for charting purposes.

6. Comparison with Prior Surveys.

(a) H. 289 (1851). This is a track survey of reconnaissance value only and contains no information which will conflict with the new survey.

(b) H-1040 (1869) and H-311 (1852).

Soundings of these surveys are generally in good agreement with those of H-5499 (1933). Several shoal soundings in the vicinity of Lat. $34^{\circ}23'.5$, Long. $119^{\circ}32'.8$ were transferred to the new survey in red from the 1869 survey.

(c) H-1041 (1869).

Soundings of this survey are generally in good agreement with those of H-5499 (1933).

(d) H-1045 (1869).

The few soundings of this small scale survey which fall within the southern limits of the new survey are generally in good agreement.

(e) H-2252 (1896).

This small scale survey was made as a basis for control in a speed trial run by the vessel "OREGON". It contains no hydrographic information.

7. Comparisons with Charts Nos. 5202 and 5261.

Within the area of the present survey the above charts are based on surveys discussed in the foregoing paragraphs and contain no additional information that needs consideration in this review.

8. Field Plotting.

Field protracting and plotting of soundings were accurate and conform to the requirements of the Hydrographic Manual.

9. Additional Field Work Recommended.

This survey is complete and no additional work is necessary.


10. Superseding Previous Surveys.


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

H-289 (1851) In part
H-1040(1869) In part
H-1041(1869) In part
H-1045(1869) In part
H-5030(1930) In part
H-5030a(1930) In part
H-311 (1852) In part.


11. Reviewed by- Harold W. Murray. October 4, 1934.


Inspected by- A. L. Shalowitz.


K. T. Adams,
Chief, Section of Field Records


Chief, Section of Field Work.

Examined and approved:


Chief, Division of Charts.


Chief, Division of H. & T.

25 Jan 23, 1936
eng

Applied to drawing of Chart 5202 - Mar 1936 C.M.Z.

Completely applied to 5120 - 1/28/38 - NWB