

6117

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. 40-2
Hydrographic }

Southern LOCALITY California Coast
Off Oceanside

1935

CHIEF OF PARTY
O. W. Swainson

DEPARTMENT OF COMMERCE
U. S. COAST AND GEODETIC SURVEY

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REG. NO.
Acc. 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. 40-2 - 6117

REGISTER NO.

State California
General locality Southern California Coast
Locality Off Oceanside
Scale 1:40,000 Date of survey June 1923/35
Vessel Str. PIONEER
Chief of Party O. W. Swainson
Surveyed by O. W. Swainson, R. R. Moore.
Protracted by George A. Nelson
Soundings penciled by R. R. Moore
Soundings in fathoms ~~xxxx~~
Plane of reference M. L. L. W.
Subdivision of wire dragged areas by
Inked by
Verified by
Instructions dated June 23, 1934, 192
Remarks:

DESCRIPTIVE REPORT

TO ACCOMPANY HYDROGRAPHIC SHEET FIELD NO. 40-2.

AUTHORITY

This survey was made in accordance with instructions to the Commanding Officer of the Str. PIONEER for Project No. HT 187, dated June 23, 1934.

LOCALITY

The survey comprises a resurvey of the area off Oceanside, California, from Latitude $33^{\circ} 16'$ N. to $32^{\circ} 54'$ N. outside the 100 fathom curve and extending offshore to a line joining Latitude $33^{\circ} 12.4'$ N., Longitude $117^{\circ} 38.0'$ W.; and Latitude $32^{\circ} 53.0'$ N., Longitude $117^{\circ} 24.6'$ W.

The instructions also called for a complete investigation of the submarine valley in Latitude $33^{\circ} 07'$.

SURVEY METHODS

Standard methods were used for this survey. Soundings were obtained with the fathometer. A number of stops were made to obtain vertical wire soundings for comparison with the fathometer and also to obtain bottom characteristics and also temperatures. Sounding lines were controlled by three point fixes on triangulation, topographic, and hydrographic signals located ashore.

The submarine valley in Latitude $33^{\circ} 07'$ was completely investigated. Sounding lines were run both across the valley and also up the axis of the valley.

DISCREPANCIES

There are no discrepancies within the limits of this survey.

JUNCTIONS

This sheet makes a satisfactory junction with sheet No. 40-1 on the north and sheet 80-1 on the west. The inshore junction is with vertical cast work done on sheet register No. 4367. On the south the sheet makes a junction with sheet register No. 4266. *and 44368 (1924)*

COMPARISON WITH PREVIOUS SURVEYS

The soundings of the present survey compare very well with the vertical casts on sheet register No. 4367. The sonic soundings on the old survey are in general either about 20 fathoms too shoal or too deep.

The present survey makes a satisfactory junction with the soundings on sheet register no. 4266.

FATHOMETER CORRECTIONS


A list of the fathometer corrections used will be found attached inside the front cover of Volume No. 1.

TIDES

The tidal reducers used were computed from the tidal data for Los Angeles harbor.


Henry J. Healy,
Jr. H. & G. Engineer.

Approved and forwarded:


R. R. Moore,
H. & G. Engineer,
Commanding Ship PIONEER.

STATISTICS

| Date | Day | Volume | Statute Miles of Soundings | No. of Soundings | | No. of Positions |
|---------|-----|--------|-------------------------------|------------------|------|------------------|
| | | | | Fath. | Wire | |
| 6/13/35 | A | 1 | 79.0 | 371 | 1 | 97 |
| 6/14/35 | B | 1 | 89.3 | 535 | 3 | 105 |
| 6/17/35 | C | 1 | 46.0 | 234 | 1 | 57 |
| 6/18/35 | D | 1 & 2 | 103.0 | 1125 | 2 | 208 |
| 6/21/35 | E | 2 | 41.8 | 202 | 2 | 44 |
| 6/27/35 | F | 2 | 30.9 | 145 | - | 37 |
| Totals: | | | 390.0 | 2612 | 9 | 548 |

CHIEF OF PARTY'S REPORT OF INSPECTION

This sheet was protracted by Lieut. George A. Nelson. Soundings
were penciled in by myself. No further work is recommended. ✓

R. R. Moore

R. R. Moore,
H. & G. Engineer,
Chief of Party.

HYDROGRAPHIC SURVEY NO. H6117

Smooth Sheet Yes

Boat Sheet Yes - 1

Sounding Records Yes 2 Vols. _____

Descriptive Report Yes

Title Sheet Yes

List of Signals Yes

Landmarks for Charts (Form 567) No

Statistics Yes

Approved by Chief of Party ~~No~~ Yes

Recoverable Station Cards (Form 524) No

Special Chart for Lighthouse Service
(Circular Nov. 30, 1933) no floating aids

Remarks _____

Field Records Section (Charts)

HYDROGRAPHIC SHEET NO. **H6117**

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

| | |
|--|-------|
| Number of positions on sheet | 548 |
| Number of positions checked | 45 |
| Number of positions revised | none |
| Number of soundings recorded | 26 21 |
| Number of soundings revised | none |
| Number of signals erroneously plotted or transferred | none |

Date: Aug. 29, 1936

Verification by C. F. McKenney ----- Time: 34 hrs.
G. Pisegari -----
Review by R. J. Christman ----- Time: 7 1/2 hrs.

Remarks

Decisions

| 1 | "Oceanside" 9444. U.S.G.S. | |
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GEOGRAPHIC NAMES
 Survey No. **H6117**

On Chart No. **5101**
 On previous survey No. **T6227**
 On U. S. Maps
 From local information
 On local Maps
 P. O. Guide or Map
 Rand McNally Atlas
 U. S. Light List

| Name on Survey | A | B | C | D | E | F | G | H | K | |
|------------------|---|---|---|---|---|---|---|---|---|----|
| <u>Oceanside</u> | * | ✓ | ✓ | ✓ | | ✓ | ✓ | | | 1 |
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Names underlined in red approved
 by W.A. on 6/16/36

MEMORANDUM

IMMEDIATE ATTENTION

SURVEY
 DESCRIPTIVE REPORT
~~PHOTOSTAT OF~~

} No. H H6117
~~No. T~~

{ received MAY 12 1936
 registered JUN 1 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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RETURN TO

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| 82 | |
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C. K. Green

Ric

TIDE NOTE FOR HYDROGRAPHIC SHEET

June 5, 1936.

Division of Hydrography and Topography:

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

Tide Reducers are approved in
2 volumes of sounding records for

HYDROGRAPHIC SHEET 6117

Locality Off Oceanside, Southern California

Chief of Party: O. W. Swainson in 1935
Plane of reference is mean lower low water reading
3.6 ft. on tide staff at Los Angeles Harbor (Berth 60)
14.0 ft. below B.M. 8

Height of mean high water above plane of reference is 4.7 ft.

Condition of records satisfactory except as noted below:

Paul Schureman
Acting Chief, Division of Tides and Currents.

Verification
Report on H-6117 (1935)

1. The records are neat and legible and conform to the requirements of the Hydrographic Manual except that the degrees and minute symbols for the latitude and longitude figures were omitted. This ^{addition} was accomplished in the office. ✓

2. The usual depth curves can be satisfactorily completed. ✓

3. The field protracting and plotting were well done.

4. No revision of the field work was required. ✓

5. The junction with H-6116 (1935) on the north is satisfactory.

The junctions with H-4368 (1924), H-4367 (1924) and H-5663 (1934) on the east are satisfactory. H-4368 (1924) and H-4367 (1924) ^{contain} are sonic and wire soundings. Only the wire soundings have been considered in the overlapping as well as in the junction areas. The junctions with the 1924 surveys were requested in the Special Instructions dated June 23, 1934.

The junction with H-4266 (1922-23) on the south is satisfactory. This junction was requested in the Special Instructions dated June 23, 1934.

The junction with H-6118 (1935) and H-6119 (1935) on the west are satisfactory. ✓

6. No shoreline has been shown since this ~~survey~~ is an offshore survey.
7. Signal Barn, the only topo signal on the sheet, comes from T-4892 (1934). The hydrographic signals are from the present survey and are recorded in Sounding Volume No. 1.

Respectfully submitted,
E. Pisegari Aug. 29, 1936.

Section of Field Records

REVIEW OF HYDROGRAPHIC SURVEY NO. 6117 (1935) FIELD NO. 40-2

Off Oceanside, Southern California Coast, California
Surveyed in June 1935, Scale 1:40,000
Instructions dated June 23, 1934, (PIONEER)

Fathometer Soundings.

3 Point fixes on shore signals.

Chief of Party - O. W. Swainson.
Surveyed by - O. W. Swainson, R. R. Moore.
Protracted by - George A. Nelson.
Soundings penciled by - R. R. Moore.
Verified and inked by - G. Risegari.

1. Condition of Records.

The records are neat and legible and conform to the requirements of the Hydrographic Manual, except that the degree and minute symbols were omitted from the latitude and longitude lines of the projection. They have been added in the office.

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

2. Compliance with Instructions for the Project.

The plan and character of development are in accordance with the instructions for the project.

3. Shoreline and Signals.

This is an offshore survey and no shoreline is shown. The one topographic signal used during the survey comes from T-4892 (1934).

The hydrographic signals were located by sextant cuts recorded in Vol. 1 of the sounding records.

4. Sounding Line Crossings.

The agreement in depth at sounding line crossings is excellent varying no more than 1 to 2 fathoms in 300.

5. Depth Curves.

Within the area covered by the survey the usual depth curves may be satisfactorily drawn.

6. Junctions with Contemporary Surveys.

- a. The junctions with H-6116 (1935), H-6118 (1935) and H-6119 (1935) to the north and west are satisfactory.

- b. The junction with H-5663 (1934) to the east at the head of the marine valley, is satisfactory.
- c. The present survey is a resurvey of the area of sonic soundings on H-4367 (1924) and H-4368 (1924) and the work is carried eastward to a satisfactory junction with wire soundings on the same sheets. Vertical casts in the area of sonic soundings are in agreement with the present survey and have been transferred to H-6117 (1935) in red.
- d. The junction with H-4266 (1922-23) to the south is satisfactory.

7. Comparison with Prior Surveys.

a. H-289 (1851).

This survey on an approximate scale of 1:375,000, is a reconnaissance survey of which three no-bottom soundings fall within the area of the present survey. It need not be considered in future charting.

b. H-1905 (1889), H-1906 (1889).

These surveys on scale 1:20,000 show several widely spaced sounding lines extending into the area of the present survey. The agreement in depth is very good.

Because the present survey, although plotted on a smaller scale, shows a much closer development of the area, it should supersede the above surveys for charting purposes.

c. H-4367 (1924), H-4368 (1924).

These surveys on scale 1:20,000, cover the entire area of the present survey. The vertical casts and the wire soundings are in fair agreement with the soundings on the present survey but sonic depths vary from a close agreement to 30 fathoms shoaler or deeper. In the submarine valley (lat. 33°07', long. 117°22') only selected soundings were transferred to the present survey to avoid too great a congestion.

Because of the probable greater accuracy of the soundings on H-6117 (1935), the sonic soundings on the above surveys (underlined in red) should be superseded by the present survey for charting.

8. Comparison with Chart 5101 (New Print dated Mar. 28, 1936).

a. Hydrography.

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

b. Aids to Navigation.

No aids to navigation are charted within the area of the present survey.

9. Field Plotting.

The field plotting was very satisfactory.

10. Additional Field Work Recommended.

The survey is very satisfactory and no further work is required.

11. Superseding Old Surveys.


Within the area covered the present survey supersedes the following surveys for charting purposes:

| | | | |
|---------------|---------|------------------------|--|
| H-289 (1861) | in part | | |
| H-1905 (1889) | " " | | |
| H-1906 (1889) | " " | | |
| H-4367 (1924) | " " | (sonic soundings only) | |
| H-4368 (1924) | " " | (" " ") | |

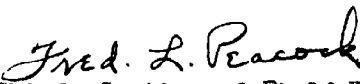
12. Reviewed by - R. J. Christman, Sept. 2, 1936.

Inspected by - A. L. Shalowitz.

Examined and approved:


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


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


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


G. Wade,
Chief, Division of H. & T.

Applied to Chart 5101- Mar 4, 1937- L.M.J.
Applied to chart 3360 Dec. 29, 1943 L.A.M.