

5512

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

DESCRIPTIVE REPORT

~~Hydrographic~~ Sheet No. 5512  
Hydrographic

State \_\_\_\_\_

LOCALITY

North Pacific Ocean

~~California to Hawaiian Islands~~

San Diego to Bering Sea

& Hawaiian Islands

193

~~Hydrographic Office~~  
By  
The Hydrographic Office

5512

Tide Records Section  
Verification Report <sup>no</sup> on H-5512 (1929-33)  
~~Hydrographic Sheet~~ <sup>no</sup> 5512 (1929-33)

This sheet is a black and white print of  
chart # 9000 - North Pacific Ocean  
San Diego to Bering Sea + Hawaiian Islands

The soundings in color are from the  
"Hydrographic Office List of Oceanic Depths of the  
North Pacific Ocean" - 1931 + 1933 editions.

H.O. 210a is listed as chart letter 491, 1932.  
H.O. 210c " " " " " " 544, 1934

The soundings are sonic soundings and  
uncorrected for temperature + salinity. The <sup>positions</sup> ~~positions~~  
were obtained by astronomical observations  
or from charted land marks.

Approximately 20% of the soundings  
were inked by Mr. I. Miller - soundings from  
H.O. 210a <sup>are</sup> shown in blue and from H.O. 210c in red.  
Soundings were selected to show general  
bottom slope, and critical depth or shoals.

This registered sheet is to be used only  
as a <sup>permanent</sup> reference sheet and soundings from  
future Hydrographic Office publications for this  
area are to be transferred to this sheet.

Check of soundings and plotting  
was verified + corrected by E.W. Smith

Respectfully submitted

November 8<sup>th</sup>, 1934

E. W. Smith

Field Records Section (Charts)

HYDROGRAPHIC SHEET NO. ~~5552~~ <sup>5512</sup>

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

Number of positions on sheet	.....
Number of positions checked	.....
Number of positions revised	.....
Number of soundings recorded	.....
Number of soundings revised	.....
Number of signals erroneously plotted or transferred	.....

Date: Nov. 8<sup>th</sup> 1934

Verification by *Elliott W. Smith* Time: 4 days - 3 hours

Review by *Harold W. Murray* Time: 10 hrs

Section of Field Records

REVIEW OF HYDROGRAPHIC SURVEY NO. 5512 (1929-33)

Northeastern Portion of Pacific Ocean

Sonic Soundings - Astronomic and Shore Control.

Surveyed by - U. S. S. RAMAPO (U. S. Navy).

Date of Survey - Oct. 1929 - Jan. 1931 and Feb. 1931 - Jan. 1933.

Soundings plotted by - I. Miller.

Soundings verified by - E. W. Smith.

A. Sources of Material.

Soundings shown on this survey are contained in two volumes:

H. O. Publications No. 210a, 1931 (filed as Chart Letter No. 491, 1932) and No. 210c, 1933 (filed as Chart Letter No. 544, 1934). The former volume has been plotted on this sheet (Chart No. 9000) in blue; the latter in red.

B. Character of Soundings.

All soundings shown on this survey are sonic soundings taken at an average interval of  $\frac{1}{2}$  hour or approximately 4 to 5 nautical miles apart. The velocity used was 1463 meters per second and the resultant soundings uncorrected for temperature and salinity.

C. Comparison with Previous Surveys.

Deep sea soundings previously obtained within the limits of the present survey are from the following sources and various other in-shore surveys:

C. and G. S. Chart No. S (Editions of 1892 and 1899)  
Chart Letter No. 206 (1914).  
H-5071 (1929).  
B.P. No. 23915 (H. O. Chart No. 527, 1931)  
H-5204 (Sheets: a, b, c, and d; 1932)

Agreement of soundings of the above surveys (compiled on this sheet in black) with the present survey is within 250 fms. or less. However, in a number of cases, differences of from 500 to 1000 fms. are noted. The larger differences were investigated to insure correct plotting from the various sources on file in this office. In this connection, it should be borne in mind that many of the differences are magnified by the small scale of the survey as for example the 1266 and 2247 fms. in approx. lat.  $38^{\circ}21'$ , long.  $123^{\circ}55'$  which when studied on the large scale inshore surveys is a very logical formation. However, no attempt was made to evaluate apparent discrepancies except in the case of our own surveys where original records are available.

D. Discrepancies.

The 183 fm. sounding (approx. lat.  $37^{\circ}34'$ , long.  $123^{\circ}35'$ ) originating with H-5014 (1929) is actually 1831 fms. In charting the note "FL", the figure "1" was inadvertently omitted. However, the sounding is correctly shown on the later printing of this Chart (No. 9000) and no further consideration is necessary.

E. Note to Compiler.

Attention is called to the following:

a. A portion of the work shown in blue on this sheet was applied to Chart 9000 from a preliminary report by the Hydrographic Office, (H.O. Chart No. 527, 1931) filed in this office as B.P. 23915. A number of the soundings as shown on the H.O. Chart were found to differ in position from the information as given in Chart Letter No. 491, 1932, which information is plotted on the present sheet. The latter should be used in future editions of the chart.

b. The work shown in red on the present sheet (H-5512) was applied to Chart 9000 prior to review. As a result several of the charted soundings differ in position from those shown on the present sheet. An example of these are the 2550, 2062, and 2533 fathom soundings in approximate lat.  $36^{\circ}05'$ , long.  $138^{\circ}10'$  to  $140^{\circ}25'$ , which were found to be out about 5 miles in latitude. The work as plotted on the present sheet should be used in future editions of the chart.

F. Reviewed by - Harold W. Murray, February 20, 1935.

Inspected by - A. L. Shalowitz.

Examined and Approved;

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

*J. S. Borden*  
Chief, Section of Field Work.

*R. C. Gold*  
Chief, Division of Charts.

*G. Thode*  
Chief, Division of H. & T..

25 Jan 13, 1936

~~2218~~

Applied to compilation of new chart No 5020 (plotted from the records, chart letters 4918, 1932 & 5449, 1934)

Applied to drawing ch 5052 - 9/9/40 P.B.C.

S. B. Maize, Dec 1937.

Applied to new drawing ch 4001 10/20/53 R.O.C.