

5404

U. S. COAST & GEODETIC SURVEY
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MAR 14 1934
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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

~~Cartographic~~ } Sheet No. S.D. 51/
Hydrographic }

LOCALITY

San Diego Bay.

San Diego Bay Entrance.

1934.

CHIEF OF PARTY

Robert W. Knox.

5404

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REPORT

to accompany

Sheet No. S. D. 51.

Scale 1:5,000

San Diego Bay Entrance,

California.

Date of Instructions: Telegraphic Instructions dated Jan. 17, 1934.

Survey Methods: A Navy motor sailer and the motor launch of the chartered launch "JOANNE" were used to do the sounding on this sheet. Standard Coast Survey methods were used.

Discrepancies: There are two discrepancies in depths noted on the sheet. The first is a difference of 5 feet in the soundings in the vicinity of Lat. $32^{\circ}-42'$ plus 281 meters, Long $117^{\circ}-15'$ plus 1193 meters. The other is a discrepancy of 3 feet in Lat. $32^{\circ}-42'$ plus 40 meters, Long. $117^{\circ}-13'$ plus 1305 meters. These differences occur on the first day of sounding and it is thought that they are due to the inexperience of a new boat crew.

edge of dredged area
No edge at this spot

Control: All control is from triangulation executed in 1933.

Signal B&L is a hydrographic location, located by sextant fixes on the object.

Plotting: Smooth plotting was done in the Long Beach office by civilian personnel under the supervision of the Chief of Party.

The sheet was review after completion by the undersigned.

John C. Mathison
John C. Mathison,
Jr. H. & G. W.

STATISTICS

San Diego Bay Entrance

Scale 1:5,000

Day	Date	No. Sdgs.	No. Pos.	Stat. Mi.	Boat used.
a	Jan. 22	159	57	1.5	M.S.
b	" 23	-	6	-	M.S.
c	Feb. 5	336	93	4.9	M.L.
Totals		495	156	6.4	

DEPARTMENT OF COMMERCE
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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. S.D. 51

REGISTER NO. 5404

State CALIFORNIA
General locality SAN DIEGO BAY, CALIFORNIA
Locality SAN DIEGO BAY ENTRANCE *Curve*
Scale 1: 5,000 Date of survey Jan - Feb., 19 34
Vessel U.S. Navy motor sailer and hired motor launch "JOANNE"
Chief of Party Robert W. Knox
Surveyed by R. J. Sipe
Protracted by D. L. Ackland
Soundings penciled by D. L. Ackland
Soundings in ~~fathoms~~ feet
Plane of reference M.L.L.W. on staff at La Playa, Calif.
Subdivision of wire dragged areas by _____
Inked by _____
Verified by _____
Instructions dated Jan. 17 (telegraphic), 19 34
Remarks: _____

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Division of Hydrography and Topography:

March 14, 1934

✓ Division of Charts:

Tide Reducers are approved in
1 volume# of sounding records for

HYDROGRAPHIC SHEET 5404

Locality San Diego Bay Entrance, Calif.

Chief of Party: Robert W. Knox in 1934

Plane of reference is mean lower low water, reading

1.7 ft. on tide staff at La Playa

9.5 ft. below B. M. 9

Height of mean higher high water above plane of reference is 5.7 feet.

Condition of records satisfactory except as noted below:

Hammanna

Acting Chief, Division of Tides and Currents

Field Record Section Mar 16, 1934

Report on A 5404

Chief of Party: Robt. W. Knox

Surveyed by: R. J. Sipe

Protracted by: G. A. Ackland

Soundings penciled by: G. A. Ackland

Verified & Inked by: J. J. Zerkow

The sounding records were neat, legible & complete.

The protracting in general was good.

The soundings in some instances were not correctly plotted due to time and amount allowance was not made for turns at end of lines.

The day letters are ^{blue} ~~red~~ in the sounding record & red on the smooth sheet. This was corrected.

The field drafting in general was good.

Respectfully submitted,

J. J. Zerkow

SECTION OF FIELD RECORDS
Review of Hydrographic Sheet No. 5404
San Diego Entrance, San Diego Bay, California.
Surveyed Jan. - Feb. 1934.
Instructions telegraphic dated Jan. 17, 1934 (Knox).

Chief of Party - R. W. Knox.
Surveyed by - R. J. Sipe.
Protracted and soundings plotted by - D. L. Ackland.
Verified and inked by - I. M. Zeskind.

1. Records conform to the requirements of the Hydrographic Manual.
2. The plan and extent of development conform to the regulations and satisfy the specific instructions.
3. Soundings are consistent and depth at crossings of lines in good agreement, generally less than 1 foot of difference.
4. Depth curves. The 30 foot curve is well developed and sections of the 18 foot curve are shown.
5. Junctions. This is a special investigation and no contemporary surveys adjoin it. H. 4268 (1923) is the basic survey for this area.
6. Comparison. B. P. 21379 shows the eastern edge of the channel as widened by dredging, August 1927. The present survey shows that the 30 foot curve has moved westward about 65 meters in the vicinity of the lighted buoy 8B. The position of the buoy has been changed since the survey, the former location is shown on the sheet.


B. P. 27230 is an advance copy of this survey (H. 5404) apparently traced from the boat sheet. There are a number of errors in tracing depth values as well as quite a number of soundings that differ by only 1 or 2 feet.

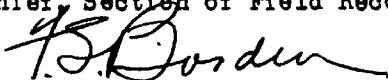
Chart 5107 shows the conditions that existed immediately after the dredging in 1927.

7. Field drafting in general was good, but more care should have been exercised in the penciling of the soundings both as to spacing and values.
8. Recommendation. This sheet (H. 5404) should supersede all previous information for charting the area represented by it.

Resurveys at stated intervals to determine the extent and progress of the shoaling in this vicinity are desirable.


9. Reviewed by - R. J. Christman - March 19, 1934.


L. O. Colbert,
Chief, Section of Field Records.


Chief, Section of Field Work.

Examined and approved:


Chief, Division of Charts.


Chief, Division of H. & T.

25 Jun 24, 1936
EAP