

4783

Diag. Cht. No. 5101-2

Form 504	
DEPARTMENT OF COMMERCE	
U. S. COAST AND GEODETIC SURVEY	
E. Lester Jones, Director	
State: California	
APR 27 1928	
No. No.	
DESCRIPTIVE REPORT	
Hydrographic Hydrographic	Sheet No. 1 4783
LOCALITY	
San Diego - Offshore	
COAST OF SOUTHERN CALIFORNIA	
SOUTH OF SAN CLEMENTE ISLAND.	
1928	
CHIEF OF PARTY:	
F. G. Engle	

GOVERNMENT PRINTING OFFICE

6-81. 1v

4783

DESCRIPTIVE REPORT

T O A C C O M P A N Y

HYDROGRAPHIC SHEET FIELD NO. 1 - - - - - SCALE, 1:80,000

COAST OF SOUTHERN CALIFORNIA - - SOUTH OF SAN CLEMENTE ISLAND.


This work was done in accordance with Par., 5(d) and (e) and 8(b) of Director's Instructions of December 16, 1927.

The soundings are by Fathometer and were corrected by means of temperature and comparison curves filed with Sheet No. 4560.

The dead reckoning was plotted between Pos., 36 and 49(a) using the ship swing of Jan., 26th., for deviations and a log factor of .997 as obtained from a log test on the ~~Port~~ Vicente mile course and long runs between various points.

A straight time adjustment was made. To supplement the work in the area lines were transferred from Sheet 4265a and 4366.

Respectfully submitted,


F. G. Engle,
H. & G. Engineer,
Chief of Party.

STATISTICS FOR FIELD SHEET NO. 1

COAST OF SOUTHERN CALIFORNIA - - SOUTH OF SAN CLEMENTE ISLAND.

<u>Date 1928</u>	<u>: Letter</u>	<u>: Volume</u>	<u>: Position</u>	<u>: Soundings</u>	<u>: Miles(st.)</u>	<u>: Vessel</u>
Feb. 28	: A	: 1	: 51	: 360	: 54.1	: Ship
			Total ---	51	: 360	: 54.1

Copy for Section of Field Records files.

May 26, 1928.

(11)

Division of Hydrography and Topography:

Division of Charts:

Tide reducers are approved in
1 volumes of sounding records for

HYDROGRAPHIC SHEET 4783

Locality:

SOUTHERN CALIFORNIA.

Chief of Party:

Plane of reference F. S. Engle, 1928.

3.5 ft. on tide staff at M. L. L. W.
Los Angeles Harbor.

Condition of records satisfactory except as checked below:

1. Locality and sublocality of survey omitted.
2. Month and day of month omitted.
3. Time meridian not given at beginning of day's work.
4. Time (whether A.M. or P.M.) not given at beginning of day's work.
5. Soundings (whether in feet or fathoms) not clearly shown in record.
6. Leadline correction entered in wrong column.
7. Field reductions entered in "Office" column.
8. Location of tide gauge not given at beginning of each day's work.
9. Leadline corrections not clearly stated.
10. Kind of sounding tube used not stated.
11. Sounding tube No. entered in column of "Soundings" instead of "Remarks".
12. Legibility of record could be improved.
13. Remarks.

G. W. Rude

Chief, Division of Tides and Currents.

Section 7 Field Record

Report on sheet # H-4783
Chief of Party - F. G. Engle
Projected by J. B. Reed
Verified and noted by F. G. Engle

Surveyed in 1928
Surveyed by F. G. Engle
Soundings plotted by J. B. Reed

1. The soundings records were neat and complete except that a few references were given to the dead reckoning log contained in the additional work.
2. The plotting was very accurate. Two positions (37A & 38A), were plotted by dead reckoning data and had also fair fixes. The two methods of plotting did not agree. As per Capt. Kellin and Mr. Skatowitz's decision the dead reckoning was accepted. Thirty per cent of the positions were checked. Twenty-four per cent of the positions were plotted by dead reckoning.
3. The plotting of the soundings was good. Only three per cent were erroneously spaced.
4. The sheet was clean and legible.
5. The drafting conformed to the General Instructions with the following exceptions: the projection lines were shown every four minutes instead of every five; there were no depth curves sketched; the shore line along the western side of the island was not drawn from immediately beyond a SEAL to beyond © ERIGGS.

Respectfully submitted

Frank G. Engle

DEPARTMENT OF COMMERCE
U. S. COAST AND GEODETIC SURVEY

WASHINGTON

August 10, 1928.

SECTION OF FIELD RECORDS

Report on Hydrographic Sheet No. 4783

South of San Clemente Island, California

Surveyed in 1928

Instructions dated December 16, 1927 (DISCOVERER)

Fathometer Soundings

Chief of Party, F. G. Engle.

Surveyed by F. G. E.

Protracted and soundings plotted by T. B. Reed.

Verified and inked by F. G. Erskine.

1. The purpose of this survey was to examine a 31 fathom sounding (from H. 1429) in lat. $32^{\circ} 46'$, long. $118^{\circ} 24'$, that had indications of possible shoaler water existing and also to fill in a 15 mile gap between H. 4549a and H. 4366.

The area surrounding the 31 fathom sounding was fully developed and 28 fathoms was the least depth found. This work was controlled entirely by 3-point fixes.

The gap between the two above mentioned sheets was taken care of by lines on this sheet (H. 4783) and by lines on H. 4366 and H. 4265a. These latter lines have not yet been verified. They are shown in pencil at present on H. 4783 but will ultimately be inked in, in order that all the additional work done to fill in the gap will be shown on one sheet.

2. The records conform to the General Instructions.
3. The work conforms to the general and specific instructions.
4. The usual field plotting was done by the field party. All the work based on 3-point fixes was verified. The plotting and adjustment of the dead reckoning work was accepted as plotted by the field party. Although 3-point fixes were obtained at positions 37 and 38 A, the dead reckoning departure was taken from 36 A as this was a more rigid fix. The customary check was given to the soundings.

5. The junction of this work with H. 4549a is very satisfactory. The 193 and 198 fathom soundings from H. 4549a in lat. 39° 42', long. 118° 22 1/2' were not picked up by the fathometer line which plots between the two soundings. This, however, is not conclusive of their non-existence since it can be demonstrated that the line does not pass close enough to either sounding for the fathometer to have been affected, since the distance from the ship to either sounding is greater than the distance from the ship to the bottom directly below. It is therefore recommended that these shoal soundings on H. 4549a be retained.

The junctions with the other sheets will be considered when all the work in this area is verified.

6. No additional work is required.
7. Reviewed by A. L. Shalowitz, August, 1928.

Approved:

Chief, Section of Field Records (Charts)

Chief, Section of Field Work (H. & T.)

FIELD RECORD SECTION (CHARTS)

HYDROGRAPHIC SHEET NO. 4783

THE FOLLOWING STATISTICS WILL BE SUBMITTED WITH THE
CARTOGRAPHER'S REPORT ON THE SHEET:

NUMBER OF POSITIONS ON SHEET	51
NUMBER OF POSITIONS CHECKED	18
NUMBER OF POSITIONS REVISED	0
NUMBER OF SOUNDINGS RECORDED	360
NUMBER OF SOUNDINGS REVISED	10
NUMBER OF SIGNALS ERRONEOUSLY PLOTTED OR TRANSFERRED	
PORTION OF SHORE LINE TRANSFERRED FROM TOPOGRAPHIC SHEET.	

DATE AUG. 3, 1928

CARTOGRAPHER *Frank G. Kirklin*

DEPARTMENT OF COMMERCE
U. S. COAST AND GEODETIC SURVEY

REG. NO. 4783

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. 1

REGISTER NO. 4783

State California

General locality Southern Coast San Diego - Off shore

Locality South of San Clemente Island.

Scale 1-80,000 Date of survey February 28, 1928

Vessel DISCOVERER

Chief of Party F. G. Engle

Surveyed by F. G. E.

Protracted by T. B. Reed

Soundings penciled by T.B.R.

Soundings in fathoms ~~xxxxx~~

Plane of reference MLLW

Subdivision of wire dragged areas by

Inked by F.G. Erskine

Verified by F.G.E.

Instructions dated Dec., 16, 1927

Remarks: