4561

DEPARTMENT OF COMMERCE U.S. COAST AND GEODETIC SURVEY

State: Galifornia

DESCRIPTIVE REPORT.

Myser was Sheet No. 4561

LOCALITY:

Southern Coast

Southwest of San Clemente

Island ~ Offshore

1926

T.J.Maher





Division of Hydrography and Topography:

Division of Charts:

Tide reducers are approved in 2 volumes of sounding records for

HYDROGRAPHIC SHEET NO. 4561

Locality:

COAST OF SOUTHERN CALIFORNIA

Chief of Party:

T. J. Maher in 1926.

Plane of reference is ft. on tide staff at

Reducers less than 1% of depth and therefore not used.

For reduction of soundings, 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.

Chief. Division of Tides and Currents.

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U. S..COAST AND GEODETIC SURVEY Col. E. Lester Jones, Director

DESCRIPTIVE REPORT TO ACCOMPANY HYDROGRAPHIC SHEET NO.

AREA WEST OF TANNER BANK, CALIFORNIA

Surveyed March 26-27, 1926.

Str. GUIDE 1926 Thos. J. Maher Chief of Party, Commanding. DESCRIPTIVE REPORT TO ACCOMPANY HYDROGRAPHIC SHEET NO.

SURVEYED MARCH 26th AND 27th, 1926.

Authority:

Director's orders dated November 21, 1924, and instructions of January 12, 1924.

Limits:

The work comprises two lines, one of which extends from latitude 32° 25°, longitude 119° 25°, in a southwesterly direction to latitude 31° 52°, longitude 119° 52°; thence northwesterly to latitude 32° 34; longitude 120° 14°. The second extends from latitude 32° 27°, longitude 120° 04°, to latitude 31° 56°, longitude 119° 52°; and then a development of the area from latitude 32° 00° to 32° 14°, and from longitude 119° 40° to 119° 55°.

Purpose:

The object in running these two additional days was to investigate the reported 50 to 90 fathom bank between latitudes 32° 01' and 32° 10', and between longitudes 119° 42' and 119° 48', and shown on chart No. 5002. No indication of such a bank was found.

Control:

Little control was available for this area. A few distances were received from shore stations but only two on each day { all from San Nicholas) were usable. The others are obviously incorrect. (See notes in record on p. 26.) The starting point of A day was taken as the run

from hydrographic signal "Black" (buoy on Tanner Bank.) For the rest, sun and star sights and adjustment to secure agreement of soundings must suffice.

Detailed Explanation of Adjustment:

"A" Day. - As stated above, the start of "A" day was located by the run from hydrographic signal "Black". A single bomb distance from San Nicholas was obtained on position 11-A. Two sun sights were taken between positions 22-A and 23-A. A meridian altitude was taken on position 26-A. Sun sights were again taken between positions 42-A and 43-A, and positions 49-A and 50-A; and an altitude on the moon between positions 66-A and 67-A. Five star sights were taken at position 70-A, including a latitude on Polaris; and five star sights again on position 76-A, these also including Polaris.

The first adjustment accepted the bomb distance at position 72-A and the approximate mean of the star sights at position 77-A. Further examination, however, indicated that a much better agreement of crossings, also of the various sights along the line would be secured by accepting the bomb distance on position 76-A and the approximate mean of the star sights on position 70-A. The latter adjustment is further justified by the fact that the average time of the star sights at 77-A is nearly two hours later than the time of stopping, and the westerly breeze blowing at the time could have caused considerable drift to eastward which would reconcile the two sets of star sights.

Accordingly the line was adjusted by using hydrographic station "Black" as the starting point and the, at first, accepted position of position 77-A asthe finish, and evenly distributing the error, except that position 11-A was made to fall on the distance arc from San Nicholas,

which required that its proportionate correction be decreased about 0.15 mi. Following that adjustment the line was swung in azimuth from position 32-A to use the accepted position of position 70-A and the distance arc on position 76-A as shown in the record on p. 26.

"B" Day. - On "B" day two bomb distances from San Nicholas were secured near the beginning of the line and sun sights on positions 13, 16, 21, 24 (three including meridian altitude), 35, 40, 45 and 52. By swinging the portion of the line from position 4-B to position 24-B about 3° in azimuth and plotting the balance by dead reckoning, taking into account the deviation of the wheelhouse compass by ship swing of Feb. 5, 1926, all of the above information is reconciled, none of the sun sights except at position 13-B and one of the three (marked doubtful by observer) at position 24-B being over one mile out. The arcs at positions 4-B and 6-B are accepted as correct.

The crossings between "A" and "B" days with the above adjustment are only fair, but with the "Hydrographic Sheet of the Area West of San Clemente Island, 1925" the crossings are as good as may be expected.

Respectfully submitted,

H. & C. Engineer

Approved and forwarded:

Thos. J. Maher, Commanding Officer.

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STATISTICS

SUPPLEMENTAL HYDROGRAPHIC SHEET FOR AREA WEST OF TANNER BANK.

Date. 1926	Letter	Vol.	Pos.	Soun Sonie	dings Wire	Stat. Miles	Vessel.
Mar. 26	11 <u>A</u> 11	1	77	183	1	128.7	"GUIDE"
War. 27	пВи	1	84	216	2	119.2	tŧ
TOTALS	; -	1	161	399	3	247.9	-

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Statem of tunes from James Bouch where.

Rends - 12d. Downseings

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Apriaher.

ADDRESS THE DIRECTOR U. S. COAST AND GEODETIC SURVEY

AND REFER TO NO.

DEPARTMENT OF COMMERCE U. S. COAST AND GEODETIC SURVEY WASHINGTON

December 21, 1926.

REPORT ON VERIFICATION OF HYDROGRAPHIC SHEET No. 4561

As this sheet was practically all dead reckoning the positions were accepted as plotted.

The sounding records is complete.

The drafting conforms to the general instructions.

H. R. Edmonston.

Hillmonston

IN REPLY ADDRESS THE DIRECTOR
U. S. COAST AND GEODETIC SURVEY
AND NOT THE SIGNER OF THIS LETTER

AND REFER TO NO. 11-DRM

DEPARTMENT OF COMMERCE

U. S. COAST AND GEODETIC SURVEY

WASHINGTON

January 18, 1927.

SECTION OF FIELD RECORDS

Report on Hydrographic Sheet No. 4561

Southwest of San Clemente Island - Offshore

Surveyed in 1926.

Instructions dated January 12, 1924

Chief of Party, T. J. Maher.

Surveyed by T. J. M., E. H. Bernstein, I. Rittenberg.

Protracted and soundings plotted by G. C. Jones.

Verified and inked by H. R. Edmonston.

- 1. The records conform to the requirements of the General Instructions.
- 2. The plan and character of development satisfy the General Instructions.
- 3. The plan and extent of development satisfy the specific instructions.
- 4. The sounding line crossings are good.
- 5. The usual field plotting was completed to the extent prescribed in the General Instructions. The field adjustment of the lines was accepted by the office cartographer without verification. The customary check, however, was given to the soundings.
- 6. The junction with H. 45498 will be taken up in the review for that sheet. A good portion of the work on this sheet is covered by the work on H. 45498.
- 7. No additional work is necessary for the purpose of disproving the 50 fathom bank reported between latitudes 32° 02' and 32° 09' and in longitude 119° 45'. This report was made by the Dutch Cruiser ZEELAND in 1917 (See letter 312, 1917). A careful study was made

of the work on this sheet and the work on H. 45498 together with the soundings taken in this vicinity by the HULL and COREY in 1922. None of the surveys disclosed any such bank in this locality and it is recommended that it be removed from the charts. for confined that

See sect of H.o. Chart 1006 attached to Letter 205-1129 of this.

A-Lis (4-1-29)

- Character and scope of field operations excellent. Field drafting - excellent.
- Reviewed by A. L. Shalowitz, January, 1927. 9.

Approved:

Chief, Section of Field Records (Charts)

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

DEPARTMENT OF COMMERCE

U. S. COAST AND GEODETIC SURVEY

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.

	REGISTER NO.	4561
State California	·	
General locality	outhern California Coa	st
South Locality	west West of San Cl	emente Island~Offshore
Scale 1:140,000 Date	of survey	March 26-27, 1926.
Vessel Str. "	GUIDE"	
Chief of Party Lieu		
Surveyed by T. J. Plotted	. Maher, E. H.	Bernstein, I. Rittenberg
Probracosa by G. C	. Jones	•••••
Soundings penciled by	G. C. Jones	·
Soundings in fathoms	ficaci dex	
Plane of reference	Not reduced.	
Subdivision of wire drag	gged areas by	
Inked by		•••••
Verified by		
Instructions dated J	an. 12, 1924,	and orders of Nov. 131, 1924.
Remarks: One (1) volum	e Soundings	
		ights. (Registered as Vol.2-Sdgs