

# 4810

Diag. Cht. No 5101-2 & 5102-2

# 4810

Form 504  
DEPARTMENT OF COMMERCE  
U. S. COAST AND GEODETIC SURVEY  
....., Director

U. S. COAST AND GEODETIC SURVEY  
L. & S.  
NOV 13 1928  
Acc. No.

State: California

DESCRIPTIVE REPORT

~~Topographic~~ } Sheet No. <sup>2</sup> 4810  
Hydrographic }

LOCALITY

San Diego

Pt. Loma to Pt. Jolla

1928

CHIEF OF PARTY

C.M. Durgin

GOVERNMENT PRINTING OFFICE

5-120

1813

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DESCRIPTIVE REPORT

to accompany

Hydrographic Sheet 2

Pt. Loma to Pt. La Jolla , Ca;ifornia.

Casper M. Durgin , Chief of Party.

Descriptive Report to Accompany

Hydrographic Sheet 2

Point Loma to Pt. La Jolla , California.

Instructions dated July 20 , 1928.

Survey methods. The launch Scripps was used to sound along the edge of the kelp to determine its limits. The inshore limits of the kelp from Pt. Loma to Lat. 32-44 was not completed because the Scripps Institution did not want to risk the Scripps in there. A skiff was the only boat available and this was not practicable because it was desired to put the Scripps in San Diego Bay for preparations for its regular work. Enough of the limits of the kelp was determined for use on Chart 5107.

Rock P.D. The rock marked P.D. on chart 5107 in Lat. 32-39.6 . Long. 117- 14.9 was not found. The sounding of 26 feet shown 230 meters WSW of the rock P.D. was not found . A larger area would have been covered in the search if time had permitted. The Scripps was not available for this search and a skiff was used. The spot where this rock is supposed to be is in the center of what is locally known as Santa Rosa Channel because it was used by the "Santa Rosa". There is scattered kelp all through it and this kelp would be thick except for the fact that propellers of fish boats and launches keep the kelp chopped up and the channel fairly clear. This channel is used extensively by fisherman and launches going to the fishing barge which is anchored just off the outer edge of the kelp in approximately Lat. 52 - 39.2 and Long. 117 - 15.6. Two days were spent along the waterfront of San Diego interviewing the harbormaster , officials and captains of the Star and Crescent Co., and fishermen. No one with whom I talked has ever seen a rock in that locality. Fishermen who have fished 30 years off Pt. Loma said that they have been out when there was such a heavy sea that it was breaking from the end of the jetty to Pt. Loma but there was no sign of a rock out side of that line. They have fished all over the area with bass nets and have only hung up on Hope Rock.

Comparison with previous surveys. The limits of the kelp around Pt. Loma agree very closely with those shown on Hydrographic sheet 4258 although the two isolated patches shown on that sheet south of the main kelp patch could not be found.

Recommendations. Inshore hydrography from the outer limits of the kelp between Pt. La Jolla to Pt. Loma is not recommended because I found no one who was interested in it. Fishermen run inside the kelp all the way but say that they do not use the charts anyway and know there are no dangers.

*Casper M. Durgin*  
Casper M. Durgin.

Statistics  
for  
Hydrographic Sheet # 2

Date 1928	Letter	Positions	Soundings	Miles	Boat
Sept. 7	a	61	71	7.4	Scripps
11	b	91	122	15.3	Scripps
12	c	13	13	3.8	Scripps
12	a	37	237	5.6	skiff
13	d	10	10	2.8	Scripps
13	b	<u>43</u>	<u>224</u>	<u>4.2</u>	skiff
		255	677	39.1	

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DESCRIPTIVE REPORT

to accompany

Topographic Sheet 2

*Not registered as a Top. Sheet but marked "To accompany H. 4810*

Pt. Loma to Pt. La Jolla , California.

Casper M. Durgin , Chief of Party.

Descriptive Report to Accompany

Topographic Sheet B

Instructions dated July 20 , 1928.

The following changes have been shown on this sheet.

1 Just north of Pt. Medanos , piling from an old pier remain and are shown.

2 Crystal Pier has been added. This consists mostly of a large dance hall. The piling of this although about 2 years old have been attacked by teredoos to such an extent that the pier was considered unsafe and closed about the 1st of September 1928. A lawsuit is now pending against the company which creosoted the piling used in the pier and it is not known at present what will be done. It is very probable that the dance hall will be moved ashore or to a new pier.

3 A change has been made in the topography as given on topographic sheet #4009 . That sheet showed the highway as going straight from Mission Beach to Turquoise St. which is marked " highway " on sheet #4009. This street or highway which corresponds to what is now called Allison St. is not now existent all the way as shown on 4009 but will be within a few months as work is now in progress on it. Traffic now must use Cass St. , jogging east from Allison at Pacific Ave .and north on Cass to Turquoise St. Some of the street intersections are shown in order that explanation and comparison may be facilitated.

4 The spur of the Santa Fe R.R. which is shown on chart 5102 as beginning at a point on the main line just south of Atwood and running along the south side of the town of Pacific Beach to the ocean has been taken up.

The section along the coast covered by this sheet has been built up and developed to a very great extent in the last few years. Blue line prints obtained from the City Engineer of San Diego are being forwarded. The streets were all examined in the field and those now in existence are marked. Those not marked are only projected.

Landmarks. The largest dome of the Fun House at the Amusement Park at Mission Beach is a very prominent object and has been located. This should be useful for navigation.

Names. False Bay is commonly called " Mission Bay " by local people especially real estate people. (See descriptive report for topographic sheet A in regard to Mission Bay.)

*Casper M. Durgin*  
Casper M. Durgin.

Plane Table Positions.

	Latitude			Longitude		
Presbyterian Church Spire.	32	50	1134m	117	16	917m
Southern of two tanks Standard Oil Co.	32	48	1574m	117	16	146m
Largest Dome , Fun House	32	46	323m	117	15	95m
Derrick (oil derrick)	32	.45	621m	117	13	1058m

DEPARTMENT OF COMMERCE

U. S. COAST AND GEODETIC SURVEY

LANDMARKS FOR CHARTS

San Francisco, California.

October 31, 1928

SUPERINTENDENT, U. S. COAST AND GEODETIC SURVEY:

The following determined objects are prominent, can be readily distinguished from seaward from the description given below, and should be charted:

Casper M. Durgin.

H.4810

Chief of Party.

Table with columns: DESCRIPTION, POSITION (Latitude, Longitude, Datum), Method of determination, Charts affected. Row 1: Dome, 32 46 323, 117 15 95, N.A., Topo., 5102.

A list of objects which are of sufficient prominence for use on the charts, together with a description of the same, must be furnished in a special report on this form, and a copy of such report must be attached by the Chief of Party to his descriptive report. The selection, determination, and description of these points are of primary importance.

The description of each object should be short, but such as will identify it; for example, standpipe, water tower, church spire, tank, tall stack, red chimney, radio mast, etc. Generally, flagstaves and like objects are not sufficiently permanent to chart.



E.A.L.

Copy for Section of Field Records files.

November 20, 1928.

Division of Hydrography and Topography:

Division of Charts: ✓

Tide reducers are approved in  
2 volumes of sounding records for

HYDROGRAPHIC SHEET 4810

Locality: LA JOLLA - PT. LOMA, CALIFORNIA.

Chief of Party: G. M. Burgin in 1928.

Plane of reference is Mean lower low water, which is  
ft. on tide staff at

26.5 feet below B.M.1. (U.S.C. & G.S. standard disk at Scripps Institution)

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. **Reduced soundings have neither been checked for this sheet nor for H. S. 4809.**

*Paul Whitney*  
Chief, Division of Tides and Currents.

MARCH 30-1929.

SECTION OF FIELD RECORDS

REPORT ON HYDROGRAPHIC SHEET NO 4810

PT. LOMA TO PT. LA JOLLA - CALIFORNIA.

SURVEYED IN 1928. ■ -

CHIEF OF PARTY ----- CASPER M DURGIN  
SURVEYED BY ----- " " "  
PROTECTED & SOUNDINGS BY ----- " " "  
VERIFIED & INKED BY ----- W. H. BAMFORD.

- (1.) The records were found to conform to the requirements of the General Instructions.
- (2.) The plan and character of development fulfill the requirements of the General Instructions.
- (3.) There are a few disagreements in line crossings as usual though - the shaller sounding was inked and the other omitted. The differences usually being only one foot.
- (4.) The usual depth curves can not be drawn as the development is not sufficient except the well developed shoal approximately located in latitude  $32^{\circ} 39' 30''$  and longitude  $117^{\circ} 15'$ . In this case only the thirty foot curve could be drawn.
- (5.) The field plotting was completed to the extent prescribed in the general instructions.
- (6.) The field plotting was very good and very little of the work was poor enough to justify being over, with the exception of the bottom characteristics being entirely left off the sheet.

- (7.) The only hydrographic signal checked, was the signal "TOWER" - This being the only one to which cuts were taken by the field party. The cut from position 206 <sup>(red)</sup> TOWER FUN was rather poor and was not used.
- (8.) The sheet was very clean - and the work legible.
- (9.) Information concerning help - in the descriptive report - should be considered in correcting charts.
- (10.) The reason for the large number of positions checked was due to the extremely congested area. In this area the work was so small and congested that practically every position necessitated checking.

Respectfully Submitted  
Warren H. Rawford.

Section of Field Records  
Report on Hyd. Sheet No 4810  
Point Loma to Pt. La Jolla, California  
Surveyed in 1928.

Instructions dated July 20, 1928 (Lieut. C.M. Durgin)

Chief of party - C. M. Durgin

Surveyed by - C. M. Durgin

Protracted and plotted by - C. M. Durgin

Verified and inked by - W. H. Bamford

1. The records conform to the requirements.
2. The plan and character of development conform to the requirements of the General Instructions.
3. The plan and extent of the survey satisfies the specific instructions.

4. There are no cross lines except in the examination S. Pt. of Pt. Loma L. H.

5. The information is not sufficient for drawing the usual depth curves, as the lines from Pt. La Jolla to Pt. Loma are only reconnaissance.

6. The junction at Pt. La Jolla with H. 4809 is satisfactory.

7. The usual amount of field plotting was very well done except that bottom characteristics were not plotted.

8. No indication of the rock marked P. D. on chart 5107 in Lat  $32^{\circ}-39.6'$ , Long.  $117^{\circ}-14.9'$ , was found. This rock was placed on the chart by authority of Letter No 643 of 1902. Its removal from the chart is recommended. See statement by Lieut. C. M. Durgin in this descriptive report and also statement

Also recommended by A. M. S.

by Lieut. F. H. Crosby in the sounding records of H. 2185, at pos 19 (red) D, which reads "That all pilots agree that there is no rock in this vicinity."

The removal from the chart of the 26 foot sounding, 230 meters N. S. W. of the P. D. rock, is also recommended. See note at pos 19 (red) D in the records of H. 2185, which reads "It seems probable that when the 5 fm. sounding was given, the lead had lodged in kelp." A further examination of the spot failed to show any shoal indication and the work on this sheet also discredits this sounding.

When placing the limits of kelp on the chart, reference should be made to the descriptive report.

Lieut. Durgin recommends that no inshore hydrography between Pt. La Jolla and Pt. Loma be done. See statement in descriptive report.

Reviewed by P. L. Johnston  
App. A. M. Sobieralski

July 10<sup>th</sup>, 1928.

DEPARTMENT OF COMMERCE  
U. S. COAST AND GEODETIC SURVEY

REG. NO. 4810

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. 2

REGISTER NO. 4810

State California

General locality ~~Southern California~~ San Diego

Locality Pt. Loma to Pt. La Jolla.

Scale 1-20 000 Date of survey Sept. 7 - 13, 1928

Vessel Scripps

Chief of Party Casper M. Durgin

Surveyed by Casper M. Durgin

Protracted by Casper M. Durgin

Soundings penciled by Casper M. Durgin

Soundings in ~~fathoms~~ feet

Plane of reference MLLW

Subdivision of wire dragged areas by

Inked by W.H. BAMFORD.

Verified by W.H.B.

Instructions dated July 20, 1928.

Remarks: Accompanying Sheet shows Signals for Hydrography and Changes since previous Topographic Surveys.

Field Records Section (Charts)

HYDROGRAPHIC SHEET No. 4810

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

Number of positions on sheet	. 255 . . .
Number of positions checked	. 175 . . .
Number of positions revised	. 5 . . .
Number of soundings recorded	. 677 . . .
Number of soundings revised	. 6 . . .
Number of signals erroneously plotted or transferred	. . . NONE . . .

Date: - - - - 3-30-29

Cartographer: Warren H Bamford.