

4976

Diag. Cht. No. 5530-7

4976

Form 504 Ed. June, 1928 DEPARTMENT OF COMMERCE U. S. COAST AND GEODETIC SURVEY <i>R.S. Patton, Director</i>	
State: <u>California</u>	
DESCRIPTIVE REPORT Topographic } Sheet No. ³ 4976 Hydrographic }	
LOCALITY <u>Golden Gate</u> <u>Beach south of Pt Lobos</u>	
<hr/> 1929	
CHIEF OF PARTY <u>O.W. Swainson</u>	

C. & G. SURVEY
L. & A.
APR 2 1930
Acc. No.

DESCRIPTIVE REPORT

TO ACCOMPANY

HYDROGRAPHIC SHEET NO. 3 4976

CALIFORNIA COAST

SURVEY VESSEL PIONEER

O. W. SWAINSON - COMMANDING

DESCRIPTIVE REPORT.

TO ACCOMPANY HYDROGRAPHIC SHEET NO. 3.

INSHORE HYDROGRAPHY COAST OF CALIFORNIA OCEAN BEACH.

AUTHORITY

Director's Instructions dated April 9, 1929.

SCALE

The scale of this sheet is 1 : 10,000.

SURVEY METHODS

All soundings on this sheet were obtained by use of the hand lead. The weather and tidal conditions were favorable for all the work except for a few soundings which have been rejected. Due to the strong tidal currents between Mile Rock and Seal Rock, an attempt was made to do all sounding at slack tide so that the lead line would always be in a vertical position, without any bow in it, when it was read. The tide was unfavorable, however, on the two following sections and they should be rejected. The rejections were as follows: soundings on (a day) between positions 100 and 105; and soundings on (h day) between positions 34 and 40.

All fixes were obtained from sextant angles observed on definite objects located by triangulation and topography.

LIMITS

This sheet covers the hydrography along a narrow strip between the old survey of the San Francisco Bar and the shore. It extends from the vicinity of Mile Rock south to the northern limits of hydrographic sheet No. 4 (field), approximate latitude $37^{\circ} 42'$.

DANGERS

No dangers were found on this sheet.

CHANNELS

There were no channel developments on this sheet except a few soundings in the South Channel of the San Francisco Bar which were found necessary in making proper junction with the old work on the bar. The two buoys marking the South Channel were also relocated and found to be very close to the charted positions.

ANCHORAGES

There are no anchorages for any type of boats in this area.

COMPARISONS WITH PREVIOUS SURVEYS

In comparing this survey with previous surveys it will be found that the bottom has shifted around considerably due to tidal currents in the vicinity of the Seal Rocks, and between them and Mile Rock.

This shifting has not developed any dangers because there is still plenty of depth of water in all places where boats will be passing.

TIDES

The tide gauge at Drake's Bay was used in the reduction of tides for this sheet.

Earl O. Heaton

Earl O. Heaton,
H. & G. Engineer.

Approved and forwarded:

O. W. Swainson

O. W. Swainson,
H. & G. Engineer,
Chief of Party.

STATISTICS

HYDROGRAPHIC SHEET NO. 3.

Date	Day Letter	Vol.	Visual Positions	Statute Miles	Leadline Soundings	Boat
Sept. 4	a	1	106	16.0	533	MIANUS
" 6	b	1	109	20.0	571	"
" 9	c	1	75	14.6	329	"
" 10	d	1	47	7.2	161	"
" 11	e	2	57	8.6	184	"
" 12	f	2	52	6.2	104	"
" 16	g	2	21	3.0	58	"
" 19	h	2	43	3.2	118	"
" 25	j	2	38	7.2	167	"
Oct. 3	k	2	37	6.5	204	"
Totals			585	92.5	2429	

(FOR THE FILES OF FIELD RECORDS SECTION)

April 16, 1930.

Division of Hydrography and Topography:

Division of Charts:

Tide Reducers are approved in
volumes of sounding records for

2

HYDROGRAPHIC SHEET

4976

Locality:

California (South of Point Lobos)

Chief of Party:

Plane of reference ~~is~~ W. Swainson in 1929

ft. on tide staff ~~mean~~ lower low water, reading

3.8 ft. below B. M. Point Reyes

Time ^{of tide} 1/2 hour later than at Point Reyes

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 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.

Section of Field Records.
Report on Hydrographic Sheet No. 4976
Inshore South of Point Lobos.
Golden Gate, California.

Surveyed in 1929.

Instructions dated April 9, 1929 (Pioneer)

Chief of Party, O. H. Swainson.

Surveyed by E. O. Heaton.

Protracted by G. R. Fish.

Soundings plotted by J. L. Ellerbe.

Verified and inked by J. D. Torrey.

1. The records conform to the requirements of the General Instructions.
2. The plan and character of development conform to the requirements of the General Instructions.
3. The plan and extent of development satisfy the specific instructions.
4. Sounding line crossings are adequate.
5. The information is sufficient for drawing the depth curves.
6. Both the field protracting and plotting is satisfactory.
7. The junction with sheet H-4977 satisfactory.
8. The surveying is satisfactory.
9. No further surveying is required.

John D. Torrey.

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

March 12, 1931.

SECTION OF FIELD RECORDS

Report on Hydrographic Sheet No. 4976

Beach south of Pt. Lobos, California

Surveyed in 1929

Lead line soundings

Instructions dated April 9, 1929. (Pioneer)

Chief of Party, O. W. Swainson

Surveyed by E. O. Heaton

Protracted by G. R. Fish

Soundings plotted by J. C. Ellerbe Jr.

Verified and inked by J. D. Torrey

1. The records conform to the requirements.
2. The plan, character and extent of the survey satisfy the requirements of the general and specific instructions.
3. In general the sounding line crossings are satisfactory.
4. The information is sufficient for drawing the usual depth curves with the exception of the low water curve.
5. The junction on the north, in the vicinity of Pt. Lobos, with the old sheets H. 2283, H. 2285 and H. 2285b is satisfactory.

The overlap on the west with H. 2504 and H. 4464 is sufficient but the work does not agree closely. The

area is apparently somewhat changeable as each survey differs from the previous one. This sheet, H. 4976, will supersede H. 2504 and the previous surveys H. 1628 and H. 1201 but H. 4464, surveyed in 1925, may be used in conjunction with this sheet. (Approved by A. M. S.)

Part of this area was covered by the wire drag in 1926, H. 4464 a, and the soundings obtained by the drag party were added to this sheet in blue. The shoaling in approximate lat. $37^{\circ}46'$, long. $122^{\circ} 31.4'$ with a least of 31 feet was passed by the drag with an effective depth of 31 feet. The junction on the south with H. 4977 is satisfactory.

6. The usual amount of field plotting was fairly well done by the field party. Two errors in protracting were found which should have been detected either by the elapsed time or by comparison with the boat sheet.
7. Character and scope of surveying - The character of the survey is satisfactory and the scope of the survey while not extensive, is all that was requested.
8. While no additional work is recommended at the present time, the area just off of and south of Pt. Lobos apparently needs surveying at regular intervals.
9. Reviewed by R. L. Johnston - October 28, 1930.

Approved:

A. M. Sobieralski

Chief, Section of Field Records (CHARTS)

F. S. Borden

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

DEPARTMENT OF COMMERCE
U. S. COAST AND GEODETIC SURVEY

REG. NO. 4976

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. 3

REGISTER NO. 4976

State California

General locality Golden Gate
~~Northern California Coast~~

Locality Beach south of Golden Gate Pt. Lobos

Scale 1:10,000 Date of survey Sept. 4 - Oct. 3, 1929

Vessel MIANUS

Chief of Party O. W. Swainson

Surveyed by E. O. Heaton

Protracted by G. R. Fish

Soundings penciled by J. C. Ellerbe, Jr.

Soundings in fathoms ~~x feet~~

Plane of reference Mean Lower Low Water

Subdivision of wire dragged areas by

Inked by J. D. Torrey

Verified by J. D. T.

Instructions dated April 9, 1929

Remarks: