

5426

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Form 504
Ed. June, 1928

DEPARTMENT OF COMMERCE
U. S. COAST AND GEODETIC SURVEY
R.S. Patton, Director

State: California

U. S. COAST & GEODETIC SURVEY
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APR 19 1934

Ass. No.

DESCRIPTIVE REPORT

~~Hydrographic~~ } Sheet No. 102 5426
Hydrographic

LOCALITY

Santa Barbara Channel

Vicinity of Pt. Huemama.

1933

CHIEF OF PARTY

C.K.Green.

DESCRIPTIVE REPORT
to accompany
HYDROGRAPHIC SHEET - FIELD NO. 102
CALIFORNIA COAST, VENTURA COUNTY
VICINITY OF HUENEME

INSTRUCTIONS

Hydrography of this sheet is covered in Instructions dated October 31, 1932.

LIMITS

The sheet is on a scale of 1:10,000 and embraces the inshore hydrography of the coast in the vicinity of Hueneme. The sheet joins sheet 101 on the southeast, 103 on the northwest and 41 on the southwest.

GENERAL DESCRIPTION

The coast is low and flat, with a sand beach the entire length of the sheet. Shifting sand dunes, from 6 to 12 feet high, lie immediately back of the high water line eastward from Hueneme. From Hueneme westward the dunes are up to 30 feet in height and lie $\frac{1}{3}$ of a mile in from the beach. The back country is so flat that only tree clumps, and a few barns are seen from seaward. From Hueneme Light ^{westward} to the end of the sheet there is a continuous row of beach houses. Eastward from Hueneme there is no development.

The Lighthouse, Hueneme Water tank, an Oil tank (signal Rus), and a few buildings at Hueneme are conspicuous from seaward.

The swells break on the flat sand bottom from 200 to 400 meters offshore. The prevailing winds are westerly and only a slight protection from seas may be had at Hueneme. The lone wharf on the sheet, at Hueneme, has 20 feet of water at its outer end. The only traffic is a lumber schooner once or twice a year.

The bottom slopes gently to the outer limits of the sheet except for the extremely steep slopes of the submarine valley lying off Hueneme Light. The bottom is mud in the valley and gray sand elsewhere. There is no kelp on the sheet.

SURVEY METHODS

The hydrography, up to approximately 12 fathoms, is hand lead soundings, fixed by sextant angles with ample topographic control. Wire soundings with gas engine hoist were used on the remainder of the sheet. The inshore lines of soundings were done on the best available days and are along the breaker line in average weather. Some inshore soundings were obtained from the skiff in the vicinity of Hueneme pier. In general the inshore lines of soundings range from 1 to 3 fathoms, and the bottom slopes up evenly to the beach.

DESCREPANCIES

There are no large discrepancies. The 10-fathom curve at the west end of the sheet shows an unnatural dip around the 11 fathoms of line, position 4S to 7S. These soundings appear to be from 2 to 3 feet too deep.

*Plotting 7
quarter
fathoms
soundings
between 10 and
11 fms. should
be 11 fms.
A.S.S*

DANGERS

There are no dangers on the sheet. The coast is flat and hard to pick up at night, but is easily cleared because of Hueneme Light.

ANCHORAGES

Anchorage in open water can be had anywhere along the coast except in the submarine valley. Small boats can anchor, with some protection from prevailing winds, just eastward of the Hueneme wharf in from 3 to 4 fathoms.

COMPARISON WITH PREVIOUS SURVEYS

Eastward from the Light, the 6 fathom curve is about 100 meters inshore from the same curve of the survey of 1856 (Register No. 554). Westward from the Light this difference is less. Because of the wide spacing of lines on the old work, a comparison of the depth curves cannot be made of the submarine valley.

*6 fathom
curve not
noticed*

GEOGRAPHIC NAMES

The beach resorts of Silverstrand, Hollywood Beach, Hollywood by the Sea lie along the beach northward of Hueneme as shown on Topographic sheet B.

SPECIAL NOTES

The surveys for a harbor project at Point Hueneme are underway (1934) and construction of jetties and dredging operations are scheduled to commence this year.

CURRENTS

No current measurements were made. It was observed that a strong inshore set prevailed on rising tides in the deep waters of the submarine valley off Hueneme.

Approved by

Chas. K. Green
Chas. K. Green,
Chief of Party.

Submitted by

Chas. K. Green
Chas. K. Green,
Chief of Party.

STATISTICS SHEET No. 102

DATE, 1933	LETTER	VOLUME	POSITIONS	SOUNDINGS	MILES STATUTE	VESSEL
May 23	A	1	46	125	7.8	VIRGINIA I
24	B	1	44	142	8.0	"
25	C	1	86	213	15.0	"
26	D	1	159	459	32.0	"
31	E	1	47	144	7.8	"
June 1	F	1 & 2	155	563	29.0	"
2	G	2	108	297	23.5	"
5	H	2	36	104	8.4	"
6	J	2	45	93	8.0	"
7	K	2	82	178	16.1	"
8	L	2	32	140	7.4	"
9	M	2	13	44	1.8	"
15	N	2 & 3	47	119	3.0	"
16	P	3	7	18	0.9	"
20	Q	3	66	123	8.0	"
23	R	3	58	105	10.4	"
Sept. 14	S	3	59	146	11.8	"
20	T	3	59	130	12.6	"
25	U	3	35	68	7.4	"
28	V	3	9	15	1.6	"
29 1934	W	3	72	110	7.3	"
Feb. 22	X	4	46	133	8.0	"
TOTAL- - -			1,311	3,469	234.8	

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PARTY #10

Santa Barbara, Calif.
April 11, 1934. ✓

Hydrographic sheet No. 102, submitted herewith, has been inspected and approved by me, together with the data listed below.

List of data forwarded with Hydrographic Sheet No. 102.

Title sheet
Descriptive Report
Statistic sheet
Tidal data

Chas. K. Green
Chas. K. Green,
Chief of Party.

DEPARTMENT OF COMMERCE
U. S. COAST AND GEODETIC SURVEY

U. S. COAST & GEODETIC SURVEY
LIBRARY AND ARCHIVES

APR 19 1934

REG. NO.

HYDROGRAPHIC TITLE SHEET

Acc. No. _____

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. 102

REGISTER NO.

State California

General locality Santa Barbara Channel

Locality Vicinity of Point Hueneme

Scale 1:10,000 Date of survey May - September, 19 33

Vessel Chartered Launch VIRGINIA I

Chief of Party Chas. K. Green

Surveyed by Chas. K. Green - N. R. Gindrat

Protracted by F. W. Gavin

Soundings penciled by John W. Parsons

Soundings in fathoms 1000

Plane of reference M. L. L. W. - Hueneme

Subdivision of wire dragged areas by _____

Inked by W. L. Mullen

Verified by W. L. Mullen

Instructions dated October 31, 19 32

Remarks: _____

RAC

April 25, 1934

Division of Hydrography and Topography:

✓ Division of Charts:

Tide Reducers are approved in
4 volumes of sounding records for

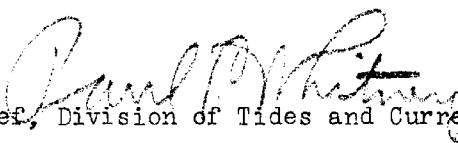
HYDROGRAPHIC SHEET 5426

Locality Vicinity of Point Hueneme, Santa Barbara Channel, Calif.

Chief of Party: Chas. K. Greene in 1933
Plane of reference is mean lower low water, reading
2.9 ft. on tide staff at Hueneme
12.7 ft. below B. M. 1
3.6 ft. on tide staff at Santa Barbara
16.6 ft. below B.M. 1

Height of mean higher high water above plane of reference is 5.4 feet.

Condition of records satisfactory except as noted below:


Chief, Division of Tides and Currents

May 22, 1934

Section of Field Records.
Report on Hydrographic Sheet No. 5426
Santa Barbara Channel
Vicinity of Point Stuenne
California.

Sheet No. "G"

Chief of Party - Chas. K. Green
Surveyed by C. K. Green & N. R. Gundersen
Protracted by F. W. Gavin
Soundings penciled by John W. Parsons
Verified & Dusted by W. R. Muller

The records conform to the requirements of the Hydrographic Manual.

The protracting and penciling of soundings was excellently done, very few errors being found. This sheet was visually compared with the boat sheet in the few open areas. At the beginning and ending of lines crossing the submarine valley all positions were checked. With one exception these were found to be correct.

Due to the very gradual change in depth (which was developed on Lt. 5420 before the completion of this sheet) it was decided after conference with and approval by Capt. Ellis that the fractions between 10 and 11 fathoms be ruled. At the time this decision was made this sheet had been ruled through "5" fathoms and under instructions from Capt. Ellis the writer has changed all soundings up to 10 fathoms 4 feet into quarter fathoms. From "5" fathoms on all soundings up to and including 10 fathoms 5 feet has been called 3/4 fathoms. This will cause a slight inconsistency in the sheet but it was not considered advisable

To press all 10 or 11 fathom soundings to make this change.
the Cross-

Attention of the reviewer is called to line 38 X to 46 X which seems to be ^{about 1 foot ~~smaller than the~~ ~~offshore~~} ~~offshore~~. The writer ascribes this to the fact that the tide reducer is perhaps in error. An investigation in the Idus Section it was ascertained that the reading on the tide gauge at Santa Barbara at the time these soundings were taken was 0.3 feet. According to the Manual the tide reducer is properly entered. However if the tide reducer was made 0.0 the agreement of soundings would be perfect. This Lowson is not a serious matter.

The 10 fathom $\frac{1}{2}$ foot soundings in Volume 4 at page 11 have been plotted as 10 $\frac{1}{4}$ fathoms to straighten the curve. (Pos. 45-46 X).

Respectfully Submitted

W. R. Muller

Section of Field Records

REVIEW OF HYDROGRAPHIC SURVEY NO. 5426 (1933)

Vicinity of Point Hueneme and Santa Barbara Channel, California.
Instructions dated Oct. 31, 1932 (G. K. Green)

Hand Lead and Machine Soundings - 3 Point Control Shore Signals.

Chief of Party - G. K. Green.
Surveyed by - G. K. Green, N. R. Gindrat.
Protracted and soundings plotted by - F. W. Gavin, J. W. Parsons.
Verified and inked by - W. L. Mullen.

1. Condition of Records.

The records are neat, legible, and conform to the general requirements of the Hydrographic Manual.

2. Compliance with Instructions for the Project.

The general plan, character, and extent of the survey conforms to the instructions for the project.

3. Sounding Line Crossings.

Sounding line crossings are satisfactory. Average differences in even bottom are about 3%.

4. Depths Curves.

Depth curves may be satisfactorily drawn with the exception of the 1 fathom and portions of the two and three fathom curves.

Impossible to develop because of breakage, etc.

5. Junction with Contemporary Surveys.

Junctions on the northwest with H-5420 are satisfactory. Junctions on the southeast with H-5425 and on the southwest with H-5446 will be considered in the reviews of these sheets.

6. Comparisons with Prior Surveys.

(a) H-554 (Survey of 1856).

Generally speaking, soundings and curves of this survey are in good agreement with the new survey (H-5426), differences being limited to $\frac{1}{2}$ to $\frac{1}{2}$ fathoms. In the vicinity of the submarine valley off Point Hueneme there are several soundings that are in disagreement with the new survey. An examination of the original records indicates that too great care was not exercised in the plotting. As the soundings were of no particular importance, their positions were not changed on the old survey.

(b) ¹⁴⁰³H-550 (Survey of 1878).

Generally speaking, soundings of this survey are in good agreement with those of the current survey (H - ⁵⁴²⁶~~5400~~).

(c) H - 289 (Survey of 1851).

This is a "track" survey on a very small scale and contains nothing which would conflict with the current survey.

7. Comparisons with Chart No. 5202.

Apart from the surveys mentioned above, the chart contains no information that conflicts with the present survey.

8. Field Plotting.

Field protracting and plotting were very accurate.

9. Additional Field Work Recommended.

As this survey is complete, no additional work is necessary.

10. Superseding Old Surveys.

Within its limits, the present survey (H - ⁵⁴²⁶~~5436~~) supersedes the following surveys for charting purposes:

- H - 554 (survey of 1856) in part.
- H - 289 (survey of 1851) in part.
- H - 1403 (survey of 1878) in part.

11. Note to Compiler.

Because of the general good agreement between the old and the new survey, the soundings ^{on} in H - 1405 that fall inshore of the inshore limits of the present survey can be used to supplement the new survey where necessary for large scale charting.

not within limits of this sheet.

12. Reviewed by Harold W. Murray, June, 1934.

K.T. Adams
K. T. Adams,
Chief, Section of Field Records

Examined and approved:

L.O. Colburn
Chief, Division of Charts.

J.S. Bowen
Chief, Section of Field Work.

G. L. ...
Chief, Division of H. & T.

23 June 24, 1936
L.S.

Applied to drawing of Chart 5002 Mar 1936 R.M.Z.

Applied to Comp. Chart 5007 - Aug 24. 40 - P.B.B.

~~Applied~~ Applied to Ch 5120 (completely) - H.W.B. 1/29/58
Applied thru Ch 5007

Three adys added outside 120 ft curve on left
5007 4-10-58 RKD

5007 Inset Chan Is Hbr added after VTR cut 9.30.68