

# 11644

orig

Diag. Cht. No. 5101-2

Form 504

U. S. DEPARTMENT OF COMMERCE  
COAST AND GEODETIC SURVEY

## DESCRIPTIVE REPORT

Type of Survey SHORELINE (PHOTOGRAMMETRIC)

Field No. Ph-5908 Office No. T-11644

### LOCALITY

State CALIFORNIA

General locality LOS ANGELES

Locality POINT VICENTE

1959-1960

### CHIEF OF PARTY

FRED NATELLA

### LIBRARY & ARCHIVES

DATE Sept. 1963

USCOMM-OC 5087

# 11644

DESCRIPTIVE REPORT - DATA RECORD

T - 11644

Project No. (II): PH-5908

Quadrangle Name (IV):

Field Office (II): SANTA ANA, CALIFORNIA

Chief of Party: LORNE G. TAYLOR & FRED  
UNIT CHIEF: ROBERT B. MELBY NATELLA

Photogrammetric Office (III): PORTLAND, OREGON

Officer-in-Charge: LORNE G. TAYLOR  
& FRED NATELLA

Instructions dated (II) (III): 6 JANUARY 1960  
AMENDMENT 1 13 APRIL 1960

Copy filed in Division of  
Photogrammetry (IV)

Method of Compilation (III): KELGH INSTRUMENT

Manuscript Scale (III): 1:10,000 Stereoscopic Plotting Instrument Scale (III): 1:6000  
PANTOGRAPH SCALE: 1:10,000

Scale Factor (III): NONE

Date received in Washington Office (IV): JAN 29 1960 Date reported to Nautical Chart Branch (IV):

Applied to Chart No.

Date:

Date registered (IV):

Publication Scale (IV):

Publication date (IV):

Geographic Datum (III): N.A. 1927

Vertical Datum (III):

Mean sea level except as follows: X  
Elevations shown as (25) refer to mean high water  
Elevations shown as (5) refer to sounding datum  
i.e., mean low water or mean lower low water

Reference Station (III): VICENTE, 1951

Lat.: 33° 44' 28.652"

Long.: 118° 24' 37.018"

Adjusted X  
Unadjusted

Plane Coordinates (IV):

State: CALIFORNIA Zone: VII

Y= 4,018,270.86

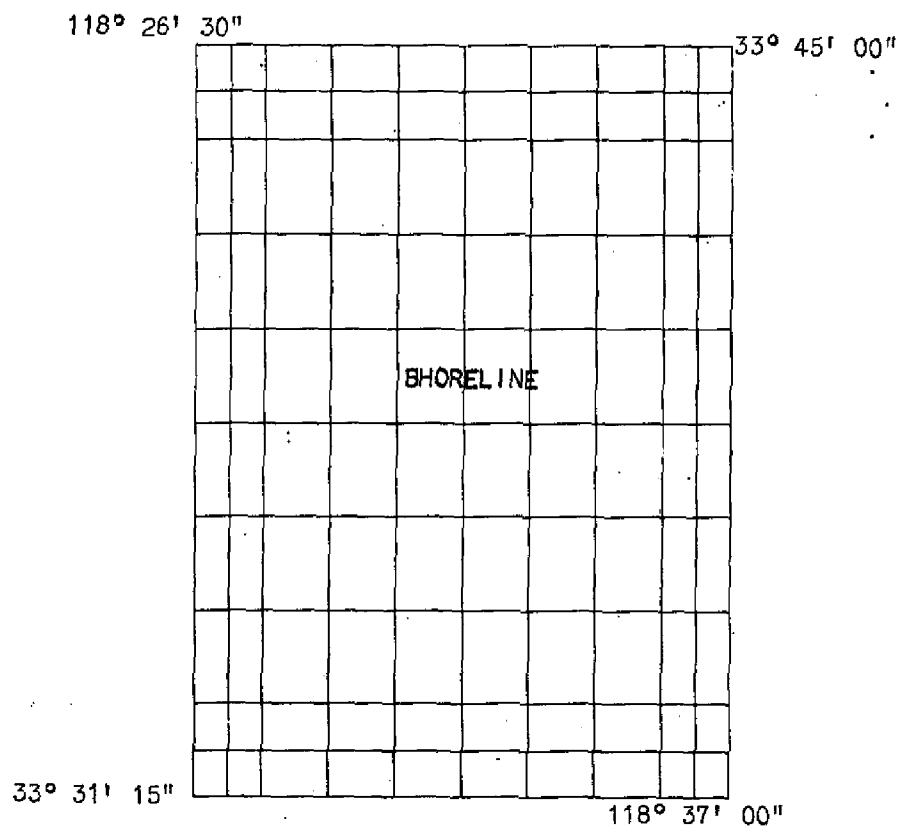
X= 4,163,297.99

Roman numerals indicate whether the item is to be entered by (II) Field Party, (III) Photogrammetric Office,  
or (IV) Washington Office.

When entering names of personnel on this record give the surname and initials, not initials only.

FORM 181a  
(4-23-54)

## DESCRIPTIVE REPORT - DATA RECORD

U.S. DEPARTMENT OF COMMERCE  
COAST AND GEODETIC SURVEY

Areas contoured by various personnel

(Show name within area)

(II) (III)

DESCRIPTIVE REPORT - DATA RECORD

Field Inspection by (II): R. B. MELBY Date: JAN. - MAR.  
L. L. RIGGERS 1960

Planetable contouring by (II): Date:

Completion Surveys by (II): Date:

Mean High Water Location (III) (State date and method of location): MARCH 1960 BY FIELD INSPECTION.  
COMPILATION BY KELSH INSTRUMENT.

Projection and Grids ruled by (IV): R.A.C. Date: 9-28-60

Projection and Grids checked by (IV): J.D.C. Date: 10-12-60

Control plotted by (III): C. H. BISHOP Date: 11-2-61

Control checked by (III): L. L. GRAVES Date: 11-6-61

Radial Plot or Stereoscopic Control extension by (III): R. E. FUESCHEL Date: OCT. 1961

Planimetry C. H. BISHOP Date: 4-26-62

Stereoscopic Instrument compilation (III): Contours Date:

Manuscript delineated by (III): C. H. BISHOP & J. L. HARRIS, SCRIBING Date: 7-26-62  
C. C. HARRIS, STICK-UP 12-21-62

Photogrammetric Office Review by (III): J. L. HARRIS, ROUGH DRAFT Date: 6-21-62  
J. L. HARRIS, ADVANCE 12-26-62

Elevations on Manuscript checked by (II) (III): Date:

# DESCRIPTIVE REPORT - DATA RECORD

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

Camera (kind or source) (III): C&GS SINGLE LENS "S"

Number	Date	PHOTOGRAPHS (III) Time	Scale	Stage of Tide
59 S 8164				
RU 8166 THRU 8166	10-3-59	10:49	1:30,000	0.3' ABOVE M.H.W.
59 S 8160	"	10:47	"	" "
THRU 8162				
59 S 8030				
THRU 8035	10-2-59	15:00	1:10,000	AT M.L.L.W.
(COLOR TRANSPARENCIES)				
59 S 8072				
THRU 8079	10-3-59	09:30	"	1.5' ABOVE M.H.W.
(COLOR TRANSPARENCIES)				

## Tide (III)

Reference Station: LOS ANGELES (OUTER HARBOR)

Subordinate Station:

Subordinate Station:

COMPUTED FROM PREDICTED TIDE TABLES.

Washington Office Review by (IV):

Final Drafting by (IV):

Drafting verified for reproduction by (IV):

Proof Edit by (IV):

Land Area (Sq. Statute Miles) (III): 1

Shoreline (More than 200 meters to opposite shore) (III): 3

Shoreline (Less than 200 meters to opposite shore) (III):

Control Leveling - Miles (II):

Number of Triangulation Stations searched for (II): 27 Recovered: 12

Number of BMs searched for (II): 0 Recovered: 0

Number of Recoverable Photo Stations established (III): 4

Number of Temporary Photo Hydro Stations established (III):

Remarks:

DIURNAL		
Ratio of Ranges	Mean Range	Spring Range
	3.8	5.4

Date:

Date:

Date:

Date:

## FIELD INSPECTION REPORT

Map Manuscripts T-11644 &amp; T-11645

Project Ph-5908

January to March 1960

2. Areal Field Inspection:

The area along the coast is a series of sloping benches, near the base of the southwest slopes of the Palos Verdes Hills, terminating at the ocean bluffs. A large portion of the land is under cultivation but is gradually being absorbed by housing developments forming an urban area.

The area is serviced by a network of good paved roads.

There are no railroads or air facilities in the area except for a helicopter landing pad (heliport) at Point Vicente.

Point Vicente is occupied by a U. S. Coast Guard installation. On the north side of Point Vicente is a military small arms firing range. On Long Point there are several open-air stadiums of the Marineland of the Pacific. This private enterprise exhibits sea life and produces various aquatic performances with marine animals.

The photography was found to be satisfactory for field inspection and control station identification.

3. Horizontal Control:

(a) No supplemental control stations were established. The existing horizontal control was sufficient for photo-control identification requirements.

(b) No datum adjustments were made in the field.

(c) Two triangulation stations previously established by the Los Angeles County Engineers' Office were tied to the bureau's control by traverse methods.

No adjustments were made in the field.

(d) All stations required by the project instructions for control of compilation were identified.

(e) All stations within the project limits were searched for,

(f) All photo-control identification was positive.

4. Vertical Control:

The project instructions require only the identification of tidal bench marks. There are no tidal bench marks in this area.

5. Contours and Drainage:

Contours are not applicable.

There are no perennial drains in the area. The intermittent stream courses are apparent and have been indicated on the field photographs.

6. Woodland Cover:

Except for low scattered trees and brush along the intermittent stream beds and where trees and palms have been planted, the area is practically devoid of woodland cover.

7. Shoreline and Alongshore Features:

(a) The mean high water line has been delineated on the field photographs. The mean high water line as delineated on the field photographs is about halfway between the existing waterline on the photographs and the inshore reaches of the sea of the previous high tide. The extent of the inundation of the previous high tide appears as a darker tone on the photographs due to the wet beach. The mean highwater is based on the values obtained at the tide gage station at Los Angeles, Outer Harbor, San Pedro, California.

The composition of the shoreline has been classified on the field photographs.

(b) The low water line was not indicated on the field photographs. This feature was not visible on the field photographs.

(c) The composition of the foreshore has been indicated on the field photographs.

(d) The entire shoreline is backed by bluffs in the area except for a few short stretches of beach. The bluffs are composed of earth and unstable rock formations. The base of the bluffs terminate at short steep boulder-rock beaches or rocky ledges.

(e) There are only two small piers in the area.

(f) There are no known submarine cables in the area.

(g) Offshore rocks have been indicated on the field photographs. Near the mean high water line are numerous boulders and rocks. In some areas there are rocky ledges projecting seaward from the shoreline. The ledges have been indicated on the field photographs.

Three submerged sewer outfall lines extend seaward from Whites Point. The inshore ends of the sewer lines have been indicated on a field photograph.

9. Landmarks and Aids:

All landmarks and aids to navigation have been located in the area. These will be submitted on Form 567. Elevations of all landmarks and aids were obtained by either direct vertical measurement or by trigonometric leveling from existing bureau marks and were converted to heights above mean high water.

10. Boundaries, Monuments and Lines:

Boundaries and monuments are not applicable.

Urban lines have not been indicated on the field photographs. The urban areas are quite apparent on the photography and can be delineated at the time of compilation.

Maps showing the street net and their respective names will be obtained from the Los Angeles County Engineers Office and will be submitted.

11. Other Control:

See under Item 9.

Topographic or hydrographic control stations are not applicable unless they are aids to navigation or landmarks.

12. Other Interior Features:

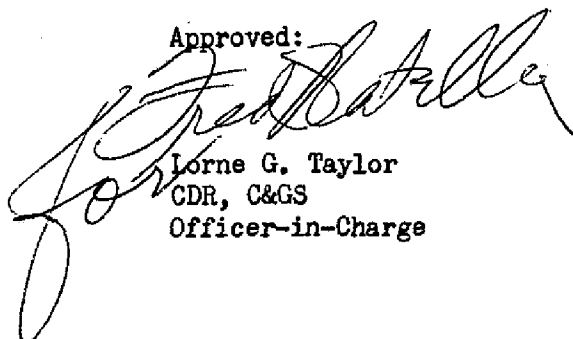
There are no bridge or cable clearances in the area. Road classification was in accordance with Section 5441, Topographic Manual in lieu of Photogrammetric Instruction 56, dated 1 July 1958. This will allow the compiler to ascertain exactly the status of the road and can then apply the proper delineation to the feature on the manuscript.

Buildings were classified in accordance with Photogrammetric Instruction 54, dated 2 January 1958.

13. Geographic Names:

Geographic Names will be the subject of a separate report.

Approved:



Lorne G. Taylor  
CDR, C&GS  
Officer-in-Charge

Respectfully submitted:

*Robert B. Melby*  
*by C.H.B.*

Robert B. Melby  
Cartographic Survey Aid  
C&GS

PHOTOGRAMMETRIC PLOT REPORT

MAP MANUSCRIPT T-11644

PROJECT PH-5908

REFER TO THE PHOTOGRAMMETRIC PLOT REPORT FOR THE ENTIRE  
PROJECT BY R. E. FUESCHEL, OCTOBER, 1960.

*Filed with Desc. Report T11640*

U.S. DEPARTMENT OF COMMERCE  
DESCRIPTIVE REPORTEAST AND GEODETIC SURVEY  
CONTROL RECORD

MAP T-11644

PROJECT NO. PH-5908

SCALE OF MAP 1:10,000

SCALE FACTOR None

STATION	SOURCE OF INFORMATION (INDEX)	DATUM	LATITUDE OR y-COORDINATE LONGITUDE OR x-COORDINATE	DISTANCE FROM GRID IN FEET. OR PROJECTION LINE IN METERS		DATUM CORRECTION	N.A. 1927 - DATUM DISTANCE FROM GRID OR PROJECTION LINE IN METERS		FACTOR DISTANCE FROM GRID OR PROJECTION LINE IN METERS
				FORWARD	(BACK)		FORWARD	(BACK)	
NEBRASKA (PALOS VERDES ESTATES) 1933	OFFICE	N.A.	580,765.03	765.03	(4234.97)		233.2	(1290.8)	
	COMP.	1927	1,344,230.22	4230.22	(769.78)		1289.4	(234.6)	
SUB STA. "A"	"	"	581,003.56	1003.56	(3996.44)		305.9	(1218.1)	
	"	"	1,344,604.35	4604.35	(395.65)		1403.4	(120.6)	
SUB STA. "B"	"	"	580,773.52	773.52	(4226.48)		235.8	(1288.2)	
	"	"	1,344,288.10	4288.10	(711.90)		1307.0	(217.0)	
POINT VICENTE L.H., 1926	V1	"	579,930.00	4930.00	(70.00)		1502.7	(21.3)	
	P-83	"	1,343,432.40	3432.40	(1567.60)		1046.2	(477.8)	
VICENTE, 1951	OFFICE	"	579,727.58	4727.58	(272.42)		1441.0	(83.0)	
	COMP.	"	1,343,287.83	3287.83	(1712.17)		1002.1	(521.9)	
SUB STA. "A"	"	"	579,806.80	4806.80	(193.20)		1465.1	(58.9)	
	"	"	1,343,375.42	3375.42	(1624.58)		1028.8	(495.2)	
SUB STA. "B"	"	"	579,755.09	4755.09	(244.91)		1449.4	(74.6)	
	"	"	1,343,327.04	3327.04	(1672.96)		1014.1	(509.9)	
ANTENNA POLE (BOTTOM CENTER) 1951	XV	"	33 44 29.613				912.4	(936.2)	
	732	"	118 24 35.688				918.6	(625.8)	
BM E 788, 1946	VII	"	4,018,467.36	3467.36	(1532.64)		1056.9	(467.1)	
	P-21	"	4,163,441.45	3441.45	(1558.55)		1049.0	(475.0)	
NA REAR, 1933	III	"	33 44 28.941				891.7	(956.9)	9
	P-72	"	118 23 33.837				871.0	(673.5)	
RAN, 1933	III	"	33 44 51.484				1586.2	(262.4)	
	P-71	"	118 24 42.728				1099.8	(444.6)	

1 FT. = .3048006 METER  
COMPUTED BY: J.L.H.  
C.H.B.DATE 3-10-60  
10-27-61CHECKED BY: D.N.W.  
L.L.G.DATE 3-10-60  
11-1-61

COMM-DC-57843

## COMPILATION REPORT

MAP MANUSCRIPT T-11644

PROJECT PH-5908

31. DELINEATION:

THE KELSH INSTRUMENT WAS USED TO COMPILE THE PLANIMETRY.

32. CONTROL:

IDENTIFIED SUPPLEMENTARY CONTROL ESTABLISHED IN THE STEREO-PLANIGRAPH BRIDGING WAS ADEQUATE.

33. SUPPLEMENTAL DATA:

MAP OF LOS ANGELES COUNTY, No. 27, SCALE 1 INCH = 600 FEET, COMPILED BY THE COUNTY ENGINEER, NOV. 1954.

34. CONTOURS AND DRAINAGE:

CONTOURS ARE NOT APPLICABLE.

NO DRAINAGE WAS FIELD INSPECTED IN THE AREA AND NONE WAS EVIDENCED UPON EXAMINATION OF THE PHOTOGRAPHY.

35. SHORELINE AND ALONGSHORE DETAILS:

THE MEAN HIGH-WATER LINE WAS LOCATED BY FIELD INSPECTION AND DELINEATED BY THE KELSH OPERATOR DURING COMPILATION. THE EXTENT OF FOUL AREAS AND DATA ON ROCKS BARING ALONGSHORE WERE FURNISHED BY THE FIELD UNIT. THESE DATA WERE ADJUSTED TO THE STANDARD PLANE OF REFERENCE AND ARE SHOWN ON THE MANUSCRIPT. A LOW WATER LINE AND A SHALLOW LINE WAS DELINEATED FROM OFFICE INTERPRETATION OF THE LOW WATER COLOR TRANSPARENCIES.

36. OFFSHORE DETAILS:

NONE.

37. LANDMARKS AND AIDS:

ONE FIXED AID TO NAVIGATION WAS IDENTIFIED FOR CHARTING. IT HAD BEEN PREVIOUSLY LOCATED BY TRIANGULATION.

FOUR LANDMARKS ARE SHOWN ON THIS MAP MANUSCRIPT, TWO ARE PREVIOUSLY ESTABLISHED TRIANGULATION STATIONS AND TWO WERE LOCATED WITH THE STEREOPLANIGRAPH CONTROL EXTENSION BRIDGE.

38. CONTROL FOR FUTURE SURVEYS:

NONE.

39. JUNCTIONS:

SATISFACTORY JUNCTION WAS MADE WITH T-11645 TO THE EAST. TO THE WEST AND SOUTH IS SAN PEDRO CHANNEL. THERE IS NO CONTEMPORARY SURVEY TO THE NORTH.

40. HORIZONTAL AND VERTICAL ACCURACY:

46. COMPARISON WITH EXISTING MAPS:

COMPARISON WAS MADE WITH THE U.S.G.S.  $7\frac{1}{2}$  MINUTE REDONDO BEACH, CALIFORNIA QUADRANGLE, SCALE 1:24,000, EDITION 1951.

47. COMPARISON WITH NAUTICAL CHARTS:

COMPARISON WAS MADE WITH THE FOLLOWING NAUTICAL CHARTS:

NAUTICAL CHART 5142, SCALE 1:80,000 AT LAT.  $33^{\circ} 31'$   
1ST ED. MARCH 1957, REVISED NOV. 1959.

NAUTICAL CHART 5101, SCALE 1:234,270 AT LAT.  $33^{\circ} 22'$   
5TH ED. JAN. 1947, REVISED MAY 1959.


ITEMS TO BE APPLIED TO NAUTICAL CHARTS IMMEDIATELY:

NONE.

ITEMS TO BE CARRIED FORWARD:

NONE.

APPROVED:

  
FRED NATELLA, CAPT, C&GS  
PORTLAND DISTRICT OFFICER

RESPECTFULLY SUBMITTED:

  
JAMES L. HARRIS  
CARTOGRAPHER

49. NOTES FOR THE HYDROGRAPHER:

A ROCK, NOT FIELD INSPECTED, WAS DELINEATED FROM THE LOW-WATER COLOR TRANSPARENCIES ABOUT 200 METERS SOUTHWEST OF RAN, 1933. IT APPARENTLY WOULD BARE AT MEAN HIGH-WATER AND SHOULD BE INVESTIGATED BY THE HYDROGRAPHIC PARTY.

## PHOTOGRAMMETRIC OFFICE REVIEW

T-10063 11644

1. PROJECTION AND GRIDS X	2. TITLE X	3. MANUSCRIPT NUMBERS X	4. MANUSCRIPT SIZE X
CONTROL STATIONS			
5. HORIZONTAL CONTROL STATIONS OF THIRD-ORDER OR HIGHER ACCURACY X	6. RECOVERABLE HORIZONTAL STATIONS OF LESS THAN THIRD-ORDER ACCURACY (Topographic stations) X		7. PHOTO HYDRO STATIONS None
8. BENCH MARKS X	9. PLOTTING OF SEXTANT FIXES None	10. PHOTOGRAMMETRIC PLOT REPORT X	11. DETAIL POINTS None
ALONGSHORE AREAS (Nautical Chart Data)			
12. SHORELINE X	13. LOW-WATER LINE X	14. ROCKS, SHOALS, ETC. X	15. BRIDGES None
16. AIDS TO NAVIGATION X	17. LANDMARKS X	18. OTHER ALONGSHORE PHYSICAL FEATURES X	19. OTHER ALONGSHORE CULTURAL FEATURES X
PHYSICAL FEATURES			
20. WATER FEATURES X		21. NATURAL GROUND COVER X	22. PLANETABLE CONTOURS None
23. STEREOSCOPIC INSTRUMENT CONTOURS None	24. CONTOURS IN GENERAL None	25. SPOT ELEVATIONS None	26. OTHER PHYSICAL FEATURES X
CULTURAL FEATURES			
27. ROADS X	28. BUILDINGS X	29. RAILROADS X	30. OTHER CULTURAL FEATURES X
BOUNDARIES			
31. BOUNDARY LINES None		32. PUBLIC LAND LINES None	
MISCELLANEOUS			
33. GEOGRAPHIC NAMES X		34. JUNCTIONS X	35. LEGIBILITY OF THE MANUSCRIPT X
36. DISCREPANCY OVERLAY None	37. DESCRIPTIVE REPORT X	38. FIELD INSPECTION PHOTOGRAPHS X	39. FORMS X
40. REVIEWER James L. Harris		SUPERVISOR, REVIEW SECTION OR UNIT Edward Deal	
41. REMARKS (See attached sheet)			
FIELD COMPLETION ADDITIONS AND CORRECTIONS TO THE MANUSCRIPT			
42. Additions and corrections furnished by the field completion survey have been applied to the manuscript. The manuscript is now complete except as noted under item 43.			
COMPILER		SUPERVISOR	
43. REMARKS			

COMPILATION RECORD

COMPLETION DATE

REMARKS

Alongshore area for hydro	12/26/68	
Interior details added - Compilation complete	12/26/68	

X

## NONFLOATING AIDS. GRACE AND GRACE FOR CHARTS

PORTLAND, OREGON 21 JUNE 1962

I recommend that the following objects which ~~have not~~ been inspected from seaward to determine their value as landmarks be charted on ~~(attached)~~ the charts indicated.

The positions given have been checked after listing by J. L. HARRIS

**FRED NATELLA** *Chief of Party,*

[illegible]

This form shall be prepared in accordance with Hydrographic Manual, Publication 20.2, Sec. 1-55, 2-39, 6-36, 7-18 to 22 inclusive, and Fig. 79. Positions of charted landmarks and *nonfloating aids* to navigation, if redetermined, shall be reported on this form. Revisions shall show both the old and new positions. The data should be considered for the charts of the area and not by individual field survey sheets. Information under each column heading should be given.

\* TABULATE SECONDS AND METERS

USCOMM-DC 10234-P61

STRIKE OUT TWO

## NOTED ON THE X-AXIS OR LANDMARKS FOR CHARTS

**PORTLAND, OREGON**

21 JUN 1962

I recommend that the following objects which ~~have~~ *have not* been inspected from seaward to determine their value as landmarks be charted on *(attached forms)* the charts indicated.

The positions given have been checked after listing by J. L. HARRIS

**FRED NATELLA** *Chief of Party.*

This form shall be prepared in accordance with Hydrographic Manual, Publication 20.2, Sec. 1-55, 2-39, 6-36, 7-18 to 22 inclusive, and Fig. 79. Positions of charted landmarks and *nonfloating aids* to navigation, if redetermined, shall be reported on this form. Revisions shall show both the old and new positions. The data should be considered for the charts of the area and not by individual field survey sheets. Information under each column heading should be given.

### \* TABULATE SECONDS AND METERS

USCOMM-DC 16234-P61

**PORTLAND, OREGON**

# NOTHING BUT THE LANDMARKS FOR CHARTS

21 JUNE 1962

I recommend that the following objects which ~~remain~~ *(have not)* been inspected from seaward to determine their value as landmarks be ~~retained~~ *(deleted from)* the charts indicated.

<sup>77</sup>The positions given have been checked after listing by J. L. HARRIS.

**FRED NATELLA** *Chief of Party.*

This form shall be prepared in accordance with Hydrographic Manual, Publication 20.2, Sec. 1-55, 2-39, 6-36, 7-18 to 22 inclusive, and Fig. 79. Positions of charted landmarks and *nonfloating aids* to navigation, if redetermined, shall be reported on this form. Revisions shall show both the old and new positions. The data should be considered for the charts of the area and not by individual field survey sheets. Information under each column heading should be given.

\* TABULATE SECONDS AND METERS

48. 666graphic Names List

Abalone Cove

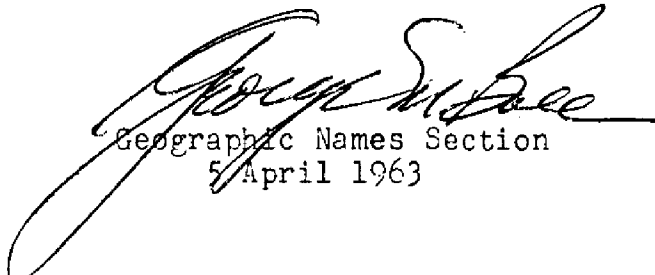
Long Point

Marineland

Marineland Cove

Point Vicente

San Pedro Channel

  
Geographic Names Section  
5 April 1963

Review Report  
Shoreline Maps  
T-11640 and T-11644 thru T-11646  
August 1963

61. General Statement

There are four (4) shoreline maps of project PH-5908, Long Beach to Laguna Beach, California. These maps were prepared primarily for the location of all nonfloating aids and landmarks for use in the revision of our Nautical Charts.

62. Comparison with Registered Topographic Surveys

T-4825	1:10,000	1933
T-4826	1:10,000	1933
T-5034A	1:10,000	1934

There are numerous major shoreline and cultural changes due to the time interval. These maps are to supersede the above surveys for common area for nautical charting.

63. Comparison with Maps of Other Agencies

San Pedro, Calif.	1:24,000	U.S.G.S.	1951
Redondo Beach, Calif.	1:24,000	U.S.G.S.	1951
Terrance, Calif.	1:24,000	U.S.G.S.	1951

There are cultural and shoreline changes due to the difference in survey dates.

64. Comparison with Contemporary Hydrographic Surveys

None

65. Comparison with Nautical Charts

5142	1:80,000	Nov. 1960	Revised Dec. 1962
5147	1:18,000	Feb. 1963	
5148	1:12,000	Feb. 1963	

Differences exist. However, there are no items to be applied immediately.

## 66. Adequacy of Results and Future Surveys

These maps comply with the National Map Accuracy Standards and meet Bureau requirements.

Reviewed by:

L. C. Lande  
L. C. Lande

Approved by:

Charles L. Linn  
Chief, Cartographic Branch

Louise G. Taylor  
Chief, Nautical Charts Division

J. E. Waugh 9/10/63  
Chief, Photogrammetry Division

Harold S. Conely  
Chief, Operations Division

