

11870

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 6011 Office No. T-11870

LOCALITY

State CALIFORNIA

General locality DANA POINT TO MISSION BAY

Locality OCEANSIDE

1960 - 1962

CHIEF OF PARTY

FRED NATELBA, PHOTOGRAMMETRIC OFFICE

LIBRARY & ARCHIVES

DATE \_\_\_\_\_

USCOMM-DC 5087

11870

DESCRIPTIVE REPORT - DATA RECORD  
T - 11870

PROJECT NO. (II):  
21033

FIELD OFFICE (III): OCEANSIDE, CALIFORNIA  
CHIEF OF PARTY: FRED NATELLA  
UNIT CHIEF: R. B. MELBY

PHOTOGRAMMETRIC OFFICE (III): PORTLAND, OREGON  
OFFICER-IN-CHARGE: FRED NATELLA

INSTRUCTIONS DATED (II) (III): 20 Dec. 1960  
AMENDMENT I: 31 Aug. 1961 II, III  
AMENDMENT I: 25 APRIL 1963 III  
AMENDMENT II: 1 Oct. 1963 III

METHOD OF COMPILATION (III):  
KELSH INSTRUMENT

MANUSCRIPT SCALE (III): 1:10,000  
STEREOSCOPIC PLOTTING INSTRUMENT SCALE (III): 1:6000  
PANTOGRAPH SCALE: 1:10,000

DATE RECEIVED IN WASHINGTON OFFICE (IV):  
DATE REPORTED TO NAUTICAL CHART BRANCH (IV):

APPLIED TO CHART NO.:  
DATE:  
DATE REGISTERED (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):  
SANTA MARGARITA RIVER, 1887

LAT.: 33° 14' 12.112"  
LONG.: 117° 25' 07.038"  
 ADJUSTED  
 UNADJUSTED

PLANE COORDINATES (IV):  
y = 391,323.55 x = 1,642,670.69  
STATE: CALIFORNIA  
ZONE: VI

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.

## DESCRIPTIVE REPORT - DATA RECORD

FIELD INSPECTION BY (II):  R. B. MELBY		DATE: SEPT. 1961 - MARCH 1962
MEAN HIGH WATER LOCATION (III) (STATE DATE AND METHOD OF LOCATION):  NOVEMBER - DECEMBER 1961 BY FIELD INSPECTION. COMPILATION BY KELSH INSTRUMENT.		
PROJECTION AND GRIDS RULED BY (IV):  A.R.		DATE 4-12-63
PROJECTION AND GRIDS CHECKED BY (IV):  L.F.B.		DATE 4-15-63
CONTROL PLOTTED BY (III):  R. H. MEYER		DATE 4-19-63
CONTROL CHECKED BY (III):  D. N. WILLIAMS		DATE 4-19-63
RADIAL PLOT OR STEREOSCOPIC CONTROL EXTENSION BY (III):  HENRY P. EICHERT		DATE APRIL 1963
STEREOSCOPIC INSTRUMENT COMPILATION (III):	PLANIMETRY  D. N. WILLIAMS	DATE 6-7-63
	CONTOURS	DATE
MANUSCRIPT DELINEATED BY (III): SMOOTH DRAFT: D. N. WILLIAMS		DATE 10-22-63
SCRIBING BY (III): STICK-UP: J. L. HARRIS		DATE 12-13-63
PHOTOGRAMMETRIC OFFICE REVIEW BY (III): ROUGH DRAFT: J. L. HARRIS ADVANCE: J. L. HARRIS		DATE 7-27-63 1-15-64
REMARKS:		

## DESCRIPTIVE REPORT - DATA RECORD

CAMERA (KIND OR SOURCE) (III):

C&amp;GS SINGLE LENS "S"

## PHOTOGRAPHS (III)

NUMBER	DATE	TIME	SCALE	STAGE OF TIDE
60 S 524A THRU 526A	9-2-60	10:35	1:30,000	2.4' ABOVE M.L.L.W.
60 S 436A THRU 439A	"	09:20	1:20,000	3.2' " "
RATIO PRINTS OF ABOVE AT 1:10,000				
COMPUTED FROM PRE- DICTED TIDE TABLES.				

## TIDE (III)

		RATIO OF RANGES	MEAN RANGE	<u>D</u> JOURNAL RANGE
REFERENCE STATION:	SAN DIEGO, CALIFORNIA		4.2	5.8
SUBORDINATE STATION:	SAN CLEMENTE, CALIFORNIA		3.7	5.3
SUBORDINATE STATION:				
WASHINGTON OFFICE REVIEW BY (IV):		DATE:		
PROOF EDIT BY (IV):		DATE:		
NUMBER OF TRIANGULATION STATIONS SEARCHED FOR (II):	27	RECOVERED:	18	IDENTIFIED: 2
NUMBER OF BM(S) SEARCHED FOR (II):	NONE	RECOVERED:		IDENTIFIED
NUMBER OF RECOVERABLE PHOTO STATIONS ESTABLISHED (III):		NONE		
NUMBER OF TEMPORARY PHOTO HYDRO STATIONS ESTABLISHED (III):		NONE		

REMARKS:

FIELD INSPECTION REPORT

MAP MANUSCRIPT T-11870

PROJECT 21033

REFER TO THE FIELD INSPECTION REPORT BY ROBERT B. MELBY FOR  
T-11864 THRU T-11877, SEPTEMBER 1961 - MARCH 1962 INCLUDED WITH THE  
DESCRIPTIVE REPORT FOR T-11864.

## PHOTOGRAMMETRIC PLOT REPORT

MAP MANUSCRIPT T-11870

PROJECT 21033

REFER TO THE PHOTOGRAMMETRIC PLOT REPORT No. 1 BY HENRY P. EICHERT, APRIL, 1963, AND INCLUDED WITH THE DESCRIPTIVE REPORT A FOR T-11864.

MAP T. 11870 PROJECT NO. 21033 SCALE OF MAP 1:10,000 SCALE FACTOR VI

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)	FORWARD	(BACK)	FORWARD	(BACK)
CAMP PENDLETON WATER TANK, 1956	P-96	N.A. 1927	390,647.74 1,657,291.60								
JUNCTION, 1933	P-91	"	392,184.01 1,642,093.14								
OCEANSIDE, ROSICRU- CIAN BLDG., DOME, FINIAL, 1933	P-97	"	382,021.94 1,660,946.75								
OCEANSIDE	P-91	"	392,616.64								
SOUTH BASE, 1933			1,645,028.31								
PIER, 1933	P-97	"	375,688.55 1,653,164.74								
SANTA MARGARITA RIVER, 1887	P-97	"	391,323.55 1,642,670.69								
SAN LUIS, 2, 1950	P-97	"	378,517.63 1,655,260.09								
CAMP DEL MAR OUTER BREAKWATER LIGHT 1, 1961	OFFICE COMP.	"	380,179.08 1,647,640.39								
CAMP DEL MAR INNER BREAKWATER LIGHT 6, 1961	"	"	382,172.87 1,647,420.51								
CAMP DEL MAR, NORTHGRO IN LIGHT 9, 1961	"	"	383,397.94 1,647,544.18								90
CAMP DEL MAR, SOUTH GRO IN LIGHT 10, 1961	"	"	382,907.08 1,647,868.41								
TULEY, 1961	"	"	391,381.94 1,657,162.22								

MAP T-11870 PROJECT NO. 21033 SCALE OF MAP 1:10,000 SCALE FACTOR VI

STATION	SOURCE OF INFORMATION (INDEX)	DATUM	LATITUDE OR $\psi$ -COORDINATE LONGITUDE OR $x$ -COORDINATE	DISTANCE FROM GRID IN FEET, OR PROJECTION LINE IN METERS		N.A. 1927 - DATUM		FACTOR DISTANCE	
				FORWARD	(BACK)	FROM GRID OR PROJECTION LINE IN METERS	(BACK)	FROM GRID OR PROJECTION LINE IN METERS	FORWARD (BACK)
OCEANSIDE HARBOR TURNING BAS IN LIGHT, 1962	OFFICE COMP.	N.A. 1927	361,060.90 1,649,802.18						
OCEANSIDE HARBOR, ENTRANCE, SOUTH JETTY LIGHT 2, 1962	"	"	380,381.02 1,648,686.08						
OCEANSIDE, AIRWAY BEACON, 1961	"	"	388,756.54 1,648,363.71						
VORTAC, OCEANSIDE OCN, 1961	"	"	392,736.39 1,643,228.95						
SHELLY (USN) 1961	"	"	391,370.22 1,657,170.25						
									10.



COMPILATION REPORT  
MAP MANUSCRIPT T-11870  
PROJECT 21033

31. DELINEATION:

REFER TO THE COMPILATION REPORT FOR T-11864. THE AREA NORTH AND EAST OF CAMP DEL MAR BOAT BASIN, DEVELOPED SINCE THE PHOTOGRAPHY DATE, WAS DELINEATED FROM PLANS FURNISHED BY CAMP PENDLETON MARINE CORPS BASE. OCEANSIDE HARBOR, UNDER CONSTRUCTION AT THE TIME OF PHOTOGRAPHY, WAS DRAWN BY PROJECTING PLANS OF THIS FEATURE TO THE MANUSCRIPT.

32. CONTROL:

REFER TO THE COMPILATION REPORT FOR T-11864.

33. SUPPLEMENTAL DATA:

MAP OF CITY OF OCEANSIDE  
PLAN OF OCEANSIDE HARBOR (2 SHEETS)  
PLAN OF CAMP DEL MAR (4 SHEETS) FROM THE PUBLIC WORKS OFFICE,  
CAMP PENDLETON MARINE CORPS BASE

34.. CONTOURS AND DRAINAGE:

REFER TO THE COMPILATION REPORT FOR T-11864.

35. SHORELINE AND ALONGSHORE DETAILS:

REFER TO THE COMPILATION REPORT FOR T-11864. THE SOUTH JETTY AT OCEANSIDE HARBOR AND THE SHORELINE TO THE SOUTH WERE LOCATED BY SEXTANT FIXES AS SHOWN ON THE REVERSE OF 60 S 438A.

36. OFFSHORE DETAILS:

NONE.

37. LANDMARKS AND AIDS:

SIX NONFLOATING AIDS, ONE LANDMARK AND TWO AERONAUTICAL AIDS ARE SHOWN. FORMS 567 ARE SUBMITTED.

38. CONTROLS FOR FUTURE SURVEYS:

NONE.

39. JUNCTIONS:

SATISFACTORY JUNCTIONS WERE MADE WITH T-11869 TO THE NORTH AND WITH T-11871 TO THE SOUTH. THERE IS NO CONTEMPORARY SURVEY TO THE EAST. THE PACIFIC OCEAN IS ON THE WEST.

40. HORIZONTAL AND VERTICAL ACCURACY:46. COMPARISON WITH EXISTING MAPS:

COMPARISON WAS MADE WITH THE U.S.G.S.  $7\frac{1}{2}$  MINUTE OCEANSIDE, CALIFORNIA QUADRANGLE, SCALE 1:24,000, EDITION 1947, AND WITH THE U.S.G.S.  $7\frac{1}{2}$  MINUTE SAN LUIS REY, CALIFORNIA QUADRANGLE, SCALE 1:24,000 EDITION 1948.

47. COMPARISON WITH NAUTICAL CHARTS:

COMPARISON WAS MADE WITH NAUTICAL CHART 5101, SCALE 1:234,270 AT LAT.  $33^{\circ} 20'$ , 5TH EDITION, JAN. 6, 1947, REVISED 5-18-59.

ITEMS TO BE APPLIED TO NAUTICAL CHARTS IMMEDIATELY:

NONE.

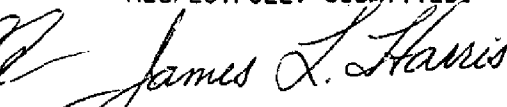
ITEMS TO BE CARRIED FORWARD:

NONE.

APPROVED:

  
 FRED NATELLA, CAPT, C&GS  
 PORTLAND DISTRICT OFFICER

RESPECTFULLY SUBMITTED:

  
 JAMES L. HARRIS  
 CARTOGRAPHER

48. GEOGRAPHIC NAME LIST:

THE GEOGRAPHIC NAMES ON THIS MANUSCRIPT ARE LISTED BELOW AND WERE FURNISHED BY THE WASHINGTON OFFICE ON A FINAL NAME SHEET, A COPY OF THE U.S.G.S. OCEANSIDE, CALIFORNIA 7½ MINUTE QUADRANGLE, SCAEL 1:24,000, EDITION 1947.

CAMP DEL MAR  
· CAMP DEL MAR BOAT BASIN  
FALLBROOK JUNCTION  
· GULF OF SANTA CATALINA  
OCEANSIDE  
\* OCEANSIDE HARBOR *OKajw*  
PACIFIC OCEAN  
SAN LUIS REY RIVER  
SANTA MARGARITA LAGOON  
· SANTA MARGARITA RIVER

\* THIS NAME WAS TAKEN FROM PLANS-USED TO DELINEATE THIS FEATURE ON THE MANUSCRIPT.

*Names approved  
8-3-65  
A.J. Wraight*

49. NOTES FOR THE HYDROGRAPHER:

NONE.

PHOTOGRAMMETRIC OFFICE REVIEW

T-16365 11870

1. PROJECTION AND GRIDS ✓	2. TITLE ✓	3. MANUSCRIPT NUMBERS ✓	4. MANUSCRIPT SIZE ✓
<b>CONTROL STATIONS</b>			
5. HORIZONTAL CONTROL STATIONS OF THIRD-ORDER OR HIGHER ACCURACY ✓	6. RECOVERABLE HORIZONTAL STATIONS OF LESS THAN THIRD-ORDER ACCURACY (Topographic stations) None		7. PHOTO HYDRO STATIONS None
8. BENCH MARKS None	9. PLOTTING OF SEXTANT FIXES None	10. PHOTOGRAMMETRIC PLOT REPORT ✓	11. DETAIL POINTS None
<b>ALONGSHORE AREAS (Nautical Chart Data)</b>			
12. SHORELINE ✓	13. LOW-WATER LINE None	14. ROCKS, SHOALS, ETC. None	15. BRIDGES ✓
16. AIDS TO NAVIGATION ✓	17. LANDMARKS ✓	18. OTHER ALONGSHORE PHYSICAL FEATURES ✓	19. OTHER ALONGSHORE CULTURAL FEATURES ✓
<b>PHYSICAL FEATURES</b>			
20. WATER FEATURES ✓		21. NATURAL GROUND COVER ✓	22. PLANETABLE CONTOURS Not Applicable
23. STEREOSCOPIC INSTRUMENT CONTOURS Not Applicable	24. CONTOURS IN GENERAL Not Applicable	25. SPOT ELEVATIONS None	26. OTHER PHYSICAL FEATURES ✓
<b>CULTURAL FEATURES</b>			
27. ROADS ✓	28. BUILDINGS ✓	29. RAILROADS ✓	30. OTHER CULTURAL FEATURES ✓
<b>BOUNDARIES</b>			
31. BOUNDARY LINES ✓		32. PUBLIC LAND LINES None	
<b>MISCELLANEOUS</b>			
33. GEOGRAPHIC NAMES ✓		34. JUNCTIONS ✓	35. LEGIBILITY OF THE MANUSCRIPT ✓
36. DISCREPANCY OVERLAY None	37. DESCRIPTIVE REPORT ✓	38. FIELD INSPECTION PHOTOGRAPHS ✓	39. FORMS ✓
40. REVIEWER <i>James L Harris</i>		SUPERVISOR, REVIEW SECTION OR UNIT	
41. REMARKS (See attached sheet)			
<b>FIELD COMPLETION ADDITIONS AND CORRECTIONS TO THE MANUSCRIPT</b>			
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			

Review Report  
Shoreline Maps  
T-11870 through T-11877  
August 1965

61. General Statement

Area- The project encompasses the California Coast from Dana Point to Mexico.

Purpose- The purpose of this project is to provide shoreline maps for our nautical and aero-nautical charting program.

62. Comparison with Registered Topographic Surveys

T-5374	1:10,000	1934
T-5375	1:10,000	1934
T-5410	1:10,000	1934
T-5411	1:10,000	1934
T-5412	1:10,000	1934
T-5413	1:10,000	1934

There are cultural and shoreline differences due, in the most part, to the time interval.

63. Comparison with Maps of Other Agencies

Oceanside	1:24,000	1947
San Luis Rey	1:24,000	1948
Encinitas	1:24,000	1948
Del Mar	1:24,000	1953
La Jolla	1:24,000	1953

Due to new construction there are cultural and shoreline differences.

64. Comparison with Contemporary Hydrographic Surveys

None

65. Comparison with Nautical Charts

5101	1:234,270	1965
5107	1:20,000	1964

See item 47

66. Adequacy of Results and Future Surveys

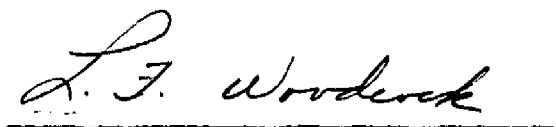
These maps were prepared according to project instructions and are of standard map accuracy.

Reviewed by:

  
D. C. Lande

Approved by:

  
Chief, Photogrammetric Branch

  
Chief, Photogrammetry Division

Chief, Nautical Chart Division





**NONFLOATING AIDS ~~RECOMMENDED~~ FOR CHARTS**

TO BE CHARTED  
~~RECOMMENDED~~  
~~RECOMMENDED~~ } STRIKE OUT TWO

PORTLAND, OREGON 15 JAN. 19 64

I recommend that the following objects which have ~~(been)~~ been inspected from seaward to determine their value as landmarks be charted on ~~(the)~~ the charts indicated.

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

STATE	CHARTING NAME	DESCRIPTION	SIGNAL NAME	POSITION						METHOD OF LOCATION AND SURVEY NO.	DATE OF LOCATION	NEARBY CHART	INSHORE CHART	OFFSHORE CHART	CHARTS AFFECTED
				LATITUDE*		LONGITUDE*		DATUM							
				° ' "	D.M. METERS	° ' "	D.P. METERS								
CALIFORNIA															
		OCEANSIDE HARBOR, ENTRANCE.	No. LL	33 12	24.511	117 23	54.802	N.A.	TRIANG.	2-20-62			X	5101	
		SOUTH JETTY LIGHT 2, 1962	NUMBER		735.1		1419.3	1927							
		OCEANSIDE HARBOR TURNING	"	33 12	31.359	117 23	41.755	"	"	3-2-62			X	5101	
		BASIN LIGHT, 1962			966.1		1081.5	"	"						
		CAMP DEL MAR	LL 67	33 12	22.399	117 24	07.082	"	"	11-27-61			X	5101	
		OUTER BREAKWATER, LIGHT 1, 1961			680.0		183.4	"	"						
		CAMP DEL MAR	LL 67.5	33 12	42.101	117 24	09.930	"	"				X	5101	
		INNER BREAKWATER, LIGHT 6, 1961			1297.0		257.2	"	"						
		CAMP DEL MAR	LL 68	33 12	54.235	117 24	08.633	"	"				X	5101	
		NORTH GROIN LIGHT 9, 1961			1670.8		223.6	"	"						
		CAMP DEL MAR	LL 68.5	33 12	49.414	117 24	04.753	"	"				X	5101	
		SOUTH GROIN LIGHT 10, 1961			1522.3		123.1	"	"						

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

**AERONAUTICAL  
NONFLIGHTING AIDS OBSOLETE MARKS FOR CHARTS**

TO BE CHARTED  
~~TO BE CHARTED~~  
~~TO BE CHARTED~~ } STRIKE OUT TWO

PORTLAND, OREGON 15 JAN. 19 64

I recommend that the following objects which have ~~(insert name)~~ been inspected from seaward to determine their value as landmarks be charted on ~~(insert name)~~ the charts indicated.  
The positions given have been checked after listing by J. L. HARRIS

CHARTING NAME	STATE	CALIFORNIA	DESCRIPTION	SIGNAL NAME	POSITION					METHOD OF LOCATION AND SURVEY NO.	DATE OF LOCATION	CHARTS AFFECTED		
					LATITUDE *		LONGITUDE *		DATUM			HARBOR CHART	INSHORE CHART	OFFSHORE CHART
					°	'	°	'						
VORTAC			VORTAC, OCEANSIDE, OCN., 1961 HT=38' (86')		33 14	26.152	805.7	117 25	100.652	N.A.	TRIANG. 11-27-61			WAC (404)
AIRWAY BEACON			OCEANSIDE, AIRWAY BEACON, 1961 HT=76' (96')		33 13	47.341	1453.4	117 23	59.685	"	"			"

FRED MAYELLA 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 nonflashing 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

RECORD OF APPLICATION TO CHARTS

FILE WITH DESCRIPTIVE REPORT OF SURVEY NO. T-11870

INSTRUCTIONS

A basic hydrographic or topographic survey supersedes all information of like nature on the uncorrected chart.

1. Letter all information.
2. In "Remarks" column cross out words that do not apply.
3. Give reasons for deviations, if any, from recommendations made under "Comparison with Charts" in the Review.

CHART	DATE	CARTOGRAPHER	REMARKS
5701	12/10/66	W. H. Hall	<del>Full</del> Part Before <del>After</del> Verification Review Inspection Signed Via
			Drawing No. <i>No correction</i>
5101	8/3/67	John P. Wein	<del>Full</del> Part Before After Verification Review Inspection Signed Via
			Drawing No.
			Full Part Before After Verification Review Inspection Signed Via
			Drawing No.
			Full Part Before After Verification Review Inspection Signed Via
			Drawing No.
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