

11872

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-11872

LOCALITY

State CALIFORNIA

General locality DANA POINT TO MISSION BAY

Locality LEUCADIA

1960-1962

CHIEF OF PARTY

FRED NATELLA

LIBRARY & ARCHIVES

DATE

USCOMM-DC 5087

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DESCRIPTIVE REPORT - DATA RECORD  
T-11872

PROJECT NO. (II):		21033	
FIELD OFFICE (II):		CHIEF OF PARTY	FRED NATELLA
OCEANSIDE, CALIFORNIA		UNIT CHIEF	R. B. MELBY
PHOTOGRAMMETRIC OFFICE (III):		OFFICER-IN-CHARGE	
PORTLAND, OREGON		FRED NATELLA	
INSTRUCTIONS DATED (II) (III): 20 Dec. 1960			
AMENDMENT I: 31 Aug. 1961 II, III			
AMENDMENT I: 25 Apr. 1963 III			
AMENDMENT II: 1 Oct. 1963 III			
METHOD OF COMPILATION (III):			
KELSH INSTRUMENT			
MANUSCRIPT SCALE (III):		STEREOSCOPIC PLOTTING INSTRUMENT SCALE (III): 1:6000	
1:10,000		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):		VERTICAL DATUM (III):	
N.A. 1927		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):			
POST, 1887			
LAT.:	LONG.:	<input checked="" type="checkbox"/> ADJUSTED	
33° 06' 36.761"	117° 19' 17.724"	<input type="checkbox"/> UNADJUSTED	
PLANE COORDINATES (IV):		STATE	ZONE
y = 344m986.07	x = 1,671,865.99	CALIFORNIA	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):  ROBERT B. MELBY		DATE: SEPT. 1961 - MARCH 1962
MEAN HIGH WATER LOCATION (iii) (STATE DATE AND METHOD OF LOCATION):  DECEMBER 1961 BY FIELD INSPECTION. COMPILATION BY KELSH INSTRUMENT.		
PROJECTION AND GRIDS RULED BY (iv):  A.R.		DATE 5-1-63
PROJECTION AND GRIDS CHECKED BY (iv):  L.F.B.		DATE 5-2-63
CONTROL PLOTTED BY (iii):  D. N. WILLIAMS		DATE 5-22-63
CONTROL CHECKED BY (iii):  R. H. MEYER		DATE 5-22-63
RADIAL PLOT OR STEREOSCOPIC CONTROL EXTENSION BY (iii):  HENRY P. EICHERT		DATE APRIL 1963
STEREOSCOPIC INSTRUMENT COMPILATION (iii):	PLANIMETRY  R. H. MEYER	DATE 6-13-63
	CONTOURS	DATE
MANUSCRIPT DELINEATED BY (iii): SMOOTH DRAFT: L. L. GRAVES		DATE 10-14-63
SCRIBING BY (iii): STICK-UP: J. L. HARRIS		DATE 12-4-63
PHOTOGRAMMETRIC OFFICE REVIEW BY (iii): ROUGH DRAFT: L. L. GRAVES ADVANCE: J. L. HARRIS		DATE 10-14-63 1-17-64
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 513A THRU 517A	9-2-60	10:20	1:30,000	2.5' ABOVE M.L.L.W.
60 S 519A THRU 521A	"	10:35	"	2.4' " "
60 S 444A AND 445A	"	09:20	1:20,000	3.4' " "
60 S 453A THRU 456A	"	09:35	"	3.2' " "
RATIO PRINTS OF ABOVE AT 1:10,000				
COMPUTED FROM PRE- DICTED TABLES.				

## TIDE (III)

	RATIO OF RANGES	MEAN RANGE	DAILY 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): 7	RECOVERED: 4	IDENTIFIED: 1	
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-11872

PROJECT 21033

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

PHOTOGRAMMETRIC PLOT REPORT

MAP MANUSCRIPT T-11872

PROJECT 21033

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



COMPILATION REPORT  
MAP MANUSCRIPT T-11872  
PROJECT 21033

31. DELINEATION:

REFER TO THE COMPILATION REPORT FOR T-11864. LIMITS OF COMPILATION AS FURNISHED BY THE WASHINGTON OFFICE ON A COPY OF NAUTICAL CHART 5101, INDICATED THAT BATIQUITOS LAGOON SHOULD BE INCLUDED IN THE PROJECT. A MAJOR PORTION OF THIS FEATURE IS LOCATED EAST OF THE LIMITS OF THIS MANUSCRIPT AND WAS DELINEATED ON A SHEET OF CLEAR VINYLITE.

32. CONTROL:

REFER TO THE COMPILATION REPORT FOR T-11864.

33. SUPPLEMENTAL DATA:

MAP OF LA COSTA BEACH STATE PARK  
MAP OF PONTO BEACH STATE PARK

ITEMS 34 AND 35:

REFER TO THE COMPILATION REPORT FOR T-11864.

36. OFFSHORE DETAILS:

NONE.

37. LANDMARKS AND AIDS:

NONE.

38. CONTROLS FOR FUTURE SURVEYS:

NONE.

39. JUNCTIONS:

SATISFACTORY JUNCTIONS WERE MADE WITH T-11871 TO THE NORTH AND WITH T-11873 TO THE SOUTH. THE PACIFIC OCEAN IS ON THE WEST. THERE IS NO CONTEMPORARY SURVEY ON THE EAST.

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

COMPARISON WAS MADE WITH THE U.S.G.S. 7½ MINUTE ENCINATAS, 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° 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. ENCINITAS, CALIFORNIA 7½ MINUTE QUADRANGLE, SCALE 1:24,000, EDITION 1948.

- BATIQUITOS LAGOON
- CANYON DE LOS ENCINAS
- CARLSBAD
- GULF OF SANTA CATALINA
- \* LA COSTA BEACH STATE AND COUNTY PARK *OK a/w*
- LEUCADIA
- PACIFIC OCEAN
- PONTO
- \* PONTO BEACH STATE PARK *OK-a/w*

- \* THESE NAMES OBTAINED FROM MAPS OF THESE FEATURES.  
ALSO REFER TO THE GEOGRAPHIC NAMES REPORT - PART I  
DANA POINT TO MISSION BAY.

*Names checked & approved*

*8-3-65*

*A. J. Wright*

49. NOTES FOR THE HYDROGRAPHER:

NONE.

PHOTOGRAMMETRIC OFFICE REVIEW

T-48303 11872

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 None	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 ✓	37. DESCRIPTIVE REPORT ✓	38. FIELD INSPECTION PHOTOGRAPHS ✓	39. FORMS ✓
40. REVIEWER  L. L. Brown		SUPERVISOR, REVIEW SECTION OR UNIT	
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			

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:

Lester C. Lande  
L. C. Lande

Approved by:

Charles L. Linn  
Chief, Photogrammetric Branch

L. F. Woodcock  
Chief, Photogrammetry Division

Chief, Nautical Chart Division

