

11659

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. 11659

LOCALITY

State California

General locality Point Vicente to Dana Point

Locality Dana Point

1959-1961

CHIEF OF PARTY

Fred Metella, CAPT., CGCS

LIBRARY & ARCHIVES

DATE Sept. 1963

USCOMM-DC 5087

11659

DESCRIPTIVE REPORT - DATA RECORD

T - 11659

Project No. (II): PH-5908 Quadrangle Name (IV):

Field Office (II): SANTA ANA, CALIFORNIA

Chief of Party: FRED NATELLA

Unit Chief: Charles H. Bishop

Photogrammetric Office (III): PORTLAND, OREGON

Officer-in-Charge: FRED NATELLA

Instructions dated (II) (III): II, III 6 January 1960

Copy filed in Division of

II, III 13 April 1960 (Amendment I)

Photogrammetry (IV)

Method of Compilation (III): KELSH 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):

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): X

Mean sea level except as follows:

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): DANA POINT, 1884

Lat.: 33° 27' 51.097"

Long.: 117° 42' 30.169"

Adjusted X
Unadjusted

Plane Coordinates (IV):

State: CALIFORNIA Zone: VI

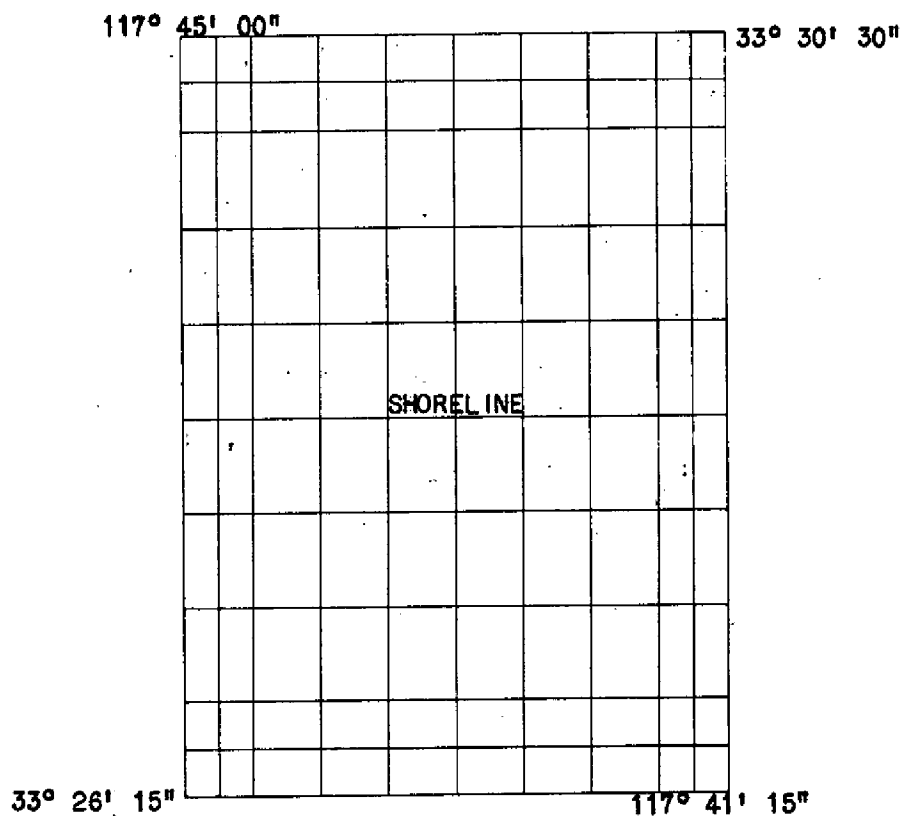
Y= 475,206.44

X= 1,555,234.17

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



Areas contoured by various personnel
(Show name within area)
(II) (III)

DESCRIPTIVE REPORT - DATA RECORD

Field Inspection by (II): Charles H. Bishop, Robert B. Melby
Lyle L. Riggers

Date: February 1961

Planetable contouring by (II):

Date:

Completion Surveys by (II):

Date:

Mean High Water Location (III) (State date and method of location): BY FIELD INSPECTION FEB. 1961
AND BY KELSH INSTRUMENT.

Projection and Grids ruled by (IV): R.A.C.

Date: 10-5-60

Projection and Grids checked by (IV): J.D.C.

Date: 10-12-60

Control plotted by (III): C. H. BISHOP

Date: 10-24-61

Control checked by (III): L. L. GRAVES

Date: 11-6-61

Radial Plot or Stereoscopic
Control extension by (III):

R. E. FUESCHEL

Date: Oct. 1960

Stereoscopic Instrument compilation (III):

Planimetry D. N. WILLIAMS

Date: 2-26-62

Contours

Date:

Manuscript delineated by (III):

C. H. BISHOP, SCRIBING
C. C. HARRIS, STICK-UP

Date: 6-27-62
10-23-62

Photogrammetric Office Review by (III):

J. L. HARRIS, ROUGH DRAFT
J. L. HARRIS, ADVANCE

Date: 4-18-62
11-27-62

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"

		PHOTOGRAPHS (III)			
Number	Date	Time	Scale	Stage of Tide	
59 S 8231 THRU 8233	10-3-59	11:39	1:30,000	0.5' BELOW M.H.W..	
59 S 8248 THRU 8251	"	12:00	"	1.0 " "	

RATIO PRINTS OF ABOVE - SCALE 1:10,000

Tide (III)

Reference Station: LOS ANGELES, CALIFORNIA
Subordinate Station: BALBOA, (OCEAN PIER)
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): 5
Shoreline (More than 200 meters to opposite shore) (III): 6
Shoreline (Less than 200 meters to opposite shore) (III):
Control Leveling - Miles (II):
Number of Triangulation Stations searched for (II): 14 Recovered: 12 Identified: 2*
Number of BMs searched for (II): 0 Recovered: 0 Identified: 0
Number of Recoverable Photo Stations established (III): 1
Number of Temporary Photo Hydro Stations established (III): NONE

DIURNAL		
Ratio of Ranges	Mean Range	Spring Range
	3.8	5.4
	3.7	5.3

Date:

Date:

Date:

Date:

Remarks: *Both stations are east of the project limit but were identified for control.

FIELD INSPECTION REPORT

Map Manuscript T-11659

Project Ph-5908

Refer to Field Inspection Report for map manuscripts T-11655, T-11656, T-11657, T-11658 and T-11659, Project Ph-5908, February - March 1961, by Charles H. Bishop and Robert B. Melby.

Filed with Desc. Report T-11655

PHOTOGRAMMETRIC PLOT REPORT

MAP MANUSCRIPT T-11659

PROJECT PH-5908

REFER TO THE PHOTOGRAMMETRIC PLOT REPORT FOR THE ENTIRE
PROJECT PH-5908 BY ROBERT E. FUESCHEL, OCTOBER, 1960.

Refer to Desc. Report T-11640

U.S. DEPARTMENT OF COMMERCE
COAST AND GEODETIC SURVEY
DESCRIPTIVE REPORT
TOL RECORD

MAP T. 11659

PROJECT NO. PM-5908

SCALE OF MAP 1:10,000

SCALE FACTOR None

STATION	SOURCE OF INFORMATION (INDEX)	DATUM	LATITUDE OR ψ -COORDINATE LONGITUDE OR λ -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
DANA PT. DANA VILLA AUTO CAMP TOWER, 1933	P-94	N.A. 1927	475,334.00	334.00 (4666.00)		101.8 (1422.2)	EAST OF PROJECT
SUB STA.	OFFICE COMP.	"	475,492.53	492.53 (4507.47)		150.1 (1373.9)	"
			1,561,761.21	1761.21 (3238.79)		536.8 (987.2)	"
DANA POINT, RICHFIELD TOWER 1932	P-94	"	475,209.56	209.56 (4790.44)		63.8 (1460.1)	"
HIGHER OF TWO			1,562,660.48	2660.48 (2339.52)		810.9 (713.1)	"
BLACK WATER TANKS E. OF DANA PT. 1933	P-94	"	476,157.47	1157.47 (3842.53)		352.9 (1171.2)	"
CHIMNEY, HOUSE NORTH OF MUSSEL COVE, 1933	P-93	"	1,564,156.59	4156.59 (843.41)		1266.9 (257.1)	"
			488,010.60	3010.60 (1989.40)		917.6 (806.4)	"
			1,545,052.75	52.75 (4947.25)		16.1 (1507.9)	"
DANA POINT, 1884	P-55	"	475,206.44	206.44 (4793.56)		62.9 (1461.1)	"
GREEN WATER TANK			1,555,234.17	234.17 (4765.83)		71.4 (1452.6)	"
N.E. OF DANA POINT, 1933	P-93	"	478,212.00	4212.00 (788.00)		1283.8 (240.2)	"
			1,559,752.13	4752.13 (247.87)		1448.4 (75.6)	"
JUAN, 1933	P-91	"	478,341.95	3341.95 (1658.05)		1018.6 (505.4)	"
			1,552,551.07	2551.07 (2448.93)		777.6 (746.4)	"
LIGHTHOUSE TYPE HOUSE, TOWER 1933	P-93	"	485,410.13	410.13 (4589.87)		125.0 (1399.0)	"
			1,546,574.34	1574.34 (3425.66)		479.9 (1044.1)	"
MUSSEL COVE 2, 1933	P-90	"	484,260.15	4250.15 (749.85)		1295.4 (228.6)	"
			1,546,789.96	1789.96 (3210.04)		545.6 (978.4)	"
SAN, 1933	P-91	"	473,884.46	3884.46 (1115.54)		1184.0 (340.0)	"
			1,554,304.75	4304.75 (695.25)		1312.1 (211.9)	"
SOUTH MIGUEL, 1884	P-90	"	487,551.42	2451.42 (2548.58)		747.2 (776.8)	"
			1,547,963.55	2963.55 (2036.45)		903.3 (620.7)	"

1 FT. = 3048006 METER

COMPUTED BY:
J.L.H.
C.H.B.

DATE

3-11-60
10-11-61CHECKED BY:
D.N.W.
J.E.D.

DATE

3-11-60
10-13-61

COMM. DC-57843

SCALE FACTOR

1 FT. 3048006 METER	COMPUTED BY: C.H.B.	DATE 10-11-61	CHECKED BY: J.E.D.	DATE 10-13-61	COMM. DC-57843
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COMPILATION REPORT
MAP MANUSCRIPT T-11659
PROJECT PH-5908

31. DELINEATION:

COMPILATION WAS BY KELSH INSTRUMENT.

32. CONTROL:

SUPPLEMENTARY CONTROL ESTABLISHED BY STEREOPLANIGRAPH BRIDGING BASED ON IDENTIFIED HORIZONTAL CONTROL STATIONS WAS ADEQUATE.

33. SUPPLEMENTAL DATA:

SHEET NO. 49W AND SHEET NO. 52, ORANGE COUNTY
SCALE 1 INCH = 600 FEET.

34. CONTOURS AND DRAINAGE:

CONTOURS ARE NOT APPLICABLE.

DRAINAGE WAS COMPILED AS FIELD INSPECTED AND IS IN GOOD AGREEMENT WITH THE U.S.G.S. QUADRANGLE.

35. SHORELINE AND ALONGSHORE DETAILS:

AS NO LOW-WATER PHOTOGRAPHY WAS FURNISHED, THE HIGH-WATER LINE ONLY WAS DELINEATED AS FIELD INSPECTED. THE ROCK LEDGE AND FOUL AREAS HAVE BEEN SYMBOLIZED ON THE MANUSCRIPT IN ACCORDANCE WITH THE FIELD INSPECTION. ELEVATIONS FOR NUMEROUS ROCKS ALONGSHORE WERE FURNISHED BY THE FIELD UNIT FOR THE TIME OF FIELD INSPECTION AND THESE DATA WERE COVERED IN THE COMPILATION OFFICE TO THE VERTICAL DATUM OF THE MANUSCRIPT.

36. OFFSHORE DETAILS:

NONE.

37. LANDMARKS AND AIDS:

ONE LANDMARK WAS IDENTIFIED AND LOCATED BY THE KELSH INSTRUMENT.

FORM 567 IS SUBMITTED.

38. CONTROL FOR FUTURE SURVEYS:

NONE.

39. JUNCTIONS:

SATISFACTORY JUNCTION WAS MADE WITH T-11658 TO THE NORTH. THE GULF OF SANTA CATALINA IS TO THE WEST AND SOUTH. THERE IS NO CONTEMPORARY SURVEY TO THE EAST.

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

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

47. COMPARISON WITH NAUTICAL CHARTS:

COMPARISON WAS MADE WITH:

NAUTICAL CHART 5101, SCALE 1:234,200 AT LAT 33° 20',
5TH ED. JAN. 6, 1947, REVISED MAY 18, 1959.

NAUTICAL CHART 5142, SCALE 1:80,000 AT LAT. 33° 31',
1ST ED. MARCH 5, 1951, REVISED NOV. 9, 1959.

ITEMS TO BE APPLIED TO NAUTICAL CHARTS IMMEDIATELY:

NONE.

ITEMS TO BE CARRIED FORWARD:

NONE.

APPROVED:

RESPECTFULLY SUBMITTED:

Fred Natella *James L. Harris*
FRED NATELLA, CAPT, C&GS JAMES L. HARRIS
PORTLAND DISTRICT OFFICER CARTOGRAPHER

49. NOTES FOR THE HYDROGRAPHER:

NONE.

PHOTOGRAMMETRIC OFFICE REVIEW

T-1003 11659

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) None		7. PHOTO HYDRO STATIONS None
8. BENCH MARKS None	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 None	14. ROCKS, SHOALS, ETC. X	15. BRIDGES None
16. AIDS TO NAVIGATION None	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 None	30. OTHER CULTURAL FEATURES X
BOUNDARIES			
31. BOUNDARY LINES None		32. PUBLIC LAND LINES X	
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	
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			

48. Geographic Names List

Canistrano Bight

Dana Cove

Dana Point

Dana Point (town)

Doheny Beach State Park

Gulf of Santa Catalina

Pobars Cove

Salt Creek

San Juan Capistrano Anchorage

San Juan Rock

South Laguna

Three Arch Bay

Three Arch Bay (town)

(was MUSSEL COVE) - *EMB*
11-25-63

George M. Bee
Geographic Names Section
4 April 1963

Review Report
Shoreline Maps
T-11655 thru T-11659
May 1963

61. General Statement

These are five (5) shoreline maps of project FM-5908 Long Beach to Laguna Beach, California. These maps were prepared primarily for the location of all non-floating aids and landmarks for use in the revision of our nautical charts.

62. Comparison with Registered Topographic Surveys

T-5030A	1:10,000	1934
T-5417	1:10,000	1934
T-5418	1:10,000	1934

There are cultural and shoreline differences but in general, the agreement is good. There are some offshore rock and ledge differences. These should be reconciled when the hydrographic surveys are made.

63. Comparison with Maps of Other Agencies

Dana Point, Calif.	1:24,000	U.S.G.S.	1948
Laguna Beach, Calif.	1:24,000	U.S.G.S.	1948
San Juan Capistrano, Calif.	1:24,000	U.S.G.S.	1948

See Item 46.

64. Comparison with Contemporary Hydrographic Surveys - None

65. Comparison with Nautical Charts

5108	1:10,000	1940 revised to March 1961	?
5142	1:80,000	1960 revised to Dec. 1962	

There are some small rock and ledge differences between the charts and the manuscripts.

66. Adequacy of Results and Nature Surveys

These surveys were prepared according to project instructions and are within the required accuracy for Nautical Charting.

Reviewed by:

L. C. Lande
L. C. Lande

Approved by:

Charles L. Luman
Chief, Cartographic Branch

Louis G. Taylor
Chief, Nautical Chart Division

J. E. W. 8/13/63
Chief, Photogrammetry Div.

W. J. W. & Conner
Chief, Operations Division

