

11657

3

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-11657

LOCALITY

State CaliforniaGeneral locality Point Vicente to Dana PointLocality Laguna Beach1959-1961

CHIEF OF PARTY

Fred Natella, CAPT., C&GS

LIBRARY & ARCHIVES

DATE Sept. 1963

USCOMM-DC 5087

11657

DESCRIPTIVE REPORT - DATA RECORD

T- 11657

Project No. (II): PH-5908

Quadrangle Name (IV):

Field Office (II): ^A 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): CACTUS POINT, 2, 1933

Lat.: 33° 31' 38.756"

Long.: 117° 46' 14.240"

Adjusted X
Unadjusted

Plane Coordinates (IV):

State: CALIFORNIA

Zone: V |

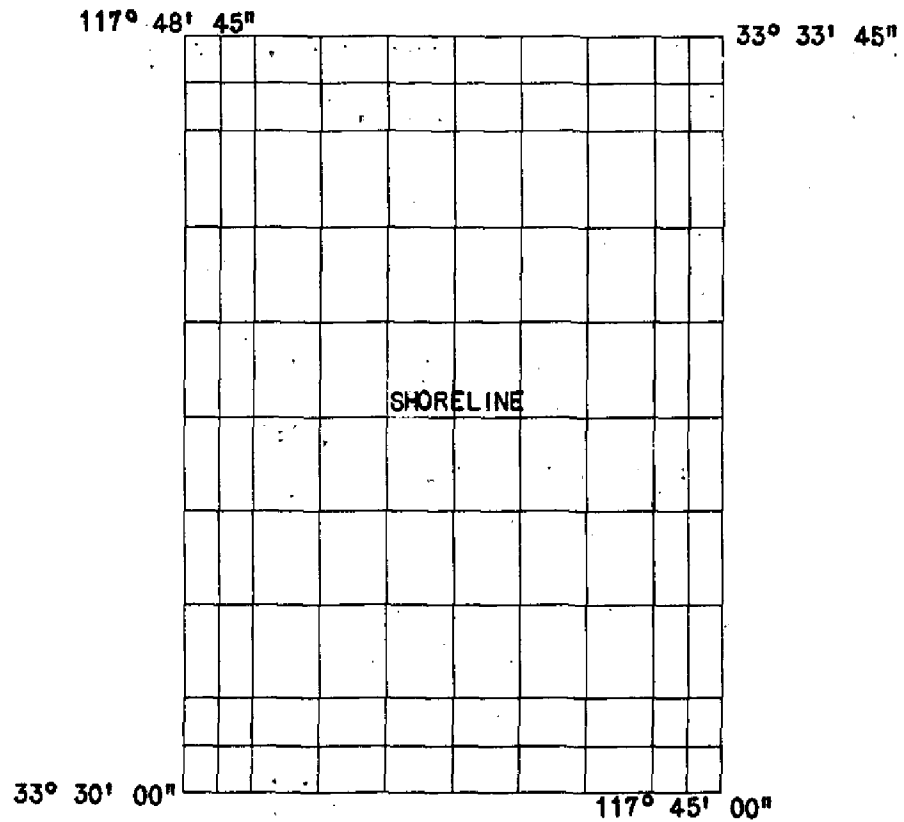
Y= 498,485.29

X= 1,536,588.99

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.

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 COMPILED BY KELSH INSTRUMENT.**

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

Date: 10-4-60

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

Date: 10-12-60

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

Date: 10-20-61

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

Date: 11-2-61

Radial Plot or Stereoscopic
Control extension by (III):

R. E. FUESCHEL

Date: Oct. 1960

Stereoscopic Instrument compilation (III):

Planimetry D. N. WILLIAMS

Date: 3-13-62

Contours

Date:

Manuscript delineated by (III):

L. L. GRAVES, SCRIBING
C. C. HARRIS, STICK-UP

Date: 7-3-62
7-24-62

Photogrammetric Office Review by (III): J. L. HARRIS, ROUGH DRAFT
J. L. HARRIS, ADVANCE

Date: 4-12-62
11-26-62

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

NONE

Date:

DESCRIPTIVE REPORT - DATA RECORD 5.

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

		PHOTOGRAPHS (III)			
Number	Date	Time	Scale	Stage of Tide	
59 S 8227 THRU 8230	10-3-59	11:37	1:30,000	0.5' BELOW M.H.W.	
59 S 8251 THRU 8254	"	12:01	"	1.0' BELOW M.H.W.	

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): 6

Shoreline (More than 200 meters to opposite shore) (III): 5

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

Control Leveling - Miles (II):

Number of Triangulation Stations searched for (II): 30

Recovered: 22

Identified: 1

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

Remarks:

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

Date:

Date:

Date:

Date:

FIELD INSPECTION REPORT

Map Manuscript T-11657

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-11657

PROJECT PH-5908

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

Filed with Desc. Report T-11640

U.S. DEPARTMENT OF COMMERCE
DESCRIPTIVE REPORTCOAST AND GEODETIC SURVEY
TIDE RECORD

MAP T. 11657

PROJECT NO. PH-5908

SCALE OF MAP 1:10,000

SCALE FACTOR None

STATION	ZONE VI 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
			FORWARD	(BACK)	FORWARD	(BACK)		FORWARD	(BACK)	
CACTUS POINT 2, 1933	P-90	N.A. 1927	498,485.29		3485.29	(1514.71)		1062.3	(461.7)	
			1,536,588.99		1588.99	(3411.01)		484.3	(1039.7)	
SUB. STA. A	OFFICE COMP.	"	498,453.78		3453.78	(1546.22)		1052.7	(471.3)	
			1,536,596.10		1596.10	(3403.90)		486.5	(1037.5)	
SUB. STA. B	"	"	498,451.96		3451.96	(1548.04)		1052.5	(471.8)	
			1,536,567.60		1567.60	(3432.40)		477.8	(1046.2)	
CHIMNEY, LONE WHITE HOUSE, SOUTHEAST OF LAGUNA BEACH, 1933	P-92	"	500,882.66		882.66	(4117.34)		269.0	(1255.0)	
			1,537,931.17		2931.17	(2088.83)		893.4	(630.6)	
CHIMNEY, HOUSE 1 MILE SOUTHEAST OF GOFF ISLAND, 1933	P-93	"	492,835.94		2835.94	(2164.06)		864.4	(659.6)	
			1,541,730.92		1730.92	(3269.08)		527.6	(996.4)	
CLOSE, 1933	P-89	"	500,884.26		884.26	(4115.74)		269.5	(1254.5)	
			1,541,834.37		1834.37	(3185.63)		559.1	(964.9)	
GOFF ISLAND 2, 1933	P-90	"	493,620.00		3620.00	(1380.00)		1103.4	(420.6)	
			1,539,859.00		4859.00	(141.00)		1481.0	(43.0)	
GOFF RIDGE, 1884	P-90	"	496,235.33		1235.33	(3764.67)		376.5	(1147.5)	
			1,541,195.30		1195.30	(3804.70)		364.3	(1159.7)	
HIGHER OF TWO ROCKS OFF TWO ROCKS POINT, 1933	P-93	"	505,211.44		211.44	(4788.56)		64.4	(1459.6)	
			1,526,425.02		1425.02	(3574.98)		434.3	(1089.7)	
LAGUNA BEACH, CATHOLIC CHURCH TOWER, CROSS, 1933	P-92	"	502,302.35		2302.35	(2697.65)		701.8	(822.2)	
			1,536,567.04		1567.04	(3432.96)		477.6	(1046.4)	
LAGUNA BEACH, GREY BLDG., NORTH SPIRE 1933	P-92	"	506,288.46		1288.46	(3711.54)		392.7	(1131.3)	
			1,529,639.47		4639.47	(360.53)		1414.1	(109.9)	
LAGUNA BEACH, HOTEL CASA DEL CAMINO, TRAP DOOR, 1933	P-92	"	500,308.21		308.21	(4691.79)		93.9	(1430.1)	
			1,535,200.56		200.56	(4799.44)		61.1	(1462.9)	

1 FT. = 3048006 METER

J.L.H.
C.H.B.

DATE

3-9-60
10-10-61

CHECKED BY:

D.N.W.
J.E.D.

DATE

3-9-60
10-13-61

COMM-DC-57843

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

MAP T. 11657

PROJECT NO. PH-5908

SCALE OF MAP 1:10,000

SCALE FACTOR NONE

STATION	SOURCE OF INFORMATION (INDEX)	DATUM	LATITUDE OR ϕ -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	
				FORWARD	(BACK)		FORWARD	(BACK)	FORWARD	(BACK)
LAGUNA BEACH, NORTH END, WATER TANK, 1933	P-92	N.A. 1927	506,978.24	1978.24	(3021.76)		603.0	(921.0)		
			1,532,345.14	2345.14	(2654.86)		714.8	(809.2)		
LAGUNA BEACH, TEMPLE HILL, SPANISH TYPE HOUSE, CHIMNEY, 1933	P-92	"	503,556.86	3556.86	(1443.14)		1084.1	(439.9)		
			1,537,118.46	2118.46	(2881.54)		645.7	(878.3)		
LAGUNA HILL, 1884	P-89	"	505,797.53	797.53	(4202.47)		243.1	(1280.9)		
			1,536,347.24	1347.24	(3652.76)		410.6	(1113.4)		
LARGE ROCK OFF RECREATION POINT 1933	P-92	"	503,811.60	3811.60	(1188.40)		1161.8	(362.2)		
			1,530,402.25	402.25	(4597.75)		122.62	(1401.4)		
RECREATION POINT 1884	OFFICE COMP..	"	504,336.52	4336.52	(663.48)		1321.8	(202.2)		
			1,530,328.26	328.26	(4671.74)		100.1	(1423.9)		
RECREATION POINT 2 1933	P-89	"	504,267.24	4267.24	(732.76)		1300.7	(223.3)		
			1,530,337.45	337.45	(4662.55)		102.9	(1421.1)		
ROCKLEDGE VILLA, HOUSE, CONICAL ROOF, 1933	P-92	"	495,971.53	971.53	(4028.47)		296.1	(1227.9)		
			1,538,666.33	3666.33	(1333.67)		1117.5	(406.5)		
TEMPLE HILL 1933	P-89	"	508,538.41	3538.41	(1461.59)		1078.5	(445.5)		
			1,540,719.03	719.03	(4280.97)		219.2	(1304.8)		
TOWER, HOUSE SOUTH OF CACTUS POINT, 1933	P-93	"	496,616.75	1616.75	(3383.25)		492.8	(1031.2)		
			1,538,345.90	3345.90	(1654.10)		1019.8	(504.2)		
TOWER, JAPANESE TYPE HOUSE, 1 MILE SOUTH OF CACTUS PT., 1933	P-93	"	496,012.89	1022.89	(3987.11)		308.7	(1215.3)		
			1,538,713.17	3713.17	(1286.83)		1131.8	(392.2)		0.
WINSTON 2, 1933	P-90	"	498,105.02	3105.02	(1894.98)		946.4	(577.6)		
			1,538,522.29	4522.29	(477.71)		1378.4	(145.6)		

1 FT. = 3048006 METER

COMPUTED BY C.H.B.

DATE

10-10-61

CHECKED BY

DATE

COM-DC-57843

COMPILATION REPORT

MAP MANUSCRIPT T-11657

PROJECT PH-5908

31. DELINEATION:

COMPILATION WAS BY KELSH INSTRUMENT.

32. CONTROL:

SUPPLEMENTARY CONTROL ESTABLISHED BY THE STEREOPLANIGRAPH INSTRUMENT WAS ADEQUATE.

33. SUPPLEMENTAL DATA:

MAP OF CITY OF LAGUNA BEACH, DEPARTMENT OF PUBLIC WORKS -
ENGINEERING DIVISION, REVISED 11-12-59, SCALE APPROX. 1:10,000

34. CONTOURS AND DRAINAGE:

CONTOURS ARE NOT APPLICABLE.

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

35. SHORELINE AND ALONGSHORE DETAILS:

FIELD INSPECTION OF THE MEAN HIGH-WATER LINE WAS ADEQUATE. THE LOW-WATER LINE WAS NOT DELINEATED AS NO PHOTOGRAPHY TAKEN AT THAT TIDE STAGE WAS AVAILABLE. ROCK LEDGE AREAS ALONGSHORE WERE INDICATED BY THE FIELD INSPECTION AND THEIR LIMITS WERE DELINEATED BY THE COMPILER BY INTERPRETATION OF THE PHOTOGRAPHY. ELEVATIONS AT THE TIME OF FIELD INSPECTION OF ROCKS ALONGSHORE WERE FURNISHED BY THE FIELD UNIT. THESE VALUES WERE CONVERTED TO THE VERTICAL DATUM OF THE MANUSCRIPT.

36. OFFSHORE DETAILS:

NONE.

37. LANDMARKS AND AIDS:

ONE INTERSECTION STATION HAS BEEN RECOMMENDED TO BE CHARTED AS A LANDMARK.

THE NAMES OF TWO OTHER LANDMARKS PREVIOUSLY CHARTED HAVE BEEN RECOMMENDED FOR REVISION.

38. CONTROL FOR FUTURE SURVEYS:

NONE.

39. JUNCTIONS:

SATISFACTORY JUNCTIONS WERE MADE WITH T-11656 ON THE WEST AND WITH T-11658 ON THE EAST. TO THE SOUTH IS THE GULF OF SANTA CATALINA. 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. 7½ MINUTE LAGUNA BEACH CALIFORNIA, QUADRANGLE, SCALE 1:24,000, EDITION 1948.

47. COMPARISON WITH NAUTICAL CHARTS:

COMPARISON WAS MADE WITH THE FOLLOWING NAUTICAL CHARTS:

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-10303 11657

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 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 X	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 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	
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

Aliso Beach
Aliso Creek
Arch Beach

Bluebird Canyon
Boat Canyon

Cheneys Point
Coast Inn Reef
Crescent Bay

Divers Cove

~~Emerald~~ Bay
Emerald Bay (town)

Fishermans Cove

Goff Island
Gulf of Santa Catalina

Heisler Park
Houses Point

Laguna Beach
Laguna Canyon

Main Beach
Moss Cove

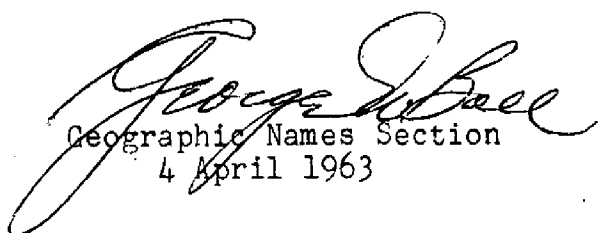
Recreation Point

Sewer Cove
Shaws Cove
Sugarloaf Point

Twin Points

Victoria Beach

Woods Cove
Woods Point


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 PH-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 Future 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. Leman
Chief, Cartographic Branch

Louis G. Taylor
Chief, Nautical Chart Division

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

Norace E. Conerly
Chief, Operations Division

