

11649

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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-11649

LOCALITY

State CALIFORNIA

General locality LONG BEACH

Locality BOLSA BAY

1959-1960

CHIEF OF PARTY

FRED NATELLA

LIBRARY & ARCHIVES

DATE AUG 1-1963

USCOMM-DC 5087

11649

DESCRIPTIVE REPORT - DATA RECORD

T- 11649

Project No. (II): PH-5908

Quadrangle Name (IV):

Field Office (II): SANTA ANA, CALIFORNIA

Chief of Party:

FRED NATELLA

UNIT CHIEF:

C. H. BISHOP

Photogrammetric Office (III): PORTLAND, OREGON

Officer-in-Charge:

FRED NATELLA

Instructions dated (II) (III):

6 JANUARY, 1960 II, III

Copy filed in Division of

AMENDMENT 1:

13 APRIL, 1960 II

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):

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):

CHICA, 1933

Lat.: 33° 42' 37.165"

Long.: 118° 02' 55.599"

Adjusted X
Unadjusted

Plane Coordinates (IV):

State: CALIFORNIA

Zone: VI

Y= 566,373.86

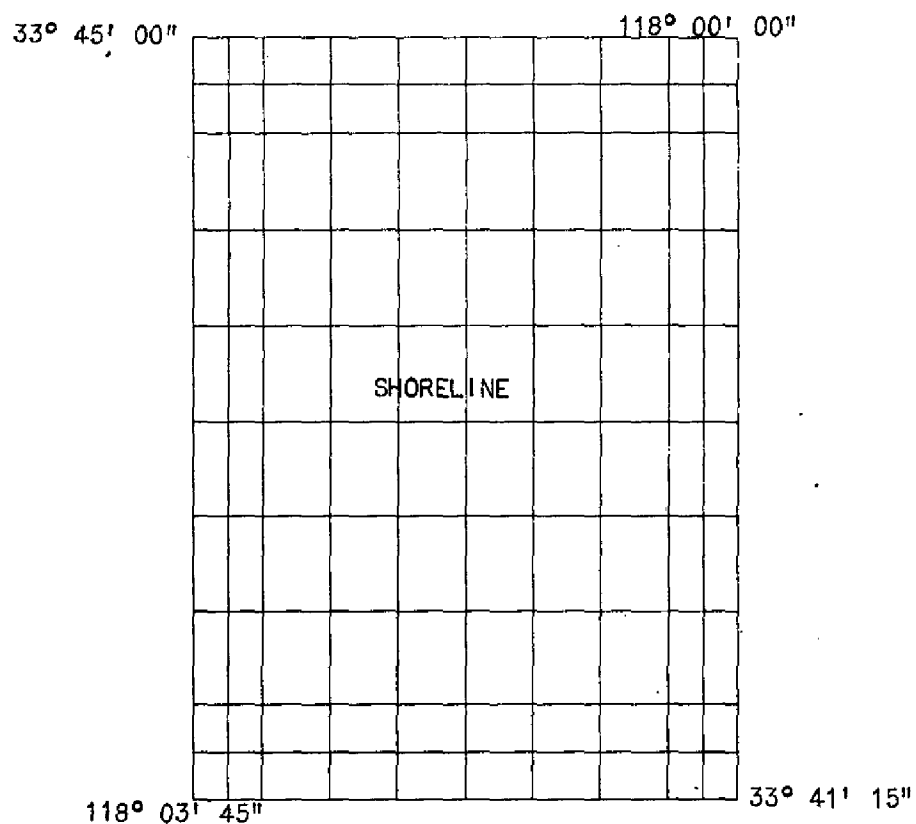
X= 1,452,976.72

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

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): C. H. BISHOP; R. B. MELBY
L. L. RIGGERS

Date: Oct. - Nov.
1960

Planetable contouring by (II):

Date:

Completion Surveys by (II):

Date:

Mean High Water Location (III) (State date and method of location): BY FIELD INSPECTION OCT. - NOV.
1960 AND COMPILED BY KELSH INSTRUMENT.

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

Date: 9-29-60

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

Date: 10-12-60

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

Date: 10-13-61

Control checked by (III): D. N. WILLIAMS

Date: 10-12-61

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

Date: Oct. 1960

Stereoscopic Instrument compilation (III):
Planimetry D. N. WILLIAMS
Contours

Date: 12-12-61

Date:

Manuscript delineated by (III): L. L. GRAVES, SCRIBING
C. C. HARRIS, STICK-UP

Date: 5-3-62
6-15-62

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

Date: 1-11-62
11-6-62

Elevations on Manuscript
checked by (II) (III): NONE

Date:

DESCRIPTIVE REPORT - DATA RECORD

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

Number	Date	Time	Scale	Stage of Tide
59-S-8214				
THRU 8216	10-3-59	11:30	1:30,000	4.7 FT. ABOVE M.L.L.W.

Tide (III)

Reference Station: LOS ANGELES, CALIFORNIA
Subordinate Station: LONG BEACH (OUTER HARBOR), CALIFORNIA
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):

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

Date:

Date:

Date:

Date:

Land Area (Sq. Statute Miles) (III): 10

Shoreline (More than 200 meters to opposite shore) (III): 6

Shoreline (Less than 200 meters to opposite shore) (III): NONE

Control Leveling - Miles (II): NONE

Number of Triangulation Stations searched for (II): 23 Recovered: 10

Number of BMs searched for (II): NONE Recovered:

Number of Recoverable Photo Stations established (III): NONE

Number of Temporary Photo Hydro Stations established (III): NONE

Identified: 1

Identified:

Remarks:

FIELD INSPECTION REPORT

MAP MANUSCRIPT T-11649

PROJECT PH-5908

REFER TO THE FIELD INSPECTION REPORT FOR T-11643, T-11648,
T-11649 AND T-11650 BY CHARLES H. BISHOP, NOVEMBER 1960 AND
~~SUBMITTED TO THE WASHINGTON OFFICE ON 1-27-61.~~
Sec Desc. Report T11643

PHOTOGRAMMETRIC PLOT REPORT

MAP MANUSCRIPT T-11649

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
COAST AND GEODETIC SURVEY
DESCRIPTIVE REPORT
TIDE GAUGE RECORD

MAP T. 11649 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 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)	
CHICA, 1933	P-12	N.A. 1927	566,373.86	1373.86	(3626.14)		418.8	(1105.2)	
			1,452,976.72	2976.72	(2023.28)		907.3.	(816.7)	
SUB. STA. "A"	OFFICE COMP.	"	566,272.44	1272.44	(3727.56)		387.8	(1136.2)	
			1,452,752.38	2752.38	(2247.62)		838.9	(685.1)	
SUB. STA. "B"	"	"	566,416.43	1416.43	(3583.57)		431.7	(1092.3)	
			1,452,950.31	2950.31	(2049.69)		899.3	(624.7)	
BENCH MARK R 280, 1956	P-182	"	578,747.98	3747.98	(1252.02)		1142.4	(381.6)	
			1,455,545.25	545.25	(4454.75)		166.2	(1357.8)	
BENCH MARK T 371, 1956	P-182	"	573,402.	3402	(1598)		1036.9	(487.1)	
			1,455,524.	524	(4476)		159.7	(1364.3)	
CENTER, 1956	P-182	"	578,320.07	3320.07	(1679.93)		1012.0	(512.0)	
			1,449,445.66	4445.66	(554.34)		1355.0	(169.0)	
MAG, 1956	P-182	"	580,043.10	43.10	(4956.90)		13.1	(1510.9)	
			1,454,445.35	4445.35	(554.65)		1354.9	(169.1)	
SUNSET BEACH, ABANDONED MILITARY WATER TANK, 1956	P-182	"	565,895.26	895.26	(4104.74)		272.9	(1251.1)	
			1,455,580.46	580.46	(4419.54)		176.9	(1347.1)	
SUNSET BEACH, SUNSET LAND & WATER CO., SOUTHEAST	P-182	"	566,901.17	1901.17	(3098.83)		579.5	(944.5)	
WATER TANK, 1956			1,452,759.72	2759.72	(2240.28)		841.2	(682.8)	90
LOS PATOS R.M. 2, 1920	OFFICE COMP.	"	566,646.5	1646.5	(3353.5)		501.9	(1022.1)	
			1,449,204.7	4204.7	(795.3)		1281.6	(242.4)	

1 FT. = 3048006 METER J.L.H. 3-9-60 3-9-60 COMM-DC-57843
COMPUTED BY: C.H.B. DATE 10-6-61 10-11-61 DATED.N.W.
J.E.D.
CHECKED BY:

COMPILATION REPORT

MAP MANUSCRIPT T-11649

PROJECT PH-5908

31. DELINEATION:

COMPILATION WAS BY KELSH INSTRUMENT.

32. CONTROL:

THE SUPPLEMENTARY CONTROL ESTABLISHED BY STEREOPLANIGRAPH WAS ADEQUATE.

33. SUPPLEMENTARY DATA:

NONE.

34. CONTOURS AND DRAINAGE:

CONTOURS ARE NOT APPLICABLE.

DRAINAGE WAS COMPILED AS FIELD INSPECTED. NO OTHER DRAINAGE WAS INDICATED ON THE U.S.G.S. QUADRANGLE.

35. SHORELINE AND ALONGSHORE DETAILS:

SHORELINE INSPECTION FOR THE HIGH-WATER LINE WAS ADEQUATE. NO PHOTOGRAPHS TAKEN AT LOW-WATER WERE AVAILABLE.

36. OFFSHORE DETAILS:

AN OBSTRUCTION THAT APPEARS TO BE A LARGE CONCRETE CYLINDER HAS BEEN LOCATED JUST OFF THE MEAN HIGH-WATER LINE. IT BARES 10 FEET AT M.H.W.

37. LANDMARKS AND AIDS:

NONE.

38. CONTROL FOR FUTURE SURVEYS:

NO PHOTO-HYDRO STATIONS WERE IDENTIFIED FOR LOCATION ON THIS MANUSCRIPT.

39. JUNCTIONS:

THERE ARE NO CONTEMPORARY SURVEYS TO THE NORTH OR TO THE EAST. SATISFACTORY JUNCTIONS WERE MADE WITH T-11648 ON THE WEST AND T-11650 ON THE SOUTH.

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

COMPARISON WAS MADE WITH U.S.G.S. $7\frac{1}{2}$ MINUTE SEAL BEACH, CALIFORNIA QUADRANGLE, SCALE 1:24,000, EDITION 1949.

47. COMPARISON WITH NAUTICAL CHARTS:

COMPARISON WAS MADE WITH THE FOLLOWING NAUTICAL CHARTS:

NAUTICAL CHART No. 5101, SCALE 1:234,270 AT LAT. $33^{\circ} 20'$
5TH ED. JAN. 6, 1947, REVISED MAY 18, 1959.

NAUTICAL CHART No. 5142, SCALE 1:80,000 AT LAT. $33^{\circ} 31'$
1ST ED. MAR. 5, 1951, REVISED NOV. 9, 1959.

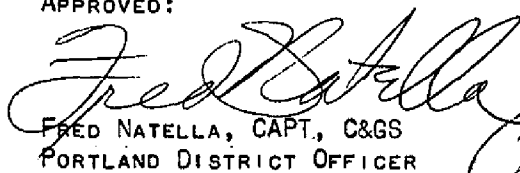
ITEMS TO BE APPLIED TO NAUTICAL CHARTS IMMEDIATELY:

NONE.

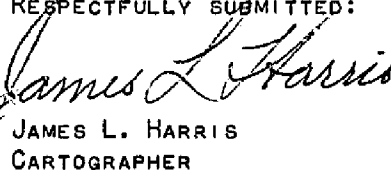
ITEMS TO BE CARRIED FORWARD:

NONE.

APPROVED:


FRED NATELLA, CAPT., C&GS
PORTLAND DISTRICT OFFICER

RESPECTFULLY SUBMITTED:


JAMES L. HARRIS
CARTOGRAPHER

49. NOTES FOR THE HYDROGRAPHER:

NONE.

PHOTOGRAMMETRIC OFFICE REVIEW

T-10003 11649

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 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 X
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 X	30. OTHER CULTURAL FEATURES X
BOUNDARIES			
31. BOUNDARY LINES X		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			

48. Geographic Names List

Bolsa Bay

Bolsa Chica Beach State Park

Gulf of Santa Catalina

Orange County Flood Control Channel

George M. Ball
Geographic Names Section
4 April 1963

**Review Report
Shoreline Maps
T-11549 thru T-11554**

June 1963

61. General Statement

There are six (6) 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-5031	1:10,000	1933
T-5032	1:10,000	1933

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

63. Comparison with Maps of Other Agencies

Newport Beach, Calif.	1:24,000	U.S.G.S.	1949
Seal Beach, Calif.	1:24,000	U.S.G.S.	1949

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

5188	1:10,000	Aug. 1940	revised to Mar. 1961
5142	1:80,000	Nov. 1960	revised to Dec. 1962

There are no differences of importance between the above charts and the subject 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. Bende
L. C. Bende

Approved by:

Charles J. Hunter
Chief, Cartographic Br.

John A. ... 8/1/63
Chief, Photogrammetry Div.

Louis G. Taylor
Chief, Nautical Charts Division
Norval B. Connelley
Chief, Operations Division

