

11652

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. _____ Office No. T-11652

LOCALITY

State California

General locality Orange County

Locality Newport Beach

1959-1961

CHIEF OF PARTY

Fred Natella, Photogrammetric Office

LIBRARY & ARCHIVES

DATE AUG 1-1963

USCOMM-DC 5087

11652

DESCRIPTIVE REPORT - DATA RECORD

T-11652

Project No. (II): Ph-5908

Quadrangle Name (IV):

Field Office (II): Santa Ana, California

Chief of Party: Fred Natella

Photogrammetric Office (III): Portland, Oregon

Unit Chief: Charles H. Bishop

Officer-in-Charge: Fred Natella

Instructions dated (II) (III): II III 6 January 1960
Amend. I 13 April 1960

Copy filed in Division of
Photogrammetry (IV)

Method of Compilation (III): KELBN 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): SAND HILL, 1932

Lat.: 33° 30' 41.744"

Long.: 117° 52' 38.523"

Adjusted X
Unadjusted

Plane Coordinates (IV):

State: CALIFORNIA Zone: VI

Y= 541,724.62

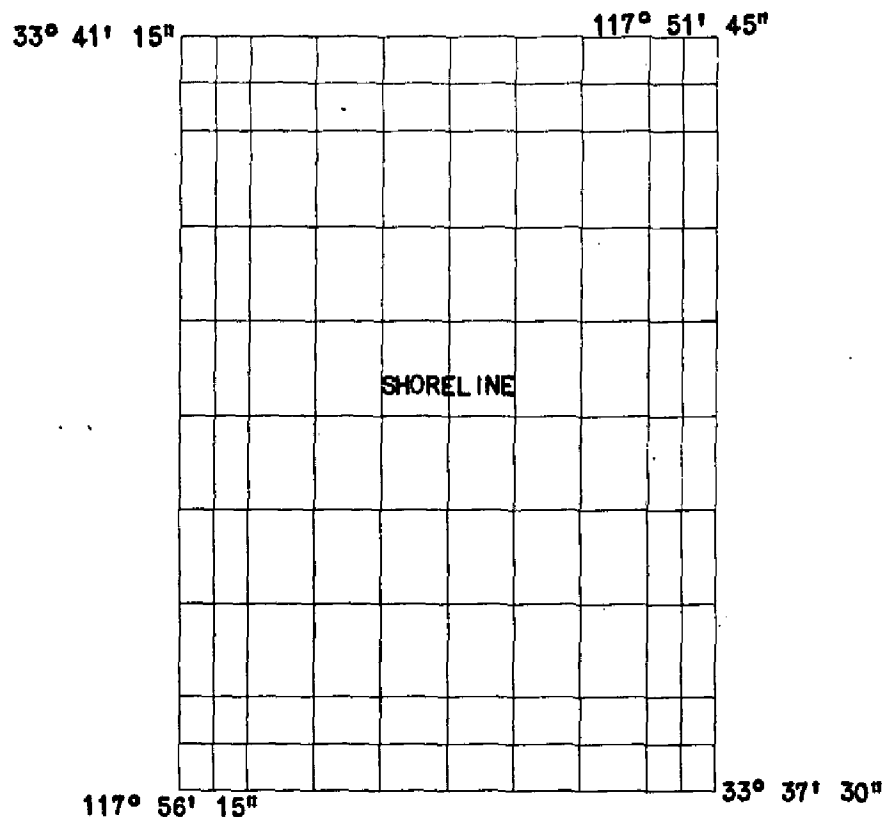
X= 1,504,728.09

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.

FORM 181a
(4-23-54)

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): **Robert B. Melby, Lyle L. Riggers
Charles H. Bishop**

Date: **Dec. 1960
Jan. 1961
Feb. 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 DECEMBER 1960
THRU FEBRUARY 1961 AND COMPILED BY KELSH INSTRUMENT.**

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

Date: **9-30-60**

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

Date: **10-12-60**

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

Date: **10-18-61**

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

Date: **10-30-61**

Radial Plot or Stereoscopic
Control extension by (III):

R. E. FUESCHEL

Date: **OCT. 1960**

Stereoscopic Instrument compilation (III):

Planimetry **D. N. WILLIAMS**

Date: **12-19-61**

Contours

Date:

Manuscript delineated by (III):

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

Date: **6-6-62
10-31-62**

Photogrammetric Office Review by (III):

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

Date: **1-26-62
11-13-62**

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

Date:

DESCRIPTIVE REPORT - DATA RECORD

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

Number	Date	PHOTOGRAPHS (III) Time	Scale	Stage of Tide
59 S 8261 THRU 8263	10-3-59	12:05	1:30,000	4.0 FT. ABOVE M.L.L.W.
59 S 8220 AND 8221	"	11:34	"	4.5 FT. ABOVE M.L.L.W.

Tide (III)

Reference Station: **LOS ANGELES, CALIFORNIA**
Subordinate Station: **BALBOA, NEWPORT BAY, CALIFORNIA**
Subordinate Station:

Ratio of Ranges	Mean Range	Spring Range
	3.8	5.4
	3.6	5.2

COMPUTED FROM PREDICTED TIDE TABLES

Washington Office Review by (IV):

Date:

Final Drafting by (IV):

Date:

Drafting verified for reproduction by (IV):

Date:

Proof Edit by (IV):

Date:

Land Area (Sq. Statute Miles) (III): **11**
Shoreline (More than 200 meters to opposite shore) (III): **4**
Shoreline (Less than 200 meters to opposite shore) (III):
Control Leveling - Miles (II):
Number of Triangulation Stations searched for (II): **20** Recovered: **10** Identified: **4**
Number of BMs searched for (II): **1** Recovered: **1** Identified: **0**
Number of Recoverable Photo Stations established (III): **EX 1**
Number of Temporary Photo Hydro Stations established (III): **NONE**

Remarks:

FIELD INSPECTION REPORT

Map Manuscript T-11652

Project Ph-5908

Refer to Field Inspection Report for T-11651, T-11652, T-11653 and T-11654, Project Ph-5908, by Charles H. Bishop and Robert B. Melby, February 1961. INCLUDED WITH DESCRIPTIVE REPORT FOR T-11651.

Filed with Desc. Report T-11651

PHOTOGRAMMETRIC PLOT REPORT

MAP MANUSCRIPT T-11652

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
ROLL RECORD

MAP T-11652 PROJECT NO. PM-5908 SCALE OF MAP 1:10,000 SCALE FACTOR No NE

STATION	ZONE VI 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)	
BOWEN, 1928	P-50	N.A. 1927	540,354.50 1,499,263.63	354.50 4263.63	(4645.50) (736.37)		108.1 1299.6	(1415.9) (224.4)	Sta. now destroyed
SUB STA. A	OFFICE COMP.	"	540,146.20 1,499,018.34	146.20 4018.34	(4853.80) (981.66)		44.6 1224.8	(1479.4) (299.2)	
SUB STA. B	"	"	540,466.47 1,499,230.36	466.47 4230.36	(4533.53) (769.64)		142.2 1289.4	(1381.8) (234.6)	
AERATOR, 1932	P-12	"	537,312.08	2312.08	(2887.92)		704.7	(819.3)	
BARANCA, 1928	P-50	"	1,486,544.64 540,376.74 1,508,640.00	1544.64 376.74 1640.00	(3455.36) (4623.26) (3360.00)		470.6 144.8 499.9	(1053.2) (1409.2) (1024.1)	
CAMP, 1875	P-20	"	541,903 1,503,597	1903 3597	(3097) (1403)		580.0 1096.4	(944.0) (427.6)	
CHURCH, 1932	P-12	"	541,441.34 1,492,636.97	1441.34 2636.97	(3558.66) (2363.03)		439.3 803.7	(1084.7) (720.3)	
CONCRETE RESER- VOIR, CENTER 1911	P-19	"	537,385 1,486,583	2385 1583	(2615) (3417)		726.9 482.5	(797.1) (1041.5)	
COSTA MESA ALUMINUM TANK, 1933	P-14	"	536,970.85 1,491,792.13	1970.85 1792.13	(3029.15) (3207.87)		600.7 546.2	(923.3) (977.8)	
NEWPORT, 1928	P-50	"	534,896.31 1,488,088.52	4896.31 3088.52	(103.69) (1931.49)		1492.4 935.3	(31.6) (588.7)	
ORANGE COAST COLLEGE TANK 1953	P-172	"	550,695.07 1,500,099.43	695.07 99.43	(4304.93) (4900.57)		211.9 30.3	(1312.11) (1493.7)	
SAND HILL, 1932	P-12	"	541,724.62 1,504,728.09	1724.62 4728.09	(3275.38) (271.91)		525.7 1441.1	(998.3) (82.9)	

1 FT. = 3048006 METER

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

DATE

3-9-60 10-6-61

CHECKED BY:

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

DATE

3-9-60 10-12-61

COM-DC-57843

COMPILATION REPORT
MAP MANUSCRIPT T-11652
PROJECT PH-5908

31. DELINEATION:

COMPILATION WAS BY KELSH INSTRUMENT.

32. CONTROL:

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

33. SUPPLEMENTAL DATA:

SHEET NO. 37E, MAP OF ORANGE COUNTY
SCALE 1 INCH = 600 FEET.

34. CONTOURS AND DRAINAGE:

CONTOURS ARE NOT APPLICABLE.

DRAINAGE WAS COMPILED AS INDICATED BY THE FIELD INSPECTION AND IS IN GOOD AGREEMENT WITH THE U.S.G.S. QUADRANGLE AND OTHER AVAILABLE MAPS OF THE AREA.

35. SHORELINE AND ALONGSHORE DETAILS:

FIELD INSPECTION OF THE HIGH-WATER LINE WAS ADEQUATE. THE LOW-WATER LINE WAS NOT SHOWN. NO PHOTOGRAPHS TAKEN AT THAT TIDE STAGE WERE AVAILABLE.

36. OFFSHORE DETAILS:

NONE.

37. LANDMARKS AND AIDS:

ONE INTERSECTION STATION HAS BEEN IDENTIFIED AS A LANDMARK.

FORM 567 IS SUBMITTED.

38. CONTROL FOR FUTURE SURVEYS:

NO RECOVERABLE TOPOGRAPHIC STATIONS AND NO PHOTO-HYDRO STATIONS WERE ESTABLISHED.

39. JUNCTIONS:

SATISFACTORY JUNCTIONS WERE MADE WITH T-11651 ON THE WEST AND WITH T-11654 ON THE SOUTH. THERE WERE NO CONTEMPORARY SURVEYS TO THE NORTH AND EAST.

40. HORIZONTAL AND VERTICAL ACCURACY:

46. COMPARISON WITH EXISTING MAPS:

COMPARISON WAS MADE WITH THE U.S.G.S. 7½ BY 10 MINUTE NEWPORT BEACH, CALIFORNIA QUADRANGLE, SCALE 1:24,000, EDITION 1949.

47. COMPARISON WITH NAUTICAL CHARTS:

COMPARISON WAS MADE WITH THE FOLLOWING NAUTICAL CHARTS:

NAUTICAL CHART 5101, SCALE 1:234,270 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.

NAUTICAL CHART 5108, SCALE 1:10,000 AT LAT. 33° 37'
8TH ED. AUG. 22, 1940, REVISED JUNE 15, 1959.

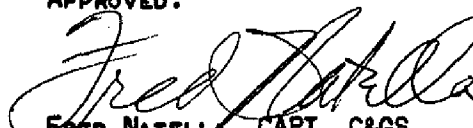
ITEMS TO BE APPLIED TO NAUTICAL CHARTS IMMEDIATELY:

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-10363-11652

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 None
16. AIDS TO NAVIGATION X	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	
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 H		SUPERVISOR	
43. REMARKS			

T-11652

48. Geographic Names List

Big Canyon

Santa Ana Heights

The Narrows

Upper Newport River

George M. Bass
Geographic Names Section
4 April 1963

Review Report
Shoreline Maps
T-11649 thru T-11654

June 1963'

61. General Statement

These are six (6) shoreline maps of project FH-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.C.S.	1949
Seal Beach, Calif.	1:24,000	U.S.C.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. Eande

Approved by:

Chief, Cartographic Br.

Chief, Photogrammetry Div.

Chief, Nautical Charts Division

Chief, Operations Division

