# 11654

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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-1165/

LOCALITY

State California

General locality Orange County

Locality NEWPORT BAY

19859-1961

CHIEF OF PARTY
Fred Natella, CAPT, C&GS
Portland District Officer

LIBRARY & ARCHIVES

DATE AUG 1-1963

USCOMM-DC 5087

#### DESCRIPTIVE REPORT - DATA RECORD

T - 11654

Project No. (II): Ph-5908

Quadrangle Name (IV):

Field Office (II): Santa Ana, California

Chief of Party: Unit Chief:

Fred Natella

Photogrammetric Office (III): Portland, Oregon

Officer-in-Charge:

Charles H. Bishop

Fred Natella

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

Amend. I 13 April 1960 Copy filed in Division of: Photogrammetry (IV)

Method of Compilation (III):

KELSH INSTRUMENT

Manuscript Scale (III):

1:10,000

Stereoscopic Plotting Instrument Scale (III): 1:6000

1:10,000

Scale Factor (III):

NONE.

Date received in Washington Office (IV):

Date reported to Nautical Chart Branch (IV):

PARTOGRAPH SCALE:

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: 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):

PROMONTORY, 1875

Lat.:

33° 36' 48.746"

Long.:

Adjusted X

Unadjusted

Plane Coordinates (IV):

State: CALIFORNIA

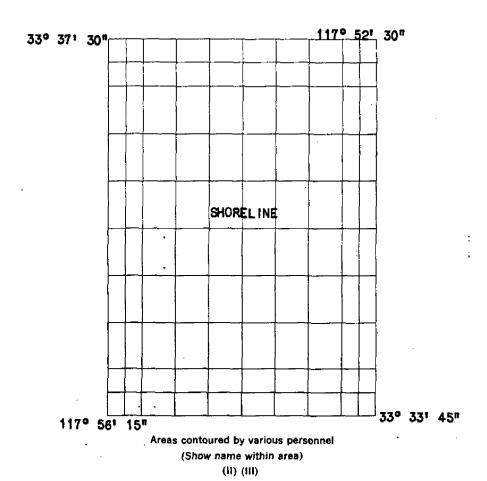
Zone: VI

530,399.06

1,498,536.86

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.



COMM- DC- 57842

# DESCRIPTIVE REPORT - DATA RECORD

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

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 AND JANUARY 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: 10-18-61

Control checked by (III):

L. L. GRAVES

Date: 10-31-61

Radial Plot or Stereoscopic

R. E. FUESCHEL

Date: Oct. 1960

Control extension by (III):

Planimetry D. N. WILLIAMS

Date: 1-16-62

Stereoscopic Instrument compilation (III):

Contours

Date:

Manuscript delineated by (III):

L. L. GRAVES, SCRIBING C. C. HARRIS, STICK-UP Date: 6-19-62 8-17-62

Photogrammetric Office Review by (III):

J. L. HARRIS, ROUGH DRAFT

J. L. HARRIS, ADVANCE

Date: 2-5-62

11-16-62

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

NONE

Date:

DESCRIPTIVE REPORT - DATA RECORD

U.S. DEPARTMENT OF COMMERCE COAST AND GEODETIC SURVEY

Camera (kind or source) (III):

C&GS SINGLE LENS "S"

Number	Date	Time	Scale	Stage of Tide
59 8 8221 THRU 8223	10_3_59	11:34	1:30,000	4.51 ABOVE M.L.L.W.
50 6 8250			•	

12:04

Tide (III)

Reference Station:

LOS ANGELES, CALIFORNIA

Subordinate Station:

AND 8260

BALBOA (OCEAN PIER), CALIFORNIA

Subordinate Station:

COMPUTED FROM PREDICTED TIDE TABLES.

Ranges

|Ratio of | Mean |

Range

Spring

Range

Washington Office Review by (IV): Date: Date: Final Drafting by (IV): Date: Drafting verified for reproduction by (IV): Date: Proof Edit by (IV): Land Area (Sq. Statute Miles) (III): 3 Shoreline (More than 200 meters to opposite shore) (III): 15 Shoreline (Less than 200 meters to opposite shore) (III): Control Leveling - Miles (II): 39 8 Identified: 5 Recovered: Number of Triangulation Stations searched for (II): 13 Identified: 4 Recovered: 13 Number of BMs searched for (II):

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

Remarks:

#### FIELD INSPECTION REPORT

Map Manuscript T-11654

Project Ph-5908

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

Filed with Desc. Report T-11651

#### PHOTOGRAMMETRIC PLOT REPORT

## MAP MANUSCRIPT T-11654

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

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U.S. DEPARTMENT OF COMMERCE DESCRIPTIVE REPORT

ROL., RECORD

DAST AND GEODETIC SURVEY

COMM- DC- 57843 DISTANCE FROM GRID OR PROJECTION LINE FROM GRID OR PROJECTION LINE IN METERS 9. (BACK) FORWARD NONE 10 - 12 - 61SCALE FACTOR 32.6) 111.0) (1037.1) (302.1) (1009.4) 329.4) (1180.6) (1192.2)(446.0) 103.1) (1009.0) 115.9) 352.1) 96.2) (100.2) (653.8) (1077.7)540.2) 146.5) (1442.1)(1402.4) (1009.5) 803.8) 441.9 (BACK) N.A. 1927 - DATUM DATE FORWARD 446.3 720.2 1078.0 515.0 983.8 514.5 514.6 1171.9 1194.6 1427.8 1491.4 486.9 1423.8 1221.9 331.8 870.2 81.9 121.6 1420.9 1413.0 343.4 377.5 1408.1 1082.1 DATUM D.N.W. SCALE OF MAP 1:10,000 (3311.64) 364.04) 380.41) (3311.95)338.30) (3310.35)(1155.15)(1080.81) 315.77) (107.10) (3402.72)(328.62) (3873.45)(991.16) (3911.58)(2144.89)(3535.66) (1772.47)(4731.26)(1449.71) (4600.94)(1463.14) OR PROJECTION LINE IN METERS 480.53) (2637/15)DISTANCE FROM GRID IN FEET, CHECKED BY: 3844.85 1597.28 1088.42 1688.05 4661.70 1688.36 4635.96 1689.65 4619.59 3919.19 4684.23 4892.90 4671.38 1126.55 4008.84 2855.11 1464.34 3227.53 2362.85 399.06 268,74 3550.29 3536,86 4519.47 LONGITUDE OR x.COORDINATE LATITUDE OR V-COORDINATE 494,661.70 531,688,36 ,494,635.96 531,689,65 494,619.59 533,844.85 1,493,919.19 526,088,42 ,498,536.86 531,688.05 524,684.23 ,504,892,90 521,597,28 1,504,671,38 521,126,55 504,008.84 ,498,227.53 ,492,362,85 530,399,06 497,855,11 526,464.34 ,498,550.29 529,519,47 530,268,74 3-9-60 10-9-61 PROJECT NO. PH-5908 DATE. DATUM N.A. 1927 = = E 22 tz Ø \* SOURCE OF J.L.H. C.H.B. ZONE VI ORFICE COMP. OFFICE OFFICE (INDEX) COMP. P=13 COMP. P=13 JETTY LIGHT, 1937 P-38 8 = 8 = = JETTY LIGHT, 1937 HOTEL TOWER, 1933 NEWPORT BAY, EAST NEWPORT BAY, WEST MAP T- 11654 BALBOA DISTRICT. PROMONTORY, 1875 BALBOA PAVILION, GOLD DOME, 1933 NEWPORT HARBOR. NEWPORT BEACH, FLAGPOLE, 1933 NEWPORT BEACH, NEWPORT BEACH. 1 FT.=.3048006 METER R.M. 1, 1932 R.M. 1, 1948 STATION ORIGIN (USE) **BRUSH**, 1875 HIGH SCHOOL TOWER, 1955 COMPUTED BY:.. ⋖ SUB STA. B OUF, 1928 LIDO ISLE SUB STA. 1960





#### COMPILATION REPORT

#### MAP MANUSCRIPT T-11654

#### PROJECT PH-5908

#### 31. DELINEATION:

COMPILATION WAS BY KELSH INSTRUMENT.

#### 32. CONTROL:

SUPPLEMENTARY CONTROL AS ESTABLISHED BY THE STEREOPLANI-GRAPH WAS ADEQUATE.

#### 33. SUPPLEMENTAL DATA:

Sheet No. 37E, Map of Orange County Scale 1 inch = 600 ft.

### 34. CONTOURS AND DRAINAGE:

CONTOURS ARE NOT APPLICABLE.

No drainage was indicated by the field inspection in the area of this map manuscript. This is confirmed by comparison 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 AS NO LOW-WATER PHOTOGRAPHY WAS AVAILABLE.

#### 36. OFF SHORE DETAILS:

NONE.

#### 37. LANDMARKS AND AIDS:

Nine Landmarks are Located in the area of this map. Four are intersection stations, one was located by theodolite and the remaining four were located by the Kelsh stereoscopic instrument.

TWELVE AIDS WERE IDENTIFIED AND ARE SHOWN ON THES MANUSCRIPT.

Two aids are triangulation stations and ten aids were located by the Kelsh Instrument.

FORMS 567 ARE SUBMITTED.

## 38. CONTROL FOR FUTURE SURVEYS:

No NE .

#### 39. JUNCTIONS:

Satisfactory Junctions were made with T=11653 on the west, with T=11652 on the north, and with T=11655 on the east. To the south is the Gulf of Santa Catalina.

#### 40. HORIZONTAL AND VERTICAL ACCURACY:

#### 41. OVERHEAD CABLE CLEARANCES:

Two overhead cables over Grand Canal, Balsoa Island, are shown. The vertical clearance of the overhead cable near the south end of Grand Canal is 21 feet at M.H.W. The vertical clearance of the overhead cable near the north end of Grand Canal is 24 feet at M.H.W.

#### 46. COMPARISON WITH EXISTING MAPS:

Comparison was made with the U.S.G.S.  $7\frac{1}{2}$  by 10 minute Newport Beach, California quadrangle, scale 1:24,000, edition 1949.

# 47. COMPAIRSON 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' 18T 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

ITEMB TO BE APPLIED TO NAUTICAL CHARTS IMMEDIATELY:

None.

ITEMS TO BE CARRIED FORWARD:

NONE.

APPROVED:

RESPECTFULLY SUBMITTED:

FRED NATELLA, CAPT, C&GS PORTLAND DISTRICT OFFICER

JAMES L. HARRIS CARTOGRAPHER

# 49. NOTES FOR THE HYDROGRAPHER:

None.

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C&GS FORM 1002 (11-13-61)			I	J.S. DEPARTMENT OF COMMERCE COAST AND GEODETIC SURVEY
1110-11	PHO	TOGRAMMET	RIC OFFICE REVIEW	
			10003 //654	
I. PROJECTION AND GRIDS	2. TITLE	·	3. MANUSCRIPT NUMBERS	4. MANUSCRIPT SIZE
×		× ·	<b>×</b>	×
×			_ ^	^
CONTROL STATIONS		-		
5. HORIZONTAL CONTROL ST THIRD-ORDER OR HIGHER	ATIONS OF	6. RECOVERA	BLE HORIZONTAL STATIONS IAN THIRD-ORDER ACCURACY	7. PHOTO HYDRO STATIONS
×	,	(Topographi	c stations)	None
8. BENCH MARKS	9. PLOTTING	OF SEXTANT	None 10. PHOTOGRAMMETRIC PLOT REPORT	11. DETAIL POINTS
· ·	FIXES		-	
×	No.	ne	*	None
ALONGSHORE AREAS (Nautica	t Chart Data)			
12. SHORELINE	13. LOW-WATE	RLINE	14. ROCKS, SHOALS, ETC.	15. BRIDGES
×	\ ×	_	×	×
16. AIDS TO NAVIGATION	17. LANDMARK	(S	18. OTHER ALONGSHORE	19. OTHER ALONGSHORE
· ×			PHYSICAL FEATURES	CULTURAL FEATURES
^	×		X	<b>×</b>
PHYSICAL FEATURES	<u> </u>			
20. WATER FEATURES		21. NATURAL	GROUND COVER	22. PLANETABLE CONTOUR
×			<b>×</b>	None
23. STEREOSCOPIC	24. CONTOURS	S IN GENERAL	25. SPOT ELEVATIONS	26. OTHER PHYSICAL
INSTRUMENT CONTOURS		lone	None	26. OTHER PHYSICAL FEATURES
None	7	one	100112	×
CULTURAL FEATURES				
27. ROADS	28. BUILDINGS	5	29. RAILROADS	30. OTHER CULTURAL FEATURES
×	×		×	X
BOUNDARIES	.t			
31. BOUNDARY LINES	•		32, PUBLIC LAND LINES	/ .
×			N	one
MISCELLANEOUS 33. GEOGRAPHIC NAMES		34. JUNCTION		25 LEGIOULTY OF THE
		34. JUNC, HOR	s V	35. LEGIBILITY OF THE
×			*	×
36. DISCREPANCY OVERLAY	37. DESCRIPTI	VE REPORT	38. FIELD INSPECTION	39. FORMS
None		X	PHOTOGRAPHS	×
40. REVIEWER			SUPERVISOR, REVIEW SECT	ION OR UNIT
James L. Har	ris.		į	
41. REMARKS (See attached she				
FIELD COMPLETION ADDITION		TIONS TO THE A	MANUSCRIPT	
42. Additions and corrections	furnished by th	e field complet	ion survey have been applied	to the manuscript. The manu-
script is now complete ex	cept as noted un	der item 43.	SUPERVISOR	
···				
43. REMARKS		,		
			•	

USCOMM-DC 16282-P61

# 48. Geographic Names List

Balboa Balboa Beach Balboa Island Balboa Pier Bay Island Bay Shores

Cliff Haven Collins Island Corona del Mar

East Jetty Entrance Channel

Grand Canal Gulf of Santa Catalina

Harbor Island

Lido Isle Lido Peninsula Linda Isle

Main Channel

Newport Bay
Newport Beach
Newport Beach (city)
Newport Channel
Newport Heights
Newport Island
Newport Pier

The Rivo Alto The Arches The Rhine The Rialto Turning Basin

West Jetty

Upper Newport Bay

pgraphic Names Section

April 1963

## Review Report Shoreline Maps T-11649 thru T-11654

June 19631

#### 61. General Statement

These 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 land-marks 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

5108	1:10,000	Aug. 1940	revised	to	Mar.	1961
5142	1:80.000	Nov. 1960	revised	to	Dec.	1962

There are no differences of improtance between the above charts and the subject manuscritps.

# 66. Adequacy of Results and Future Surveys

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

Approved by: hours L. C. Lande

Chief, tartographic Br. Chief, Nautical Charles Division

Chief, Photogrammytry Div. Chief, Operations Division

#### NAUTICAL CHART DIVISION

#### **RECORD OF APPLICATION TO CHARTS**

FILE WITH DESCRIPTIVE REPORT OF SURVEY NO.

#### INSTRUCTIONS

A basic hydrographic or topographic survey supersedes all information of like nature on the uncorrected chart.

1. Letter all information.

In "Remarks" column cross out words that do not apply.
 Give reasons for deviations, if any, from recommendations made under "Comparison with Charts" in the Review.

CHART	DATE	CARTOGRAPHER	REMARKS
742	11 25 63	En My Dragon	Full Particule After Verification Review Inspection Signed Via
		//8	Drawing No. Exam No Gor
		1	Part
5/08	2.20.64	JM Millan	Enth After Verification Review Inspection Signed Via
			Drawing No. Applied IN Fatt Fahre Cht.
	1	<u>-</u>	Full Part Before After Verification Review Inspection Signed Via
			Drawing No.
			End Day Reference Afron Walffrening Day Land Land Co. 137
			Full Part Before After Verification Review Inspection Signed Via
			Drawing No.
	1		Full Part Before After Verification Review Inspection Signed Via
			Drawing No.
			Full Day Defendation William Decision D
			Full Part Before After Verification Review Inspection Signed Via
			Drawing No.
			Full Part Before After Verification Review Inspection Signed Via
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	İ	-	Drawing No.
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	<del>                                     </del>		

FORM C&GS-8352 SUPERSEDES ALL EDITIONS OF FORM C&GS-976.

USCOMM-DC 8558-P63