11655

110000

Diag. Cht. No. 5101-2. U. S. DEPARTMENT OF COMMERCE COAST AND GEODETIC SURVEY DESCRIPTIVE REPORT Type of Survey SHORELINE (PHOTOGRAMMETRIC) Field No. Ph-5908 Office No. T-11655 LOCALITY CALIFORNIA CORONA DEL MAR General locality REEF POINT Locality 19:259-1961 CHIEF OF PARTY FRED NATELLA LIBRARY & ARCHIVES Sept. 1963 DATE

USCOMM-DC 5087

DESCRIPTIVE REPORT - DATA RECORD

T -- 11655

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

II, III 13 April 1960 (Ammendment I)

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

PANTOGRAPH SCALE

1:10,000

Scale Factor (III):

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: Elevations shown as (25) refer to mean high water Elevations shown as $(\underline{\delta})$ refer to sounding datum i.e., mean low water or mean lower low water

Reference Station (III):

PELICAN POINT, 1884

Lat.:

339 351 34.712"

Long.: 117° 50' 18.996"

Adjusted X

Unadjusted

Plane Coordinates (IV):

State:

CALIFORNIA

Zone:

Y=

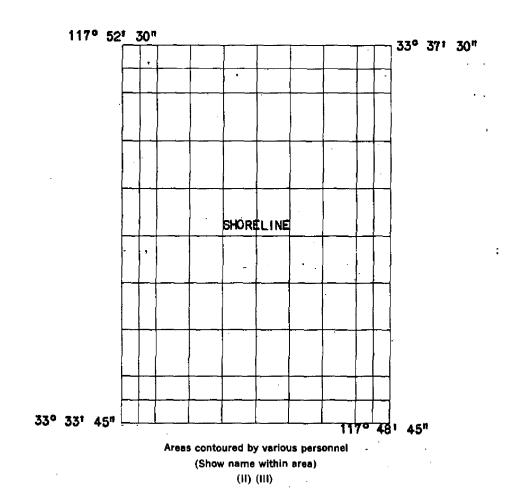
معل جي

517,948.12

1,512,187.86

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.



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: 10-19-61

Control checked by (III):

L. L. GRAVES

Date: 10-31-61

Radial Plot or Stereoscopic

R. E. FUESCHEL

Date: 0cT. 1960

Control extension by (III):

Planimetry

Date: 2-5-62

Stereoscopic Instrument compilation (III):

Contours

Date:

Manuscript delineated by (III):

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

Date: 6-21-62 10-26-62

Photogrammetric Office Review by (III):

J. L. HARRIS, ROUGH DRAFT

J. L. HARRIS, ADVANCE

Date: 2-7-62

11-21-62

Elevations on Manuscript

None.

Date:

checked by (II) (III):

COMM-DC-57842

U.S. DEPARTMENT OF COMMERCE
COAST AND GEODETIC SURVEY

DESCRIPTIVE REPORT - DATA RECORD

Camera (kind or source) (III): 'C&G\$ SINGLE LENS "S"

Date

PHOTOGRAPHS (III)

Time Scale Stage of Tide

L59 8 8224

Number

THRU 8227 10-3-59 11:35 1:30,000 0.51 BELOW M.H.W.

59 8 8257

THRU 8260 " 12:04 " 1.01 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):

Date:

Ratio of Mean

Ranges

Range.

3.8

Range

5.4

Final Drafting by (IV):

Date:

Drafting verified for reproduction by (IV):

Date:

Proof Edit by (IV):

Date:

Land Area (Sq. Statute Miles) (III): 9

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

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

Control Leveling - Miles (II):

Number of Triangulation Stations searched for (II): 11, 12 Recovered: 4 Identified: 1
Number of BMs searched for (II): 0 Recovered: 0 Identified: 0

Number of Recoverable Photo Stations established (III): NONE

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

Remarks:

COMM- DC- 57842

FIELD INSPECTION REPORT

Map Manuscripts T-11655,

T-11656, T-11657, T-11658 and T-11659

Project Ph-5908

February - March 1961

2. Areal Field Inspection:

The shoreline in this area runs in a general northwest - southeast direction. The terrain is mostly rolling hills, giving way to higher hills in the vicinity of Laguna Beach and South Laguna.

There are no railroads in the area.

U. S. Highway 101 Alternate (Coast Highway) parallels the coast throughout the area.

Towns within the area are the southeast section of Newport Beach (Corona Del Mar), Laguna Beach, South Laguna and Dana Point. Private communities are Emerald Bay and Three Arch Bay. Other private communities are being developed all the time.

Field inspection was done in accordance with standard practices.

The quality of the photographs furnished was adequate for field inspection and identification of horizontal control. It is the opinion of the field inspector that color photography could have been used to good advantage in this area, as reefs, ledges, and offshore rocks would have been easier to locate.

3. Horizontal Control:

- (a) No supplemental control was established by the field party.
 - (b) No datum adjustments were made by the field party.
- (c) No control not established by the Coast and Geodetic Survey was searched for or recovered.
- (d) All stations required by the project instructions for control of the plot were recovered and positively identified.

(e) All stations established by the Coast and Geodetic Survey were searched for, except the following:

ABALONE HILL 1884 BROWNING 1933 CENTER 1933 MUSTARD 1884 MUSTARD 2, 1933 SAN JOAQUIN 1874 SAN JOAQUIN 1928 San Joaquin Mtn., Cairn 1953 GUNA 1933 PELICAN HILL 1884

All of these stations are on property of the Irvine Company. Permission to omit recovery of them was granted by letter 631-ms, dated 1 March 1961.

The following stations which were searched for have been listed as lost or destroyed:

Sheet 11655

ARCH ROCK 1884 SPARR 1933
POND 1875 SPURR 1875
Corona Del Mar, Red Water Tank 1911
Newport Beach, South Limits, Tract Office, Tower 1930
Reservoir No. 5, East Mast 1932
White Water Tank East of Rocky Bight 1933

Sheet 11656

EXTRA 1884

EXTRA 2, 1956

Sheet 11657

CORONA 1933 GOFF ISLAND 1884 WINSTON 1884
Laguna Beach Hotel, Center of Sign Support 1933
Laguna Beach, Coast Inn, Green Tower 1933
Laguna Beach, End Pier, North Light Pole 1933
Recreation Point, Flagpole 1933
Two Rocks Point, House, South Chimney 1933

Sheet 11658

None

Sheet 11659

Flagpole East of Mussel Cove 1933

(f) The quality of identification for each station is stated on the control station identification cards. None of the identification is substandard.

4. Vertical Control:

The requirement for vertical control was for the recovery and identification of tidal bench marks only. There are no tidal bench marks within the area covered by this report.

5. Contours and Drainage:

Contours are not applicable.

There are no perennial drains. Several intermittent drains have been indicated on the photographs.

6. Woodland Cover:

Vegetation in the area is sparse. The low brush that covers parts of the unpopulated area is generally not of sufficient density to classify, but in two or three small areas thick sagebrush was classified as scrub.

7. Shoreline and Alongshore Features:

The entire shoreline within the area of this project was inspected by field party personnel who walked along the shore.

- (a) The mean high water line was located as it existed at the time of field inspection by measurements from identifiable points on the photographs and by its relative position to the base of bluffs, rocks, etc. It will be noted that in many places along sand beaches, the mean high water line located by the field party does not coincide with what appears to be the mean high water line on the photographs. In other places it may be at a tangent to the apparent mean high water line. The reason for this is the beaches undergo a constant state of erosion and accretion. The sand erodes away from a beach, then builds up again; or it may wash away from one end of a beach and build up on the other end. One resident stated "You never know what to expect when you come to the beach".
 - (b) The low water line was not delineated.
- (c) The character of the foreshore has been indicated on the photographs. Numerous irregular ledges extend seaward from the bases of the bluffs and cliffs.
- (d) Bluffs and cliffs are characteristic of most of the shoreline in this area. These have been indicated on the photographs.

- (e) There are only two structures along the shoreline. These are a pier at Dana Cove Park and one at Goff Island. They have been indicated on Photographs 59 S 8233 and 59 S 8229 respectively.
 - (f) There are no submarine cables in the area.
 - (g) There are no other shoreline structures in the area.

8. Offshore Features:

The only offshore features in the area are rocks. Their heights were determined by hand-leveling from the mean high water line to a point that was on range in elevation with the top of the rock and the horizon. In one or two instances, elevations were determined by planetable methods. The heights of numerous small rocks close to shore were estimated, with frequest checks by hand level.

Kelp offshore from the low water line was observed along much of the coastline, but could not be identified on the photographs.

9. Landmarks and Aids:

- (a) All charted landmarks for charts were investigated. Two are recommended for deletion and four are recommended for continued use as landmarks. The latter have been identified on the field photographs and their elevations determined by trigonometric methods. All landmarks are listed on Form 567, Landmarks for Charts.
- (b) No interior landmarks or features of significance have been indicated.
 - (c) None.
 - (d) None.
 - (e) None.

10. Boundaries, Monuments and Lines:

Boundaries and monuments not applicable.

The limit lines of Heisler Park in Laguna Beach and Dana Cove Park at Dana Point have been indicated on Photographs 59 S 8227 and 59 S 8233 respectively.

11. Other Control:

No other control was established by the field party. The establishment of topographic stations and photo-hydro control was not required by the project instructions.

12. Other Interior Features:

Interior field inspection was conducted in accordance with project instructions and U. S. Highway 101 Alternate (Coast Highway) was taken as the inshore boundary.

Roads were classified in accordance with Photogrammetric Instruction 56, dated 1 July 1958. Occasional streets were named in populated areas. County road maps and city maps were obtained and are included with the field data for additional street names.

Only one building, the Laguna Hotel, was classified. is a landmark building.

There are no airports or landing fields in the area.

There are no navigable waters, other than the Pacific Ocean.

13. Geographic Names:

Geographic names is the subjects of a special report.

14. Special Reports and Supplemental Data:

- GEOGRAPHIC NAMES, PART II, Pacific Coast, Terminal Island to Data Point, California (Submitted 2-20-61).
- (b) COAST PILOT REPORT, Pacific Coast, Data Point to Point Vicente, California (Submitted January 1961).
- (c) County road maps numberes 42E, 47W, 49W and 52.
- (d) Map of City of Laguna Beach.

Respectfully submitted:

Charles H. Bishop

Charles H. Bishop Surveying Technician

Robert B. Wellow

Robert B. Melby

Surveying Technician

Approved:

red Natella, CAPT,

Portland District Officer

PHOTOGRAMMETRIC PLOT REPORT

MAP MANUSCRIPT T-11655

PROJECT PH-5908

REFER TO THE PHOTOGRAMMETRIC PLOT REPORT FOR THE ENTIRE

PROJECT PH-5908 BY ROBERT E. FUEBCHEL, OCTOBER, 1960.
Filed with Desc. Report T- 11640

FORM 164 (4-23-54)

U.S. DEPARTMENT OF COMMERCE DESCRIPTIVE REPORT

DAST. AND GEODETIC SURVEY TROL RECORD

COMM- DC- 57843 FROM GRID OR PROJECTION LINE IN METERS 13 FORWARD NON 3-9-60 SCALE FACTOR DISTANCE FROM GRID OR PROJECTION LINE IN METERS 417.4) 612.6) (809.1) 857.1) 120.7) 402.8) (1509.3)(1075.0)625.4) 433.2) 637.1) (1256.5)N.A. 1927 - DATUM FORWARD 898.6 6.999 886.9 911.4 14.7 449.0 714.9 267.5 1106.6 1403.3 1121.2 1090.8 DATUM SCALE OF MAP 1:10,000 O.N.W. OR PROJECTION LINE IN METERS (2051.88)(1321.65)(4951.67) (2654.49)(2812.14) (1421.22)(2090.08)(1369.41) (2009.71) (395,85) (3526.96)(4122.50)DISTANCE FROM GRID IN FEET, (BACK) FORWARD 2948.12 2187.86 3578.78 2909.92 3630.59 2990.29 4604.15 3678.35 48.33 1473.04 877.50 2345.51 LONGITUDE OR * COORDINATE LATITUDE OR V.COORDINATE 3-9-60 517,948.12 1,512,187,86 518,578,78 1,512,909,92 519,604.15 1,508,678,35 515,048,33 518,630.59 1,512,990,29 1,516,473.04 1,505,877,50 PROJECT NO. PH-5908 532.345.51 DATUM A.N 1927 = = = Ħ = SOURCE OF INFORMATION OFFICE ZONE VI (HADEX) COMP. P.89 P. 12 P.89 L.A. 0.0 C.H.B. = BIGHT, 1884 MAP T. 11655 PELICAN POINT 1 FT.= 3048006 METER SPUR 2, 1932 ARCH ROCK 2, œ ⋖ STATION STA. 1958 1884 SUB. STA. ROCKY Sue.

DATE

CHECKED BY:....

DATE.

COMPUTED BY:..

COMPILATION REPORT

MAP MANUSCRIPT T-11655

PROJECT PH-5908

31. DELINEATION:

COMPILATION WAS BY KELSH INSTRUMENT.

32. CONTROL:

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

33. SUPPLEMENTAL DATA:

SHEET No. 42W, MAP OF ORANGE COUNTY, SCALE 1 INCH = 600 FT.

34. CONTOURS AND DRAINAGE:

CONTOURS ARE NOT APPLICABLE.

DRAINAGE HAS BEEN COMPILED AS INDICATED BY THE FIELD INSPEC-TION AND IS IN GOOD AGREEMENT WITH THE U.S.G.S QUADRANGLE.

35. SHORELINE AND ALONGSHORE DETAILS:

The field inspection of the mean high-water line was adequate. No low-water photography was available and the low-water line was not delineated. Field inspection indicated the character of rock ledges and foul areas alongshore and their extent was delineated from office interpretation of the photographs. Heights of the baring of the several rocks and foul areas adjacent to the shore-line was furnished by the field unit for the time of field inspection. These data were transposed to the vertical datum of the manuscript.

36. OFFSHORE DETAILS:

NONE.

37. LANSMARKS AND AIDS:

None.

38. CONTROL FOR FUTURE SURVEYS:

NONE.

39. JUNCTIONS:

Satisfactory junctions were made with T=11656 on the south and with T=11654 on the west. There are 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. $7\frac{1}{2}$ 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 1:234,270 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.

TEMB TO BE CARRIED FORWARD:

NONE.

FRED NATELLA, CAPT, C&GS PORTLAND DISTRICT OFFICER

JAMES L. HARRIS CARTOGRAPHER

49. NOTES FOR THE HYDROGRAPHER:

NomE.

C&GS FORM 1002				U.S. DEPARTMENT OF COMMERCE	
,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	PHO	TOGRAMMET	RIC OFFICE REVIEW		
		¹ T	10363 11655		
1. PROJECTION AND GRIDS	2. TITLE		3. MANUSCRIPT NUMBERS	4. MANUSCRIPT SIZE	
×.	×		×	×	
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	
X	COURTE	(Topographi	c stations)	None	
8. BENCH MARKS	9. PLOTTING		One.	11. DETAIL POINTS	
None	FIXES		10. PHOTOGRAMMETRIC PLOT REPORT	None	
ALONGSHORE AREAS (Nautical	Chart Data)		<u>L</u> .		
12. SHORELINE	13. LOW-WATER	LINE	14. ROCKS, SHOALS, ETC.	15, BRIDGES	
×	×		×	None	
16. AIDS TO NAVIGATION	17. LANDMARK		18. OTHER ALONGSHORE PHYSICAL FEATURES	19. OTHER ALONGSHORE CULTURAL FEATURES	
None	None	.	×	×	
PHYSICAL FEATURES					
20. WATER FEATURES		21. NATURAL	GROUND COVER	22. PLANETABLE CONTOURS	
×			×	None	
23. STEREOSCOPIC INSTRUMENT CONTOURS	24. CONTOURS		25. SPOT ELEVATIONS	26. OTHER PHYSICAL FEATURES	
None	None		None	×	
CULTURAL FEATURES					
27. RO ADS	28. BUILDINGS	_	29. RAILROADS	30. OTHER CULTURAL FEATURES	
×	<u> </u>	·	None	×	
BOUNDARIES 31. ROUNDARY LINES			32. PUBLIC LAND LINES		
31. BOUNDARY LINES None			None		
MISCELLANEOUS					
33. GEOGRAPHIC NAMES		34. JUNCTION	s	35. LEGIBILITY OF THE	
×		 	×	×	
36. DISCREPANCY OVERLAY	37. DESCRIPTI	VE REPORT	38. FIELD INSPECTION PHOTOGRAPHS	39. FORMS	
None	>	<	×	K	
40. REVIEWER	<u> </u>		SUPERVISOR, REVIEW SECT	ION OR UNIT	
James L. Harris					
41. REMARKS (See attached she					
FIELD COMPLETION ADDITION				A- Al	
script is now complete exc	cept as noted und	ler item 43.		to the manuscript. The manu-	
COMPILER			SUPERVISOR		
			į		
43. REMARKS			I	· · · · · · · · · · · · · · · · · · ·	

48. Geographic Names List

Buck Gully

Cameo Shores

Corona del Mar

Crystal Cove

Gulf of Santa Catalina

Los Trancos Canyon

Muddy Canyon

Pelican Point

Reef Point

Scotchmens Cove

Shore Cliffs

Geographic Names Section

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 agreemtne 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	a Poir	nt, Calif.		1:24,000	U.S.G.S.	1948
	Lagu	ana Be	each, 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.

Approved by

Chief, Cartographic Branch

Chief, Nautical Chart Division

Chief Motogrammerly Div. 7 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.

2. In "Remarks" column cross out words that do not apply.

3. Give reasons for deviations, if any, from recommendations made under "Comparison with Charts" in the Review.

CHART	DATE	CARTOGRAPHER	REMARKS
5142	11263.	Ent My Jogni	Full Part Before After Verification Review Inspection Signed Via
	<u> </u>	1 / 1 / 1 / 1 / 1 / 1 / 1 / 1 / 1 / 1 /	Drawing No. Excen No Con
		1	p. 1
5108	2-20-64	I Ma Willen	After Verification Review Inspection Signed Via
			Drawing No. Applied in Fatt Entire Chart
			Full Dark Pofess Afras Varification Davids Instantian City J Viv
			Full Part Before After Verification Review Inspection Signed Via Drawing No.
			Did wang teer
			Full Part Before After Verification Review Inspection Signed Via
			Drawing No.
			Full Part Before After Verification Review Inspection Signed Via
			Drawing No.
			Full Part Before After Verification Review Inspection Signed Via
-			Drawing No.
······	<u> </u>		Full Part Before After Verification Review Inspection Signed Via
]		Drawing No.
			Full Part Before After Verification Review Inspection Signed Via
			Drawing No.
	11 12 20 0000 11 0		
			Full Part Before After Verification Review Inspection Signed Via
	ļ		Drawing No.
			Full Part Refore After Verification Povice: Leavening City 137
			Full Part Before After Verification Review Inspection Signed Via Drawing No.