

11881

orig

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 6011 Office No. T-11881

LOCALITY

State CALIFORNIA

General locality SAN DIEGO

Locality POINT LOMA

1960-1963

CHIEF OF PARTY

FRED NATELLA, CHIEF OF PARTY
P. A. STARK, PHOTOGRAMMETRIC OFFICE

LIBRARY & ARCHIVES

DATE

USCOMM-DC 5087

11881

DESCRIPTIVE REPORT - DATA RECORD

T - 11881

PROJECT NO. (II):			
21033			
FIELD OFFICE (II):		CHIEF OF PARTY	
OCEANSIDE, CALIFORNIA		FRED NATELLA	
PHOTOGRAMMETRIC OFFICE (III):		OFFICER-IN-CHARGE	
PORTLAND, OREGON		P. A. STARK	
INSTRUCTIONS DATED (II) (III):			
	DECEMBER 20, 1960	II, III	
AMENDMENT 1:	AUGUST 31, 1961	II, III	
AMENDMENT 1:	APRIL 25, 1963	III	
AMENDMENT 2:	OCTOBER 1, 1963	III	
METHOD OF COMPILATION (III):			
KELSH INSTRUMENT			
MANUSCRIPT SCALE (III):		STEREOSCOPIC PLOTTING INSTRUMENT SCALE (III):	
1:10,000		1:6000	
		PANTOGRAPH SCALE: 1:10,000	
DATE RECEIVED IN WASHINGTON OFFICE (IV):		DATE REPORTED TO NAUTICAL CHART BRANCH (IV):	
APPLIED TO CHART NO.		DATE:	DATE REGISTERED (IV):
GEOGRAPHIC DATUM (III):		VERTICAL DATUM (III):	
N.A. 1927		MEAN SEA LEVEL EXCEPT AS FOLLOWS: <i>Elevations shown as (25) refer to mean high water</i> <i>Elevations shown as (3) refer to sounding datum</i> <i>i.e., mean low water or mean lower low water</i>	
REFERENCE STATION (III):			
BLUFF, 1899			
LAT.:	LONG.:	<input checked="" type="checkbox"/> ADJUSTED	
32° 40' 17.356"	117° 14' 07.898"	<input type="checkbox"/> UNADJUSTED	
PLANE COORDINATES (IV):		STATE	ZONE
y = 185,109.60	x = 1,696,709.89	CALIFORNIA	6
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): R. B. MELBY		DATE: MAR. TO MAY 1962 OCT. 1962 TO APR. 1963
MEAN HIGH WATER LOCATION (III) (STATE DATE AND METHOD OF LOCATION): FIELD INSPECTION APRIL 1962. COMPILATION BY KELSH INSTRUMENT.		
PROJECTION AND GRIDS RULED BY (IV): A. ROUNDTREE		DATE 10-15-63
PROJECTION AND GRIDS CHECKED BY (IV): R. KORNSPAN		DATE 10-16-63
CONTROL PLOTTED BY (III): L. L. GRAVES		DATE 6-24-64
CONTROL CHECKED BY (III): R. H. MEYER		DATE 6-24-64
RADIAL PLOT OR STEREOSCOPIC CONTROL EXTENSION BY (III): H. P. EICHERT		DATE JUNE, 1964
STEREOSCOPIC INSTRUMENT COMPILATION (III):	PLANIMETRY R. H. MEYER	DATE 7-22-64
	CONTOURS	DATE
MANUSCRIPT DELINEATED BY (III):		DATE
SCRIBING BY (III): J. L. HARRIS STICK-UP: C. C. HARRIS		DATE 9-25-64 10-27-64
PHOTOGRAMMETRIC OFFICE REVIEW BY (III): ROUGH DRAFT: J. L. HARRIS ADVANCE: L. L. GRAVES		DATE 7-24-64 12-11-64
REMARKS:		

DESCRIPTIVE REPORT - DATA RECORD

CAMERA (KIND OR SOURCE) (III):

C&GS TYPE S

PHOTOGRAPHS (III)

NUMBER	DATE	TIME	SCALE	STAGE OF TIDE
60 S 479A	9-2-60	09:47	1:20,000	3.2' ABOVE M.L.L.W.
RATIO PRINT AT 1:10,000 ONLY				
60 S 483A AND 484A	9-2-60	10:00	1:30,000	3.0' " "
RATIO PRINTS AT 1:10,000				
60 S 629A THRU 633A	9-2-60	11:57	1:10,000	1.6' " "
685A AND 686A	"	12:25	"	1.4' " "
RATIO PRINTS OF ABOVE AT 1:5000				

TIDE (III)

DIURNAL

	RATIO OF RANGES	MEAN RANGE	SPRING RANGE
REFERENCE STATION: SAN DIEGO, CALIFORNIA		4.2	5.8
SUBORDINATE STATION: POINT LOMA, CALIFORNIA		3.7	5.3
SUBORDINATE STATION:			
WASHINGTON OFFICE REVIEW BY (IV):	DATE:		
PROOF EDIT BY (IV):	DATE:		
NUMBER OF TRIANGULATION STATIONS SEARCHED FOR (II): 10	RECOVERED: 8	IDENTIFIED: 4	
NUMBER OF BM(S) SEARCHED FOR (II):	RECOVERED:	IDENTIFIED:	
SEE FIELD INSPECTION REPORT			
NUMBER OF RECOVERABLE PHOTO STATIONS ESTABLISHED (III): 5			
NUMBER OF TEMPORARY PHOTO HYDRO STATIONS ESTABLISHED (III): NONE			

REMARKS:

FIELD INSPECTION REPORT

MAP MANUSCRIPT T-11881

PROJECT 21033

REFER TO THE FIELD INSPECTION REPORTS BY ROBERT B. MELBY FOR T-11878 THRU T-11881 DATED MARCH 1962 TO MAY 1962, AND FOR T-11880 THRU T-11893 DATED OCTOBER 1962 TO APRIL 1963, INCLUDED WITH THE DESCRIPTIVE REPORT FOR T-11879.

PHOTOGRAMMETRIC PLOT REPORT

MAP MANUSCRIPT T-11881

PROJECT 21033

REFER TO THE PHOTOGRAMMETRIC PLOT REPORT BY HENRY P. EICHERT,
DATED JUNE 1964, INCLUDED WITH THE DESCRIPTIVE REPORT FOR T-11879.

COMPILATION REPORT
 MAP MANUSCRIPT T-11881
 PROJECT 21033

31. DELINEATION:

PLANIMETRY WAS COMPILED BY USE OF THE KELSH INSTRUMENT.

32. CONTROL:

REFER TO THE COMPILATION REPORT FOR T-11879.

33. SUPPLEMENTARY DATA:

THE FOLLOWING MAPS AND PLANS WERE CONSULTED DURING THE COMPILATION OF THIS MANUSCRIPT:

FORT ROSECRANS RESERVATION BOUNDARY LAND USE MAP
 NUCLEAR SUBMARINE PIER VICINITY MAP AND SITE PLAN
 CABULLO NATIONAL MONUMENT GENERAL DEVELOPMENT PLAN
 SEWAGE TREATMENT PLANT SITE PLAN - 2 SHEETS
 SEWAGE TREATMENT PLANT OCEAN OUTFALL - 5 SHEETS
 SALINE WATER COVERBION PLANT - 2 SHEETS
 PT. LOMA U.S. MILITARY RESERVATION MASTER SHORE STATION
 DEVELOPEMENT PLAN - 5 SHEETS

34. CONTOURS AND DRAINAGE:

CONTOURS ARE NOT APPLICABLE.

NO DRAINAGE WAS FIELD INSPECTED AND NONE HAS BEEN DELINEATED ON THIS MANUSCRIPT.

35. SHORELINE AND ALONGSHORE DETAILS:

THE MEAN HIGHWATER LINE WAS COMPILED AS FIELD INSPECTED ON THE 1:5000 RATIO PRINTS. THE SOUTHERN END OF THE BOULDER JETTY EXTENDING SOUTH FROM ZUINGA POINT WAS LOCATED BY THEODOLITE. THE APPROXIMATE LIMITS OF ROCK LEDGES WERE DELINEATED AS SHOWN ON THE FIELD INSPECTION PHOTOGRAPHY ALONG THE WEST SHORE OF POINT LOMA. SEVERAL ALONGSHORE ROCKS WERE FIELD INSPECTED AND DELINEATED. WHERE BARING DATA WAS FURNISHED, THE HEIGHTS WERE ADJUSTED TO THE MANUSCRIPT DATUM. TWO SUBMERGED PIPELINES AND A SUBMERGED CABLE HAVE BEEN SHOWN. TWO PILES SOUTH OF BALLAST POINT WERE LOCATED DURING COMPILATION. THE CHARACTER OF THE SHORELINE AREA WAS INDICATED BY LABEL. NO LOW WATER LINE WAS INSPECTED OR DELINEATED.

36. OFFSHORE DETAILS:

THREE DOLPHINS EAST OF BALLAST POINT AND A LONE PILE EAST OF STATION BLUFF, 1899, WERE LOCATED BY SEXTANT FIX.

37. LANDMARKS AND AIDS:

ONE LANDMARKS AND THREE NON-FLOATING AIDS WERE RECOMMENDED FOR CHARTING AND FORMS 567 ARE SUBMITTED. AN IDENTIFICATION CARD WAS FURNISHED BY THE FIELD PARTY FOR AID TO NAVIGATION "POINT LOMA RADIO BEACON". THIS STRUCTURE, SHOWN ON THE MANUSCRIPT AS A NON-FLOATING AID, IS LOCATED ABOUT 150 METERS NORTHWEST OF POINT LOMA LIGHT. AS THE 1964 LIGHT LIST (No. 1) INDICATES THAT THE RADIO BEACON ANTENNA IS AT THE POINT LOMA LIGHT TOWER, THE DISCREPANCY SHOULD BE INVESTIGATED BY THE FIELD EDIT UNIT. THE RADIO BEACON WAS NOT INCLUDED ON THE FORM 567.

38. CONTROLS FOR FUTURE SURVEYS:

NONE.

39. JUNCTIONS:

SATISFACTORY JUNCTIONS WERE MADE WITH T-11879 TO THE NORTH AND WITH T-11882 TO THE EAST. THERE ARE NO CONTEMPORARY SURVEYS TO THE SOUTH OR WEST.

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

COMPARISON WAS MADE WITH THE U.S.G.S. 7½ MINUTE POINT LOMA, CALIFORNIA QUADRANGLE, SCALE 1:24,000, EDITION 1948.

47. COMPARISON WITH NAUTICAL CHARTS:

COMPARISON WAS MADE WITH NAUTICAL CHART 5101, SCALE 1:234,270 AT LAT. 33° 20', 6TH EDITION, OCT. 2, 1961, REVISED 9-24-64,; WITH NAUTICAL CHART 5105, SCALE 1:12,000 AT LAT. 32° 42', 10TH EDITION, FEBRUARY 12, 1962, REVISED 2-11-63; AND WITH NAUTICAL CHART 5107, SCALE 1:20,000 AT LAT. 32° 40', 23RD EDITION, NOV. 12, 1962.

APPROVED:

for *Leo F. Beugnot*
P. A. STARK, CDR, C&GS
PORTLAND FIELD OFFICER

SUBMITTED:

James L. Harris
JAMES L. HARRIS
CARTOGRAPHER

DESCRIPTIVE REPORT CONTROL RECORD

MAP T- 11881 PROJECT NO: 21033 SCALE OF MAP 1:10,000 SCALE FACTOR _____

STATION	SOURCE OF INFORMATION (INDEX)	DATUM	LATITUDE OR Y COORDINATE LONGITUDE OR X COORDINATE	DISTANCE FROM GRID OR PROJECTION LINE IN METERS (1 Ft. = 3048006 meter) FORWARD (BACK)
BLUFF, 1899	ZONE 6 P.C. 24	N.A. 1927	185,109.60 1,696,709.89	
NORTH ISLAND, ZUNINGA PT. JETTY, TIDE GAUGE, 1933	P.C. 27	"	187,859.24' 1,700,603.53	
PT. LOMA LIGHTHOUSE (NEW) 1892	P.C. 23	"	182,773.07 1,694,758.75	
PT. LOMA LIGHTHOUSE (OLD) 1904	P.C. 240	"	185,283.08 1,695,308.57	
PT. LOMA LIGHTHOUSE (OLD) ECC., 1938	P.C. 58	"	185,278.48 1,695,345.63	
ROAD 2 U.S.E., 1933	P.C. 23	"	187,932.63 1,696,257.36	
SAN DIEGO CHANNEL, BREAKWATER, WHITWASHED ROCK, 1933	P.C. 28	"	185,436.50 1,700,764.88	
SAN DIEGO BAY, BALLAST POINT LIGHT, 1963	FIELD COMP.	"	190,477.68 1,697,879.21	
				12.

COMPUTED BY L.L.G. DATE 6-18-64 CHECKED BY R.H.M. DATE 6-19-64

48. GEOGRAPHIC NAME LIST:

GEOGRAPHIC NAMES WERE FURNISHED BY THE WASHINGTON OFFICE ON A FINAL NAME SHEET, A COPY OF THE U.S.G.S. POINT LOMA, CALIFORNIA 7½ MINUTE QUADRANGLE, SCALE 1:24,000, EDITION 1953. ALPHABETICAL LIST OF THESE NAMES FOLLOWS:

BALLAST POINT
CABRILLO NATIONAL MONUMENT
CORONADO
NORTH ISLAND
PACIFIC OCEAN
POINT LOMA
ZUNIGA POINT
ZUNIGA SHOAL

Names approved
8-3-65
A.J. Wright

49. NOTES FOR THE HYDROGRAPHER:

THE LOCATION OF POINT LOMA RADIO BEACON SHOULD BE INVESTIGATED. THE 1964 LIGHT LIST, No. 1, APPARENTLY PLACES THIS ANTENNA AT THE TOWER FOR POINT LOMA LIGHT WHEREAS THE IDENTIFIED POSITION IS LOCATED APPROXIMATELY 150 METERS NORTHWEST OF THE LIGHT.

PHOTOGRAMMETRIC OFFICE REVIEW

T. 19003 11881

1. PROJECTION AND GRIDS ✓	2. TITLE ✓	3. MANUSCRIPT NUMBERS ✓	4. MANUSCRIPT SIZE ✓
CONTROL STATIONS			
5. HORIZONTAL CONTROL STATIONS OF THIRD-ORDER OR HIGHER ACCURACY ✓	6. RECOVERABLE HORIZONTAL STATIONS OF LESS THAN THIRD-ORDER ACCURACY (Topographic stations) ✓		7. PHOTO HYDRO STATIONS None
8. BENCH MARKS None	9. PLOTTING OF SEXTANT FIXES ✓	10. PHOTOGRAMMETRIC PLOT REPORT ✓	11. DETAIL POINTS None
ALONGSHORE AREAS (Nautical Chart Data)			
12. SHORELINE ✓	13. LOW-WATER LINE None	14. ROCKS, SHOALS, ETC. ✓	15. BRIDGES None
16. AIDS TO NAVIGATION ✓	17. LANDMARKS ✓	18. OTHER ALONGSHORE PHYSICAL FEATURES ✓	19. OTHER ALONGSHORE CULTURAL FEATURES ✓
PHYSICAL FEATURES			
20. WATER FEATURES ✓		21. NATURAL GROUND COVER ✓	22. PLANETABLE CONTOURS None
23. STEREOSCOPIC INSTRUMENT CONTOURS None	24. CONTOURS IN GENERAL None	25. SPOT ELEVATIONS None	26. OTHER PHYSICAL FEATURES ✓
CULTURAL FEATURES			
27. ROADS ✓	28. BUILDINGS ✓	29. RAILROADS None	30. OTHER CULTURAL FEATURES ✓
BOUNDARIES			
31. BOUNDARY LINES ✓		32. PUBLIC LAND LINES ✓	
MISCELLANEOUS			
33. GEOGRAPHIC NAMES ✓		34. JUNCTIONS ✓	35. LEGIBILITY OF THE MANUSCRIPT ✓
36. DISCREPANCY OVERLAY	37. DESCRIPTIVE REPORT	38. FIELD INSPECTION PHOTOGRAPHS ✓	39. FORMS
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			

TO BE CHARTED
~~NON-FLOATING AIDES~~
~~TO NAVIGATION~~

STRIKE OUT TWO

~~NON-FLOATING AIDES~~ OR LANDMARKS FOR CHARTS

Portland, Oregon 13 Oct. 1964

I recommend that the following objects which have ~~(been examined)~~ been inspected from seaward to determine their value as landmarks be charted on ~~(the appropriate)~~ the charts indicated.

The positions given have been checked after listing by E. H. Meyer

STATE	CHARTING NAME	DESCRIPTION	SIGNAL NAME	POSITION				METHOD OF LOCATION AND SURVEY NO.	DATE OF LOCATION	RESOR CHART	RESOR CHART	CHARTS AFFECTED	
				LATITUDE*		LONGITUDE*							DATUM
				°	'	°	'						
CALIFORNIA	OLD TOWER (ABAND. L.H.)	Brick (PT IOWA LIGHTHOUSE (OLD), 190A) ht - 47' (464')		32	40	117	14	N.A. 1927	T-1.190A T-11881	4-27-62	X	5105, 5107 5101	

P. A. Stark Chief of Party

This form shall be prepared in accordance with Hydrographic Manual, Publication 20.2, Sec. 1-55, 2-39, 6-36, 7-18 to 22 inclusive, and Fig. 79. Positions of charted landmarks and nonfloating aide to navigation, if redetermined, shall be reported on this form. Revisions shall show both the old and new positions. The data should be considered for the charts of the area and not by individual field survey sheets. Information under each column heading should be given.

NONFLOATING AIDS ~~OR Buoys~~ FOR CHARTS

TO BE CHARTED
~~TO BE CHARTED~~
~~TO BE CHARTED~~

STRIKE OUT TWO

Portland, Oregon 13 Oct. 19 64

I recommend that the following objects which have ~~(been)~~ been inspected from seaward to determine their value as landmarks be charted on ~~(detailed)~~ the charts indicated.

The positions given have been checked after listing by R. H. Meyer

STATE CALIFORNIA		POSITION				Chief of Party						
CHARTING NAME	DESCRIPTION	SIGNAL NAME	LATITUDE *		LONGITUDE *		METHOD OF LOCATION SURVEY No.	DATE OF LOCATION OF	HARBOR CHART	INSHORE CHART	OFFSHORE CHART	CHARTS AFFECTED
			D. M. METERS	" "	D. P. METERS	" "						
	Ballast Point Light (SAN DIEGO, BALLEST POINT LIGHT, 1963)		32 41	10 578 325.8	117 13	54.811 1427.9	N.A. 1927	Tri. 1963 T-11881	4-27-62	X		5101 5105, 5107
	Ballast Point Obstruction Light		32 41	12.08 372.0	117 13	57.14 1488.3	"	PhotoComp T-11881	"	X		5105, 5107
	Point Loma Light (PT LOMA LIGHTHOUSE (NEW) 1892)		32 39	54.055 1665.3	117 14	30.461 793.7	"	Tri. 1892 T-11881	"	X		5101 5105, 5107

This form shall be prepared in accordance with Hydrographic Manual, Publication 20.2, Sec. 1-55, 2-39, 6-36, 7-18 to 22 inclusive, and Fig. 79. Positions of charted landmarks and nonfloating aids to navigation, if redetermined, shall be reported on this form. Revisions shall show both the old and new positions. The data should be considered for the charts of the area and not by individual field survey sheets. Information under each column heading should be given.

* TABULATE SECONDS AND METERS

Review Report
Shoreline Maps
T-11878 through T-11883, 11892 and 11893
September 1965

61. General Statement

Area - The project encompasses the California Coast from Dana Point to Mexico.

Purpose - The purpose of this project is to provide shoreline maps for our nautical and aeronautical charting program.

62. Comparison with Registered Topographic Maps

T-5371	1:10,000	1934
T-5372	1:10,000	1934
T-5373	1:10,000	1934
T-5374	1:10,000	1934

Cultural and shoreline changes have been continuous with extensive changes in the urban areas.

63. Comparison with Maps of Other Agencies

San Ysidro	1:24,000	1953
National City	1:24,000	1953
Point Loma	1:24,000	1953

Considering the time interval the maps are in comparatively close agreement.

64. Comparison with Contemporary Hydrographic Surveys

None

65. Comparison with Nautical Charts

5101	1:234,270	April 1965
5105	1:12,000	1962
5107	1:20,000	1964

There are differences in the San Diego harbor area, otherwise they are in comparatively good agreement.

66. Adequacy of Results and Future Surveys

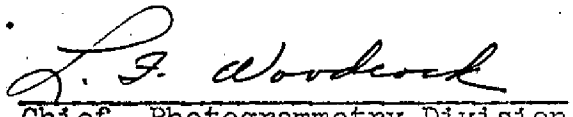
These surveys were prepared according to project instructions, and comply with the National Standards of Map Accuracy.

Reviewed by:


L. C. Lande

Approved by:


Chief, Photogrammetric Branch


Chief, Photogrammetry Division

Chief, Nautical Chart Division

RECORD OF APPLICATION TO CHARTS

FILE WITH DESCRIPTIVE REPORT OF SURVEY NO. T-11881

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
			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.
			Full Part Before After Verification Review Inspection Signed Via
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