

11640

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-5908 Office No. T-11640

LOCALITY

State CALIFORNIA

General locality LOS ANGELES

Locality WILMINGTON

1959-1960

CHIEF OF PARTY

FRED NATELLA

LIBRARY & ARCHIVES

DATE Sept. 1963

USCOMM-DC 5087

11640

DESCRIPTIVE REPORT - DATA RECORD

T - 11640

Project No. (II): PH05908

Quadrangle Name (IV):

Field Office (II): SANTA ANA, CALIFORNIA

Chief of Party: LORNE G. TAYLOR & FRED NATELLA

Photogrammetric Office (III): PORTLAND, OREGON

UNIT CHIEF: R. B. MELBY

Officer-in-Charge: LORNE G. TAYLOR

& FRED NATELLA

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

Copy filed in Division of

AMENDMENT 1: 13 APRIL 1960

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): FEB 18 1963

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 (6) refer to sounding datum

i.e., mean low water or mean lower low water

Reference Station (III): BAG, 1949

Lat.: No GEOGRAPHIC POSITION
PUBLISHED

Long.:

Adjusted
Unadjusted

Plane Coordinates (IV):

State: CALIFORNIA Zone: VII

Y= 4,030,145.82

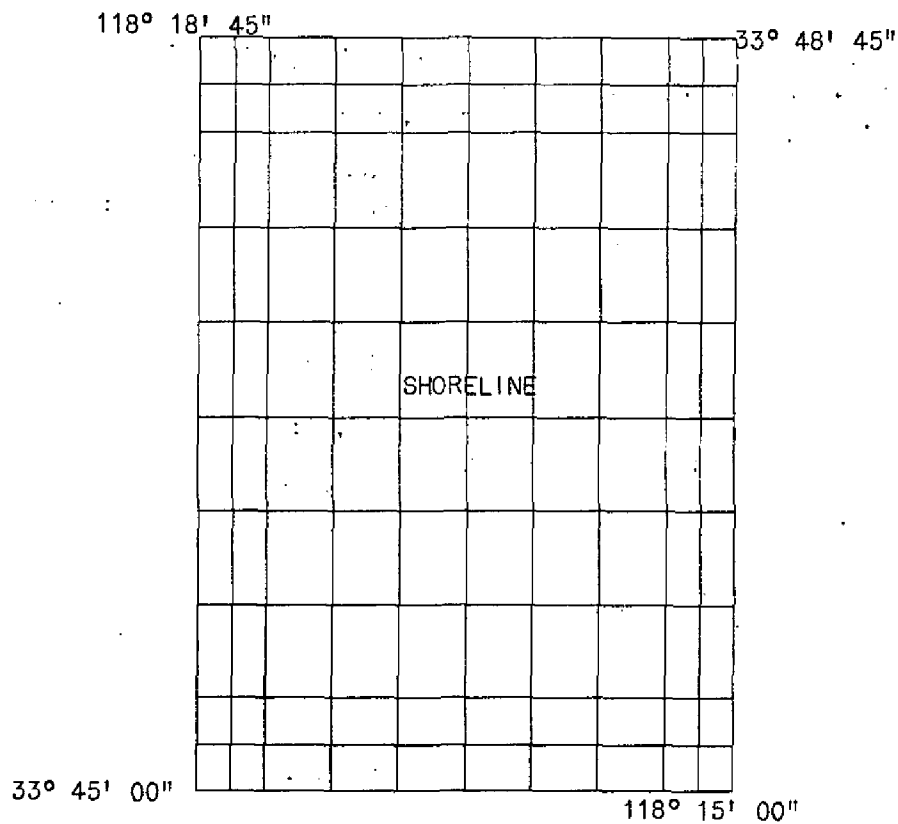
X= 4,211,479.02

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): R. B. MELBY & L. L. RIGGERS Date: APRIL - MAY 1960

Planetable contouring by (II): Date:

Completion Surveys by (II): Date:

Mean High Water Location (III) (State date and method of location): APRIL 1960 BY FIELD INSPECTION.
COMPILATION BY KELGH INSTRUMENT..

Projection and Grids ruled by (IV): R.A.C. Date: 9-27-60

Projection and Grids checked by (IV): J.D.C. Date: 10-12-60

Control plotted by (III): C. H. BISHOP Date: 11-6-61

Control checked by (III): L. L. GRAVES Date: 11-9-61

Radial Plot or Stereoscopic
Control extension by (III): R. E. FUESCHEL Date: OCT. 1960

Planimetry D. N. WILLIAMS Date: 5-3-61
Stereoscopic Instrument compilation (III):
Contours Date:

Manuscript delineated by (III): J. L. HARRIS, SCRIBING Date: 9-17-62
C. C. HARRIS, STICK-UP 12-12-62

Photogrammetric Office Review by (III): J. L. HARRIS, ROUGH DRAFT Date: 6-8-62
J. L. HARRIS, ADVANCE 12-12-62

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

DESCRIPTIVE REPORT - DATA RECORD

5. U.S. DEPARTMENT OF COMMERCE
COAST AND GEODETIC SURVEY

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

Number	Date	PHOTOGRAPHS (III)		Scale	Stage of Tide
		Time			
59-S-8177					
THRU 8179	10-3-59	11:03		1:30,000	0.3' ABOVE M.H.W.
59-S-8154					
THRU 8156	"	10:45		"	0.5' " "
59-S-7985					
THRU 7990	10-2-59	14:35		1:10,000	AT M.L.L.W.
59-S-7995					
THRU 8006	"	14:45		"	" "

(COLOR TRANSPARENCIES)

Tide (III)

Reference Station: LOS ANGELES (OUTER HARBOR)
Subordinate Station: LOS ANGELES HARBOR, MORMON ISLAND
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):

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

Date:

Date:

Date:

Date:

Land Area (Sq. Statute Miles) (III): 11
Shoreline (More than 200 meters to opposite shore) (III): 7
Shoreline (Less than 200 meters to opposite shore) (III):
Control Leveling - Miles (II):
Number of Triangulation Stations searched for (II): 21
Number of BMs searched for (II): 22
Number of Recoverable Photo Stations established (III): 16
Number of Temporary Photo Hydro Stations established (III):

Recovered: 8 Identified: 2
Recovered: 21 Identified: 21

Remarks:

FIELD INSPECTION REPORT

Project Ph-5908
Sheets 11640 & 11646
San Pedro, California

April - May 1960

2. Areal Field Inspection:

The area along the Pacific Coast in the vicinity of Point Fermin is mostly bluffs, about 100 feet in height. The bluffs are of an unstable composition and slides are frequent. Near Cabrillo Beach the bluffs give way to a low shoreline and the highly developed harbor facilities of Los Angeles Harbor.

The area is served by a vast network of highways, streets and railroads.

An extensive import-export trade is conducted at the various port facilities. Much of the marine commerce is petroleum products.

Near the southwest end of Terminal Island is a small craft basin that caters to the fishing trade. There are numerous fish canneries and processing plants in the area, and it is known as Fish Harbor.

Terminal Island is the location of a U. S. Naval Air Station, now inactive as the airfield is closed. Various naval activities are still in operation in the buildings of the air station.

There are numerous oil wells on Terminal Island, as well as the mainland in the vicinity of Wilmington. Most of the oil derricks have been removed and only the pumping facilities remain. Wilmington has several petroleum refineries to process the large amounts of crude oil obtained locally.

San Pedro, Wilmington and the western portion of Terminal Island are incorporated in the City of Los Angeles.

A large portion of the harbor is in a subsidence area. The subsidence consists of both vertical and horizontal shift in the land mass. The center and most affected area appears to be on Terminal Island, near triangulation station EDISON, 1933. Southern California Edison Co. reports nearly 27 feet of vertical displacement since 1928 in the center area.

The field photographs were satisfactory. The color photography furnished the field unit was used in conjunction with the black and white photography during field inspection. The color photography appear to offer good possibilities as some shoreline and offshore features are easily distinguished. Aids to navigation are easily discernible on the color photography.

3. Horizontal Control:

- (a) The following supplemental control station was established by traverse methods:

POINT FERMIN LIGHT

- (b) No datum adjustments were made in the field.
- (c) Only the stations established by the bureau were searched for.
- (d) All stations required for photo-control were identified.
- (e) The following stations were reported as lost on form 526:

Sheet 11640

BRIGHTON BEACH HOTEL, FLAGSTAFF, (no date)
 DRUM, 1872
 LONG BEACH, YACHT CLUB TOWER, 1933
 RATTLESNAKE ISLAND, 1859
 SAN PEDRO, LOS ANGELES SHIP BUILDING CO., TANK, 1920
 SAN PEDRO, LOS ANGELES SHIP BUILDING CO., TANK, 1944 U.S.E.
 SAN PEDRO, PIERA, BERTH 155-156, ROUND BOTTOM TANK, 1933
 SAN PEDRO, WAREHOUSE, EAST GABLE, 1907
 SEPULVEDO, 1859
 WILMINGTON, PATTEN-BLINN LUMBER CO., STACK, 1933
 WILMINGTON TANK, 1907

Sheet 11646

EAST SLOPE, 1870
 FARLEY, 1921
 FISH HARBOR, BEACON NO. 1, 1934
 FISH HARBOR, BEACON NO. 2, 1934
 HOTEL, 1899
 NAVY SIGNAL NO. 1, 1920
 NAVY SIGNAL NO. 2, 1920
 POINT FERMIN, RADIO COMPASS INSTRUMENT, 1920
 SAN PEDRO, BLACK BEACON, 1899
 SAN PEDRO, CATHOLIC CHURCH SPIRE, 1899

9.

SAN PEDRO, CITY HALL DOME, 1907
SAN PEDRO, CLARENCE HOTEL, CUPOLA, 1899
SAN PEDRO, EPISCOPAL CHURCH, WHITE SPIRE, 1910
SAN PEDRO, GENERAL PETROLEUM CO., SOUTH TANK, 1920
SAN PEDRO, HAMMOND LUMBER CO., STACK, 1920
SAN PEDRO, HARBOR, LIGHT ON END OF JETTY, 1912
SAN PEDRO, HARBOR, OUTER RED BEACON, 1912
SAN PEDRO HARBOR, INNER RED BEACON, 1912
SAN PEDRO HARBOR, OUTER HARBOR, BEACON NO. 2, 1933
SAN PEDRO, MARCONI HIGH WIRELESS, 1913
SAN PEDRO, MARCONI LOW WIRELESS, 1913
SAN PEDRO, METHODIST CHURCH, GRAY SPIRE, 1899
SAN PEDRO, MILL STACK, 1907
SAN PEDRO, PAVILION CUPOLA, 1899
SAN PEDRO, PAVILION CUPOLA 2, 1899
SAN PEDRO, PIER 1, FLASHING LIGHT, 1933
SAN PEDRO, PILE DRIVER, 1907
SAN PEDRO, PRESBYTERIAN CHURCH SPIRE, 1899
SAN PEDRO, PUBLIC LIBRARY DOME, 1907
SAN PEDRO, RED BEACON, 1899
SAN PEDRO, RED BEACON, 1920
SAN PEDRO, RED BEACON LIGHT, 1907
SAN PEDRO, SCHOOLHOUSE CUPOLA, FLAGSTAFF, 1899
SAN PEDRO, SUBMARINE BASE, FLAGSTAFF, 1920
SAN PEDRO, TERMINAL ISLAND PLANING MILL, IRON STACK, 1899
SAN PEDRO, TERMINAL ISLAND WATER WORKS, GRAY TANK, 1933
SAN PEDRO, TERMINAL WHARF, FLAGSTAFF ON EXTREME END, (no date)
SAN PEDRO, THREE TANKS, MIDDLE TANK, 1920
SAN PEDRO, TRONA STACK, 1920
SAN PEDRO, UNION OIL CO., STACK, 1907
SAN PEDRO, YACHT CLUB, FLAGSTAFF, 1912
TIMMS POINT FLAGSTAFF, 1912
TIMMS POINT TELEGRAPH POLE, 1912
TIMMS WINDMILL, 1870

4. Vertical Control:

Only the recovery of tidal bench marks were required by the project instructions. All tidal bench marks were searched for. All tidal bench marks recovered were identified on field photographs or located by sextant fix.

5. Contours and Drainage:

Contours are not applicable.

Drainage has been indicated on the field photographs. The drainage is quite light as the area is semi-arid.

6. Woodland Cover:

The area is almost devoid of woodland cover, except for shade and ornamental trees as planted. No growths of trees were considered to be of significant importance to classify.

7. Shoreline and Alongshore Features:

(a) The mean highwater line has been denoted on the field photographs. A large portion of the shoreline has been stabilized by the construction of piers, wharves and concrete-masonry seawalls and bulkheads.

(b) The low water line was not indicated on the field photographs. This feature is apparent on the color photography, as the time of photography was near the low water stage of the tide.

(c) The character of the foreshore was indicated on the field photographs.

(d) The only bluff is Point Fermin, which rises about 100 feet above the ocean.

(e) Docks, wharves, piers, landings, etc. were indicated on the field photographs. Berth numbers can be obtained from a Los Angeles Harbor Department map that will be submitted with this report.

(f) Submarine cable and pipeline crossings were indicated on the field photographs.

(g) The major part of Los Angeles Harbor is highly developed with many piers, wharves, etc. Extending in an eastward direction from Cabrillo Beach is an effective breakwater, consisting of irregular blocks of granite. This breakwater affords protection for Los Angeles Harbor. Los Angeles Lighthouse, is located at the extreme east end of the breakwater. Four short boulder jetties and a concrete mole protects the entrance to Fish Harbor. A new pier is under construction along the northwest shore of Los Angeles East Basin Channel. The proposed outline of the pier has been delineated on a field photograph. There are numerous small craft moorings at Los Angeles East Basin and at San Pedro West Channel.

8. Offshore Features:

Rock ledges are common along the base of the bluffs at Point Fermin. A sunken wreck was located north of Cabrillo Beach and is visible on the color photography. Piles and dolphins were indicated on field photographs. All piles and dolphins indicated are visible above the waters' surface at mean highwater.

9. Landmarks and Aids:

(a) All charted landmarks in the area were inspected and identified on the field photographs. This includes both new landmarks and landmarks previously charted. Charted landmarks no longer in existence were recommended for deletion from charts. Heights of all existing landmarks were determined by direct vertical measurements or by trigonometric leveling from established bench marks or from the water surface corrected to mean high water. All landmarks were listed on Form 567.

(b) Interior landmarks were selected and located by photogrammetric methods or from previously determined triangulation positions. These have been listed on Form 567.

(c) No aeronautical aids are located in the area covered by this report.

(d) All fixed aids to navigation that were not previously located by triangulation methods were located photogrammetrically, except Point Fermin Light which was located by traverse methods. All aids to navigation were either identified or indicated on the field photographs. All aids were listed on Form 567.

(e) Floating Aids to Navigation - Not applicable.

10. Boundaries, Monuments and Lines:

The lines of three city parks were indicated on the field photographs; Point Fermin Park, Cabrillo Beach Park and San Pedro Plaza Park. Boundaries are not applicable.

11. Other Control: Not applicable.

Buildings were classified in accordance with Photogrammetric Instruction 54, except the classification of the buildings were indicated by the abbreviations "CL 1 or CL 2", written on the images of the buildings on the photographs to denote Class 1 or Class 2 structures in lieu of circling because most of the buildings were in a congested area and circling the building on the photographs might cause confusion with the indication of adjacent railroad tracks or nearby features.

Maps of the street network with their respective names was obtained from the Los Angeles County Engineers Office and has been previously submitted to the Portland Photogrammetric Office. The network of railroad tracks were delineated in detail on the field photographs. Numerous storage tanks were also noted on the field photography.

13. Geographic Names:

Geographic Names is the subject of a separate report to be submitted for the area completed by field work this season.

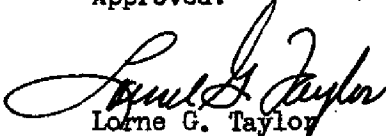
14. Special Reports and Supplemental Data:

No special reports are submitted.

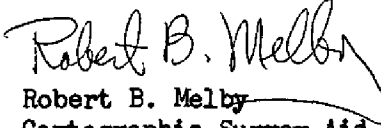
Supplemental Data:

- (a) Street Network of San Pedro and Adjacent Areas, Los Angeles Engineers Office.
- (b) Los Angeles Harbor and Vicinity Map, Los Angeles Harbor Commission.

Approved:


Lorne G. Taylor
CDR, C&GS
Officer-in-Charge

Respectfully submitted:


Robert B. Melby
Cartographic Survey Aid
C&GS

Camera (kind or source) (II):

PHOTOGRAPHS (III)

Number

Date _____

Time

Scale

Stage of Tide

Tide (III)

Reference Station:

Subordinate Station:

Subordinate Station:

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):

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

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

Control Leveling - Miles (II):

* Number of Triangulation Stations searched for (II): 95

Recovered: 25

Identified: 13

**** Number of BMs searched for (II):**

72

Recovered: 67

Identified: 60

*** Number of Recoverable Photo Stations established (III): 33

Number of Temporary Photo Hydro Stations established (III):

Searched

Remarks:	For:	Recov.	Ident.
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* 11640 21 8 2

11646	74	17	11
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** 11640 22 20 23

11646	50	47	37
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*** 11640 17

11646	16
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PHOTOGRAMMETRIC PLOT REPORT
LONG BEACH TO LAGUNA BEACH
PH - 5908

October 1960

21. Area Covered

T-11640 through T-11659

22. Method

Aerotriangulation was performed on the C-5 stereo-planigraph and consisted of five separate bridges, four of which were adjusted by IBM methods. The shortest of these five, a two model bridge, was adjusted by linear computation. All horizontal control held in bridging.

Pass points for use in Kelsh compilation were established, and numerous landmarks and aids to navigation were positioned.

23. Adequacy of Control

Horizontal control provided complied with project instructions, and was adequate.

24. Supplemental Data

None

25. Photography

The photography was adequate in all aspects pertaining to aerotriangulation.

26. Sketch and Control List

These are appended to this report. It will be noted that a plethora of control was available for some areas and it was not practicable to show all stations on the sketch.

Submitted by

Robert E. Fueschel

Robert E. Fueschel

Approved:

Everett H. Ramey

Everett H. Ramey

Chief, Aerotriangulation Section

Notes to the Compiler
PH - 5908
October 1960

Each stereoplanigraph bridge on this project has been marked on the project diagram in a particular, distinctive color. This color coding includes the IBM printed coordinate sheets and the contact prints, all of which carry the color designation for their respective bridges.

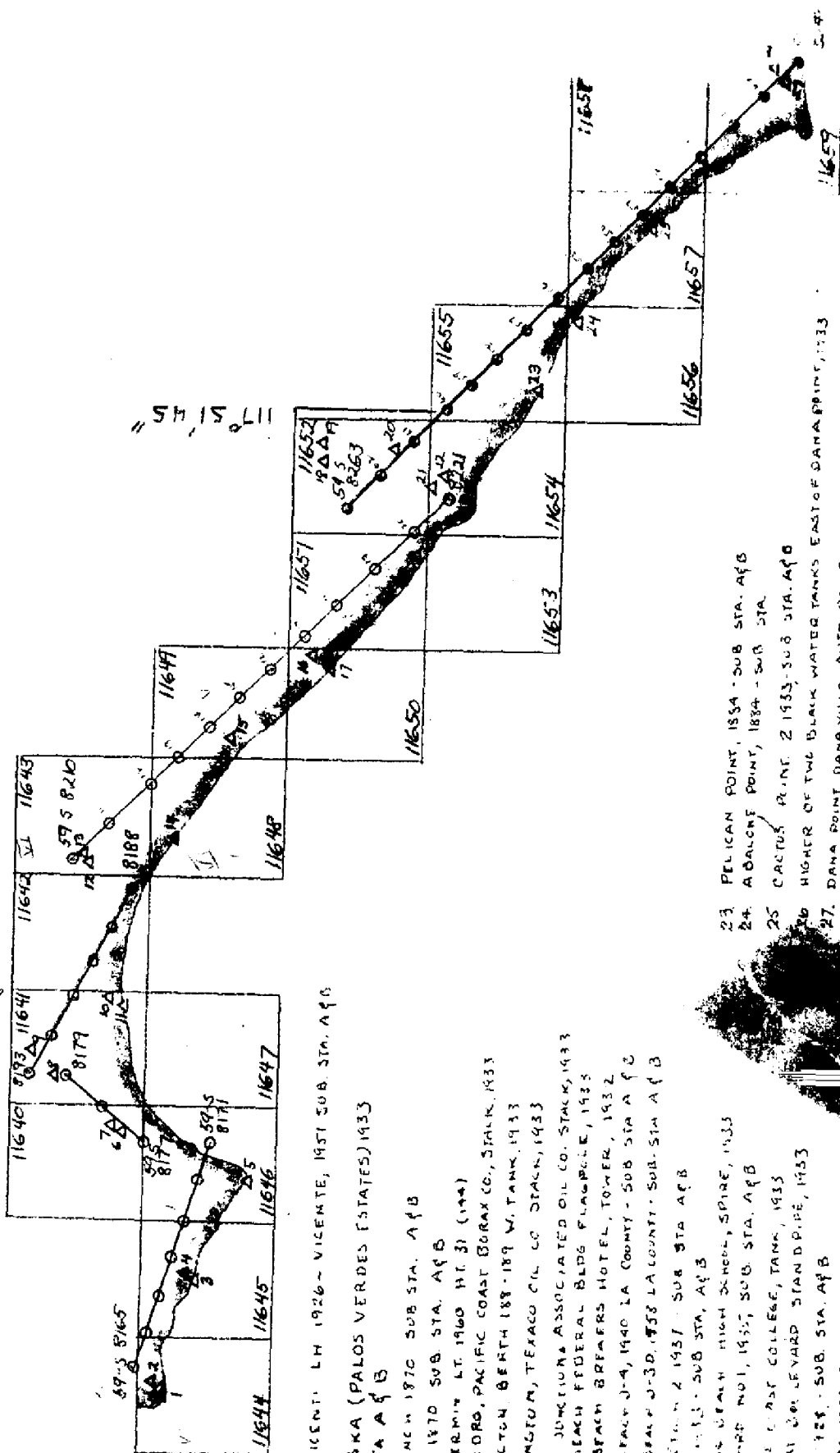
Model 59-S, 8152 and 8153 should be set on Kelsh to get the small segment of shoreline not appearing on the adjacent yellow and orange lines. Pass points useable on this model are circled on Photo 8153. See photos in yellow and orange lines for pin pricking and description of these points. Also available are numerous triangulation points.

On the red bridge, numerous triangulation points were hit, many of which were not included on the bridging sketch due to the problem of congestion. On the other bridges, also, there may be instances of a few triangulation points not being shown due to a superfluity of such points in a given area.

LONG BEACH TO LAGUNA BEACH

PH - 5905

OCTOBER 1960



1 POINT VICENTE, LM 1926 - VICENTE, 1951 SUB STA. AFB

2 NEORASKA (PALOS VERDES (STATES) 1933 SUB STA AFB

3 SEA BENCH 1870 SUB STA. AFB

4 BENCH 1870 SUB STA. AFB

5 POINT FERMIN LT. 1900 HI. 31 (194)

6 SAN PEDRO, PACIFIC COAST BORAX CO., STALK, 1933

7 WILMINGTON BERTH 188-189 W. TANK, 1933

8 WILMINGTON, TEXACO OIL CO STALK, 1933

9 WATSON JUNCTION ASSOCIATED OIL CO. STALK, 1933

10 LONG BEACH FEDERAL BLDG FLAGPOLE, 1933

11 LONG BEACH BREWERS HOTEL, TOWER, 1932

12 LONG BEACH J-4, 1940 LA COUNTY - SUB STA AFB

13 LONG BEACH J-30, 1953 LA COUNTY - SUB STA AFB

14 SEAL CROWN 2 1937 SUB STA AFB

15 CHINA 1933 SUB STA, AFB

16 HUNTING BEACH HIGH SCHOOL SPIRE, 1933

17 STANDPIPE NO. 1, 1937, SUB STA. AFB

18 ORANGE EAST COLLEGE, TANK, 1933

19 NEWPORT CO. LEYARD STANDPIPE, 1933

20 BUNNEN 128 - SUB STA. AFB

21 NEWPORT HARBOR HIGH SCHOOL, TOWER, 1933

22 GOLF 128, RMI 1945 SUB STA AFB

23 PELICAN POINT, 1854 SUB STA. AFB

24 ADALCOE POINT, 1884 SUB STA

25 CACTUS PLANT 2 1933 SUB STA. AFB

26 HIGHER OF TWO BLACK WATER TANKS EAST OF DANA POINT, 1933

27. DANA POINT, DANA VILLAGE AUTO CAMP TOWER, 1933

U. S. DEPARTMENT OF COMMERCE
DESCRIPTIVE REPORTCOAST AND GEODETIC SURVEY
ROLL 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 y -COORDINATE LONGITUDE OR x -COORDINATE	DISTANCE FROM GRID IN FEET. OR PROJECTION LINE IN METERS	DATUM CORRECTION	N.A. 1927 - DATUM		FACTOR DISTANCE FROM GRID OR PROJECTION LINE IN METERS	
						FORWARD	(BACK)	FORWARD	(BACK)
SAN PEDRO, PACIFIC COAST BORAX CO. STACK, 1933	P-15	N.A. 1927	584,709.02	4709.02 (290.98)		1435.3	(88.7)		
WILMINGTON BERTH 188-189 WATER TANK, 1933	P-15	"	1,387,387.67 586,683.18	2387.67 (2612.33) 1683.18 (3316.82)		727.8	(796.2)		
BAG, 1949	VII P-16	"	1,389,623.72 4,030,145.82	4623.72 (376.28) 145.82 (4854.18)		513.0	(1011.0)		
HARBOR CITY ALUMINUM TANK 1933	VI P-16	"	4,211,479.02 593,937.89	1479.02 (3520.98) 3937.89 (1062.11)		1409.3	(114.7)		
WILMINGTON, BERTH 176-177 TANK, 1933	P-15	"	1,374,891.21 585,365.73	4891.21 (108.79) 365.73 (4634.27)		44.4	(1479.6)		
WILMINGTON CATHOLIC CHURCH TOWER, 1933	P-16	"	1,388,818.48 593,947.1	3818.48 (1181.52) 3947. (1053.)		450.8	(1073.2)		
WILMINGTON, SMART AND FINAL CO. WAREHOUSE TANK, 1933	P-15	"	1,387,227. 590,454.	2227. (2773.) 454. (4546.)		1200.3	(323.7)		
WILMINGTON, TAN WATER TANK, 1933	P-15	"	1,388,386. 586,150.02	3386. (1614.) 1150.02 (3849.98)		1490.8	(33.2)		
			1,385,787.33	787.33 (4212.67)		111.5	(1412.5)		
						1163.9	(360.1)		
						1203.0	(321.0)		
						678.8	(845.2)		
						138.4	(1385.6)		
						1032.1	(491.9)		
						350.5	(1173.5)		
						240.0	(1284.0)		9.

1 FT. = 3048006 METER

J.L.H.

3-10-60

D.N.W.

3-10-60

COMPUTED BY: C.H.B.

DATE

10-24-61

CHECKED BY: J.E.D.

DATE

11-2-61

COMM-DC-57843

COMPILATION REPORT

MAP MANUSCRIPT T-11640

PROJECT PH-5908

31. DELINEATION:

THE PLANIMETRY WAS DELINEATED BY USE OF THE KELSH STEREO-SCOPIC INSTRUMENT.

32. CONTROL:

SUPPLEMENTARY CONTROL ESTABLISHED BY STEREOPLANIGRAPH BRIDGING WAS ADEQUATE.

33. SUPPLEMENTAL DATA:

MAP OF LOS ANGELES COUNTY No. 28, SCALE 1 INCH = 600 FEET, COMPILED BY THE COUNTY ENGINEER, JUNE 1958.

MAP OF LOS ANGELES HARBOR, SCALE 1 INCH = 1600 FEET, COMPILED BY BOARD OF HARBOR COMMISSIONERS, SEPTEMBER 1959.

34. CONTOURS AND DRAINAGE:

CONTOURS ARE NOT APPLICABLE.

NO DRAINAGE WAS FIELD INSPECTED AND NONE WAS EVIDENT UPON EXAMINATION OF THE U.S.G.S. 7 $\frac{1}{2}$ MINUTE TORRANCE, CALIFORNIA QUAD-RANGLE.

35. SHORELINE AND ALONGSHORE DETAILS:

THE MAJOR PORTION OF THE MEAN HIGH-WATER LINE IS MAN-MADE CONSISTING OF PIERS, WHARVES, SEA WALLS, ETC. THE FIELD INSPECTION OF THESE FEATURES WAS ADEQUATE. NO LOW-WATER LINE WAS DELINEATED.

36. OFFSHORE DETAILS:

THE APPROXIMATE EXTENT OF A SHOAL IN THE WEST BASIN AREA WERE DELINEATED FROM OFFICE INSPECTION OF THE LOW-WATER COLOR TRANSPARENCIES.

A SMALL MUD ISLAND AWASH AT M.L.L.W. LOCATED AT THE SOUTHERN LIMITS OF THIS SHOAL IS THE SUBJECT OF A LETTER TO THE DIRECTOR, DATED 3 MAY 1962.

37. LANDMARKS AND AIDS:

SIX AIDS ARE SHOWN ON THIS MAP MANUSCRIPT. FIVE WERE LOCATED BY THE STEREOPLANIGRAPH BRIDGE AND ONE BY SEXTANT FIX.

FOURTEEN LANDMARKS WERE RECOMMENDED FOR CHARTING. FOUR ARE PREVIOUSLY LOCATED INTERSECTION STATIONS. THE POSITIONS OF THE REMAINING TEN LANDMARKS WERE OBTAINED FROM THE STEREOPLANIGRAPH CONTROL EXTENSION.

38. CONTROL FOR FUTURE SURVEYS:

NONE.

39. JUNCTIONS:

SATISFACTORY JUNCTIONS WERE MADE WITH T-11641 TO THE EAST AND WITH T-11646 TO THE SOUTH. THERE ARE NO CONTEMPORARY SURVEYS ON THE NORTH OR WEST.

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

COMPARISON WAS MADE WITH THE U.S.G.S. $7\frac{1}{2}$ MINUTE TORRANCE, CALIFORNIA QUADRANGLE, SCALE 1:24,000, EDITION 1951.

47. COMPARISON WITH NAUTICAL CHARTS:

COMPARISON WAS MADE WITH THE FOLLOWING NAUTICAL CHARTS:

NAUTICAL CHART 5147, SCALE 1:12,000 AT LAT. $33^{\circ} 44'$
6TH ED. OCT. 1943, REVISED AUG. 1962.

NAUTICAL CHART 5148, SCALE 1:18,000 AT LAT. 33° 43'
3RD ED. MAY 1957, REVISED FEB. 1962.

NAUTICAL CHART 5142, SCALE 1:80,000 AT LAT. 33° 31'
1ST ED. MAR. 1957, REVISED NOV. 1959.

NAUTICAL CHART 5101, SCALE 1:234,270 AT LAT. 33° 20'
5TH ED. JAN. 1947, REVISED MAY 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-10000 11640

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) X		7. PHOTO HYDRO STATIONS None
8. BENCH MARKS X	9. PLOTTING OF SEXTANT FIXES X	10. PHOTOGRAMMETRIC PLOT REPORT X	11. DETAIL POINTS None
ALONGSHORE AREAS (Nautical Chart Data)			
12. SHORELINE X	13. LOW-WATER LINE None	14. ROCKS, SHOALS, ETC. X	15. BRIDGES X
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 None		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 None		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			

6 June 1963

The positions given have been checked after listing by J. L. Harris

FRED NATELLA *Chief of Party.*

USCOMM-DC 10234-B61

NON-FLOATING AIDS%OR%DATA%MARKERS%FOR%CHARTS

The positions given have been checked after listing by J. L. HARRIS

FRED NAYELLA *Chief of Party*

This form shall be prepared in accordance with Hydrographic Manual, Publication 20.2, Sec. 1-35, 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\$

TO BE CHARTED

TO BE CHARTED

STRIKE OUT TWO

NON-FLOATING AID TO NAVIGATION LANDMARKS FOR CHARTS

PORTLAND, OREGON

6 JUNE 1962

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

The positions given have been checked after listing by

J. L. HARRIS

FRED NATELLA Chief of Party.																			
STATE		CALIFORNIA		POSITION				METHOD OF LOCATION AND SURVEY NO.		DATE OF LOCATION		HARBOR CHART		INSHORE CHART		OFFSHORE CHART		CHARTS AFFECTED	
CHARTING NAME	DESCRIPTION	SIGNAL NAME	LATITUDE*		LONGITUDE*		DATUM												
			°	'	"	D.M. METERS													
STACK	STACK HT=154'(160')(SAN PEDRO, PACIFIC COAST BORAX CO. STACK, 1933)		33	45	26.661	118	15	56.047	N.A.	1927			X						5147
TANK	TANK, ELEV. HT=116'(119')(WILMINGTON BERTH 176-177, TANK, 1933)		33	45	33.430	118	15	39.254					X						5148
TANK	TANK, ELEV. HT=126'(132')(WILMINGTON BERTH 188-189, WATER TANK, 1933)		33	45	1030.0	118	15	1010.2					X						DO
TANK	TANK, ELEV. HT=150'(157')(WILMINGTON TAN WATER TANK, 1933)		33	45	46.615	118	15	30.019					X						DO
			33	45	1436.2	118	15	772.5					X						DO
			33	45	40.608	118	16	15.328					X						DO
			33	45	1251.1	118	16	394.5					X						DO
DOME	DOME ON BUILDING HT=72'(85')		33	45	58.356	118	15	14.744	STEREO	4-26-60			X						DO
TANK	TANK, ELEVATED HT=114'(120')		33	45	1797.9	118	15	379.4	BRIDGE				X						DO
TOWER	TOWER ON BUILDING HT=137'(146')		33	45	29.377	118	16	12.466					X						DO
STACK	STACK, HT=148'(233')		33	45	905.1	118	16	320.8					X						DO
TANK	TANK, ELEVATED HT=131'(139')		33	45	14.378	118	16	08.372					X						DO
STACK	STACK (WESTERNMOST ONE OF FIVE) HT=237'(248')		33	45	443.0	118	16	215.5					X						DO
TANK	TANK, ELEVATED HT=131'(139')		33	45	35.772	118	17	19.922					X						DO
STACK	STACK (SECOND WESTERNMOST ONE OF FIVE) HT=237'(248')		33	45	1102.1	118	17	512.7					X						DO
STACK	STACK (SECOND WESTERNMOST ONE OF FIVE) HT=237'(248')		33	45	02.275	118	16	47.719					X						DO
STACK	STACK (SECOND WESTERNMOST ONE OF FIVE) HT=237'(248')		33	45	70.1	118	16	1228.3					X						DO
STACK	STACK (SECOND WESTERNMOST ONE OF FIVE) HT=237'(248')		33	46	08.094	118	15	55.462					X						DO
STACK	STACK (SECOND WESTERNMOST ONE OF FIVE) HT=237'(248')		33	46	249.4	118	15	1427.2					X						DO
STACK	STACK (SECOND WESTERNMOST ONE OF FIVE) HT=237'(248')		33	46	08.149	118	15	54.611					X						DO
STACK	STACK (SECOND WESTERNMOST ONE OF FIVE) HT=237'(248')		33	46	261.1	118	15	1405.3					X						DO
STACK	STACK (SECOND WESTERNMOST ONE OF FIVE) HT=237'(248')		33	46	08.471	118	15	52.820					X						DO
STACK	STACK (SECOND WESTERNMOST ONE OF FIVE) HT=237'(248')		33	46	261.0	118	15	1359.2					X						DO
STACK	STACK (EASTERNMOST ONE OF FIVE) HT=237'(248')		33	46	08.531	118	15	51.927					X						DO
STACK	STACK (EASTERNMOST ONE OF FIVE) HT=237'(248')		33	46	262.8	118	15	1336.2					X						DO
STACK	STACK (CENTER ONE OF FIVE) HT=237'(248')		33	46	08.422	118	15	53.723					X						DO
STACK	STACK (CENTER ONE OF FIVE) HT=237'(248')		33	46	259.5	118	15	1382.4					X						DO

FRED NATELLA 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 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

COMPILATION RECORD

COMPLETION DATE

REMARKS

Alongshore area for hydro	12/12/62	
Interior details added - Compilation complete	12/12/62	

T-11640

48. Geographic Names List

Cerritos Channel

East Basin

East Basin Channel

Los Angeles

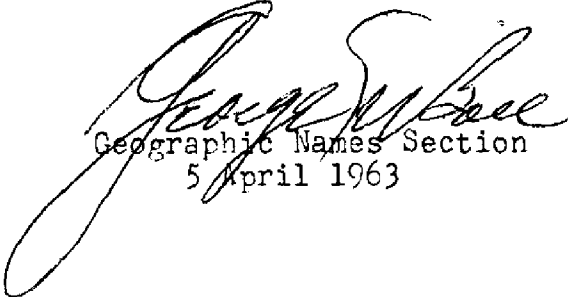
Morman Island

Terminal Island

Turning Basin

West Basin

Wilmington


Geographic Names Section
5 April 1963

Review Report
Shoreline Maps
T-11640 and T-11644 thru T-11646
August 1963

61. General Statement

There are four (4) shoreline maps of project PH-5908, Long Beach to Laguna Beach, California. These maps were prepared primarily for the location of all nonfloating aids and land-marks for use in the revision of our Nautical Charts.

62. Comparison with Registered Topographic Surveys

T-4825	1:10,000	1933
T-4826	1:10,000	1933
T-5034A	1:10,000	1934

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

63. Comparison with Maps of Other Agencies

San Pedro, Calif.	1:24,000	U.S.G.S.	1951
Redondo Beach, Calif.	1:24,000	U.S.G.S.	1951
Torrance, Calif.	1:24,000	U.S.G.S.	1951

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

5142	1:80,000	Nov. 1960	Revised Dec. 1962
5147	1:18,000	Feb. 1963	
5148	1:12,000	Feb. 1963	

Differences exist. However, there are no items to be applied immediately.


66. Adequacy of Results and Future Surveys

These maps comply with the National Map Accuracy Standards and meet Bureau requirements.


Reviewed by:



L. C. Lande

Approved by:


Chief, Cartographic Branch


Chief, Nautical Charts Division


Chief, Photogrammetry Division


Chief, Operations Division

