

TP-00400

TP-00400

NOAA FORM 76-35

U.S. DEPARTMENT OF COMMERCE
NATIONAL OCEANIC AND ATMOSPHERIC ADMINISTRATION
NATIONAL OCEAN SURVEY

DESCRIPTIVE REPORT

Type of Survey Shoreline
Job No. PH-7107 Map No. TP-00400
Classification No. Final Edition No. 1
Field Edited Map

LOCALITY

State California
General Locality Dana Point to Point Vicente
Locality Long Beach Middle Harbor

19 72 TO 19 75

REGISTRY IN ARCHIVES

DATE

NOAA FORM 76-36A (3-72)		U. S. DEPARTMENT OF COMMERCE NATIONAL OCEANIC AND ATMOSPHERIC ADMIN.	
DESCRIPTIVE REPORT - DATA RECORD		TYPE OF SURVEY <input checked="" type="checkbox"/> ORIGINAL <input type="checkbox"/> RESURVEY <input type="checkbox"/> REVISED	
PHOTOGRAMMETRIC OFFICE Coastal Mapping Division Norfolk, Va.		SURVEY TP. 00400 MAP EDITION NO. (1) MAP CLASS Final JOB PH. 7107	
OFFICER-IN-CHARGE Jeffrey G. Carlen, CDR, NOAA		LAST PRECEDING MAP EDITION TYPE OF SURVEY <input type="checkbox"/> ORIGINAL <input type="checkbox"/> RESURVEY <input type="checkbox"/> REVISED	
JOB PH. _____ MAP CLASS _____ SURVEY DATES: 19__ TO 19__			
I. INSTRUCTIONS DATED			
1. OFFICE		2. FIELD	
Aerotriangulation Aug 17, 1971 Compilation Nov 5, 1971 Supplement 1 Oct 9, 1973 Amendment 1 Oct 30, 1973 Amend. 1 to Supp. 1 Jan. 28, 1974		Premarking March 1, 1971 Premarking Supplement I Feb. 25, 1972	
II. DATUMS			
1. HORIZONTAL: <input checked="" type="checkbox"/> 1927 NORTH AMERICAN		OTHER (Specify)	
2. VERTICAL: <input checked="" type="checkbox"/> MEAN HIGH-WATER <input type="checkbox"/> MEAN LOW-WATER <input checked="" type="checkbox"/> MEAN LOWER LOW-WATER <input type="checkbox"/> MEAN SEA LEVEL		OTHER (Specify)	
3. MAP PROJECTION Polyconic		4. GRID(S) STATE California ZONE 6	
5. SCALE 1:5,000		STATE ZONE	
III. HISTORY OF OFFICE OPERATIONS			
OPERATIONS		NAME	
DATE			
1. AEROTRIANGULATION METHOD: Analytic		I. D. Raborn	
LANDMARKS AND AIDS BY		Sep 1973	
2. CONTROL AND BRIDGE POINTS METHOD: Coradomat		Allen	
PLOTTED BY		Sep 1973	
CHECKED BY		Allen	
3. STEREOSCOPIC INSTRUMENT COMPILATION		L. O. Neterer	
PLANIMETRY BY		Jul 1974	
CHECKED BY		R. R. White	
INSTRUMENT: Wild B-8		Jul 1974	
CONTOURS BY		NA	
SCALE: 1:7,500		NA	
CHECKED BY		NA	
4. MANUSCRIPT DELINEATION		C. Parker	
PLANIMETRY BY		Aug 1974	
CHECKED BY		R. R. White	
METHOD: Smooth drafted		Aug 1974	
CONTOURS BY		NA	
CHECKED BY		NA	
SCALE: 1:5,000		C. Parker	
HYDRO SUPPORT DATA BY		Aug 1974	
CHECKED BY		R. R. White	
5. OFFICE INSPECTION PRIOR TO FIELD EDIT		R. R. White	
BY		Aug 1974	
6. APPLICATION OF FIELD EDIT DATA		C. Parker	
BY		Jul 1975	
CHECKED BY		A. L. Shands	
7. COMPILATION SECTION REVIEW		A. L. Shands	
BY		Nov 1975	
8. FINAL REVIEW		A. L. Shands	
BY		Sep 1978	
9. DATA FORWARDED TO PHOTOGRAMMETRIC BRANCH		A. L. Shands	
BY		Nov 1978	
10. DATA EXAMINED IN PHOTOGRAMMETRIC BRANCH		A. K. Heywood	
BY		Feb 1980	
11. MAP REGISTERED - COASTAL SURVEY SECTION		F. L. DAUGHERTY	
BY		JUN 1980	

NOAA FORM 76-36B
(3-72)

U. S. DEPARTMENT OF COMMERCE
NATIONAL OCEANIC AND ATMOSPHERIC ADMINISTRATION
NATIONAL OCEAN SURVEY

TP-00400

COMPILATION SOURCES

1. COMPILATION PHOTOGRAPHY

CAMERA(S) Wild RC-8 "L"		TYPES OF PHOTOGRAPHY LEGEND		TIME REFERENCE	
TIDE STAGE REFERENCE <input checked="" type="checkbox"/> PREDICTED TIDES <input type="checkbox"/> REFERENCE STATION RECORDS <input type="checkbox"/> TIDE CONTROLLED PHOTOGRAPHY		(C) COLOR (P) PANCHROMATIC (I) INFRARED		ZONE	
				Pacific	
				MERIDIAN	
				120th	
				<input checked="" type="checkbox"/> STANDARD <input type="checkbox"/> DAYLIGHT	

NUMBER AND TYPE	DATE	TIME	SCALE	STAGE OF TIDE
72L(C) 2911-2913	3/24/72	15:00	1:15,000	1.2 above MLLW
72L(C) 3031 & 3032	3/27/72	08:30	1:15,000	4.8 above MLLW
72L(C) 3069 & 3070	3/27/72	08:49	1:15,000	4.7 above MLLW

REMARKS

2. SOURCE OF MEAN HIGH-WATER LINE:

The mean high water line was compiled from the above listed photographs.

3. SOURCE OF MEAN LOW-WATER OR MEAN LOWER LOW-WATER LINE:

There was no mean lower low water line compiled.

4. CONTEMPORARY HYDROGRAPHIC SURVEYS (List only those surveys that are sources for photogrammetric survey information.)

SURVEY NUMBER	DATE(S)	SURVEY COPY USED	SURVEY NUMBER	DATE(S)	SURVEY COPY USED

5. FINAL JUNCTIONS

NORTH	EAST	SOUTH	WEST
TP-00393	TP-00401	No survey	TP-00399

REMARKS

TP-00400

HISTORY OF FIELD OPERATIONS

I. ☒ FIELD INSPECTION OPERATION☐ FIELD EDIT OPERATION

OPERATION	NAME	DATE
1. CHIEF OF FIELD PARTY	R. B. Melby	Mar 1972
2. HORIZONTAL CONTROL	RECOVERED BY R. B. Melby	Mar 1972
	ESTABLISHED BY None	
	PRE-MARKED OR IDENTIFIED BY None	
3. VERTICAL CONTROL	RECOVERED BY None	
	ESTABLISHED BY None	
	PRE-MARKED OR IDENTIFIED BY None	
4. LANDMARKS AND AIDS TO NAVIGATION	RECOVERED (Triangulation Stations) BY None	
	LOCATED (Field Methods) BY None	
	IDENTIFIED BY None	
5. GEOGRAPHIC NAMES INVESTIGATION	TYPE OF INVESTIGATION <input type="checkbox"/> COMPLETE BY <input type="checkbox"/> SPECIFIC NAMES ONLY <input checked="" type="checkbox"/> NO INVESTIGATION	
6. PHOTO INSPECTION	CLARIFICATION OF DETAILS BY None	
7. BOUNDARIES AND LIMITS	SURVEYED OR IDENTIFIED BY NA	

II. SOURCE DATA

1. HORIZONTAL CONTROL IDENTIFIED

None

2. VERTICAL CONTROL IDENTIFIED

None

PHOTO NUMBER	STATION NAME	PHOTO NUMBER	STATION DESIGNATION

3. PHOTO NUMBERS (Clarification of details)

None

4. LANDMARKS AND AIDS TO NAVIGATION IDENTIFIED

None

PHOTO NUMBER	OBJECT NAME	PHOTO NUMBER	OBJECT NAME

5. GEOGRAPHIC NAMES: ☐ REPORT ☒ NONE6. BOUNDARY AND LIMITS: ☐ REPORT ☒ NONE

7. SUPPLEMENTAL MAPS AND PLANS

None

8. OTHER FIELD RECORDS (Sketch books, etc. DO NOT list data submitted to the Geodesy Division)

None

TP-00400

HISTORY OF FIELD OPERATIONS

I. ☐ FIELD INSPECTION OPERATION☒ FIELD EDIT OPERATION

OPERATION	NAME	DATE
1. CHIEF OF FIELD PARTY	M. Fleming, Cdr. Davidson	Apr 1975
2. HORIZONTAL CONTROL	RECOVERED BY ESTABLISHED BY PRE-MARKED OR IDENTIFIED BY	None None None
3. VERTICAL CONTROL	RECOVERED BY ESTABLISHED BY PRE-MARKED OR IDENTIFIED BY	None None None
4. LANDMARKS AND AIDS TO NAVIGATION	RECOVERED (Triangulation Stations) BY LOCATED (Field Methods) BY IDENTIFIED BY	None R. Hopkins, Lt. cdr. None
5. GEOGRAPHIC NAMES INVESTIGATION	TYPE OF INVESTIGATION <input type="checkbox"/> COMPLETE <input type="checkbox"/> SPECIFIC NAMES ONLY <input checked="" type="checkbox"/> NO INVESTIGATION	
6. PHOTO INSPECTION	CLARIFICATION OF DETAILS BY	None
7. BOUNDARIES AND LIMITS	SURVEYED OR IDENTIFIED BY	NA

II. SOURCE DATA

1. HORIZONTAL CONTROL IDENTIFIED

None

2. VERTICAL CONTROL IDENTIFIED

None

PHOTO NUMBER	STATION NAME	PHOTO NUMBER	STATION DESIGNATION

3. PHOTO NUMBERS (Clarification of details)

None

4. LANDMARKS AND AIDS TO NAVIGATION IDENTIFIED

None

PHOTO NUMBER	OBJECT NAME	PHOTO NUMBER	OBJECT NAME

5. GEOGRAPHIC NAMES: ☐ REPORT ☒ NONE6. BOUNDARY AND LIMITS: ☐ REPORT ☒ NONE

7. SUPPLEMENTAL MAPS AND PLANS

1-Blue line print-"Port of Los Angeles-Pipes & Utilities Crossing Channels."

8. OTHER FIELD RECORDS (Sketch books, etc. DO NOT list data submitted to the Geodesy Division)

1-Field edit ozalid with Field Edit Report. 1-List-Abstract of fix geographic positions

RECORD OF SURVEY USE

I. MANUSCRIPT COPIES

COMPILATION STAGES			DATE MANUSCRIPT FORWARDED	
DATA COMPILED	DATE	REMARKS	MARINE CHARTS	HYDRO SUPPORT
Compilation complete pending field edit	Aug 1974	Class III manuscript	10/11/74	9/30/74
Field edit applied. Compilation complete.	Jul 1975	Class I manuscript	6/7/76	
Final Review	Sept 1978	Final	Nov 1978	

II. LANDMARKS AND AIDS TO NAVIGATION

1. REPORTS TO MARINE CHART DIVISION, NAUTICAL DATA BRANCH

NUMBER	CHART LETTER NUMBER ASSIGNED	DATE FORWARDED	REMARKS
1		5/24/76	Aids to be charted
1		5/24/76	Aids to be revised
1		5/24/76	Landmarks to be charted.

2. ☐ REPORT TO MARINE CHART DIVISION, COAST PILOT BRANCH. DATE FORWARDED: May 24, 1976
3. ☐ REPORT TO AERONAUTICAL CHART DIVISION, AERONAUTICAL DATA SECTION. DATE FORWARDED: _____

III. FEDERAL RECORDS CENTER DATA

1. ☒ BRIDGING PHOTOGRAPHS; ☒ DUPLICATE BRIDGING REPORT; ☒ COMPUTER READOUTS.
2. ☐ CONTROL STATION IDENTIFICATION CARDS; ☒ FORM NOS ~~XX~~ 76-40 SUBMITTED BY FIELD PARTIES.
3. ☒ SOURCE DATA (except for Geographic Names Report) AS LISTED IN SECTION II, NOAA FORM 76-36C.
ACCOUNT FOR EXCEPTIONS:
4. ☐ DATA TO FEDERAL RECORDS CENTER. DATE FORWARDED: _____

IV. SURVEY EDITIONS (This section shall be completed each time a new map edition is registered)

SECOND EDITION	SURVEY NUMBER TP - _____ (2)	JOB NUMBER PH - _____	TYPE OF SURVEY <input type="checkbox"/> REVISED <input type="checkbox"/> RESURVEY MAP CLASS <input type="checkbox"/> II. <input type="checkbox"/> III. <input type="checkbox"/> IV. <input type="checkbox"/> V. <input type="checkbox"/> FINAL
	DATE OF PHOTOGRAPHY	DATE OF FIELD EDIT	
THIRD EDITION	SURVEY NUMBER TP - _____ (3)	JOB NUMBER PH - _____	TYPE OF SURVEY <input type="checkbox"/> REVISED <input type="checkbox"/> RESURVEY MAP CLASS <input type="checkbox"/> II. <input type="checkbox"/> III. <input type="checkbox"/> IV. <input type="checkbox"/> V. <input type="checkbox"/> FINAL
	DATE OF PHOTOGRAPHY	DATE OF FIELD EDIT	
FOURTH EDITION	SURVEY NUMBER TP - _____ (4)	JOB NUMBER PH - _____	TYPE OF SURVEY <input type="checkbox"/> REVISED <input type="checkbox"/> RESURVEY MAP CLASS <input type="checkbox"/> II. <input type="checkbox"/> III. <input type="checkbox"/> IV. <input type="checkbox"/> V. <input type="checkbox"/> FINAL
	DATE OF PHOTOGRAPHY	DATE OF FIELD EDIT	

SUMMARY TO ACCOMPANY

TP-00392 through TP-00403

Maps included in this summary comprise the northern portion of Project PH-7107. Each of them is 1:5,000 scale with the exception of TP-00392 which is 1:10,000 scale. They cover the coast of California from Anaheim Bay to Point Vicente. Each is a standard shoreline map, the purpose of which is to serve as support for contemporary hydrographic operations conducted in the area and to provide up-to-date shoreline for nautical chart construction.

The area is heavily populated with an accompanying high incidence of marine construction. Several major changes have occurred along the shoreline during the life of this survey due to construction.

Field operations prior to delineation consisted of the recovery and identification of horizontal control used for bridging and, also, leveling operations conducted in connection with the tide coordinated infrared photography which was used to delineate the mean lower low water line.

Bridging was done in the Rockville Office by analytic triangulation methods in September, 1973. Ratios were determined and ordered at that time.

Compilation was by Wild B-8 instrument method at the Atlantic Marine Center. Field edit was performed during the spring of 1975 and 1976. Edit data was applied to the maps at the Atlantic Marine Center.

Final Review was performed at the Atlantic Marine Center during the fall of 1978. The original base maps and all pertinent data was forwarded to the Rockville Office for reproduction and final registration.

8

FIELD INSPECTION

Field work prior to compilation was limited to the recovery and identification of horizontal and vertical control for use in the bridge and coordination of mean lower low water tide elevation. There was no clarification of photographic details.

PHOTOGRAMMETRIC PLOT REPORT

Part 2

Dana Point to Point Vicente

California

Job PH-7107

September 1973

21. AREA COVERED

The area covered by this report is along the west coast of California. This area is covered by one 1:10,000 scale sheet TP-00397 and eleven 1:5,000 scale sheets TP-00392 thru TP-00396 and TP-00398 thru TP-00403.

22. METHOD

Two strips of 1:30,000 scale color photography were bridged by analytic aerotriangulation methods. Sketch #1 shows the flight line of the photography and the placement of the control used in this adjustment. The two strips were controlled by field identified control paneled in 1972. Old control, which was office identified, was floated for checks. Ties were made between strips five and six. Strip number five was adjusted using 3 horizontal stations as control with one old station as a check. Strip number six was adjusted using 7 horizontal stations as control with 3 old stations as checks. Compilation points were located between strips #5 and #6 (1:30,000 scale photography) to control the 1:15,000 scale compilation photography, strips 10, 14, 15, 19, 20, and 21. Common points were located between strip 5 and 6 and the hydro support photography (1:15,000), strips 29 and 30, to determine the ratio scale. Sketch #2 shows the flight lines of the compilation and hydro support photography. Common points were located between strip 6 and strips 11 and 12 to determine only the ratio scale.

Difficulty in adjusting the strips occurred in the area of Long Beach Red Band Steel Tank, 1920. Points in this area approached the limits for National Map Accuracy Standards. This is the result of trying to obtain 1:5,000 scale sheets from 1:30,000 scale photography with several models being very weak. (Less than 1/2 model) The lower altitude strips were not bridged because the points for bridging would only be as good as the high altitude bridges. No difficulty is expected in detailing the compilation (1:15,000 scale models) however, if difficulty is encountered in the weak area, there are numerous office identifiable stations which could be used to help set up the models.

One model (Photos 72L2894, 72L2895) was set in the B-8. The four compilation points were held. Two triangulation stations and one substation were used as checks. All three held within 0.1 mm.

Data for ruling projections were furnished to the Coradomat to be plotted on the California zones 6 and 7 coordinate system.

23. ADEQUACY OF CONTROL

The control was adequate.

24. SUPPLEMENTAL DATA

USGS quadrangles were used to provide vertical control for the adjustment.

25. PHOTOGRAPHY

The photography was adequate as to coverage, overlap and definition.

Respectfully submitted,

Ivey O Raborn
Ivey O. Raborn

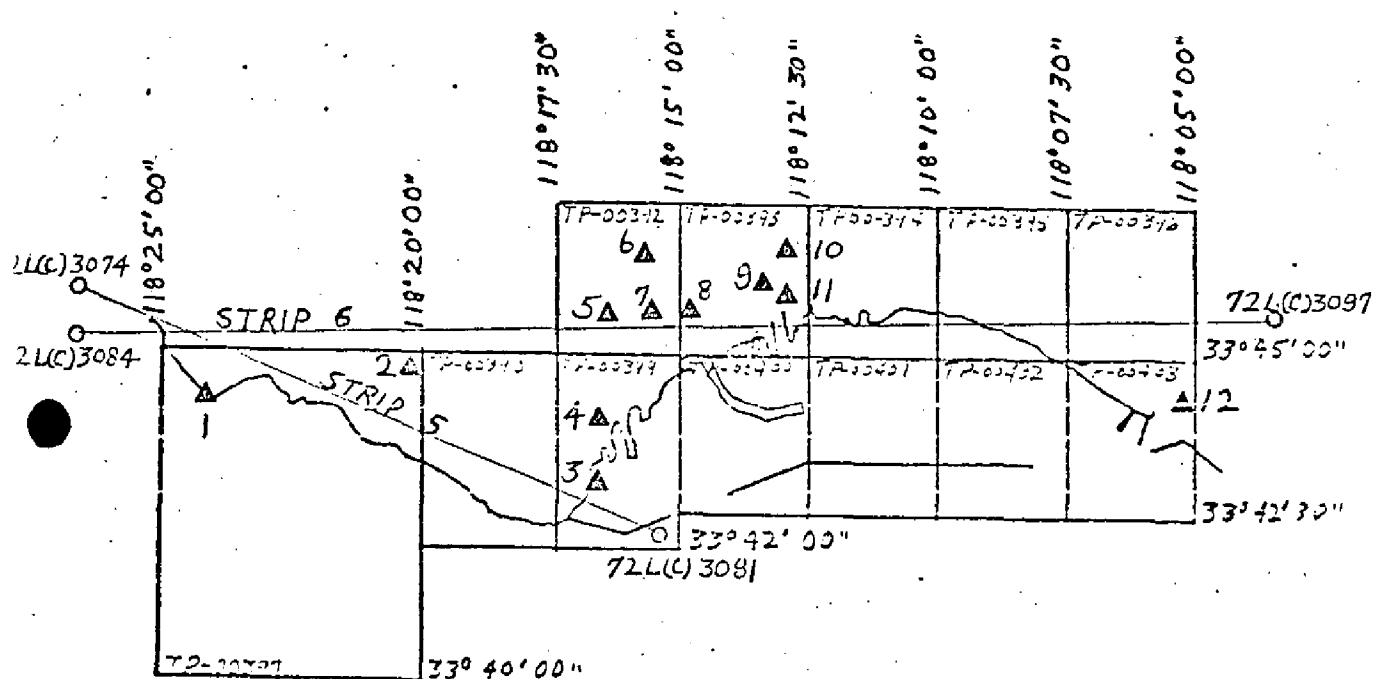
Approved and forwarded:

John D. Perrow, Jr.
John D. Perrow, Jr.
Chief, Aerotriangulation Section

NOTES TO COMPILER

Strip number 13, which covers the breakwater, cannot be controlled or set in stereo instruments. This area must be compiled by field methods.

PHOTOGRAMMETRIC PLOT REPORT
 Part 2
 Dana Point to Point Vicente
 California
 Job PH-7107
 August 1973



1. Vicente, 1951
2. Verdes, 1963, Sub pt.
3. Old, 1899, Sub pt.
4. San Pedro Cotton Compress Co. Tank, 1933
5. San Pedro Pacific Coast Borax Co. Stack, 1933
6. Wilmington, Smart & Final Co. Warehouse Tank, 1933
7. Medora 1972
8. Wilmington Berth 176-177 Water Tank, 1933
9. Long Beach Red Band Steel Tank, 1920
10. Long Beach Procter & Gamble Water Tank, 1933
11. Long Beach Red Band Steel Tank, 1920, Sub pt.
12. B.M. N 766, 1956, Sub pt.

Sketch #1

DESCRIPTIVE REPORT CONTROL RECORD

MAP NO.	JOB NO.	STATION NAME	SOURCE OF INFORMATION (Index)	AEROTRIANGULATION POINT NUMBER	GEODETTIC DATUM		ORIGINATING ACTIVITY		REMARKS				
					NA 1927	Division, Norfolk, Va.	COASTAL MAPPING	Division, Norfolk, Va.					
STATION NAME			COORDINATES IN FEET	STATE	ZONE	φ LATITUDE	λ LONGITUDE	FORWARD	BACK				
TP-00400	PH-7107	MID EAST, 1948 SEE G.P.	Quad 331181 STA. 2055		X=	φ	33 43 14.655	451.5	(1397.1)				
										Y=	λ	118 12 47.164	1214.3 (330.5)
MID WEST, 1948 SEE G.P.	Quad 331181 STA. 2056		X=	φ	33 42 52.800	λ	118 13 54.357	1626.7	(221.9)				
										Y=	λ	118 13 54.357	1399.6 (145.3)
NAVY MOLE LIGHT, 1949	Quad 331181 STA. 2082		X=	φ	33 44 39.941	λ	118 12 59.802	1230.6	(618.0)				
										Y=	λ	118 12 59.802	1539.3 (5.1)
LONG BEACH LIGHTHOUSE, 1949	Quad 331181 STA. 2077		X=	φ	33 44 47.359	λ	118 12 52.461	1459.1	(389.5)				
										Y=	λ	118 12 52.461	1350.3 (194.1)
EAST BREAKWATER LIGHTHOUSE WEST END, 1942	Quad 331181 STA. 2072		X=	φ	33 42 38.840	λ	118 14 37.458	1196.6	(652.0)				
										Y=	λ	118 14 37.458	964.5 (580.5)
NOTE: These stations are in an area which has experienced a significant horizontal shift due to the depletion of the underground oil deposits. A study of this movement was made by NOAA Ship DAVIDSON in the spring of 1975. As a result new positions were obtained for some of the stations listed above.					X=	φ							
										Y=	λ		
										X=	φ		
										Y=	λ		
										X=	φ		
										Y=	λ		
										X=	φ		
										Y=	λ		
										X=	φ		
										Y=	λ		
COMPUTED BY	A. C. Rauck, Jr.	DATE	10/16/73	COMPUTATION CHECKED BY	LBF	F. R. Gustafson	DATE	10/23/73					
LISTED BY		DATE		LISTING CHECKED BY			DATE						
HAND PLOTTING BY		DATE		HAND PLOTTING CHECKED BY			DATE						

SUPERSEDES NOAA FORM 76-41, 2-71 EDITION WHICH IS OBSOLETE.

COMPILATION REPORT

TP-00400

31. DELINEATION:

Delineation was by the Wild B-8 stereoplotter, using 1:15,000 scale photography for all details except Middle Breakwater which was compiled graphically.

32. CONTROL:

See the Photogrammetric Plot Report, Part II, dated September, 1973.

33. SUPPLEMENTAL DATA:

None.

34. CONTOURS AND DRAINAGE:

Contours are not applicable to the project. No drainage was compiled.

35. SHORELINE AND ALONGSHORE DETAILS:

The shoreline and all alongshore details were delineated by office interpretation of the photographs.

36. OFFSHORE DETAILS:

Middle breakwater was compiled graphically from office interpretation of the photographs.

37. LANDMARKS AND AIDS:

Compilation office prepared work copies of Forms 76-40 were forwarded to the field editor for verification, location and/or deletion.

38. CONTROL FOR FUTURE SURVEYS:

None.

39. JUNCTIONS:

See the Form 76-36b, item #5 concerning junctions.

40. HORIZONTAL AND VERTICAL ACCURACY:

No statement.

46. COMPARISON WITH EXISTING MAPS:

A comparison has been made with USGS Quadrangle, Long Beach, CA, scale 1:24,000, dated 1964.

47. COMPARISON WITH NAUTICAL CHARTS:

A comparison has been made with Chart 5147, scale 1:12,000, 19th edition, dated April 21, 1973.

ITEMS TO BE APPLIED TO NAUTICAL CHARTS IMMEDIATELY:

None.

ITEMS TO BE CARRIED FORWARD:

None.

Submitted by:

Albert C. Rauck, Jr. FOR
Charles Parker
Cartographic Aid
August 14, 1974

Approved:

Albert C. Rauck, Jr.
Albert C. Rauck, Jr.
Chief, Coastal Mapping Section, AMC

June 16, 1978

GEOGRAPHIC NAMES

FINAL NAME SHEET

PH-7107, Dana Point to Point Vicente, California

TP-00400

Basin Six

Long Beach Channel

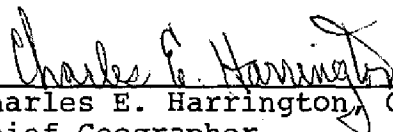
Long Beach Middle Harbor

Navy Mole

Pacific Ocean

San Pedro Bay

Approved by:


Charles E. Harrington, C3x8
Chief Geographer

NOAA FORM 75-74
(7-75)U.S. DEPARTMENT OF COMMERCE
NOAA
NATIONAL OCEAN SURVEY

PHOTOGRAMMETRIC OFFICE REVIEW

TP - 00400

1. PROJECTION AND GRIDS RRW	2. TITLE RRW	3. MANUSCRIPT NUMBERS	4. MANUSCRIPT SIZE
CONTROL STATIONS			
5. HORIZONTAL CONTROL STATIONS OF THIRD-ORDER OR HIGHER ACCURACY RRW	6. RECOVERABLE HORIZONTAL STATIONS OF LESS THAN THIRD-ORDER ACCURACY (Topographic stations) NA		7. PHOTO HYDRO STATIONS NA
8. BENCH MARKS NA	9. PLOTTING OF SEXTANT FIXES NA	10. PHOTOGRAMMETRIC PLOT REPORT RRW	11. DETAIL POINTS
ALONGSHORE AREAS (Nautical Chart Data)			
12. SHORELINE RRW	13. LOW-WATER LINE NA	14. ROCKS, SHOALS, ETC.	15. BRIDGES NA
16. AIDS TO NAVIGATION RRW	17. LANDMARKS	18. OTHER ALONGSHORE PHYSICAL FEATURES RRW	19. OTHER ALONGSHORE CULTURAL FEATURES RRW
PHYSICAL FEATURES			
20. WATER FEATURES RRW	21. NATURAL GROUND COVER NA		22. PLANETABLE CONTOURS NA
23. STEREOSCOPIC INSTRUMENT CONTOURS NA	24. CONTOURS IN GENERAL NA	25. SPOT ELEVATIONS NA	26. OTHER PHYSICAL FEATURES RRW
CULTURAL FEATURES			
27. ROADS RRW	28. BUILDINGS RRW	29. RAILROADS RRW	30. OTHER CULTURAL FEATURES RRW
BOUNDARIES			
31. BOUNDARY LINES NA		32. PUBLIC LAND LINES NA	
MISCELLANEOUS			
33. GEOGRAPHIC NAMES RRW	34. JUNCTIONS RRW		35. LEGIBILITY OF THE MANUSCRIPT RRW
36. DISCREPANCY OVERLAY RRW	37. DESCRIPTIVE REPORT RRW	38. FIELD INSPECTION PHOTOGRAPHS	39. FORMS RRW
40. REVIEWER Richard R. White 8/74		SUPERVISOR, REVIEW SECTION OR UNIT Albert C. Rauck, Jr. <i>Albert C. Rauck, Jr.</i>	
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 <i>A.C. Rauck, Jr.</i> Charles Parker 7/18/75		SUPERVISOR <i>Albert C. Rauck, Jr.</i> Albert C. Rauck, Jr.	
Reviewer: A. L. Shands 11/75 <i>A. L. Shands</i>			
43. REMARKS See Form 76-36C, item 8 of Field Edit Operations.			

FIELD EDIT REPORT

Long Beach and Los Angeles Harbor

Field edit was completed by DAVIDSON during the month of April 1975 on the following seven manuscripts:

TP 00392	TP 00399
TP 00393	TP 00400
TP 00394	TP 00401
	TP 00402

Field edit should be considered complete on these sheets with the exception of a small area on TP 00399 outside the Los Angeles Breakwater near Point Fermin. Heavy weather precluded proper verification of the ledge shown on the manuscript. The FAIRWEATHER is scheduled to conduct hydrography in that area in the fall of 1975 and plans to delineate this ledge using hydrographic methods. The office compilation of these manuscripts is very good. All questions have been answered and changes are shown in purple ink on the discrepancy ozalids and photographs.

Prior to conducting the field edit, DAVIDSON located many of the important landmarks and navigation aids within the harbor to 3rd order geodetic standards. The harbor area has experienced some horizontal shifting in recent years caused by the depletion of the underlying oil fields. Movements of as much as 3 meters were found. A copy of this report along with completed forms 76-40 giving new positions is included in the appendix. Many of the landmarks located by geodetic means were also listed on the forms 76-40 originated by AMC. References are noted on AMC's forms. In general, the photogrammetrically derived positions agreed quite well with DAVIDSON's horizontal control work.

Field Inspection

The photographs and discrepancy ozalids were taken into the field for verification. Our success at photo identification was poor, partly because of the inexperience of the officer conducting the field inspection and partly because pass points on the photographs obliterated many of the objects to be identified. Most positions were located by three point sextant fix with check angle. G.P.'s of both the fix and check fix were computed on the PDP 8e computer using the geodetic resection program RK-410. A listing of these verified G.P.s by fix number is included in the appendix. Each G.P. listed has been double checked and should be considered accurate. An abstract, by fix number, of the raw field data is also included for reference. It should be noted that not all the fixes listed apply to the field edit of these seven manuscripts. This list is a compilation of field edit fixes and other fixes relating to OPR-511 Chart Adequacy Survey field work - much of which overlap.

Many of the question asked of the field editor involved locating the shore ends of cable and pipe line crossings. In many cases, these shore ends were not visible because piers or other structures hid them. Those that could be located were. A manuscript was obtained from the Los Angeles Harbor Commission showing all utility and pipeline crossings in the Los Angeles half of the harbor. It is included with the data. It is recommended that the Long Beach Port authorities be contacted for a similar manuscript of the Long Beach half of the harbor.

Submitted

R. D. Hopkins
R. D. HOPKINS
LCDR, NOAA

Approved

R. D. Hopkins
Sr. M. H. FLEMING
CDR, NOAA

NOAA FORM 76-40 (8-74) Replaces C&GS Form 567.										U.S. DEPARTMENT OF COMMERCE NATIONAL OCEANIC AND ATMOSPHERIC ADMINISTRATION									
NONFLOATING AIDS										FOR CHARTS									
REPORTING UNIT (Field Party, Ship or Office)		STATE		LOCALITY		DATE		ORIGINATING ACTIVITY		METHOD AND DATE OF LOCATION (See instructions on reverse side)		CHARTS AFFECTED							
TO BE CHARTED <input checked="" type="checkbox"/> TO BE REVISED <input type="checkbox"/> TO BE DELETED		COASTAL MAPPING DIV. A.M.C. Norfolk, Va.		California		Dana Point to Point Vicente		July, 1975		HYDROGRAPHIC PARTY GEODETIC PARTY PHOTO FIELD PARTY COMPILATION ACTIVITY FINAL REVIEWER QUALITY CONTROL & REVIEW GRP. COAST PILOT BRANCH (See reverse for responsible personnel)		OFFICE		FIELD					
The following objects HAVE <input checked="" type="checkbox"/> HAVE NOT <input type="checkbox"/> been inspected from seaward to determine their value as landmarks.		SURVEY NUMBER TP-000400		DATUM		POSITION		LONGITUDE											
OPR PROJECT NO. 411		JOB NUMBER Ph-7107		LATITUDE		LONGITUDE													
CHARTING NAME		DESCRIPTION (Record reason for deletion of landmark or aid to navigation. Show triangulation station names, where applicable, in parentheses)		D.M. Meters		D.P. Meters													
LIGHT	Long Beach Channel Light 6	33 44	118 12	46.964	52.552			72L(C) 2913 Mar. 24, 1972	F-2-6-L April, 1975	18302 18323									
LIGHT	Long Beach Channel Naval Base Mole Light 5 (Navy Mole Light, 1949)	33 44	118 12	39.959	59.800			"	F-3-6-L April, 1975	"									
LIGHT	Los Angeles Main Channel Entrance Light 2 (East Breakwater Lighthouse, West End, 1942)	33 42	118 14	38.849	37.458			72L(C) 3069 Mar. 27, 1972	F-V-Vis. April, 1975	"									
LIGHT	Naval Base Mole Light 4	33 44	118 14	1196.6	964.5			72L(C) 2911 Mar. 24, 1972	F-3-6-L April, 1975	"									
LIGHT	Naval Base Mole Light 2	33 44	118 13	25.463	49.039			72L(C) 2912 Mar. 24, 1972	F-3-6-L April, 1975	"									
DAYMARK	Black Square Daymark on White Square House.	33 44	118 14	51.469	52.145				F-4-8-L April, 1975	"									
	NOTE: ** New field position * Not in 1976 Light List. Field editor found no light, but a daymark,																		
															14a				

ACR-87-10

U.S. DEPARTMENT OF COMMERCE
NATIONAL OCEANIC AND ATMOSPHERIC ADMINISTRATION
~~OFFICE OF NAUTICS~~ LANDMARKS FOR CHARTS

[illegible]

REVIEW REPORT

TP-00400

SHORELINE

September 11, 1978

61. GENERAL STATEMENT:

The field editor made very positive statements on the ozalid concerning the existence of a black daymark. This feature was stated to occupy the structure which, prior to 1974, supported Naval Air Base Jetty Light "1". Because of these very positive statements, photogrammetry is obliged to map the daymark. However, it is noted that this feature is neither listed in any of the Light List for 1974 through 1978 nor shown on the 1978 edition of Chart 18751. The daymark was added to the map during final review. It had previously been listed on the 76-40 for the map submitted to charts.

Many of the features the field editor attempted to locate by sextant fix are visible on the photography. Where there is a conflict in the positions, the photogrammetric position is shown.

The field editor submitted positions of several markers on Middle Breakwater. He states that the positions of the northern two were busted. The southern three appear incorrect or illogical in their relationship to the breakwater. These features are not visible on the photographs. The compilation office decided not to show any of the positions on the map.

See Summary, page 6 of this Descriptive Report.

62. COMPARISON WITH REGISTERED TOPOGRAPHIC SURVEYS:

Not applicable.

63. COMPARISON WITH MAPS OF OTHER AGENCIES:

Not applicable.

64. COMPARISON WITH CONTEMPORARY HYDROGRAPHIC SURVEYS:

Comparison was made with a copy of Final Verified Smooth Sheet H-9672 (FA-5-3-77) and Boat sheet H-9671 (FA-5-2-77).

A daybeacon located at lat. 33 44.8', long. 118 14.8' on the map is not shown on the H-9671. This daybeacon is not listed in the Light List but was recommended by the field editor. See paragraph 61.

65. COMPARISON WITH NAUTICAL CHARTS:

The map was compared with Chart 18751, 1:12,000 scale, 24th edition, dated March 18, 1978.

There are several pier ruins shown of the chart along the north side of Navy Mole. None are visible on the photographs. The field editor states that those charted near Pier 9 do not exist.

The piles, wreck, submerged pipe, degaussing ranges and the platform or float all charted on the south side of Navy Mole are not visible on the photography and are not mapped.

66. ADEQUACY OF RESULTS AND FUTURE SURVEYS:

This map complies with Project Instructions and meets the requirements for Bureau Standards and the National Standards of Map Accuracy.

Submitted by:

A. L. Shands

A. L. Shands
Final Reviewer

Approved:

for Bill H. Barn
Chief, Photogrammetric Branch, AMC

Approved:

John D. Perrow Jr
Chief, Photogrammetric Branch

AKHewson
Chief, Coastal Mapping Division

RECORD OF APPLICATION TO CHARTS

TP00400

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.

[illegible]