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

1972 TO 1975

REGISTRY IN ARCHIVES

DATE

† U.S. GOVERNMENT PRINTING OFFICE: 1974-782-901
### Descriptive Report - Data Record

**Photogrammetric Office**
Coastal Mapping Division
Norfolk, Va.

**Officer-in-Charge**
Jeffrey G. Carlen, CDR, NOAA

<table>
<thead>
<tr>
<th>I. Instructions Dated</th>
<th>2. Field</th>
</tr>
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<tbody>
<tr>
<td>Aerotriangulation</td>
<td>Premarking</td>
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<tr>
<td>Compilation</td>
<td>March 1, 1971</td>
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<tr>
<td>Supplement 1</td>
<td>Premarking</td>
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<tr>
<td>Amendment 1</td>
<td>Supplement I Feb. 25, 1972</td>
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<tr>
<td>Amend. 1 to Supp. 1</td>
<td>Jan. 28, 1974</td>
</tr>
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</table>

### II. DATUMS

#### 1. Horizontal:

- 1927 North American

#### 2. Vertical:

- Mean High-Water
- Mean Low-Water
- Mean Lower Low-Water
- Mean Sea Level

### III. HISTORY OF OFFICE OPERATIONS

<table>
<thead>
<tr>
<th>Operations</th>
<th>Method</th>
<th>Name</th>
<th>Date</th>
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<tr>
<td>Aerotriangulation</td>
<td>Analytic</td>
<td>I. D. Raborn</td>
<td>Sep 1973</td>
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<tr>
<td>Control and Bridge Points</td>
<td>Coradamat</td>
<td>Allen</td>
<td>Sep 1973</td>
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<tr>
<td>Stereoscopic Instrument Compilation</td>
<td>Wild B-8</td>
<td>L. O. Neterer</td>
<td>Jul 1974</td>
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<tr>
<td>Manuscript Delineation</td>
<td>Smooth drafted</td>
<td>C. Parker</td>
<td>Aug 1974</td>
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<td>Office Inspection Prior to Field Edit</td>
<td></td>
<td>R. R. White</td>
<td>Aug 1974</td>
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<td></td>
<td>C. Parker</td>
<td>Aug 1974</td>
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<tr>
<td>Compilation Section Review</td>
<td></td>
<td>A. L. Shands</td>
<td>Nov 1975</td>
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<tr>
<td>Final Review</td>
<td></td>
<td>A. L. Shands</td>
<td>Sep 1978</td>
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<td>A. L. Shands</td>
<td>Nov 1978</td>
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<tr>
<td>Data Examined in Photogrammetric Branch</td>
<td></td>
<td>A. K. Haukwood</td>
<td>Feb 1980</td>
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<td>Map Registered - Coastal Survey Section</td>
<td></td>
<td>F. L. Daugherty</td>
<td>Jun 1980</td>
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**COMPILATION SOURCES**

### 1. COMPILATION PHOTOGRAPHY

<table>
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<th>TIME</th>
<th>SCALE</th>
<th>STAGE OF TIDE</th>
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<td>72L(C) 2911-2913</td>
<td>3/24/72</td>
<td>15:00</td>
<td>1:15,000</td>
<td>1.2 above MLLW</td>
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<tr>
<td>72L(C) 3031 &amp; 3032</td>
<td>3/27/72</td>
<td>08:30</td>
<td>1:15,000</td>
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<td>72L(C) 3069 &amp; 3070</td>
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<td>1:15,000</td>
<td>4.7 above MLLW</td>
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### 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.)

<table>
<thead>
<tr>
<th>SURVEY NUMBER</th>
<th>DATE(S)</th>
<th>SURVEY COPY USED</th>
<th>SURVEY NUMBER</th>
<th>DATE(S)</th>
<th>SURVEY COPY USED</th>
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### 5. FINAL JUNCTIONS

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<th>NORTH</th>
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<th>SOUTH</th>
<th>WEST</th>
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<tr>
<td>TP-00393</td>
<td>TP-00401</td>
<td>No survey</td>
<td>TP-00399</td>
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**REMARKS**
## I. FIELD INSPECTION OPERATION

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<th>OPERATION</th>
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<th>DATE</th>
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<tr>
<td>1. CHIEF OF FIELD PARTY</td>
<td>R. B. Melby</td>
<td>Mar 1972</td>
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<td>2. HORIZONTAL CONTROL</td>
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<td>Mar 1972</td>
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<tr>
<td>3. VERTICAL CONTROL</td>
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<td>None</td>
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<tr>
<td>4. LANDMARKS AND AIDS TO NAVIGATION</td>
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<td>None</td>
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### TYPE OF INVESTIGATION
- [ ] COMPLETE
- [ ] SPECIFIC NAMES ONLY
- [x] NO INVESTIGATION

### PHOTO INSPECTION
- CLARIFICATION OF DETAILS BY: None

### 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

### 3. PHOTO NUMBERS (Clarification of details)
- None

### 4. LANDMARKS AND AIDS TO NAVIGATION IDENTIFIED
- None

### PHOTO NUMBER
- OBJECT NAME

### 5. GEOGRAPHIC NAMES:
- REPORT
- NONE

### 6. 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
### HISTORY OF FIELD OPERATIONS

1. **FIELD INSPECTION OPERATION**  
   - **OPERATION**  
     - CHIEF OF FIELD PARTY  
     - HORIZONTAL CONTROL  
     - VERTICAL CONTROL  
     - LANDMARKS AND AIDS TO NAVIGATION
   - **NAME**  
     - M. Fleming, Cdr. Davidson  
     - None  
     - None  
     - R. Hopkins, Lt. Cdr.
   - **DATE**  
     - Apr 1975

2. **FIELD EDIT OPERATION**
   - **OPERATION**  
     - RECOVERED BY  
     - ESTABLISHED BY  
     - PRE-MARKED OR IDENTIFIED BY  
     - RECOVERED BY  
     - ESTABLISHED BY  
     - PRE-MARKED OR IDENTIFIED BY  
     - RECOVERED (Triangulation Stations) BY
   - **TYPE OF INVESTIGATION**  
     - COMPLETE  
     - SPECIFIC NAMES ONLY  
     - NO INVESTIGATION
   - **LOCATION (Field Methods) BY**  
     - None
   - **IDENTIFIED BY**  
     - None

### SOURCE DATA

1. **HORIZONTAL CONTROL IDENTIFIED**
   - **PHOTO NUMBER**  
     - None
   - **STATION NAME**  
     - None
2. **VERTICAL CONTROL IDENTIFIED**
   - **PHOTO NUMBER**  
     - None
   - **STATION DESIGNATION**  
     - None

3. **PHOTO NUMBERS (Clarification of details)**
   - None
4. **LANDMARKS AND AIDS TO NAVIGATION IDENTIFIED**
   - None

5. **GEOGRAPHIC NAMES:**
   - **REPORT**
   - **NONE**

6. **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

## 1. Manuscript Copies

<table>
<thead>
<tr>
<th>Compilation Stages</th>
<th>Date</th>
<th>Remarks</th>
<th>Marine Charts</th>
<th>Hydro Support</th>
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<td>Compilation complete pending field edit</td>
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<td>10/11/74</td>
<td>9/30/74</td>
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<td>Field edit applied. Compilation complete.</td>
<td>Jul 1975</td>
<td>Class I manuscript</td>
<td>6/7/76</td>
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<td>Final Review</td>
<td>Sept 1978</td>
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<td>Nov 1978</td>
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## 2. Landmarks and Aids to Navigation

### 1. Reports to Marine Chart Division, Nautical Data Branch

<table>
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<td>Aids to be charted</td>
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<td>5/24/76</td>
<td>Landmarks to be charted</td>
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### 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: 

## 3. Federal Records Center Data

1. **X** Bridging Photographs; **X** Duplicate Bridging Report; **X** Computer Readouts.
2. **☐** Control Station Identification Cards; **X** Form Nos. Have Submitted by Field Parties.
3. **X** 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

### Second Edition

<table>
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### Third Edition

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### Fourth Edition

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<td>Date of Field Edit</td>
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NOAA Form 76-360

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-00391 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.
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.
PHOTOGRAFMETRIC 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 identifiable 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 Sand 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

Approved and forwarded:

John J. Parrow, 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.
1. Vicente, 1931
2. Verdes, 1933, Sub pt.
3. Old, 1939, 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. Redora 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

Sketch #1
PHOTOGRAFMETRIC PLOT REPORT
Part 2
Dana Point to Point Vicente
California
Job PH-7107
August 1973

Sketch #2
### Descriptive Report Control Record

<table>
<thead>
<tr>
<th>MAP NO.</th>
<th>JOB NO.</th>
<th>SOURCE OF INFORMATION (Index)</th>
<th>AEROTRIANGULATION POINT NUMBER</th>
<th>COORDINATES IN FEET</th>
<th>GEOGRAPHIC POSITION</th>
<th>ORIGINATING ACTIVITY</th>
</tr>
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<tr>
<td>TP-00400</td>
<td>PH-7107</td>
<td>Quad 331181</td>
<td>STA. 2055</td>
<td>x=</td>
<td>φ = 33 43 14.655</td>
<td>Coastal Mapping</td>
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<td>Division, Norfolk, Va.</td>
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<td>MID WEST, 1948</td>
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<td>STA. 2082</td>
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<td>y= λ = 118 12 52.461</td>
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<td>LONG BEACH LIGHTHOUSE, 1949</td>
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<td>STA. 1942</td>
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<td>φ = 33 42 38.840</td>
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<td>EAST BREAKWATER</td>
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<td>STA. 2072</td>
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<td>φ =</td>
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<tr>
<td>LIGHTHOUSE WEST END, 1942</td>
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</table>

**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.

**COMPUTED BY** A. C. Rauck, Jr.  
**DATE** 10/16/73  
**COMPUTATION CHECKED BY** LBF  
**DATE** 10/18/73

**LISTED BY**  
**DATE**  
**LISTING CHECKED BY**  
**DATE**  
**HANDB PLOTING BY**  
**DATE**

SUPERSSEDES 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:**


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.
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
Chief Geographer
<table>
<thead>
<tr>
<th></th>
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<tr>
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**Control Stations**

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<th>7. Photo Hydro Stations</th>
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**Bench Marks**

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**Alongshore Areas (Nautical Chart Data)**

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**Physical Features**

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**Water Features**

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**Steroscopic Instrument Contours**

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**Cultural Features**

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**Boundaries**

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<th>31. Boundary Lines</th>
<th>32. Public Land Lines</th>
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**Miscellaneous**

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<tr>
<th>33. Geographic Names</th>
<th>34. Junctions</th>
<th>35. Legibility of the Manuscript</th>
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<tr>
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<tbody>
<tr>
<td>RRW</td>
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<td>RRW</td>
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</tr>
</tbody>
</table>

**Reviewer**

Richard R. White 8/74

**Supervisor, Review Section or Unit**

Albert C. Rauck, Jr.

**Field Completion Additions and Corrections to the Manuscript**

Adoptions 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**

Charles Parker 7/18/75

**Supervisor**

Albert C. Rauck, Jr.

**Reviewer**

A.J. Shands 11/75

**Form 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 FAIRMOUNT 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 fixer 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 questions asked of the field editor involved locating the shore ends of cable and pipeline 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
M. H. FLEMING
CDR, NOAA
** NONFLOATING AIDS FOR CHARTS **

** N.O.A.A. 76-40 **

** NATIONAL OCEANIC AND ATMOSPHERIC ADMINISTRATION **

** U.S. DEPARTMENT OF COMMERCE **

** ORIGINATING ACTIVITY **

<table>
<thead>
<tr>
<th>TO BE CHARTED</th>
<th>TO BE REVISED</th>
<th>TO BE DELETED</th>
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</thead>
</table>

** Coastal Mapping Div. * A.M.C. Norfolk, Va. **

** STATE ** California

** LOCALITY ** Dana Point to Point Vicente

** DATE ** July, 1975

The following objects HAVE NOT been inspected from seaward to determine their value as landmarks.

<table>
<thead>
<tr>
<th>OPR PROJECT NO.</th>
<th>JOB NUMBER</th>
<th>SURVEY NUMBER</th>
<th>DATUM</th>
<th>POSITION</th>
<th>METHOD AND DATE OF LOCATION</th>
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<tbody>
<tr>
<td>411</td>
<td>Ph-7107</td>
<td>TP-001:00</td>
<td>N.A. 1927 /</td>
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** CHARTING NAME **

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<tr>
<th>LIGHT</th>
<th>Long Beach Channel Light 6</th>
<th>33 lat</th>
<th>118 12</th>
<th>52.552</th>
<th>72LC (C) 3913 Mar. 24, 1972</th>
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<tbody>
<tr>
<td>LIGHT</td>
<td>Long Beach Channel Naval Base Mole Light 5 (Navy Mole Light, 1949)</td>
<td>33 lat</td>
<td>118 12</td>
<td>59.800</td>
<td>F-3-6-L April, 1975</td>
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<tr>
<td>LIGHT</td>
<td>Los Angeles Main Channel Entrance Light 2 (East Breakwater Lighthouse)</td>
<td>33 lat</td>
<td>118 14</td>
<td>37.458</td>
<td>F-V-Vis. April, 1975</td>
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<tr>
<td>LIGHT</td>
<td>West End, 1942</td>
<td>33 lat</td>
<td>118 14</td>
<td>26.416</td>
<td>72LC (C) 3911 Mar. 24, 1972</td>
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<td>LIGHT</td>
<td>Naval Base Mole Light 2</td>
<td>33 lat</td>
<td>118 13</td>
<td>49.039</td>
<td>72LC (C) 3912 Mar. 24, 1972</td>
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<tr>
<td>DAYMARK</td>
<td>Black Square Daymark on White House</td>
<td>33 lat</td>
<td>118 14</td>
<td>52.145</td>
<td>F-4-8-L April, 1975</td>
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</table>

** CHARTS AFFECTED **

| 18302 | 18323 |

** NOTE: **

** ** New field position

** * ** Not in 1976 Light List. Field editor found no light, but a daymark.
<table>
<thead>
<tr>
<th>CHARTING NAME</th>
<th>DESCRIPTION</th>
<th>LATITUDE</th>
<th>LONGITUDE</th>
<th>OFFICE</th>
<th>FIELD</th>
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<tbody>
<tr>
<td>RADAR TOWER</td>
<td></td>
<td>33° 44' 42&quot;</td>
<td>118° 12'</td>
<td>133° 51'</td>
<td>Not verified by editor.</td>
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</tbody>
</table>
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 "I". 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 on 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

Approved:

Bill H. Barrow
Chief, Photogrammetric Branch, AMC

Approved:

John D. Derron
Chief, Photogrammetric Branch

Chief, Coastal Mapping Division
## 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.

<table>
<thead>
<tr>
<th>CHART</th>
<th>DATE</th>
<th>CARTOGRAPHER</th>
<th>REMARKS</th>
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</tbody>
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FORM C&GS-8332 SUPERSDES ALL EDITIONS OF FORM C&GS-975.