# DESCRIPTIVE REPORT

**Type of Survey**: Shoreline  
**Job No.**: CM-7404  
**Map No.**: TP-00778  
**Classification No.**: Final  
**Edition No.**: 1  
**Field Edited Map**

## LOCALITY

- **State**: California  
- **General Locality**: Point Vicente to Port Hueneme  
- **Locality**: Port Hueneme

## PERIOD

1974 TO 1976

## 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.

---

**I. INSTRUCTIONS DATED**

<table>
<thead>
<tr>
<th>OFFICE</th>
<th>FIELD</th>
</tr>
</thead>
<tbody>
<tr>
<td>Aerotriangulation Nov. 4, 1974</td>
<td>Premarking 1/30/74</td>
</tr>
<tr>
<td>Compilation Jan. 8, 1975</td>
<td>Premarking Amendment I 3/14/74</td>
</tr>
</tbody>
</table>

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**II. DATUMS**

<table>
<thead>
<tr>
<th>HORIZONTAL:</th>
<th>OTHER (Specify)</th>
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<tbody>
<tr>
<td>1927 NORTH AMERICAN</td>
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<table>
<thead>
<tr>
<th>VERTICAL:</th>
<th>OTHER (Specify)</th>
</tr>
</thead>
<tbody>
<tr>
<td>MEAN HIGH-WATER</td>
<td></td>
</tr>
<tr>
<td>MEAN LOW-WATER</td>
<td></td>
</tr>
<tr>
<td>MEAN LOWER LOW-WATER</td>
<td></td>
</tr>
<tr>
<td>MEAN SEA LEVEL</td>
<td></td>
</tr>
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**III. HISTORY OF OFFICE OPERATIONS**

<table>
<thead>
<tr>
<th>OPERATIONS</th>
<th>LANDMARKS AND AIDS</th>
<th>NAME</th>
<th>DATE</th>
</tr>
</thead>
<tbody>
<tr>
<td>1. AEROTRIANGULATION</td>
<td>Analytic</td>
<td>B. Thornton</td>
<td>Jan 1975</td>
</tr>
<tr>
<td>2. CONTROL AND BRIDGE POINTS</td>
<td>PLOTTED BY R. Robertson</td>
<td>Feb 1975</td>
<td></td>
</tr>
<tr>
<td>3. STEREOSCOPIC INSTRUMENT</td>
<td>PLANIMETRY BY J. Byrd &amp; J. Roderick</td>
<td>1/75 8/76</td>
<td></td>
</tr>
<tr>
<td>4. MANUSCRIPT DELINEATION</td>
<td>PLANIMETRY BY A. C. Rauck, Jr.</td>
<td>Sep 1976</td>
<td></td>
</tr>
<tr>
<td>5. OFFICE INSPECTION PRIOR TO FIELD EDIT</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>6. APPLICATION OF FIELD EDIT DATA</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>7. COMPIILATION SECTION REVIEW</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>8. FINAL REVIEW</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>9. DATA FORWARDED TO PHOTOGRAMMETRIC BRANCH</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>10. DATA EXAMINED IN PHOTOGRAMMETRIC BRANCH</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>11. MAP REGISTERED - COASTAL SURVEY SECTION</td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

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**NOAA FORM 76-36A**
SUPERSedes FORM C&GS 181 SERIES

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*U.S. G.P.O. 1972-769382/582 REG.#6*
1. **Compilation Photography**

**Camera(s):**
- Wild RC-8"L"

**Tide Stage Reference:**
- X Predicted Tides
- [ ] Reference Station Records
- [x] Tide Controlled Photography

<table>
<thead>
<tr>
<th>Number and Type</th>
<th>Date</th>
<th>Time</th>
<th>Scale</th>
<th>Stage of Tide</th>
</tr>
</thead>
<tbody>
<tr>
<td>*74L(C) 1166-1171</td>
<td>3/5/74</td>
<td>09:44</td>
<td>1:15,000</td>
<td>3.1 ft. above MLLW</td>
</tr>
<tr>
<td>**74L(I) 1863-1867</td>
<td>4/3/74</td>
<td>07:45</td>
<td>1:15,000</td>
<td>-0.2 ft. of MHW</td>
</tr>
<tr>
<td>**74L(L) 1875-1879</td>
<td>4/3/74</td>
<td>07:58</td>
<td>1:15,000</td>
<td>-0.2 ft. of MHW</td>
</tr>
<tr>
<td>**74L(L) 1661-1664</td>
<td>3/31/74</td>
<td>09:43</td>
<td>1:15,000</td>
<td>-0.2 ft. of MLLW</td>
</tr>
<tr>
<td>**74L(L) 1666-1670</td>
<td>3/31/74</td>
<td>09:52</td>
<td>1:15,000</td>
<td>-0.2 ft. of MLLW</td>
</tr>
</tbody>
</table>

**Remarks:**
- *Bridge and compilation photography (predicted tides)*
- **Tide coordinated photography at MHW and MLLW**

2. **Source of Mean High-Water Line:**

The mean high water line was compiled graphically from the above listed tide coordinated photography, and from measurements supplied by the field editor.

3. **Source of Mean Low-Water or Mean Lower Low-Water Line:**

The mean lower low water line was compiled graphically from the above listed tide coordinated photography.

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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</thead>
<tbody>
<tr>
<td></td>
<td></td>
<td></td>
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</tr>
</tbody>
</table>

5. **Final Junctions**

**North:** TP-00777  
**East:** TP-00777  
**South:** TP-00777  
**West:** Tp-00777  

**Remarks:**
- This 1:5,000 scale T-sheet lies within the central area of TP-00777
HISTORY OF FIELD OPERATIONS

I. **FIELD INSPECTION OPERATION**

<table>
<thead>
<tr>
<th>OPERATION</th>
<th>NAME</th>
<th>DATE</th>
</tr>
</thead>
<tbody>
<tr>
<td>1. CHIEF OF FIELD PARTY</td>
<td>R. Melby</td>
<td>Feb 1974</td>
</tr>
<tr>
<td>2. HORIZONTAL CONTROL</td>
<td>R. Melby</td>
<td>Feb 1974</td>
</tr>
<tr>
<td>3. VERTICAL CONTROL</td>
<td>L. Riggers</td>
<td>Feb 1974</td>
</tr>
<tr>
<td>4. LANDMARKS AND AIDS TO NAVIGATION</td>
<td>None</td>
<td>None</td>
</tr>
</tbody>
</table>

II. **SOURCE DATA**

| 1. HORIZONTAL CONTROL IDENTIFIED     | 2. VERTICAL CONTROL IDENTIFIED |
| PHOTO NUMBER                         | PHOTO NUMBER                   |
| STATION NAME                         | STATION DESIGNATION            |
| 74U(C)1014                           | LIGHT, 1921                     |

III. **PHOTO NUMBER**

<table>
<thead>
<tr>
<th>PHOTO NUMBER</th>
<th>OBJECT NAME</th>
</tr>
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<tbody>
<tr>
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IV. **GEOGRAPHIC NAMES**

<table>
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<th>REPORT</th>
<th>NONE</th>
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V. **BOUNDARY AND LIMITS**

<table>
<thead>
<tr>
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<th>NONE</th>
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VI. **SUPPLEMENTAL MAPS AND PLANS**

None

VII. **OTHER FIELD RECORDS**

Sketch books, etc. DO NOT list data submitted to the Geodesy Division

1-form 152
### HISTORY OF FIELD OPERATIONS

<table>
<thead>
<tr>
<th>OPERATION</th>
<th>NAME</th>
<th>DATE</th>
</tr>
</thead>
<tbody>
<tr>
<td>1. CHIEF OF FIELD PARTY</td>
<td>J. P. Randall</td>
<td>Nov-Dec 1976</td>
</tr>
<tr>
<td>2. HORIZONTAL CONTROL RECOVERED</td>
<td>None</td>
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</tr>
<tr>
<td>3. VERTICAL CONTROL RECOVERED</td>
<td>None</td>
<td></td>
</tr>
<tr>
<td>4. LANDMARKS AND AIDS TO NAVIGATION RECOVERED (Triangulation Stations)</td>
<td>J. C. Osborn, Jr.</td>
<td>Dec 1976</td>
</tr>
<tr>
<td>4. LANDMARKS AND AIDS TO NAVIGATION LOCATED (Field Methods)</td>
<td>J. C. Osborn, Jr.</td>
<td>Dec 1976</td>
</tr>
</tbody>
</table>

5. GEOGRAPHIC NAMES INVESTIGATION

   TYPE OF INVESTIGATION
   - COMPLETE
   - SPECIFIC NAMES ONLY
   - NO INVESTIGATION

6. PHOTO INSPECTION

   CLARIFICATION OF DETAILS BY J. C. Osborn, Jr. Dec 1976

7. BOUNDARIES AND LIMITS

   SURVEYED OR IDENTIFIED BY NA

### SOURCE DATA

1. HORIZONTAL CONTROL IDENTIFIED None
2. VERTICAL CONTROL IDENTIFIED None

<table>
<thead>
<tr>
<th>PHOTO NUMBER</th>
<th>STATION NAME</th>
<th>PHOTO NUMBER</th>
<th>STATION DESIGNATION</th>
</tr>
</thead>
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3. PHOTO NUMBERS (Clarification of details)

   74L(I) 1662-1664, 1668

4. LANDMARKS AND AIDS TO NAVIGATION IDENTIFIED None

<table>
<thead>
<tr>
<th>PHOTO NUMBER</th>
<th>OBJECT NAME</th>
<th>PHOTO NUMBER</th>
<th>OBJECT NAME</th>
</tr>
</thead>
</table>

5. GEOGRAPHIC NAMES: □ REPORT □ NONE
6. BOUNDARY AND LIMITS: □ REPORT □ NONE

### SUPPLEMENTAL MAPS AND PLANS

None

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

   1. film field edit ozalid vol, 1 hydro signals
   2. film hydro signal sheet
   3. field_edit_report
### I. MANUSCRIPT COPIES

<table>
<thead>
<tr>
<th>DATA COMPILED</th>
<th>DATE</th>
<th>REMARKS</th>
<th>MARINE CHARTS</th>
<th>HYDRO SUPPORT</th>
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<tr>
<td>Compilation complete</td>
<td>9/22/76</td>
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<td>9/29/76</td>
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<tr>
<td>pending field edit</td>
<td></td>
<td>superseded</td>
<td></td>
<td>9/29/76</td>
</tr>
<tr>
<td>Field edit applied</td>
<td>7/1/77</td>
<td>Class I manuscript</td>
<td></td>
<td>Jul 1978</td>
</tr>
<tr>
<td>Compilation complete</td>
<td></td>
<td>Final</td>
<td></td>
<td>None</td>
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<td>Final Review</td>
<td>Mar 1979</td>
<td>Final</td>
<td>Apr 1979</td>
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### II. LANDMARKS AND AIDS TO NAVIGATION

#### 1. REPORTS TO MARINE CHART DIVISION, NAUTICAL DATA BRANCH

<table>
<thead>
<tr>
<th>NUMBER</th>
<th>CHAR NUMBER</th>
<th>DATE</th>
<th>REMARKS</th>
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<tr>
<td>2</td>
<td></td>
<td>Oct 17, 1977</td>
<td>13 landmarks for charts</td>
</tr>
<tr>
<td>1</td>
<td></td>
<td>Oct 17, 1977</td>
<td>5 nonfloating aids</td>
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### III. FEDERAL RECORDS CENTER DATA

1. [X] BRIDGING PHOTOGRAPHS; [X] DUPLICATE BRIDGING REPORT; [ ] COMPUTER READOUTS.
2. [X] CONTROL STATION IDENTIFICATION CARDS; [X] FORM NO. 76-36 SUBMITTED BY FIELD PARTIES.
3. [ ] SOURCE DATA (except for Geographic Names Report) AS LISTED IN SECTION II, NOAA FORM 76-36C.

### IV. SURVEY EDITIONS

<table>
<thead>
<tr>
<th>SECOND EDITION</th>
<th>SURVEY NUMBER</th>
<th>JOB NUMBER</th>
<th>TYPE OF SURVEY</th>
<th>MAP CLASS</th>
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<tr>
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<td>TP - (2)</td>
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<tr>
<td>DATE OF PHOTOGRAPHY</td>
<td>DATE OF FIELD EDIT</td>
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<table>
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<th>SURVEY NUMBER</th>
<th>JOB NUMBER</th>
<th>TYPE OF SURVEY</th>
<th>MAP CLASS</th>
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<tbody>
<tr>
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<td>TP - (3)</td>
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<tr>
<td>DATE OF PHOTOGRAPHY</td>
<td>DATE OF FIELD EDIT</td>
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</table>

<table>
<thead>
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<th>JOB NUMBER</th>
<th>TYPE OF SURVEY</th>
<th>MAP CLASS</th>
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<tbody>
<tr>
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<td>TP - (4)</td>
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<td></td>
<td></td>
</tr>
<tr>
<td>DATE OF PHOTOGRAPHY</td>
<td>DATE OF FIELD EDIT</td>
<td></td>
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</table>
SUMMARY TO ACCOMPANY

TP-00777 through TP-00792

Maps included in this summary comprise all of project CM-7404, Point Vicente to Port Hueneme, California. All but three of the sixteen maps in this project are 1:10,000 scale. The others, TP-00778, TP-00789 and TP-00791 are each 1:5,000 scale. All are standard shoreline maps, the purpose of which is to provide up-to-date shoreline and alongshore delineation for contemporary hydrographic surveys and for nautical chart construction.

The project area is immediately northwest of the city of Los Angeles. The shoreline is a mixture of wide, smooth, sandy beach and rough, rocky cliff areas.

Field operations prior to delineation did not include clarification of photographic details. They were limited to the recovery and identification of horizontal control and providing ground support needed to obtain tide coordinated photography.

Three sets of photographs were supplied and used for the delineation of each map. Natural color photographs were used for bridging and instrument compilation. Tide coordinated, black and white infrared photographs were used to graphically compile the mean high water line and mean lower low water line. The 1:5,000 scale maps were compiled with 1:15,000 scale photographs. The 1:10,000 scale maps were compiled with 1:30,000 scale photographs.

Bridging was done at the Washington Science Center in January 1975. Ratios were determined and ordered at that time. All maps were compiled at the Atlantic Marine Center in the Spring of 1975.

Field edit was performed in three parts. Maps TP-00785 through TP-00792 were edited in the fall of 1975. The location of some offshore features was not completed until the spring of 1976. At that time Maps TP-00781 through TP-00784 were edited. Maps TP-00777 through TP-00780 were edited in the fall of 1976. All edit was applied at the AMC.

Final Review was performed at the Atlantic Marine Center in the Winter of 1979. The original base maps and all pertinent data was forwarded to the Washington Science Center for reproduction and final registration.
FIELD INSPECTION

TP-00778

Field inspection was limited to the recovery and identification of horizontal control for aerotriangulation and ground support for the tide coordinated infrared photography.
21. Area Covered

The area covered by this report is the southwest coast of California from Point Vicente to Port Hueneme. This area is covered by thirteen 1:10,000-scale sheets, TP-00777 thru TP-00792, with the exception of sheets TP-00778, 789, and 791, which are at a scale of 1:5,000.

22. Method

Five strips of 1:30,000-scale color photography were bridged by analytic aerotriangulation methods. The five strips of bridging photography were controlled by field-identified control including some control from previous airport surveys which were used as checks.

Common points were located on the bridging photography and the tide-controlled IR for ratio purposes. In addition, common points were located on the bridging and compilation photography. The points read on the bridging strips are more than adequate for compilation purposes. Tie points were used in all five strips to insure an adequate junction of all strips during the strip adjustments.

23. Adequacy of Control

Control checked well within map accuracy standards and is more than sufficient for intended use. The results from the 1:30,000 bridging photography were adequate enough so as to not make it necessary to bridge the 1:15,000 compilation photography. See attached sheet for accuracy of control in strip adjustment.

24. Supplemental Data

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

25. Photography

The coverage, overlap, and quality of the photography was adequate for the job.

Submitted by,

Approved and forwarded: Brian F. Thornton

John D. Perrow, Jr.
Chief, Aerotriangulation Section

Attachment
**List and Accuracy of Control Used in Strip Adjustment**

<table>
<thead>
<tr>
<th>Strip #</th>
<th>Point</th>
<th>X-Error</th>
<th>Y-Error</th>
</tr>
</thead>
<tbody>
<tr>
<td>Strip #1</td>
<td>9101</td>
<td>0</td>
<td>0</td>
</tr>
<tr>
<td>山北 1114</td>
<td>0</td>
<td>0</td>
<td></td>
</tr>
<tr>
<td>13101</td>
<td>0</td>
<td>0</td>
<td></td>
</tr>
<tr>
<td>Strip #2</td>
<td>13101</td>
<td>-0.381</td>
<td>0.253</td>
</tr>
<tr>
<td>24101</td>
<td>-1.368</td>
<td>-0.581</td>
<td></td>
</tr>
<tr>
<td>28100</td>
<td>1.455</td>
<td>0.573</td>
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<tr>
<td>34100</td>
<td>-0.475</td>
<td>-0.246</td>
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</tr>
<tr>
<td>Strip #3</td>
<td>28100</td>
<td>0.626</td>
<td>1.068</td>
</tr>
<tr>
<td>50100</td>
<td>-0.267</td>
<td>1.023</td>
<td></td>
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<tr>
<td>58101</td>
<td>0.064</td>
<td>-0.204</td>
<td></td>
</tr>
<tr>
<td>Strip #4</td>
<td>108101</td>
<td>-1.954</td>
<td>-0.873</td>
</tr>
<tr>
<td>山北 11111</td>
<td>2.718</td>
<td>3.046</td>
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<tr>
<td>113101</td>
<td>-0.123</td>
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<td>117100</td>
<td>-1.029</td>
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<td>58101</td>
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<td>0.363</td>
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<td>Strip #5</td>
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<td>0.001</td>
<td>0.001</td>
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<td>110801</td>
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<tr>
<td>111801</td>
<td>1.078</td>
<td>0.017</td>
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</table>
JOB CM-7404
POINT VICENTE TO
PORT HUNENE, CALIFORNIA
JOB CM-7404
POINT VICENTE TO
PORT HUENEME, CALIFORNIA
<table>
<thead>
<tr>
<th>MAP NO.</th>
<th>STATION NAME</th>
<th>SOURCE OF INFORMATION</th>
<th>AEROTRIANGULATION POINT NUMBER</th>
<th>X=</th>
<th>Y=</th>
<th>ZONE</th>
<th>LATITUDE</th>
<th>LONGITUDE</th>
<th>FORWARD</th>
<th>BACK</th>
</tr>
</thead>
<tbody>
<tr>
<td>TP-00778</td>
<td>PORT HUENEHE, NO. 374, 1960</td>
<td>Quad</td>
<td>341183 1037</td>
<td>x=</td>
<td>y=</td>
<td></td>
<td>34 09</td>
<td>54.950</td>
<td>1693.1</td>
<td>(155.6)</td>
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<tr>
<td>CM-7404</td>
<td>POINT HUENEHE LIGHTHOUSE, 1948</td>
<td>Quad</td>
<td>341183 1073</td>
<td>x=</td>
<td>y=</td>
<td></td>
<td>34 08</td>
<td>42.574</td>
<td>1311.8</td>
<td>(536.9)</td>
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<tr>
<td></td>
<td>PORT HUENEHE, MUNICIPAL WATER TANK, 1960</td>
<td>Quad</td>
<td>341183 1039</td>
<td>x=</td>
<td>y=</td>
<td></td>
<td>34 09</td>
<td>08.341</td>
<td>257.0</td>
<td>(1591.7)</td>
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<td></td>
<td>LIGHT, 1921</td>
<td>Quad</td>
<td>341183 1073</td>
<td>x=</td>
<td>y=</td>
<td></td>
<td>34 08</td>
<td>42.829</td>
<td>1319.6</td>
<td>(529.1)</td>
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<tr>
<td></td>
<td>PORT HUENEHE, NO. 431, 1960</td>
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<td>x=</td>
<td>y=</td>
<td></td>
<td>34 09</td>
<td>30.260</td>
<td>932.4</td>
<td>(916.3)</td>
</tr>
</tbody>
</table>

COMPUTED BY: A. C. Rauck, Jr.  DATE: 2/28/75

COMPUTATION CHECKED BY: D. Butler  DATE: 2/28/75

LISTED BY:  DATE:  

LISTING CHECKED BY:  DATE:  

HAND PLOTTING BY:  DATE:  

HAND PLOTTING CHECKED BY:  DATE:  

SUPERSSEDES NOAA FORM 76-41, 2-71 EDITION WHICH IS OBSOLETE.
COMPILATION REPORT
TP-00778

31. **DELINEATION:**

   The 1:15,000 scale color photography was set on the Wild B-8 stereoplotter. The interior details were delineated at that time. Points common to the 1:5,000 infrared MHW and MLLW ratios were selected and positioned to allow the graphic compilation of the MHW Line, the MLLW Line, and alongshore details. Photo coverage and quality were adequate.

32. **CONTROL:**


33. **SUPPLEMENTAL DATA:**

   None.

34. **CONTOURS AND DRAINAGE:**

   Contours are not applicable to the project. Drainage was delineated by office interpretation of the photographs.

35. **SHORELINE AND ALONGSHORE DETAILS:**

   Alongshore details were delineated by office interpretation of the photographs.

   The mean high water line and mean lower low water line were compiled from the tide coordinated infrared ratioed photographs.

36. **OFFSHORE DETAILS:**

   No unusual problems.
37. LANDMARKS AND AIDS:

Work copies of Forms 75-40 were forwarded to the field editor for further processing.

38. CONTROL FOR FUTURE SURVEYS:

None.

39. JUNCTIONS:

See Form 76-368, Item #5 concerning junctions.

40. HORIZONTAL AND VERTICAL ACCURACY:

No statement.

46. COMPARISON WITH EXISTING MAPS:

A comparison has been made with USGS Quadrangle Oxnard, California, scale 1:24,000 1949, photorevised 1967.

47. COMPARISON WITH NAUTICAL CHARTS:

ITEMS TO BE APPLIED TO NAUTICAL CHARTS IMMEDIATELY:

None.

ITEMS TO BE CARRIED FORWARD:

None.

Submitted by:

Joanne Roderick
Cartographer
Sept. 22, 1976

Approved:

Albert C. Rauck, Jr.
Chief, Coastal Mapping Section
ADDENDUM TO THE COMPILATION REPORT

TP-00778

FIELD EDIT:

The field edit was adequate. All questions asked were answered completely, and the field editor's notes on the field edit ozalid were well cross-referenced to the photographs. All notes were quite legible. The field editor indicated a general change in the MHW line on the MLLW photos, but submitted only seven measurements from identifiable features to substantiate his suggestion. Therefore, much of the MHW line and all of the MLLW line were left as originally compiled. The field editor marked a surf zone on matte photos 1668, 1663, and 1662, and a new breaker line was delineated to agree with his proposed limits. The field editor reported a position for landmark Port Hueneme NCBC Water Tank #374,1900 which does not agree with the position listed with the horizontal control. Since he sent no recovery card or station description indicating such a change in position, the station was left in its original position. The landmark value of a tower at approximately 34° 08'43", 119°12'30", located during stereoplotter compilation, was questioned. The field editor reported that it was a landmark, but did not list it on the 76-40 form. It was left as a map feature. The field editor listed Fixes in Vol. 1 hydro signals for a change in delineation of riprap at approximately 34°10'22", 119°13'16" and drew a sketch to key the fixes, #16-21. The fixes are reversed on the sketch, ie. #16 plots on the manuscript were #21 falls on the sketch.

Submitted by:

Joanne Roderick
J. Roderick
Cartographer
7/1/77
GEOGRAPHIC NAMES

FINAL NAME SHEET

CM-7404 (Point Vicente to Port Hueneme, California)

TP-00778

- Channel Islands Harbor
- Hollywood Beach
- Hollywood by the Sea
- Oxnard Beach
- Pacific Ocean
- Point Hueneme
- Port Hueneme
- Silver Strand
- Ventura County (RY)

Approved by:

[Signature]
Charles E. Harrington, Chief Geographer

C3x8
PHOTOGRAMMETRIC OFFICE REVIEW

TP - 00778

1. PROJECTION AND GRIDS
   ACR, JR.

2. TITLE
   ACR, JR.

3. MANUSCRIPT NUMBERS
   ACR

4. MANUSCRIPT SIZE
   ACR

CONTROL STATIONS

5. HORIZONTAL CONTROL STATIONS OF THIRD-ORDER OR HIGHER ACCURACY
   ACR

6. RECOVERABLE HORIZONTAL STATIONS OF LESS THAN THIRD-ORDER ACCURACY
   (Topographic stations)

   NA

7. PHOTO HYDRO STATIONS
   NA

8. BENCHMARKS
   NA

9. PLOTTING OF SEXTANT FIXES
   NA

10. PHOTOGRAMMETRIC PLOT REPORT
    ACR

11. DETAIL POINTS
    ACR

ALONGSHORE AREAS (Nautical Chart Date)

12. SHORELINE
    ACR

13. LOW-WATER LINE
    ACR

14. ROCKS, SHOALS, ETC.
    ACR

15. BRIDGES
    ACR

16. AIDS TO NAVIGATION
    ACR

17. LANDMARKS
    ACR

18. OTHER ALONGSHORE PHYSICAL FEATURES
    ACR

19. OTHER ALONGSHORE CULTURAL FEATURES
    ACR

PHYSICAL FEATURES

20. WATER FEATURES
    ACR

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
    ACR

CULTURAL FEATURES

27. ROADS
    ACR

28. BUILDINGS
    ACR

29. RAILROADS
    ACR

30. OTHER CULTURAL FEATURES
    ACR

BOUNDARIES

31. BOUNDARY LINES
    NA

32. PUBLIC LAND LINES
    NA

MISCELLANEOUS

33. GEOGRAPHIC NAMES
    ACR

34. JUNCTIONS
    ACR

35. LEGIBILITY OF THE MANUSCRIPT
    ACR

36. DISCREPANCY OVERLAY
    ACR

37. DESCRIPTIVE REPORT
    ACR

38. FIELD INSPECTION PHOTOGRAHPS
    NA

39. FORMS
    ACR

40. REVIEWER
    Albert C. Rauck, Jr.
    A. C. Rauck, Jr.

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

J. Roderick

Reviewed: J. O. Neterer 7/77

SUPERVISOR

Albert C. Rauck, Jr.

REMARKS

See form 76-36C, field edit section II, items 3 & 8 for field edit sources.
**DESCRIPTIVE REPORT**

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<td>Locality</td>
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1976 TO 1976

**REGISTRY IN ARCHIVES**

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FIELD EDIT

PT. MUGU, PORT HUENEME, AND CHANNEL ISLANDS HARBOR

JOB CM-7404

OPR-411-RA-76

MANUSCRIPT NO. TP-00777, 00780; 1:10,000

TP-00778; 1:5000

J.P. RANDALL, CAPT., NOAA
COMMANDING OFFICER
Introduction and Methods

Field Edit for Port Hueneme, Channel Islands Harbor, and Pt. Mugu, JOB CH-7404, OPR-411-RA-76, commenced on November 1, 1976, and was completed on December 2, 1976. Two field units performed the majority of all work. The largest portion of shoreline verification, location of dangers to navigation, and photo signal location work was accomplished by walking the shoreline. The remainder was performed from small boats paralleling the beach. Field edit is complete and thorough for three 1:10,000 scale manuscripts and one 1:5,000 scale manuscript that comprise JOB CM-7404.

Field edit operations began inside Port Hueneme on 1:5000 scale manuscript TP-00778 in order to facilitate commencement of hydrographic survey operations on H-9666. Work on this manuscript then progressed northwest to encompass Channel Islands Harbor and the shoreline between. In addition to shoreline verification and location of dangers to navigation for TP-00778, photo signal location was accomplished to provide position control for the 1:5000 scale visual hydrographic survey of Port Hueneme and Channel Islands Harbor. More discussion on this can be found later in the text.

Concurrent with field edit operations on TP-00778, work was begun at southeastern JOB limits of the 1:10,000 scale manuscript TP-00780. Work progressed northwest to the completion of TP-00780, TP-00779, and TP-00777 to the general area junction with 1:5000 manuscript TP-00778. Finally work shifted to the northwestern JOB limits on TP-00777 and moved southeast to the junction with TP-00778.

In conjunction with shoreline verification, location of dangers to navigation, and photo signal identification, questions from the Master Field Edit Sheets relating to the locations of fixed aids to navigation and landmarks for charts were thoroughly investigated and answered, and are noted on the Masters with cross-referencing.

All deletions, additions, and corrections to the final shoreline appear on the Master Field Edit Sheets and on the processed cronopaque photographs. With the exception of the photo signal location work, the Master Field Edit Sheets are indices of all field edit work carried out. All discrepancies and questions listed on the Master Field Edit Sheets are completely answered on the Master. Proper references are included for each question answered. SPECIAL VIOLET ink field notes on the Master Field Edit Sheets are items that have been verified by field edit. The photograph number for each item is given as a reference. SPECIAL RED ink was used on the Masters to indicate changes or additions found during field edit. Position or location references are included. Finally, those field notes inked in green are deletions from the manuscripts. References are included. All notes on the Master Field Edit Sheets which are verified on the cronopaque photographs include the
description or an explanation of the feature verified and the photo number on which the item was located. All shoreline information on the smooth boatsheets for H-9666 and H-9667 which was verified by field edit was inked in black. Changes, which include deletions, and/or additions were inked on the smooth boatsheets in SPECIAL RED. Blue, the smooth boatsheet color for unverified items, was not used due to the completeness of verification on all manuscripts.

For a reference of photograph number - T-Sheet Manuscripts, refer to "Separates Following the Text." Height data on rocks was estimated to plus or minus 1 foot, and the bluffs on the manuscripts to plus or minus 10 feet for those judged less than 200 feet, and plus or minus 50 feet for those judged greater than 200 feet. All items are referenced to Greenwich Mean Time.

Adequacy of Compilation

The compilation of the manuscripts for JOB CH-7404 were complete and adequate. Compilation of the MHHWL was generally good, although there is a general shift seaward of the MHHWL as compared to the office compiled MHHWL. Reference the Masters and manuscript sections of the text for more complete information and recommendations. The MLLHL was compiled where possible by hydrographic survey operations and is not discussed in this report. For further information on survey operations, DESCRIPTIVE REPORTS, H-9666 and H-9667 should be consulted.

TP-00777; 1:10,000

Field edit for this manuscript was begun and completed on December 2, 1976. The central region of this manuscript, bounded by the following: North, Lat. 34° 10' 30" N, South, Lat. 34° 08' 00" N, East, Lon. 119° 11' 30" W, and West, Lon. 119° 14' 00" W is the area covered by manuscript TP-00778, scale 1:5000. Field edit is complete and thorough for TP-00777.

All investigations for non-floating aids to navigation and landmarks for charts have been completed for this manuscript. One landmark is being submitted for charting purposes. Refer to the Master Field Edit Sheet, "Separates Following the Text," Form 76-40, and Horizontal Control Report OPR-411-RA-76 for further information. Questions, discrepancies, and notes to the field editor have been completely answered with proper cross-referencing.

Along the entire shoreline of this manuscript, the MHHWL shows a general shift seaward of from 10 to 40 feet over the previously compiled MHHWL. Several measurements were made from photogrammetrically recoverable points to the field compiled MHHWL. In all other cases the MHHWL is believed by the field editor to be the interface between the light and dark sand-along the shore. This interface is photogrammetrically identifiable. It is recommended that the field compiled MHHWL be accepted for charting purposes.
The seaward extending arms of two canals are located at the following positions:

34° 08' 22" N x 119° 11' 15" W
34° 08' 12" N x 119° 10' 54" W

Their seaward extension is less than that compiled due to drying or flow decrease in the canals. The revised delineation is noted on the Master and is recommended for charting.

The investigations of the charted sewer line and pipe lines at the following positions: 34° 08' 06" N x 119° 10' 55" W and 34° 07' 45" N x 119° 10' 25" W is complete. Nothing was discovered after inspection from both land and sea. The recommendation is that they be deleted.

Marshlands cover the area landward of the sand and gravel shoreline between the easternmost north-south canal and the complex containing the Ormond Beach Stacks which are being submitted as landmarks. The marshes appear to be drying or to be in the process of being drained. Onshore from the marshlands are irrigated fields that are being farmed.

The well compiled just southwest of the Ormond Beach Stacks is in actuality a holding pond with earthen banks forming a levee-like structure around the perimeter. There is a second pond with similar levee-like earthen buildup due west of the filled one. It is recommended that they both be compiled for charting purposes as noted on the Master Field Edit Sheet.

TP-0077B

Shoreline verification for this manuscript began at the NW entrance to Port Hueneme Harbor, Lat. 34° 08' 45" N, Lon. 119° 12' 40" W, and progressed clockwise around Port Hueneme Harbor. This was followed by an investigation of Channel Islands Harbor, commencing at Channel Islands Harbor South Jetty Light and continuing counterclockwise to Channel Islands Harbor North Jetty Light. Field work then continued on the beach south of Port Hueneme Harbor. Upon completion of this portion, the investigation then moved north to the north end of Oxnard Beach, at Lat. 34° 10' 15" N, Lon. 119° 14' 00" W and work progressed southeastward to the jetty. The offshore breakwater was examined. Field edit is complete and thorough for TP-0077B.

All non-floating aids to navigation and landmarks for charts have been thoroughly researched and discussed. Questions, discrepancies, and notes to the field editor have been completely answered. Refer to Master Field Edit Sheet, Form 76-40, and Horizontal Control Report: OPR-411-RA-76 for further information.

In the west fork of Channel Islands Harbor, Lat. 34° 10' 25" N, Lon. 119° 13' 35" W, eight piers, forming four groups of two's have been
constructed. These piers are similar to piers already shown to be in existence, Lat. 34° 10' 15" N, Lon. 119° 13' 35" W. These piers were located by visually comparing photographs with structures present in the field.

Dredging has taken place in the east fork of Channel Islands Harbor, at Lat. 34° 10' 20" N, Lon. 119° 13' 20" W. The shoreline was delineated by taking three-point sextant fixes (positions 16-21 in Field Edit Sounding Volume) using geodetic, photogrammetric, and hydrographic signals for control. Geographic positions were computed by using RK-300, UTILITY COMPUTATION PACKAGE, refer to "Separates Following the Text" for further information. A small cement boat ramp has been constructed in this newly dredged area.

Additional piers have been constructed on the east side of Channel Islands Harbor, Lat. 34° 10' 05" N, Lon. 119° 13' 20" W. Three mobile boat cranes (cranes having four wheels that enable them to ride along the top of specially constructed piers and pick up small boats using a sling) exist in this area. Reference the Master for further information. It is recommended that they be charted.

Two sandy shoal areas exist along the north jetty of Channel Islands Harbor. The northeast shoal has a white spar buoy with "shoal" in orange printed on it. For further information see DESCRIPTIVE REPORT, H-9666, OPR-411-76.

The surf zone along the beaches in the Port Hueneme and Channel Islands Harbor area has been affected by dredging in the area. This zone has moved inshore along all these beaches.

The width and length of the breakwater offshore of Channel Islands Harbor was determined with respect to the aids to navigation present. One end of a steel tape was attached to the aid to navigation and measurements were made to the tip of the breakwater from a Boston Whaler that moved along the water's edge. See page thirteen of Field Edit Sounding Volume for these actual measurements.

The wreck charted between Channel Islands Harbor and the breakwater was, according to the Channel Islands Harbor Patrol, removed four years ago. RAINIER recommends removal of the wreck from chart. Refer to the Master Field Edit Sheet for further information.

A wreck at Port Hueneme West Jetty Light 3 has been covered with sand and riprap placed around the sand. Thus the wreck now forms a beach area. There is no visible sign of the wreck and it is no danger to navigation. The recommendation is for removal of the wreck from chart.

A tall structural tower of landmark value, inshore of Silver Strand Beach, Lat. 34° 09' 13.182" N, Lon. 119° 12' 56.352" W was located
using photo-location methods. The tower height, approximately 120 feet, was determined by visual observation (refer to "Separates," Form 76-40).

The large steel frame tower alongside wharf 4, in Port Hueneme, Lat. 34° 09' 07.841" N, Lon. 119° 12' 35.589" W, is of excellent landmark value. Adjacent to this large tower is a smaller steel frame tower, estimated to be seventy feet high. This smaller tower is not of landmark value (refer to "Separates," Form 76-40).

Rotten wood bulkheads exist at the north end of Port Hueneme, Lat. 34° 09' 10" N, Lon. 119° 12' 35" W. Many rusted bolts and nails extend from the wood. This wharf is a poor facility for mooring.

The pier faces of Wharves 1, 3, and 4 are approximately 15 feet high. They are constructed of wood and cement pilings.

The pipeline shown to be present on the beach south of Port Hueneme (refer to Master Field Edit Sheet) does not exist. This pipe was probably a part of dredging operations that were taking place at the time the photographs were taken. The recommendation is for removal of this feature from the manuscript.

Six small picnic areas each comprised of three rectangular groups of picnic tables are located in the vicinity of Lat. 34° 08' 35" N, Lon. 119° 11' 45" W. The ruins refered to on the Master Field Edit Sheet may have been the supplies necessary for construction of these Picnic areas. It is recommended that the picnic areas be charted.

TP-00779

Field Edit for this manuscript was begun and completed during November, 1976. Work was highly sectionalized due to the frequent inaccessability of the shoreline on the Pt. Mugu Pacific Missile Test Center. Field edit is complete and thorough for TP-00779.

All investigation for non-floating aids to navigation and landmarks for charts have been completed. One fixed aid and twelve landmarks are being submitted for charting purposes. Reference the Master Field Edit Sheet,"Separates Following the Text", Form 76-40, and Horizontal Control Report; OPR-411-RA-76 for further information. Questions, discrepancies, and notes to the field editor have been completely answered with proper cross-referencing.

Along the majority of the sand and gravel shoreline of this manuscript the MHHL shows a general shift seaward over the previously compiled MHHL. In several cases the MHHL is the seaward edge of the rock and riprap breakwater that comprises sections of the shoreline along the eastern portion of the Pt. Mugu Pacific Missile Test Center. In all other cases, the MHHL is believed by the field editor to be the interface between the light and dark sand along the shore. This interface
is photogrammetrically identifiable. The MHML on either side of the entrance to Mugu Lagoon shows a more pronounced seaward extent than that previously compiled. The maximum distance across the Lagoon opening at high tide is approximately 90 feet. It recommended that the field compiled MHML be accepted for charting purposes.

The location of the Aero Beacon requiring investigation is not in the vicinity of the shoreline as is noted on the manuscript. The beacon's actual location is further inshore, on a building complex near the airfield. Refer to the Master Field Edit Sheet and "Separates," Form 76-40 for further information.

The entire base area, which covers 90% of this manuscript is covered with marsh and scrub lands. The missile complexes, tracking facilities, and other installations are located throughout the marsh and brushlands on concrete and gravel pads that have been built up for these facilities. Descriptive notes pertaining to the marshland features and their boundaries have been made on the Master Field Edit Sheet and corresponding cronapaque photographs. Refer to them for more complete information.

The object located off the western tip of the entrance to Mugu Lagoon is the ribbing of a small wreck. It was positioned by two fixes during hydrographic survey operations. Refer to DESCRIPTIVE REPORT H-9667 for further information. The recommendation is that it be charted as described in the previously mentioned report.

The entrance to Mugu Lagoon is shallow and dangerous due to shifting sand bars and heavy surf off the mouth. Transit should be attempted only at high tide and with low surf. The lagoon itself shows little change though some drying of the surrounding marshes was noted during field edit. Small boats can be operated within the lagoon. The lagoon should be charted as compiled on the manuscript.

**TP-00780; 1:10,000**

Field edit for this manuscript was begun in early November, 1976 and completed by early December, 1976. Work began at the southeast manuscript limit and progressed northwest to the junction with TP-00779. Field edit is complete and thorough for TP-00780.

All investigations for non-floating aids to navigation and landmarks for charts have been completed for this manuscript. Seven landmarks are being submitted for charting purposes. Refer to the Master Field Edit Sheet, "Separates Following the Text", Form 76-40, and Horizontal Control Report; OPR-411-RA-76 for further information. Questions, discrepancies, and notes to the field editor have been completely answered with proper cross referencing.

The extent of Mugu Lagoon on this manuscript shows little variation
from that previously compiled. There is some drying of the surrounding marshlands but it is not extensive. The recommendation is that the lagoon be charted as previously compiled.

The region centered around the following position: $34^\circ 05' 30''$ N, $119^\circ 04' 00''$ W is the rifle range for the Pt. Mugu Pacific Missile Test Center. The region seaward of the cement backstop with sand buildup is dangerous due to the possibility of stray bullets. Seaward of the quonset hut that serves as the headquarters is a large sign that reads "DANGER LIVE FIRE". This sign is visible from the nearby waters, and it is recommended that it be charted for completeness.

The rock ledge shoreline compiled from Pt. Mugu east around a small cove to the next point in actuality exists only around Pt. Mugu.

East of this point the shoreline is characterized by smaller rocks, sand, and gravel. There are numerous rocks baring, awash, and submerged off each point. All is noted on the Master Field Edit Sheet and referenced to the appropriate cronapaque photographs. Refer to them for more complete information.

The massive sand buildup, centered at the following position; $34^\circ 04.5' N \times 119^\circ 01.2' W$, exists and is visually prominent from seaward. Its area is too large to give one precise geographic position. The term "SLIDE" used on the office compiled manuscript does not seem to be correct in describing the actual physical setting. The sand buildup appears to be caused by the depositing of the sand against the rock outcrops and bluff behind and above, by winds from off the ocean. It is recommended that this feature be charted as compiled on the final manuscript, and that the name of the feature be changed to "PROMINENT SAND DUNE".

The small building-like structure located at position; $34^\circ 04' 19''$ N $\times 119^\circ 00' 49''$ W is in actuality an abandoned bridge. It is partially overgrown with scrub growth and run over a now dried creek bed that appears to be used as a hiking trail. This area on both sides of the Pacific Coast Highway is a park complex. Five permanent buildings are noted on the manuscript and are recommended for charting, along with the previously mentioned features noted on the Master Field Edit Sheet.

Two submerged rocks are compiled at the following positions:

- $34^\circ 04' 15'' N \times 119^\circ 01' 00'' W$
- $34^\circ 04' 02'' N \times 119^\circ 00' 37'' W$

Neither of the rocks were visible on the photographs nor were they seen upon inspection of their surroundings from shore. This region is out of the area for RAINIER hydrographic survey operations as defined by PROJECT INSTRUCTIONS; OPR-411-RA-76. Information on soundings and possible dangers to navigation in this area should be contained in the
records for survey operations by the NOAA Ship FAIRWEATHER, FA-10-5-76, H-9600, OPR-411-FA-76. It is recommended that their records be consulted.

Photo Identified Signals

As an integral part of field edit operations for JOB CM-7404, Manuscript TP-00778, scale 1:5000, signals for hydrographic survey operations were identified and photogrammetrically located. The area covered encompasses Port Hueneme and Channel Islands Harbor, the area covered by hydrographic survey RA-5-3-76, H-9666, OPR-411-RA-76. A separate photo signal film ozalid for manuscript TP-00778 is being submitted as a part of the field edit data package. Annotated by every signal on the ozalid are the corresponding number on the Master Station List and the photograph number for each ray used in positioning. Photographs were chosen to provide the best possible intersection for at least 3 positioning rays for every signal. Field computations for each photo identified signal are contained in the PHOTO SIGNAL COMPUTATIONS section of the "Separates Following the Text". Information is included such as: The meters forward and backward that were scaled, conversion to seconds, forward and backward latitude and longitude computations, and the final geographic position computation taken from the mean of the forward and backward positions. The photo Signal Film Ozalid plus Photo Signal Computations contains all necessary information for the verification of photogrammetrically located signals. Reference the "Separates," Master Station List and Photo Signal Computations for further information.

Additional Information

RAINIER personnel obtained numerous geographic positions and geodetic information in order to expand the control networks for hydrographic survey operations and for location of fixed aids to navigation and objects of landmark value from the following source:

PT. MUGU PACIFIC MISSILE TEST CENTER
GEOPHYSICS BRANCH
GEODESY GROUP
c/o MR. WARREN KLEMZ

Employees of this group have had previous experience in, and/or dealings with, the National Geodetic Survey, and all geodetic position information supplied by them meets or exceeds N.O.S., N.G.S. Third Order, Class I standards for accuracy. It is recommended that all geodetic information obtained from PT. MUGU, PNTC, GEOPHYSICS BRANCH, GEODESY GROUP that was used to assist and supplement RAINIER Horizontal Control operations be accepted as conforming to N.O.S. standards. Further, it is recommended that all non-floating aids to navigation and landmarks for charts positioned by information obtained from this group be accepted for charting purposes. Refer to HORIZONTAL CONTROL REPORT; OPR-411-RA-76 for further information.
Recommendations

Various recommendations are contained in previous sections of the text. No further recommendations deemed necessary.

Respectfully Submitted,

John C. Osborn Jr.

John C. Osborn Jr.
LTG, NOAA
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**Channel Islands Harbor**

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<td>(Port Hueneme Municipal water Tank, 1960) Ht=100ft.</td>
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<td>(Port Hueneme NCBC Water Tank #374, 1960) Ht=120ft.</td>
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<td>Port Hueneme Skeleton Tower Ht=120ft.</td>
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REVIEW REPORT

TP-00778

SHORELINE

March 12, 1979

61. GENERAL STATEMENT:

See Summary, page 6 of this Descriptive Report.

The "paper field ozalid" referred to by the field editor on the "Master Film Field Edit Ozalid" was not available during final review.

The mean high water line south of Channel Islands Harbor, was delineated from measurements supplied by the field editor. Changes to the mean high water line recommended by the field editor north of Channel Island Harbor were not made. In that area the field editor attempted to identify the mean high water line on the tide coordinated infrared ratios taken at mean lower low water. He failed to legitimize his recommendations with measurements. The mean high water line in that area was delineated from the tide coordinated infrared photography and is correct as of the date of photography.

The wreck at Port Hueneme West Jetty was removed from the map during field edit application. It was redelineated during final review as part of the mean high water line. See paragraph 64.

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-9666 (RA-5-3-76). The shoreline at Port Hueneme West Jetty was revised during final review to include the large wreck which is visible on the photography above the mean high water and was covered with sand at the time of field edit. The Marine Surveys Division was notified of this change by letter. See copy: attached.
65. **COMPARISON WITH NAUTICAL CHARTS:**

Comparison was made with Chart 18725, 16th edition dated December 10, 1977, 1:50,000 scale, 1:10,000 scale inset.

Piles and ruins charted at lat. 34°09.2', long. 119°12.6' and an unlabeled dash line charted at lat. 34°08.5', long. 119°11.7' are not visible on the photography and were not located by the field editor.

66. **ADEQUACY OF RESULTS AND FUTURE SURVEYS:**

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

Submitted by:

A. L. Shands
Final Reviewer

Approved for forwarding:

Albert C. Rambow, Jr.
Chief, Photogrammetric Branch, AMC

Approved:

John D. Armour, Jr.
Chief, Photogrammetric Branch

James Allison
Chief, Coastal Mapping Division
March 19, 1979

To: CDR Patrick
Chief, Marine Surveys Division

A. L. Shands
Final Reviewer AMC

Subject: Change made to Class I map during Final Review (TP-00778, CM-7404)

The shoreline at Port Hueneme West Jetty was revised to include the large wreck visible on the photographs above the mean high water and covered with sand during the time of field edit. This change effects Smooth Sheet H-9666.
PROJECT CM-7404 MATERIALS ON FILE

FEDERAL RECORDS CENTER

Control Station Identification Cards
Field Edit Photographs
Bridging Photographs
Job Completion Report

BUREAU ARCHIVES

Registered Copy of Each Map
Descriptive Report of Each Map

GEODESY

Geodetic Records

MARINE CHART DIVISION

Chart Maintenance Print for Each Map
Forms 76-40

OFFICE OF GEOGRAPHER

Geographic Names Standards

REPRODUCTION DIVISION

Film Copy of Each Map
**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.

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*FORM C&GS-8332 SUPERSEDES ALL EDITIONS OF FORM C&GS-975.*