DESCRIPTIVE REPORT

TP-00922      1

Job No.
C6-7509

Map Classification
FINAL FIELD EDITED MAP

Type of Survey
SHORELINE

LOCALITY

State
CALIFORNIA

General Locality
PORT HUENEHE TO POINT CONCEPTION

Locality
SANTA BARBARA POINT

1975 TO 1978

REGISTRY IN ARCHIVES

DATE

NOAA FORM 76-35
(3-76)
U.S. DEPARTMENT OF COMMERCE
NATIONAL OCEANIC AND ATMOSPHERIC ADMINISTRATION
NATIONAL OCEAN SURVEY

*U.S. GOVERNMENT PRINTING OFFICE: 1976-669-248
# DESCRIPTIVE REPORT - DATA RECORD

**Photogrammetric Office**

Coastal Mapping Unit-Norfolk, VA

**Officer-in-Charge**

Jeffrey G. Carlen, CDR

## I. INSTRUCTIONS DATED

<table>
<thead>
<tr>
<th>OFFICE</th>
<th>FIELD</th>
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<tbody>
<tr>
<td>Aerotriangulation: June 9, 1976</td>
<td>Premarking: Aug. 11, 1975</td>
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<tr>
<td>Amendment I: July 21, 1976</td>
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<tr>
<td>Amendment II: Oct. 29, 1976</td>
<td></td>
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<tr>
<td>Review and Registration Memo: July 10, 1980</td>
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<td>Review and Registration Memo: Oct. 24, 1983</td>
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## II. DATUMS

<table>
<thead>
<tr>
<th>1. HORIZONTAL:</th>
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<tr>
<td>1:1927 NORTH AMERICAN</td>
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<table>
<thead>
<tr>
<th>2. VERTICAL:</th>
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<tbody>
<tr>
<td>MEAN HIGH-WATER</td>
<td></td>
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<tr>
<td>MEAN LOW-WATER</td>
<td></td>
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<tr>
<td>MEAN LOWER LOW-WATER</td>
<td></td>
</tr>
<tr>
<td>MEAN SEA LEVEL</td>
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<table>
<thead>
<tr>
<th>3. MAP PROJECTION</th>
<th>4. GRID(S)</th>
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<tbody>
<tr>
<td>Lambert Conformal Conic</td>
<td>STATE: California</td>
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<tr>
<td></td>
<td>ZONE: 5</td>
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<table>
<thead>
<tr>
<th>5. SCALE</th>
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</tr>
</thead>
<tbody>
<tr>
<td>1:20,000</td>
<td></td>
</tr>
</tbody>
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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>S. Solbeck</td>
<td>June 1976</td>
</tr>
<tr>
<td>METHOD</td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

| 2. CONTROL AND BRIDGE POINTS | PLOTTED BY | H. Jones | July 1976 |
| METHOD | CHECKED BY | H. Jones | July 1976 |

| 3. STEREOSCOPIC INSTRUMENT COMPILATION | PLANIMETRY BY | L. O. Neterer, Jr. | Nov. 1976 |
| INSTRUMENT | CHECKED BY | A. C. Rauck | Nov. 1976 |
| SCALE | N.A. | N.A. | |

| 4. MANUSCRIPT DELINEATION | PLANIMETRY BY | T. K. Perkinson | Dec. 1976 |
| METHOD | CHECKED BY | F. Margiotta | March 1977 |
| SCALE | N.A. | N.A. | |

| 5. OFFICE INSPECTION PRIOR TO FIELD EDIT | PLOTTED BY | I. K. Perkinson | Dec. 1976 |
| METHOD | CHECKED BY | F. Margiotta | March 1977 |
| SCALE | N.A. | N.A. | |

| 6. APPLICATION OF FIELD EDIT DATA | PLOTTED BY | D. Butler | Aug. 1978 |
| METHOD | CHECKED BY | F. Margiotta | Aug. 1978 |
| SCALE | N.A. | N.A. | |

| 7. COMPIILATION SECTION REVIEW | PLOTTED BY | J. Hancock | Nov. 1983 |
| METHOD | CHECKED BY | F. Margiotta | Aug. 1978 |
| SCALE | N.A. | N.A. | |

| 8. FINAL REVIEW | FINAL MAP | J. Hancock | Nov. 1983 |
| METHOD | CHECKED BY | G. Fromm | Jan. 1984 |
| SCALE | N.A. | N.A. | |

| 9. DATA FORWARDED TO PHOTOGRAMMETRIC BRANCH | BY | J. Hancock | Nov. 1983 |
| METHOD | CHECKED BY | G. Fromm | Jan. 1984 |
| SCALE | N.A. | N.A. | |

| 10. DATA EXAMINED IN PHOTOGRAMMETRIC BRANCH | BY | J. Hancock | Nov. 1983 |
| METHOD | CHECKED BY | G. Fromm | Jan. 1984 |
| SCALE | N.A. | N.A. | |

| 11. MAP REGISTERED - COASTAL SURVEY SECTION | BY | J. Hancock | Nov. 1983 |
| METHOD | CHECKED BY | G. Fromm | Jan. 1984 |
| SCALE | N.A. | N.A. | |
### 1. Compilation Photography

<table>
<thead>
<tr>
<th>Camera(s)</th>
<th>Types of Photography</th>
<th>Time Reference</th>
<th>Tide Stage Reference</th>
<th>Zone</th>
<th>Meridian</th>
<th>Daylight</th>
</tr>
</thead>
<tbody>
<tr>
<td>B=152.74mm, E=152.71mm</td>
<td>Color, Panchromatic, Infrared</td>
<td>Pacific</td>
<td>Predicted Tides</td>
<td>120th</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Wild RC-10&quot;B&quot;, RC-8&quot;E&quot;</td>
<td></td>
<td></td>
<td>Reference Station Records</td>
<td></td>
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#### Number and Type

<table>
<thead>
<tr>
<th>Number and Type</th>
<th>Date</th>
<th>Time</th>
<th>Scale</th>
<th>Stage of Tide</th>
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</thead>
<tbody>
<tr>
<td>76B (C)2254-2259#</td>
<td>Mar 12, 1976</td>
<td>09:35</td>
<td>1:30,000</td>
<td>2.8 ft. above M.L.L.W.</td>
</tr>
<tr>
<td>75E (I)1997 - 2001*</td>
<td>Oct. 7, 1975</td>
<td>12:30</td>
<td>1:30,000</td>
<td>#0.2 ft. of M.H.W.</td>
</tr>
<tr>
<td>76B (I)2654 - 2658**</td>
<td>Mar 14, 1976</td>
<td>13:03</td>
<td>1:30,000</td>
<td>#0.2 ft. of M.L.L.W.</td>
</tr>
</tbody>
</table>

**Remarks**
- #Bridge and compilation photography, based on predicted tides.
- *Tide coordinated infrared hydro support photography, at M.H.W.
- **Tide coordinated infrared hydro support photography, at M.L.L.W.

#### Source of Mean High-Water Line:

*The M.H.W. line was compiled graphically from the above listed tide coordinated infrared photography.*

Ratio value for photos 1997 - 2001 = 1.476.

#### Source of Mean Low-Water or Mean Lower Low-Water Line:

**The M.L.L.W. line was compiled graphically from the above listed tide coordinated infrared photography.**

Ratio value for photos 2653 - 2658 = 1.502.

### 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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</table>

### 5. Final Junctions

<table>
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<tr>
<th>North</th>
<th>East</th>
<th>South</th>
<th>West</th>
</tr>
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<tbody>
<tr>
<td>No survey</td>
<td>TP-00923</td>
<td>TP-00867 (1:5,000 inset)</td>
<td>No survey</td>
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**Remarks**
## HISTORY OF FIELD OPERATIONS

### 1. FIELD INSPECTION OPERATION (Premarking) □ FIELD EDIT OPERATION

<table>
<thead>
<tr>
<th>Operation</th>
<th>Name</th>
<th>Date</th>
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</thead>
<tbody>
<tr>
<td>1. CHIEF OF FIELD PARTY</td>
<td>R. Melby</td>
<td>Sept. 1975</td>
</tr>
<tr>
<td></td>
<td></td>
<td>March 1976</td>
</tr>
<tr>
<td>2. HORIZONTAL CONTROL</td>
<td>R. Melby</td>
<td>1975</td>
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<tr>
<td></td>
<td>R. Melby</td>
<td>1976</td>
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<td>3. VERTICAL CONTROL</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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<tr>
<td>5. GEOGRAPHIC NAMES</td>
<td></td>
<td>None</td>
</tr>
<tr>
<td>6. PHOTO INSPECTION</td>
<td></td>
<td>None</td>
</tr>
<tr>
<td>7. BOUNDARIES AND LIMITS</td>
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<td>N.A.</td>
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### II. SOURCE DATA

<table>
<thead>
<tr>
<th>Photo Number</th>
<th>Station Name</th>
<th>Date</th>
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<tbody>
<tr>
<td>75Z(C)7819</td>
<td>DUNCAN R.M. 1, 1964 (SUB PT, 1975)</td>
<td></td>
</tr>
<tr>
<td>76B(C)2256</td>
<td>DUNCAN R.M. 1, 1964 (DIRECT, 1976)</td>
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### 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

None

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

1 Form 152, 1 Form 76-53, 2 C&S Forms 277 (tide levels books) for project
**HISTORY OF FIELD OPERATIONS**

<table>
<thead>
<tr>
<th>OPERATION</th>
<th>NAME</th>
<th>DATE</th>
</tr>
</thead>
<tbody>
<tr>
<td>CHIEF OF FIELD PARTY</td>
<td>B. I. Williams</td>
<td>March 1978</td>
</tr>
<tr>
<td>HORIZONTAL CONTROL</td>
<td>R. E. Crowell, M.S. Finke</td>
<td>March 1978</td>
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<tr>
<td>VERTICAL CONTROL</td>
<td>None</td>
<td>None</td>
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<tr>
<td>LANDMARKS AND AIDS TO NAVIGATION</td>
<td>R. E. Crowell</td>
<td>March 1978</td>
</tr>
<tr>
<td>GEOGRAPHIC NAMES INVESTIGATION</td>
<td>None</td>
<td>None</td>
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<td>PHOTO INSPECTION</td>
<td>None</td>
<td>None</td>
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<tr>
<td>BOUNDARIES AND LIMITS</td>
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**SOURCE DATA**

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<tr>
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<table>
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<th>STATION NAME</th>
<th>PHOTO NUMBER</th>
<th>STATION DESIGNATION</th>
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<th>OBJECT NAME</th>
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<table>
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<tr>
<th>GEOGRAPHIC NAMES:</th>
<th>REPORT</th>
<th>NONE</th>
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<tbody>
<tr>
<td>BOUNDARY AND LIMITS:</td>
<td>REPORT</td>
<td>NONE</td>
</tr>
</tbody>
</table>

**SUPPLEMENTAL MAPS AND PLANS**

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

Field Edit Print (film)
Field Edit Report: 2 forms 76-40
### Record of Survey Use

**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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<tbody>
<tr>
<td>Compilation complete, pending field edit</td>
<td>March 1977</td>
<td>Class III manuscript SUPERSEDED</td>
<td>July 1977</td>
<td>July 1977</td>
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</table>

**II. Landmarks and Aids to Navigation**

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

<table>
<thead>
<tr>
<th>Pages</th>
<th>Chart Letter Number Assigned</th>
<th>Date Forwarded</th>
<th>Remarks</th>
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<tr>
<td>3</td>
<td></td>
<td>Sept. 1978</td>
<td>Landmarks and Aids for charts.</td>
</tr>
<tr>
<td></td>
<td></td>
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<td></td>
</tr>
<tr>
<td>3</td>
<td></td>
<td></td>
<td>Landmarks and Aids for charts.</td>
</tr>
</tbody>
</table>

2. □ Report to Marine Chart Division, Coast Pilot Branch. Date Forwarded:

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-4 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: March 1984

**IV. Survey Editions** (This section shall be completed each time a new map edition is registered)

<table>
<thead>
<tr>
<th>Second Edition</th>
<th>Survey Number</th>
<th>Job Number</th>
<th>Type of Survey</th>
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<tr>
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<td>II.</td>
<td>III.</td>
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<th>Job Number</th>
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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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<td>II.</td>
<td>III.</td>
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<th>Job Number</th>
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<th>Map Class</th>
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<tr>
<td>Date of Photography</td>
<td>Date of Field Edit</td>
<td></td>
<td>II.</td>
<td>III.</td>
</tr>
</tbody>
</table>

NOAA Form 76-36D
SUMMARY TO ACCOMPANY DESCRIPTIVE REPORT

TP-00922

This 1:20,000 scale final shoreline map is one of ten maps that comprise project CM-7509, Port Hueneme to Point Conception, California. The project consists of seven 1:20,000 scale maps (TP-00918 thru TP-00924), two 1:10,000 scale maps (TP-00925 and TP-00926), and one 1:5,000 scale inset map (TP-00867).

The purpose of this project was to furnish shoreline support data for hydrographic operations and to provide current charting information for nautical chart maintenance.

This final field edited map portrays a portion of shoreline along the California Coast from Santa Barbara Point to just east of Goleta Point. Also designated are the limits of the inset map (TP-00867) displaying Santa Barbara Harbor.

Field work prior to compilation was accomplished in October 1975 and March 1976. This involved the establishment of horizontal control by premarking methods in order to meet aerotriangulation requirements. In addition, ground support was provided to assist in obtaining MHW and MLLW tide coordinated photography.

Photo coverage for the project was adequately provided by natural color and tide coordinated black and white photography. The bridging/compilation photographs consisted of 7 flight strips taken at scales of 1:15,000, 1:30,000 and 1:60,000 with natural color film. Four strips were taken with the "Z" camera in October 1975 and three strips were taken with the "B" camera in March 1976. Tide coordinated MHW infrared photographs were taken in October 1975 with the "E" camera and in March 1976 with the "B" camera. Tide coordinated MLLW infrared photographs were taken in March 1976 with the "B" camera. All tide coordinated photography was taken at 1:15,000 and 1:30,000 scales.

Analytic aerotriangulation was adequately provided by the Washington Science Center in June 1976. Aerotriangulation activity also included ruling the base manuscripts and determining ratio values necessary for graphic compilation.

Compilation, based upon photo interpretation, was performed by the Coastal Mapping Section at the Atlantic Marine Center in March 1977. Class III data was forwarded to the Pacific Marine Center for proposed field edit and hydrographic activity.

Field edit was performed in conjunction with hydrographic survey H-9752 in March 1978 by personnel aboard the NOAA Ship FAIRWEATHER. Application of field edit was accomplished in August 1978 at the Atlantic Marine Center.
Final review was performed at the Atlantic Marine Center in November 1983. A Chart Maintenance Print was prepared and forwarded to the Marine Chart Branch. Also, a Notes to Hydrographer Print was prepared for proposed Hydrographic activity which will include a major portion of this map.

This Descriptive Report contains all pertinent information used to compile this Final shoreline map. The original base manuscript and all pertinent data were forwarded to the Washington Science Center for final registration.
FIELD INSPECTION

TP-00922

There was no field inspection prior to compilation. Field work accomplished was limited to the recovery and identification (premarking) of the horizontal control necessary for the aerotriangulation of the project.
21. Area Covered

The area covered by this report is the southern California shoreline from Point Conception to the norther part of Port Hueneme. This area is covered by seven 1:20,000 scale sheets (TP-00918 through TP-00924), two 1:10,000 scale sheets (TP-00925 and TP-00926), and one 1:5,000 scale sheet (TP-00867).

22. Method

Seven strips of color photography (one 1:60,000, five 1:30,000, one 1:15,000) were bridged by analytic aerotriangulation methods.

Common points were located on the bridging photography and all photography being used for ratio purposes. Tie points were used on all bridging photography to ensure adequate junctioning during the strip adjustment. Ratio prints were ordered. The T-sheet manuscripts were plotted on the Coradomat.

23. Adequacy of Control

The control proved adequate except one station, (RATA, 1975) which had an excessive error in the "X" direction and could not be rectified. With all other control being good, the station was dropped from the adjustment.

One strip of bridging photography (752(C)7858 through 7865) proved difficult to measure due to poor overlap and excessive swing in the flight line.

24. Supplemental Data

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

25. Photography

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

Respectfully submitted,

[Signature]

Approved and forwarded:

[Signature]
John D. Perrow, Jr.
Chief, Aerotriangulation Section
Pt. Hueneme to Pt. Conception
CM-7509
August 1976

Supplement to Photogrammetric Plot Report

The final strip of CM-7509 was tied into Job CM-7604 well within National Map Accuracy Standards. The final manuscript (TP-00918) was plotted on the coradomat and forwarded. All ratio prints pertaining to this manuscript have been ordered.
FORT NUISTEME TO POINT CONCEPTION, CALIF

AEROTRIANGULATION SKETCH

MLTW INFRARED PHOTOGRAPHY
BLACK AND WHITE
76B(R) • 1:30000
□ 1:15000
# List of Accuracy of Control Use in the Strip Adjustment

<table>
<thead>
<tr>
<th>Strip #1</th>
<th>x.error (ft)</th>
<th>y.error (ft)</th>
</tr>
</thead>
<tbody>
<tr>
<td>899101</td>
<td>+0.001</td>
<td>-0.001</td>
</tr>
<tr>
<td>901100</td>
<td>-0.000</td>
<td>+0.001</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Strip #2</th>
<th>x.error (ft)</th>
<th>y.error (ft)</th>
</tr>
</thead>
<tbody>
<tr>
<td>900801</td>
<td>+0.059</td>
<td>-0.154</td>
</tr>
<tr>
<td>900802</td>
<td>+0.932</td>
<td>-1.286</td>
</tr>
<tr>
<td>900803</td>
<td>-0.020</td>
<td>-1.005</td>
</tr>
<tr>
<td>901100</td>
<td>+0.069</td>
<td>+0.300</td>
</tr>
<tr>
<td>914100</td>
<td>-0.434</td>
<td>+1.064</td>
</tr>
<tr>
<td>918100</td>
<td>+0.622</td>
<td>-0.887</td>
</tr>
<tr>
<td>922101</td>
<td>-2.220</td>
<td>+1.400</td>
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<table>
<thead>
<tr>
<th>Strip #3</th>
<th>x.error (ft)</th>
<th>y.error (ft)</th>
</tr>
</thead>
<tbody>
<tr>
<td>921801</td>
<td>-1.380</td>
<td>+0.647</td>
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<tr>
<td>921802</td>
<td>-0.611</td>
<td>-0.902</td>
</tr>
<tr>
<td>922101</td>
<td>+1.056</td>
<td>+1.589</td>
</tr>
<tr>
<td>251100</td>
<td>-1.891</td>
<td>-2.649</td>
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<td>477110</td>
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<td>254110</td>
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<td>255110</td>
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<td>+2.020</td>
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(All coordinates are in feet, x and y errors are given in feet.)
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<td>130</td>
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<td>SAINT FRANCIS HOSPITAL CONCRETE STACK, 1927</td>
<td>341193 Page 1114</td>
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<td>1836.5 12.3</td>
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</tbody>
</table>

COMPUTED BY: A. C. Rauck, Jr.  
LISTED BY: A. C. Rauck, Jr.  
HAND PLOTTING BY: Coradomat  
COMPUTATION CHECKED BY: Lowell O. Neterer, Jr.  
LISTING CHECKED BY: Lowell O. Neterer, Jr.  
HAND PLOTTING CHECKED BY: J. D. Roderick  

SUPERSEDES NOAA FORM 76-41, 2-71 EDITION WHICH IS OBSOLETE.
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<th>STATION NAME</th>
<th>SOURCE OF INFORMATION (Index)</th>
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<th>COORDINATES IN FEET</th>
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<td>φ 34°26'17.978&quot;</td>
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COMPUTED BY DATE | COMPUTATION CHECKED BY DATE
LISTED BY DATE | LISTING CHECKED BY DATE
HAN D PLOTTING BY DATE | HAN D PLOTTING CHECKED BY DATE
COMPILATION REPORT
TP-00922

31 - DELINEATION

Delineation was accomplished using stereo instrument and graphic compilation methods. The 1:30,000 scale color photography was set on the Wild B-8 stereoplotter. The interior details and alongshore features were delineated at this time. Points common to the 1:30,000 infrared ratios were selected and positioned to allow the graphic compilation of the mean high and mean lower low water lines.

All photographs used to compile this map were adequate and are listed on NOAA form 76-36B.

32 - CONTROLS

Horizontal control was adequate. Refer to the attached Photogrammetric Plot Report, dated June 1976.

33 - SUPPLEMENTAL DATA

A comparison was made with T.S. 4858, H.S. 5464, H.S. 5502, dated 1933 for the purpose of calling attention of the hydrographer items to be investigated.

34 - CONTOURS AND DRAINAGE

Contours are not applicable to the project. Drainage was delineated by the Wild B-8 stereoplotter and by office interpretation of the photographs.

35 - SHORELINE AND ALONGSHORE DETAILS

Alongshore details were delineated by the Wild B-8 stereoplotter and by office interpretation of the photographs.

The mean high and mean lower low water line was graphically delineated from the infrared ratio photographs.

36 - OFFSHORE DETAILS

Rocks and a sewage pipeline were delineated by the stereoplotter. Offshore Kelp limits were delineated from the mean lower low water infrared ratios.
37 - LANDMARKS AND AIDS

Within the limits of the manuscript, there were four charted landmarks and one charted aid. All features have geodetic positions and were verified from the photographs.

38 - CONTROL FOR FUTURE SURVEYS

None.

39 - JUNCTIONS

Refer to the Data Record Form 76-368, item Number 5 of the Descriptive Report.

40 - HORIZONTAL AND VERTICAL ACCURACY

See Item Number 32.

46 - COMPARISON WITH EXISTING MAPS

A comparison has been made with the following U. S. Geological Survey Quadrangles: Goleta, CA., scale 1:24,000, dated 1950, photo revised 1967. Santa Barbara, CA., scale 1:24,000, dated 1952, photo revised 1967.

47 - COMPARISON WITH NAUTICAL CHARTS

A comparison has been made with the following National Ocean Survey charts: No. 18720, scale 1:232,188, dated September 6, 1975, 18th edition; No. 18725, scale 1:50,000, dated November 1, 1975, 14th edition; No. 18721, scale 1:10,000, dated October 25, 1975, 4th edition.

ITEMS TO BE APPLIED TO NAUTICAL CHARTS IMMEDIATELY

None.

ITEMS TO BE CARRIED FORWARD

None.

Approved,

[Signature]

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

Submitted by,

[Signature]

Irene K. Parkinson
Cartographic Technician
Date: December 1976
FIELD EDIT

Field edit was accomplished in March 1978 in conjunction with the hydrographic survey assigned to NOAA Ship FAIRWEATHER.

Many alongshore rocks were located by raydist electronic positioning methods and were submitted as field edit data. This hydrographic data was compiled on the shoreline map with reservations because verification could not be obtained.

A position for the offshore end of the submerged outfall at Goleta Pier was submitted without proper documentation. However, a faint line which appears on the MLLW infrared photograph agrees with the alignment from shore as it extends seaward.
Field Edit Report  
Santa Barbara Channel, California  
L-100-FA-78

GENERAL

This report covers topographic manuscripts TP-00867, TP-00922 and TP-00923. With the exception of the relocation of two landmarks, field work is complete on all manuscripts.

The beach area is generally sandy but with rock and stones predominating in many areas. Much of the shoreline is backed by dirt bluffs of varying heights. Offshore rocks are sparsely scattered and generally close inshore. The entrance to the Santa Barbara marina is dredged frequently due to continual shoaling. Shoreline in the immediate area of the entrance is subject to considerable change.

METHOD

Field edit was performed by LTJG Robert Crowell and ENS Mark Finke during the month of March, 1978. Work was done from shore, from skiffs and from hydrographic launches. Copies of the field edit ozalids and photographs were examined in the field to verify general features and some details. Work was performed at various tidal stages, with special effort at low tide to locate as many offshore rocks as possible.

A total of 57 fixes were taken along 19.3 nautical miles of shoreline to locate objects of interest or possible danger to navigation. Raydist electronic positioning equipment was used to control most fixes. The systems were calibrated before and after work each day. Sextant fixes utilized objects shown on the ozalids. Some positions were determined by taping distances from objects shown on the ozalids or identifiable on the photographs. Information on signals used is included in the data volume or appended to this report.

No check fixes were taken when locating the offshore rocks due to a general lack of visible signals on shore. The bluffs blocked visibility in any direction except along the beach.

The positions of sewer outfalls and underwater pipelines and cables were determined from information obtained from the responsible organizations. This information is recorded in the data volume.

ADEQUACY OF COMPILATION

Office compilation of the manuscripts was satisfactory.
LANDMARKS

The geographic positions of SAINT ANTHONYS SEMINARY, CROSS ON DOME, 1927 and SANTA BARBARA MISSION SOUTH TOWER, 1862 were not determined. Neither is of landmark value and both should be deleted from the chart.

The spire of the Santa Barbara Fox Theater is no longer lighted and is of little landmark value. It should also be deleted from the chart.
<table>
<thead>
<tr>
<th>Number</th>
<th>Geographic position</th>
<th>Description</th>
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</thead>
</table>
| 87-18  | 34° 23' 40.5"  
119° 42' 23.6" | Rock awash |
| 87-19  | 34° 23' 39.7"  
119° 42' 27.7" | Rock awash |
| 87-20  | 34° 23' 40.3"  
119° 42' 38.8" | Rock bares 1 ft |
| 87-21  | 34° 23' 39.2"  
119° 42' 39.8" | Rock subm 4 ft |
| 87-22  | 34° 23' 42.9"  
119° 42' 57.3" | Rock bares 1 ft |
| 87-23  | 34° 23' 40.0"  
119° 43' 14.6" | Rock subm 4 ft |
| 87-24  | 34° 23' 24.1"  
119° 43' 41.2" | Rock bares 2 ft |
| 87-25  | 34° 23' 41.9"  
119° 43' 31.0" | Rock bares 1 ft |
| 87-26  | 34° 23' 42.2"  
119° 43' 37.4" | Rock bares 3 ft |
| 87-27  | 34° 23' 41.9"  
119° 43' 39.8" | Rock bares 5 ft |
| 87-28  | reject             |             |
| 87-29  | 34° 23' 47.6"  
119° 43' 54.3" | Rock bares 1 ft |
| 87-30  | 34° 23' 53.1"  
119° 44' 08.0" | Rock bares 2 ft |
| 87-31  | 34° 24' 08.7"  
119° 44' 54.1" | Rock awash |
| 87-32  | 34° 24' 08.9"  
119° 44' 54.8" | Rock bares 3 ft |
| 87-33  | 34° 24' 07.3"  
119° 45' 03.1" | Rock bares 2 ft |
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<td>34° 24' 21.3&quot;, 119° 45' 34.1&quot;</td>
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<td>87-36</td>
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<td>Rock awash</td>
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<td>87-48</td>
<td>34° 24' 55.2&quot;, 119° 48' 21.8&quot;</td>
<td>Piling on beach, 1 ft high</td>
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<td>87-49</td>
<td>34° 25' 00.8&quot;, 119° 48' 54.7&quot;</td>
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<td>34° 25' 00.6&quot;, 119° 49' 00.6&quot;</td>
<td>Piling on beach, 1 ft high</td>
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MANUSCRIPT ACCURACY

Comparison of the shoreline and the positions of stations near the beach revealed that little change has occurred since the time of the photographs. However, considerable bluff erosion, with accompanying changes in the shoreline, has occurred in the past and will continue.

RECOMMENDATIONS

It is recommended that the manuscripts be revised as indicated on the master field edit ozalids.

INDIVIDUAL MANUSCRIPTS

Details specific to each manuscript are dealt with in the following individual reports.

Submitted by

Robert B Crowell
LTJG, NOAA

Approved by

Bruce I. Williams
Commanding Officer
NOAA Ship Fairweather
61. **GENERAL STATEMENTS**

Refer to the Summary included in this Descriptive Report.

62. **COMPARISON WITH REGISTERED TOPOGRAPHIC SURVEYS**

Not applicable.

63. **COMPARISON WITH MAPS OF OTHER AGENCIES**

A comparison was made with the following 1:24,000 scale U.S.G.S. Quadrangles: Goleta, CA., 1950, photorevised 1967; Santa Barbara, CA., 1952, photorevised 1967.

64. **COMPARISON WITH CONTEMPORARY HYDROGRAPHIC SURVEYS**

A comparison was made with hydrographic survey H-9752, verified July 1979, 1:20,000 scale. This survey is common only to the eastern portion of the map beginning at Longitude 119° 42.8'.

Contemporary (1978) hydrographic activity was accomplished for a portion of the shoreline common to this mapping project. The hydrographic surveys began at Longitude 119° 42.8' and extended easterly along the shoreline which captures only the eastern half of this coastal project, beginning at Santa Barbara Point (TP-00922 and inset map TP-00867). Hydrographic development along the western shoreline has been proposed to resume in 1984.

65. **COMPARISON WITH NAUTICAL CHARTS**

A comparison was made with the following NOS charts: 18725, 1:150,000 scale, 19th edition, dated July 10, 1982; and 18721, 1:10,000 scale, 7th edition, dated January 30, 1982.

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

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

Submitted by,

Jerry L. Hancock
Final Reviewer

Approved for forwarding:

Billy H. Barnes
Chief, Photogrammetric Section, AMC

Approved,

Chief, Photogrammetric Section, Rockville

Chief, Photogrammetry Branch
GEOGRAPHIC NAMES

FINAL NAME SHEET

CM-7509 (Point Hueneme to Point Conception, California)

TP-00922

Arroyo Burro
Atascadero Creek
Hope Ranch
Pacific Ocean
Santa Barbara
Santa Barbara Channel
Santa Barbara Point

November 23, 1983

Approved by:

Charles E. Harrington
Chief Geographer
Nautical Charting Division
The following objects **HAVE** been inspected from seaward to determine their value as landmarks.

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<tr>
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<th>LONGITUDE</th>
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<td>119 49'03.612&quot;</td>
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<td>237.6</td>
<td>92.2</td>
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<td>R. TOWER</td>
<td>(KTMS, South Radio Tower, 1938)</td>
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<td>122.0</td>
<td>134.5</td>
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**DATE:** Aug. 1978

**LOCALITY:** Port Hueneme to Point Conception

**STATE:** California

**REPORTING UNIT:** Coastal Mapping Unit, AMC, Norfolk, VA

**JOB NUMBER:** CM-7509

**SURVEY NUMBER:** TP-00922

**DATUM:** N.A. 1927

**METHOD AND DATE OF LOCATION**

- **Office:** Triang. Rec.
- **Field:** March 1978
- **Chart Affected:** 18720

- **Office:** Triang. Rec.
- **Field:** March 1976
- **Chart Affected:** 18720
By photogrammetric methods, or in part, by plane control established, field positions are determined by field operator.

Example:

Position verified visually on photograph.

Example: V-L-75

Enter V-L-75, and date.

Example: T-B-75

Receiv., with date of recovery.

Example: V-8-75

A. Field position determined by field worker.

1. Field position entered in field work.

2. Traverse

3. Intersection

4. Reduction

5. Field established

6. Theodolite

7. Planimeter

8. Sextant

B. Photogrammetric field positions require

1. New position determined or verified

Example: 7E (c) 6042

Office: Identifying and locating the object.

Day, and year of the photograph used to enter the number and date (including month).

Field (cont'd)

In instructions for entries under method and date of location.

Form completed by quality control and review group.

Originator

Responsibility personal

Name

Type of action

Activity

Field activity representative

Office activity representative

Other(s) (specify)

Hazardous party

Photo field party

Rev. (rev)

Form completed by quality control and review group.

Activities and review group.

Form completed by quality control and review group.

Field positions determined and verified.

Objects inspected from shoreline.

For work performed under quality control.

Name

Rev (rev)
**NONFLOATING AIDS OR LANDMARKS FOR CHARTS**

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<thead>
<tr>
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<th>DESCRIPTION</th>
<th>LATITUDE</th>
<th>LONGITUDE</th>
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<td>34° 23'</td>
<td>143° 43'</td>
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<tr>
<td></td>
<td></td>
<td>46.726°</td>
<td>17.888°</td>
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**DATE:** Aug. 1978

**METHOD AND DATE OF LOCATION**

- **OFFICE:** 76B(C) 2255, Mar. 12, 1976
- **FIELD:** V-Vis, March 1978

**CHARTS AFFECTED:**

- **Chart:** 18721
- **Chart:** 18725
By photogrammetric methods.

EXAMPLE: 8-12-75

Example: V-V, and date.

111. Position verified visually on photograph.

EXAMPLE: 8-12-75

Example: V-V, and date.

agulation station is recovered, enter Triang.

When a landmark or aid which is also a tri.

11. Triangulation station recovered

EXAMPLE: 74L (C) 2982

EXAMPLE: 8-12-75

B. Photogrammetric field positions require

EXAMPLE: 75L (C) 6042

office identified and located objects used to

inference data by symbols as follows:

Field

Office

Field representative

Instructions for entries under method and date of location.

Activities

and final review

Forms organized by quality control

Office Activity Representative

Field Activity Representative

Other (specify)

Geodetic Party

Hydrographic Party

Photo Field Party

Organizational

Responsible Person

NAME

TYPE OF ACTION

F. Loring

F. Loring
**NOAA FORM 76-40**

**REPORTING UNIT**
Coastal Mapping Unit, AMC, Norfolk, VA

**LOCALITY**
Port Hueneme to Point Conception

**DATE**
Aug. 1978

**DATUM**
N.A. 1927

**METHOD AND DATE OF LOCATION**
Triang. Rec. March 1978

<table>
<thead>
<tr>
<th>CHARTING NAME</th>
<th>DESCRIPTION</th>
<th>LATITUDE</th>
<th>LONGITUDE</th>
<th>OFFICE</th>
<th>FIELD</th>
</tr>
</thead>
<tbody>
<tr>
<td>LIGHTED SPIRE</td>
<td>(Santa Barbara Fox Theatre, Spire, 1933) Not of landmark value</td>
<td>34 25 849.2</td>
<td>27,560 119 42</td>
<td>20,564 525.1</td>
<td>768(C) 2254 Mar. 12, 1976</td>
</tr>
<tr>
<td>SEMINARY SPIRE</td>
<td>(Saint Anthony's Seminary Cross on Dome, 1927) Not of landmark value</td>
<td>34 36 671.2</td>
<td>21,782 119 42</td>
<td>52,905 1350.7</td>
<td>768(C) 2254 Mar. 12, 1978</td>
</tr>
</tbody>
</table>

**TO BE CHARTED**
☑

**TO BE REVISED**
☐

**TO BE DELETED**
☒
By photogrammetric methods.

Photogrammetric field positions are determined by field observation. Field position is determined by field observer.

Example:


Example: V-12.

111. Position Verified Visually on Photograph.

Example: V-12.

Example: V-12.

1. New position determined or verified.

Example: 75E (6042).

Instructions for Entries Under Method and Date of Location:

Activity: Field Activity Representative

Office: Field Activity Representative

Other: (Specify)

Geodetic Party

Hydrographic Party

Photo Field Party

Type of Action

J. Mullins (6042)

M. Mullins (6042)

J. Horgan (6042)

M. Horgan (6042)

Form organized by Quality Control and Review Group.

Quality Control and Review Group.

Form organized by quality control.

Objects inspected from Stanford.

Objections Inspected.

Field determined and located objects.

Office identified and located the object.

Date and year of the photograph used to determine the number and date (including month).

Names of objects determined and objects identified.
# Nautical Chart Division

**Record of Application to Charts**

*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.

<table>
<thead>
<tr>
<th>Chart</th>
<th>Date</th>
<th>Cartographer</th>
<th>Remarks</th>
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