U. S. DEPARTMENT OF COMMERCE
COAST AND GEODETIC SURVEY

DESCRIPTIVE REPORT

Type of Survey SHORELINE (PHOTOGRAHMETRIC)

Field No. P.L.O.11 Office No. T-11893

LOCALITY

State CALIFORNIA

General locality SAN DIEGO

Locality TIA JUANA RIVER

1960 - 19643

CHIEF OF PARTY
FRED NATELLA, CHIEF, OF PARTY
P. A. STARK, PHOTOGRAHMETRIC OFFICE

LIBRARY & ARCHIVES

DATE
## DESCRIPTIVE REPORT - DATA RECORD

### T - 11893

<table>
<thead>
<tr>
<th>PROJECT NO. (III):</th>
<th>21033</th>
</tr>
</thead>
<tbody>
<tr>
<td>FIELD OFFICE (III):</td>
<td>Oceanside, California</td>
</tr>
<tr>
<td>CHIEF OF PARTY</td>
<td>Fred Natella</td>
</tr>
<tr>
<td>PHOTOGRAMMETRIC OFFICE (III):</td>
<td>Portland, Oregon</td>
</tr>
<tr>
<td>OFFICER-IN-CHARGE</td>
<td>P. A. Stark</td>
</tr>
</tbody>
</table>

### INSTRUCTIONS DATED (III) (III):
- December 20, 1960
- Amendment 1, August 31, 1961
- Amendment 1, April 25, 1963
- Amendment 2, October 1, 1963

### METHOD OF COMPILATION (III):
- Kelsh Instrument

### MANUSCRIPT SCALE (III):
- 1:10,000

### STEREOSCOPIC PLOTTING INSTRUMENT SCALE (III):
- 1:6000

### PANTOGRAPH SCALE:
- 1:10,000

### DATE RECEIVED IN WASHINGTON OFFICE (IV):

### DATE REPORTED TO NAUTICAL CHART BRANCH (IV):

### APPLIED TO CHART NO.:

### DATE:

### DATE REGISTERED (IV):

### GEOGRAPHIC DATUM (III):
- N.A. 1927

### VERTICAL DATUM (III):
- Mean Sea Level except as follows:
  - Elevations shown as (23) refer to mean high water
  - Elevations shown as (3) refer to sounding datum
    i.e., mean low water or mean lower low water

### REFERENCE STATION (III):
- Waste, 1933

### LAT.:
- $32^\circ 33' 36.683''$

### LONG.:
- $117^\circ 07' 50.044''$

### X ADJUSTED

### PLANE COORDINATES (IV):
- $y = 144, 327.65$
- $x = 1,728,667.72$

### STATE:
- California

### ZONE:
- 6

Roman numerals indicate whether the item is to be entered by (III) field party, (III) photogrammetric office, or (IV) Washington office.

When entering names of personnel on this record give the surname and initials, not initials only.
## Descriptive Report - Data Record

**Field Inspection by (iii):**

R. B. Melby

**Date:**

Oct. 1962 to April 1963

**Mean High Water Location (iii) (State Date and Method of Location):**

Field Inspection March 1963

Compilation by Kelsh Instrument.

### Projection and Grids Ruled by (iv):

- **A. Roundtree**
  - **Date:** 5-3-63

### Projection and Grids Checked by (iv):

- **L. F. Beugnet**
  - **Date:** 5-3-63

### Control Plotted by (iii):

- **D. N. Williams**
  - **Date:** 7-23-64

### Control Checked by (iii):

- **J. L. Harris**
  - **Date:** 7-23-64

### Radial Plot or Stereoscopic Control Extension by (iii):

- **H. P. Eichert**
  - **Date:** June 1964

### Stereoscopic Instrument Compilation (iii):

<table>
<thead>
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<th>Planimetry</th>
<th>Date</th>
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<td>L. L. Graves</td>
<td>8-27-64</td>
</tr>
<tr>
<td>Contours</td>
<td></td>
</tr>
</tbody>
</table>

### Manuscript Delineated by (iii):

- **Date:**

### Scribing by (iii):

- **R. H. Meyer**
  - **Date:** 10-15-64

### Stick-Up:

- **C. C. Harris**
  - **Date:** 11-16-64

### Photogrammetric Office Review by (iii):

- **Rough Draft:** R. H. Meyer
  - **Date:** 9-11-64

- **Advance:** R. H. Meyer
  - **Date:** 12-11-64

**Remarks:**
## DESCRIPTIVE REPORT - DATA RECORD

### PHOTOGRAPHS (III)

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<tr>
<th>NUMBER</th>
<th>DATE</th>
<th>TIME</th>
<th>SCALE</th>
<th>STAGE OF TIDE</th>
</tr>
</thead>
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<tr>
<td>60 S 714A THRU 716A</td>
<td>9-3-60</td>
<td>09:20</td>
<td>1:30,000</td>
<td>4.7' ABOVE M.L.L.W.</td>
</tr>
<tr>
<td>721A THRU 723A</td>
<td>&quot;</td>
<td>09:30</td>
<td>1:20,000</td>
<td>&quot;</td>
</tr>
<tr>
<td>RATIO PRINTS OF ABOVE AT 1:10,000</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
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</table>

### TIDE (III)

| REFERENCE STATION: San Diego, California | 4.2 | 5.8 |

### SUBORDINATE STATION:

<table>
<thead>
<tr>
<th>DATE:</th>
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</thead>
</table>

### WASHINGTON OFFICE REVIEW BY (IV):

<table>
<thead>
<tr>
<th>DATE:</th>
</tr>
</thead>
</table>

### PROOF EDIT BY (IV):

<table>
<thead>
<tr>
<th>DATE:</th>
</tr>
</thead>
</table>

### NUMBER OF TRIANGULATION STATIONS SEARCHED FOR (III):

| 11 | RECOVERED: 7 | IDENTIFIED: 2 |

### NUMBER OF BM(5) SEARCHED FOR (III):

| None | RECOVERED: | IDENTIFIED |

### NUMBER OF RECOVERABLE PHOTO STATIONS ESTABLISHED (III):

| 1 |

### NUMBER OF TEMPORARY PHOTO HYDRO STATIONS ESTABLISHED (III):

| None |

### REMARKS:

|       |
FIELD INSPECTION REPORT

Map Manuscript T-11893

Project 21033

Refer to the Field Inspection Report by Robert B. Melby for T-11879 thru T-11893 dated October 1962 to April 1963 included with the Descriptive Report for T-11879.
PHOTOGRAVMETRIC PLOT REPORT

Map Manuscript T-11893

Project 21033

Refer to the Photogrammetric Plot Report by Henry P. Eichert, dated June 1964, included with the Descriptive Report for T-11879.
COMPILATION REPORT
Map Manuscript T-11893
Project 21033

31. Compilation:
Planimetry was compiled by use of the Kelsh Instrument.

32. Control:
Refer to the Compilation Report for T-11879.

33. Supplementary Data:
None.

34. Contours and Drainage:
Refer to the Compilation Report for T-11883.

35. Shoreline and Alongshore Details:
The mean high water line was compiled as field inspected. A long steel pile near the mouth of Tia Juana River was located by direction and distance from station WASTE, 1933.

36. Offshore Details:
None.

37. Landmarks and Aids:
One landmark is shown on this manuscript and is recommended for charting. Form 587 is submitted.

38. Control for Future Surveys:
None.
39. **Junctions:**

Satisfactory junction was made with T-11892 to the north. There is no contemporary survey to the east and the Pacific Ocean is to the west. The southern boundary of the United States is the limits of compilation of this map.

40. **Horizontal and Vertical Accuracy:**

46. **Comparison with Existing Maps:**

Comparison was made with the U.S.G.S. 7½ minute San Ysidro, California quadrangle, scale 1:24,000, edition 1953.

47. **Comparison with Nautical Charts:**

Comparison was made with Nautical Chart 5101, scale 1:234,270 at Lat. 33° 20', 6th edition, revised 9-24-62.

Submitted: [Signature]

Approved: [Signature]

James L. Harris
Cartographer

Leo T. Burgard
P. A. Stark, CDR, C&GS
Portland Field Officer
<table>
<thead>
<tr>
<th>STATION</th>
<th>SOURCE OF INFORMATION (INDEX)</th>
<th>DATUM</th>
<th>LATITUDE OR Y COORDINATE</th>
<th>LONGITUDE OR X COORDINATE</th>
<th>DISTANCE FROM GRID OR PROJECTION LINE IN METERS (1 FT. = 3048006 meter)</th>
</tr>
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<tbody>
<tr>
<td>RAYMEX, 1959</td>
<td>Vol. XVI</td>
<td>N.A.</td>
<td></td>
<td>135,444.67</td>
<td>1,731,187.17</td>
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<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
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<tr>
<td>BAJA, 1933</td>
<td>Zone 6</td>
<td>1927</td>
<td></td>
<td>137,471.86</td>
<td>1,739,041.80</td>
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<td></td>
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<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>U.S.N. TORPEDO RANGE, 10,000 YARD MARK, 1934</td>
<td>P.C. 102</td>
<td>&quot;</td>
<td></td>
<td>139,118.34'</td>
<td>1,730,536.62</td>
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<tr>
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<td>P.C. 29</td>
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<td>135,458.05</td>
<td>1,737,033.41</td>
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<tr>
<td>U.S.N. TORPEDO RANGE, 12,000 YARD MARK, 1934</td>
<td>P.C. 102</td>
<td>&quot;</td>
<td></td>
<td>135,527.79</td>
<td>1,731,459.19</td>
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<tr>
<td>WASTEL, 1933</td>
<td>P.C. 22</td>
<td>&quot;</td>
<td></td>
<td>144,327.65</td>
<td>1,728,667.72</td>
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<tr>
<td>BOUNDARY MONUMENT NO. 258, 1892</td>
<td>P. 240</td>
<td>&quot;</td>
<td></td>
<td>134,919.91</td>
<td>1,731,259.67</td>
</tr>
</tbody>
</table>

COMPUTED BY: C.H.B.  
DATE: 7-6-64  
CHECKED BY: L.L.G.  
DATE: 7-22-64
48. Geographic Name List:

The geographic names shown on this manuscript are listed below. These names were furnished by the Washington Office on a final name sheet, a copy of the U.S.G.S. 7\(\frac{1}{2}\) minute San Ysidro, California quadrangle.

Pacific Ocean
Tia Juana River

Names approved
8-3-65
A. J. Wright
49. **Notes for the Hydrographer:**

None.
# Photogrammetric Office Review

**T-12623 11/83**

1. **Projection and Grids**

2. **Title**

3. **Manuscript Numbers**

4. **Manuscript Size**

### Control Stations

5. **Horizontal Control Stations of Third-Order or Higher Accuracy**

6. **Recoverable Horizontal Stations of Less Than Third-Order Accuracy (Topographic stations)**

7. **Photo Hydro Stations**

   - None

8. **Bench Marks**

9. **Plotting of Sextant Fixes**

10. **Photogrammetric Plot Report**

11. **Detail Points**

   - None

### Alongshore Areas (Nautical Chart Data)

12. **Shoreline**

13. **Low-Water Line**

   - None

14. **Rocks, Shoals, Etc.**

15. **Bridges**

   - None

16. **Aids to Navigation**

17. **Landmarks**

18. **Other Alongshore Physical Features**

19. **Other Alongshore Cultural Features**

### Physical Features

20. **Water Features**

21. **Natural Ground Cover**

22. **Planetary Contours**

23. **Stereoscopic Instrument Contours**

   - None

24. **Contours in General**

25. **Spot Elevations**

26. **Other Physical Features**

### Cultural Features

27. **Roads**

28. **Buildings**

29. **Railroads**

30. **Other Cultural Features**

### Boundaries

31. **Boundary Lines**

32. **Public Land Lines**

   - None

### Miscellaneous

33. **Geographic Names**

34. **Junctions**

35. **Legibility of the Manuscript**

36. **Discrepancy Overlay**

37. **Descriptive Report**

38. **Field Inspection Photographs**

39. **Forms**

### Reviewer

**Richard H. Meyer**

**Supervisor, Review Section or Unit**

### Remarks (See attached sheet)

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

- Additions and corrections furnished by the field completion survey have been applied to the manuscript. The manuscript is now complete except as noted under item 43.

**Compiler**

**Supervisor**

### Remarks

- 43. Remarks
I recommend that the following objects which have been inspected from seaward to determine their value as landmarks be charted on the charts indicated.

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

<table>
<thead>
<tr>
<th>STATE</th>
<th>CALIFORNIA</th>
</tr>
</thead>
<tbody>
<tr>
<td>CHARTING NAME</td>
<td>DESCRIPTION</td>
</tr>
<tr>
<td>BOUNDARY</td>
<td>Marble shaft ht - 14'(51')</td>
</tr>
<tr>
<td>MONUMENT</td>
<td>(BOUNDARY MON:258, 1892)</td>
</tr>
</tbody>
</table>

This form shall be prepared in accordance with Hydrographic Manual, Publication 20.2, Sec. 1-55, 2-39, 6-36, 7-18 to 22 inclusive, and Fig. 79. Positions of charted landmarks and nonfloating aids to navigation, if redetermined, shall be reported on this form. Revisions shall show both the old and new positions. The data should be considered for the charts of the area and not by individual field survey sheets. Information under each column heading should be given.

* TABULATE SECONDS AND METERS
61. General Statement

Area - The project encompasses the California Coast from Dana Point to Mexico.

Purpose - The purpose of this project is to provide shoreline maps for our nautical and aeronautical charting program.

62. Comparison with Registered Topographic Maps

<table>
<thead>
<tr>
<th></th>
<th>Scale</th>
<th>Year</th>
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</thead>
<tbody>
<tr>
<td>T-5371</td>
<td>1:10,000</td>
<td>1934</td>
</tr>
<tr>
<td>T-5372</td>
<td>1:10,000</td>
<td>1934</td>
</tr>
<tr>
<td>T-5373</td>
<td>1:10,000</td>
<td>1934</td>
</tr>
<tr>
<td>T-5374</td>
<td>1:10,000</td>
<td>1934</td>
</tr>
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</table>

Cultural and shoreline changes have been continuous with extensive changes in the urban areas.

63. Comparison with Maps of Other Agencies

<table>
<thead>
<tr>
<th></th>
<th>Scale</th>
<th>Year</th>
</tr>
</thead>
<tbody>
<tr>
<td>San Ysidro</td>
<td>1:24,000</td>
<td>1953</td>
</tr>
<tr>
<td>National City</td>
<td>1:24,000</td>
<td>1953</td>
</tr>
<tr>
<td>Point Loma</td>
<td>1:24,000</td>
<td>1953</td>
</tr>
</tbody>
</table>

Considering the time interval the maps are in comparatively close agreement.

64. Comparison with Contemporary Hydrographic Surveys

None

65. Comparison with Nautical Charts

<table>
<thead>
<tr>
<th></th>
<th>Scale</th>
<th>Date</th>
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<tbody>
<tr>
<td>5101</td>
<td>1:234,270</td>
<td>April 1965</td>
</tr>
<tr>
<td>5105</td>
<td>1:12,000</td>
<td>1962</td>
</tr>
<tr>
<td>5107</td>
<td>1:20,000</td>
<td>1964</td>
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</tbody>
</table>

There are differences in the San Diego harbor area, otherwise they are in comparatively good agreement.
66. **Adequacy of Results and Future Surveys**

These surveys were prepared according to project instructions, and comply with the National Standards of Map Accuracy.

Reviewed by:

[Signature]

L. C. Lands

Approved by:

[Signature]

Charles Benn

Chief, Photogrammetric Branch

[Signature]

L. T. Woodcock

Chief, Photogrammetry Division

Chief, Nautical Chart 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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<td></td>
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<td>Full Part Before After Verification Review Inspection Signed Via Drawing No.</td>
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