
U. S. DEPARTMENT OF COMMERCE
COAST AND GEODETIC SURVEY

DESCRIPTIVE REPORT

Type of Survey SHORELINE (PHOTOGRAHMERIC)

Field No. P6 6011 Office No. T-11878

LOCALITY

State CALIFORNIA

General locality SAN DIEGO

Locality SUNSET CLIFFS

CHIEF OF PARTY

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

LIBRARY & ARCHIVES

DATE
DESCRIPTIVE REPORT - DATA RECORD
T - 11878

PROJECT NO. (III):
21033

FIELD OFFICE (III):
OCEANSIDE, CALIFORNIA

CHIEF OF PARTY
Fred Natella

PHOTOGRAMMETRIC OFFICE (III):
PORTLAND, OREGON

OFFICER-IN-CHARGE
P. A. Stark

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

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 (2) 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):
RESERVE, 1933

LAT.: 32° 41' 31.847"

LONG.: 117° 15' 05.565"

X ADJUSTED

UNADJUSTED

PLANE COORDINATES (IV):
Y = 192,684.70
X = 1,691,852.71
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:** March - May 1962

**MEAN HIGH WATER LOCATION (III) (STATE DATE AND METHOD OF LOCATION):**

Field Inspection April 1962

**Compilation by Kelsh Instrument**

**PROJECTION AND GRIDS RULED BY (IV):**

A. Roundtree  
**DATE:** 5-2-63

**PROJECTION AND GRIDS CHECKED BY (IV):**

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

**CONTROL PLOTTED BY (III):**

D. N. Williams  
**DATE:** 5-24-63

**CONTROL CHECKED BY (III):**

R. H. Meyer  
**DATE:** 5-24-63

**RADIAL PLOT OR STEREOSCOPIC CONTROL EXTENSION BY (III):**

H. P. Eichert  
**DATE:** April 1963

**STEREOSCOPIC INSTRUMENT COMPILATION (III):**

**PLANIMETRY**

D. N. Williams  
**DATE:** 7-27-64

**CONTOURS**

**DATE:**

**MANUSCRIPT Delineated by (III):**

**DATE:**

**SCRIBING (III):**

Scribing - R. B. Melby  
**DATE:** 9-16-64

Stick-up - C. C. Harris  
**DATE:** 10-22-64

**PHOTOGRAMMETRIC OFFICE REVIEW BY (III):**

Rough Draft - J. L. Harris  
**DATE:** 8-4-64

Advance - C. C. Harris  
**DATE:** 9-18-64

**REMARKS:**
### Descriptive Report - Data Record

**Camera (Kind or Source) (III):**

**C&GS Type S**

#### Photographs (III)

<table>
<thead>
<tr>
<th>Number</th>
<th>Date</th>
<th>Time</th>
<th>Scale</th>
<th>Stage of Tide</th>
</tr>
</thead>
<tbody>
<tr>
<td>60 S 484A Thru 487A</td>
<td>9-2-60</td>
<td>10:00</td>
<td>1:30,000</td>
<td>2.9' Above M.L.L.W.</td>
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<td>60 S 476A Thru 479A</td>
<td>9-2-60</td>
<td>09:45</td>
<td>1:20,000</td>
<td>3.0' Above M.L.L.W.</td>
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<td>Ratio Prints of Above at 1:10,000</td>
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<tr>
<td>60 S 526A Thru 529A</td>
<td>9-2-60</td>
<td>11:58</td>
<td>1:10,000</td>
<td>1.8' Above M.L.L.W.</td>
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<td>Ratio Prints of Above at 1:5000</td>
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<td></td>
<td></td>
</tr>
<tr>
<td>60 S 601A and 602 A</td>
<td>9-2-60</td>
<td>11:43</td>
<td>1:30,000</td>
<td>1.8' Above M.L.L.W.</td>
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<tr>
<td>60 S 740A and 742A</td>
<td>9-3-60</td>
<td>10:00</td>
<td>1:38,000</td>
<td>4.0' Above M.L.L.W.</td>
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#### Tide (III)

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<tr>
<th>Reference Station:</th>
<th>San Diego, California</th>
<th>Ratio of Ranges</th>
<th>Mean Range</th>
<th>Spring Range</th>
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<tr>
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<td>4.2</td>
<td>5.3</td>
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<table>
<thead>
<tr>
<th>Subordinate Station:</th>
<th>Point Loma, California</th>
<th>Ratio of Ranges</th>
<th>Mean Range</th>
<th>Spring Range</th>
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<td>5.3</td>
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**Subordinate Station:**

**Washington Office Review by (IV):**

- **Date:**

**Proof Edit by (IV):**

- **Date:**

**Number of Triangulation Stations Searched For (III):**

- **Number Recovered:** 2
- **Number Identified:** 1

**Number of BM(5) Searched For (III):**

- **See Field Inspect Report**

**Number of Recoverable Photo Stations Established (III):**

- None

**Number of Temporary Photo Hydro Stations Established (III):**

- None

**Remarks:**

-
FIELD INSPECTION REPORT

Map Manuscript T-11878

Project 21033

PHOTOGRAMMETRIC PLOT REPORT NO. 1  
PH-6011  
Dana Point, Calif. To Mexican Border  
April 1963

21. Area Covered

This report covers that portion of the project from Dana Point to Point Loma for 1:10,000 shoreline surveys T-11864 thru T-11878.

22. Method

Four strips were bridged, Nos. 1 thru 4. Strip No. 1 was run with the Zeiss Stereoplanigraph (C-8). The remaining three were bridged and adjusted by the method of analytic seregtriangulation. Closures to control are indicated on the seregtriangulation sketch attached. Ties between strips were satisfactory. These were averaged and corrections were made to the IBM readouts.

23. Adequacy of Control

Horizontal control complies with project instructions and was adequate. The following control stations appearing in the bridge deserve special comment:

SAN DIEGO YACHT CLUB FLAGPOLE, 1933

Two substitute stations were established for this station (Strip No. 4). The bridging results indicated an error of approximately minus 95 feet in X and plus 65 feet in Y. Since the strip was well-controlled and the error so large, we concluded that there must be an error in position. The positions of the sub-points were rejected.

SAN DIEGO, U. S. NAVAL TRAINING STATION FLAGPOLE, 1933

The direct pricking for this station was used as a control in the adjustment. The comparison point, sub-point "A", checked poorly in the bridge (Strip No. 4). An evaluation of the point, at the time of drilling considered this point as indefinite. It should not be favored when the Kelsh models are set for compilation.

In addition to field-identified control, the following stations were office-identified and held well:
CARLSBAD, TWIN TOWNS, ROSECRANS ON PEDESTAL, 1933
OCEANVIEW, ROSECRANS BUILDING DOCK, FINAL, 1933
POINT LOMA, FT. ROSECRANS, WATER TANK, 1936

Bridging results comply with National Standards of Map Accuracy
for a scale of 1:10,000.

24. Supplemental Data

None

25. Photography

Photography was adequate with regard to coverage, overlap,
and definition.

Respectfully submitted:

Henry P. Bishart

Approved by:

Everett H. Ramsey, Chief
Aerotriangulation Section
COMPILATION REPORT

MAP MANUSCRIPT T-11878

PROJECT 21033

31. **DELINEATION:**

Planimetry was compiled by the use of the Kelsh instrument.

32. **CONTROL:**

Adequate supplementary control, based on identified horizontal control stations, was established by analytic aerotriangulation methods.

33. **SUPPLEMENTAL DATA:**

Master Plan, California Western University.

34. **CONTOURS AND DRAINAGE:**

Contours are not applicable.

No drainage was field inspected and none was evident from stereoscopic examination of the photography.

35. **SHORELINE AND ALONGSHORE DETAILS:**

The mean high water line was compiled as field inspected. No low water line was field inspected or delineated.

A rock ledge was delineated along most of the shoreline, in accordance with the approximate limits of this feature field inspected. Several rocks were identified with heights furnished for the time of inspection. These rocks were located with their heights adjusted to the datum of the manuscript.

36. **OFFSHORE DETAILS:**

None.

37. **LANDMARKS AND AIDS:**

None.
38. CONTROL FOR FUTURE SURVEYS:

   None.

39. JUNCTIONS:

   SATISFACTORY JUNCTIONS WERE MADE WITH T-11877 TO THE NORTH AND
   WITH T-11879 TO THE EAST. THE PACIFIC OCEAN IS TO THE SOUTH AND
   WEST.

40. HORIZONTAL AND VERTICAL ACCURACY:

46. COMPARISON WITH EXISTING MAPS:

   COMPARISON WAS MADE WITH THE U.S.G.S. 7 1/2 MINUTE POINT LOMA,
   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 OCT. 2, 1961, REVISED 9-24-62; WITH
   NAUTICAL CHART 5105, SCALE 1:12,000 AT LAT. 32° 42', 10TH EDITION FEB.
   12, 1962 REVISED 2-11-63; AND WITH NAUTICAL CHART 5107, SCALE 1:20,000
   AT LAT. 32° 40', 23RD EDITION NOV. 12, 1962.

APPROVED:

Leo F. Bergert

for P. A. Stark, CDR, CCGS
PORTLAND FIELD OFFICER.

SUBMITTED:

James L. Harris

Cartographer
<table>
<thead>
<tr>
<th>STATION</th>
<th>SOURCE OF INFORMATION</th>
<th>DATUM</th>
<th>LATITUDE OR Y COORDINATE</th>
<th>LONGITUDE OR X COORDINATE</th>
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<td>RESERVE, 1933</td>
<td>Pg. 23</td>
<td>N.A.</td>
<td>192,684.70</td>
<td>1,691,852.71</td>
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COMPUTED BY: R.H.M.&
DATE: 5-22-63
CHECKED BY: D.N.W.
DATE: 5-22-63
48. **Geographic Name List:**

The geographic names shown on this manuscript are listed below and were furnished by the Washington Office on a final name sheet, a copy of the U.S.G.S. Point Loma, California 7½ minute quadrangle, scale 1:24,000, edition 1953.

- Alligator Rock
- Azure Vista
- Ocean Beach
- Riviera Villas
- San Diego
- Sunset Cliffs (community)
- Sunset Cliffs (feature)

Names approved
8-3-65

A. J. Wanghett
49. Notes for the Hydrographer:

None.
# PHOTOGRAMMETRIC OFFICE REVIEW

## Control Stations

<table>
<thead>
<tr>
<th>5. Horizontal Control Stations of Third-Order or Higher Accuracy</th>
<th>6. Recoverable Horizontal Stations of Less Than Third-Order Accuracy (Topographic stations)</th>
<th>7. Photo Hydro Stations</th>
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<td>None</td>
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## Bench Marks

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## Alongshore Areas (Nautical Chart Data)

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## Aids to Navigation

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## Physical Features

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## Stereoscopic Instrument Contours

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## Cultural Features

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## Boundaries

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

<table>
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<tr>
<th>33. Geographic Names</th>
<th>34. Juncions</th>
<th>35. Legibility of the Manuscript</th>
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<tbody>
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## Discrepancy Overlay

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## Reviewer

<table>
<thead>
<tr>
<th>James L. Harris</th>
<th>Supervisor, Review Section or Unit</th>
</tr>
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## 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

<table>
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<tr>
<th>SUPERVISOR</th>
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## Remarks

<table>
<thead>
<tr>
<th>43. Remarks</th>
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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>
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<tr>
<th>T</th>
<th>Scale</th>
<th>Year</th>
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<td>T-5371</td>
<td>1:10,000</td>
<td>1934</td>
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<tr>
<td>T-5372</td>
<td>1:10,000</td>
<td>1934</td>
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<td>T-5373</td>
<td>1:10,000</td>
<td>1934</td>
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<tr>
<td>T-5374</td>
<td>1:10,000</td>
<td>1934</td>
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Cultural and shoreline changes have been continuous with extensive changes in the urban areas.

63. Comparison with Maps of Other Agencies

- San Ysidro: 1:24,000, 1953
- National City: 1:24,000, 1953
- Point Loma: 1:24,000, 1953

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

64. Comparison with Contemporary Hydrographic Surveys

None

65. Comparison with Nautical Charts

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<tr>
<th>Chart</th>
<th>Scale</th>
<th>Date</th>
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<tr>
<td>5101</td>
<td>1:234,270</td>
<td>April 1965</td>
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<tr>
<td>5105</td>
<td>1:12,000</td>
<td>1962</td>
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<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. Lande

Approved by:

[Signature]
Charles B. Truex
Chief, Photogrammetric Branch

[Signature]
T. L. Woodcock
Chief, Photogrammetry Division

[Signature]
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><strong>REMARKS</strong></th>
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