

11882(2)

11882(2)

NOAA FORM 76-35

U.S. DEPARTMENT OF COMMERCE
NATIONAL OCEANIC AND ATMOSPHERIC ADMINISTRATION
NATIONAL OCEAN SURVEY

DESCRIPTIVE REPORT

Type of Survey Shoreline (REVISION).....

Job No. PH-6702 Map No. T-11882(2)

Classification No. Edition No. ... 2

FIELD EDITED MAP

* See below

LOCALITY

State California

General Locality .. Pacific Ocean Coastline ..

Locality Silver Straud

~~1970 TO 1974~~

1966 TO 1972

REGISTRY IN ARCHIVES

DATE

★ U.S. GOVERNMENT PRINTING OFFICE: 1972-761-152

* MEAN HIGH WATER AND MEAN LOWER LOW WATER
LINES DELINEATED FROM OFFICE INTERPRETATION
OF THE PHOTOGRAPHY. SCOPE OF MAP REVISION
OUTLINED IN "SUMMARY".

TYPE OF SURVEY

SURVEY T-11882

DESCRIPTIVE REPORT - DATA RECORD

☐ ORIGINAL

MAP EDITION NO. (2)

☐ RESURVEY

MAP CLASS

☒ REVISED

JOB PH- 6702

PHOTOGRAMMETRIC OFFICE

Atlantic Marine Center

OFFICER-IN-CHARGE

Alfred C. Holmes - Director

LAST PRECEDING MAP EDITION

TYPE OF SURVEY

JOB PH- 6011

☒ ORIGINALMAP CLASS Field Edited☐ RESURVEY

SURVEY DATES:

☐ REVISED

1960 TO 19 63

I. INSTRUCTIONS DATED

1. OFFICE

Revision Compilation Aug 23/66
Revision Compilation Amend #1 Dec 8/66
Revision Compilation Amend #2 Feb 17/67
Revision Compilation Amend #3 Dec 7/67
Revision Compilation Amend #4 Aug 10/72

2. FIELD

FIELD EDIT, dated Sept. 2, 1969
FIELD - SUPP. 1, dated Feb. 25, 1972
FIELD EDIT INSTRUCTIONS INCLUDED
IN OPR (HYDRO) INSTRUCTIONS

II. DATUMS

1. HORIZONTAL:

☒ 1927 NORTH AMERICAN

OTHER (Specify)

2. VERTICAL:

☒ MEAN HIGH-WATER☐ MEAN LOW-WATER☒ MEAN LOWER LOW-WATER☐ MEAN SEA LEVEL

OTHER (Specify)

3. MAP PROJECTION

Polyconic

4. GRID(S)

STATE
CaliforniaZONE
6

5. SCALE

1:10,000

STATE

ZONE

III. HISTORY OF OFFICE OPERATIONS

| OPERATIONS | | NAME | DATE |
|---|---|--|--|
| 1. AEROTRIANGULATION METHOD: None | BY LANDMARKS AND AIDS BY | See Project Completion Report | Mar 1968 |
| 2. CONTROL AND BRIDGE POINTS METHOD: None | PLOTTED BY CHECKED BY | See Project Completion Report | Mar 1968 |
| 3. STEREOSCOPIC INSTRUMENT COMPILATION INSTRUMENT: None SCALE: | PLANIMETRY BY CHECKED BY CONTOURS BY CHECKED BY | N.A. N.A. N.A. N.A. | |
| 4. MANUSCRIPT DELINEATION METHOD: Graphic SCALE: 1:10,000 | PLANIMETRY BY CHECKED BY CONTOURS BY CHECKED BY HYDRO SUPPORT DATA BY CHECKED BY | K. Boyle R. Smith N.A. N.A. K. Boyle R. Smith | Dec 1966 Jan 1967 Dec 1966 Jan 1967 |
| 5. OFFICE INSPECTION PRIOR TO FIELD EDIT | BY | R. Smith | Jan 1967 |
| 6. APPLICATION OF FIELD EDIT DATA | BY CHECKED BY | S. Blood, K. Maki (2/68) R. White | Jul 1972 Aug 1972 |
| 7. COMPILATION SECTION REVIEW | BY | R. White | Aug 1972 |
| 8. FINAL REVIEW | BY | Bernard Kurs * | Oct 1974 |
| 9. DATA FORWARDED TO PHOTOGRAMMETRIC BRANCH | BY | | |
| 10. DATA EXAMINED IN PHOTOGRAMMETRIC BRANCH | BY | S. Blankenbaker | Apr. 1975 |
| 11. MAP REGISTERED - COASTAL SURVEY SECTION | BY | R. Cator | JUN 1975 |

COMPILATION SOURCES

1. COMPILATION PHOTOGRAPHY

| | | | | | |
|---|---------|---|----------|----------------------------------|---|
| CAMERA(S) Wild RC-8 "S" | | TYPES OF PHOTOGRAPHY LEGEND (C) COLOR X (P) PANCHROMATIC (I) INFRARED X | | TIME REFERENCE | |
| TIDE STAGE REFERENCE <input checked="" type="checkbox"/> PREDICTED TIDES (1966 PHOTOS) * <input type="checkbox"/> REFERENCE STATION RECORDS <input checked="" type="checkbox"/> TIDE CONTROLLED PHOTOGRAPHY SEE REMARKS 1972 PHOTOS | | | | ZONE 8th MERIDIAN 120th | <input checked="" type="checkbox"/> STANDARD <input type="checkbox"/> DAYLIGHT |
| NUMBER AND TYPE | DATE | TIME | SCALE | STAGE OF TIDE | |
| 66S-4734I - 4736I | 8/7/66 | 13:11 PST | 1:30,000 | 0.3 ft. below MHW | |
| 66S-4748I | 8/7/66 | 13:11 PST | 1:30,000 | 0.3 ft. below MHW | |
| 66S(C)4608A - 4611A | 8/7/66 | | 1:20,000 | | |
| 72-L-2855R - 60R | 3/24/72 | 13:53 PST | 1:20,000 | MLLW (+0.25 ft.) | |

REMARKS TIDE STATION FOR 1972 PHOTOGRAPHS - IMPERIAL BEACH, CALIF.
* 1966 PHOTOGRAPHS USED IN FIRST REVISION ACTIVITY (CLASS III MANUSCRIPT STAGE)

2. SOURCE OF MEAN HIGH-WATER LINE:

1972 Infrared Photography (listed above)

NOTE: LINE OFFICE INTERPRETED SUBSEQUENT TO FIELD EDIT.

3. SOURCE OF MEAN LOW-WATER OR MEAN LOWER LOW-WATER LINE:

1972 Infrared Photography (listed above)

NOTE: LINE OFFICE INTERPRETED SUBSEQUENT TO FIELD EDIT

4. CONTEMPORARY HYDROGRAPHIC SURVEYS (List only those surveys that are sources for photogrammetric survey information.)

| SURVEY NUMBER | DATE(S) | SURVEY COPY USED | SURVEY NUMBER | DATE(S) | SURVEY COPY USED |
|---------------|---------|------------------|---------------|---------|------------------|
| | | | | | |

5. FINAL JUNCTIONS

| NORTH | EAST | SOUTH | WEST |
|-----------|---------|---------|---------|
| T-11880 * | T-11883 | T-11892 | T-11881 |

REMARKS

*No Revision of this Map accomplished under this Project

HISTORY OF FIELD OPERATIONS

SEE FOOTNOTE, PAGE 14 FOR
F.E. WORK ACCOMPLISHED IN 1969
ALSO PAGE 15AI. ☐ FIELD INSPECTION OPERATION☒ FIELD EDIT OPERATION

| OPERATION | NAME | DATE |
|-------------------------------------|--|-----------|
| 1. CHIEF OF FIELD PARTY | R.E. Moses, CDR | Feb, 1970 |
| 2. HORIZONTAL CONTROL | RECOVERED BY R.B. Melby | Feb, 1970 |
| | ESTABLISHED BY None | |
| | PRE-MARKED OR IDENTIFIED BY None | |
| 3. VERTICAL CONTROL | RECOVERED BY N.A. | |
| | ESTABLISHED BY N.A. | |
| | PRE-MARKED OR IDENTIFIED BY N.A. | |
| 4. LANDMARKS AND AIDS TO NAVIGATION | RECOVERED (Triangulation Stations) BY L.L. Riggers | Mar, 1970 |
| | LOCATED (Field Methods) BY L.L. Riggers | Mar, 1970 |
| | IDENTIFIED BY None | |
| 5. GEOGRAPHIC NAMES INVESTIGATION | TYPE OF INVESTIGATION <input type="checkbox"/> COMPLETE <input type="checkbox"/> SPECIFIC NAMES ONLY <input checked="" type="checkbox"/> NO INVESTIGATION | |
| 6. PHOTO INSPECTION | CLARIFICATION OF DETAILS BY R.B. Melby | |
| 7. BOUNDARIES AND LIMITS | SURVEYED OR IDENTIFIED BY | |

II. SOURCE DATA

1. HORIZONTAL CONTROL IDENTIFIED

None

2. VERTICAL CONTROL IDENTIFIED

N.A.

| PHOTO NUMBER | STATION NAME | PHOTO NUMBER | STATION DESIGNATION |
|--------------|--------------|--------------|---------------------|
| | | | |
| | | | |
| | | | |

3. PHOTO NUMBERS (Clarification of details)

68E-6973 and 6974

4. LANDMARKS AND AIDS TO NAVIGATION IDENTIFIED

FORMS 567 & 76-40 IN THIS REPORT

| PHOTO NUMBER | OBJECT NAME | PHOTO NUMBER | OBJECT NAME |
|--------------|-------------|--------------|-------------|
| | | | |
| | | | |
| | | | |

5. GEOGRAPHIC NAMES: ☐ REPORT ☒ NONE6. BOUNDARY AND LIMITS: ☐ REPORT ☐ NONE

7. SUPPLEMENTAL MAPS AND PLANS

1" = 100' Construction Plan of Coronado Cays (Blue print) (Not used)

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

Field Edit Ozalid

RECORD OF SURVEY USE

I. MANUSCRIPT COPIES

| COMPILATION STAGES | | | DATE MANUSCRIPT FORWARDED | |
|--|------------|--|---------------------------|---------------|
| DATA COMPILED | DATE | REMARKS | MARINE CHARTS | HYDRO SUPPORT |
| Shoreline Revised for Hydro | Dec 1966 | DESIGNATED "IRS-SURVEY 1" Superseded | APRIL 1968 | UNKNOWN |
| Feb/68 Field Edit App. | Dec 1968 | Superseded | | |
| Major corr. applied from Jul/68 photo | Feb 1969 | Superseded | | |
| Partial Field Edit of Feb 1970 applied | Jul 1972 | REDESIGNATED 2ND MAP EDITION - SEPT. 1969 SUPERSEDED | | |
| REVISED W/ 1972 PHOTO | SEPT. 1974 | SUPERSEDED | | |
| Final Review | Oct 1974 | | | |

II. LANDMARKS AND AIDS TO NAVIGATION

1. REPORTS TO MARINE CHART DIVISION, NAUTICAL DATA BRANCH

| NUMBER | CHART LETTER NUMBER ASSIGNED | DATE FORWARDED | REMARKS |
|--------|------------------------------|----------------|--|
| | | | REFER TO PAGE 7, LAST PARAGRAPH |
| | | | NO FORM 76-40 FOUND FOR SOME LANDMARKS |
| | | | |
| | | | |
| | | | |
| | | | |
| | | | |

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 567 SUBMITTED BY FIELD PARTIES.
3. ☐ SOURCE DATA (except for Geographic Names Report) AS LISTED IN SECTION II, NOAA FORM 76-36C.
ACCOUNT FOR EXCEPTIONS:

FIELD EDIT PHOTOGRAPHS AND SHEET

4. ☐ DATA TO FEDERAL RECORDS CENTER. DATE FORWARDED: _____

IV. SURVEY EDITIONS (This section shall be completed each time a new map edition is registered)

| | | | |
|----------------|---------------------------------|--------------------------|---|
| SECOND EDITION | SURVEY NUMBER TP - _____ (2) | JOB NUMBER PH - _____ | TYPE OF SURVEY <input type="checkbox"/> REVISED <input type="checkbox"/> RESURVEY MAP CLASS <input type="checkbox"/> II. <input type="checkbox"/> III. <input type="checkbox"/> IV. <input type="checkbox"/> V. <input type="checkbox"/> FINAL |
| | DATE OF PHOTOGRAPHY | DATE OF FIELD EDIT | |
| THIRD EDITION | SURVEY NUMBER TP - _____ (3) | JOB NUMBER PH - _____ | TYPE OF SURVEY <input type="checkbox"/> REVISED <input type="checkbox"/> RESURVEY MAP CLASS <input type="checkbox"/> II. <input type="checkbox"/> III. <input type="checkbox"/> IV. <input type="checkbox"/> V. <input type="checkbox"/> FINAL |
| | DATE OF PHOTOGRAPHY | DATE OF FIELD EDIT | |
| FOURTH EDITION | SURVEY NUMBER TP - _____ (4) | JOB NUMBER PH - _____ | TYPE OF SURVEY <input type="checkbox"/> REVISED <input type="checkbox"/> RESURVEY MAP CLASS <input type="checkbox"/> II. <input type="checkbox"/> III. <input type="checkbox"/> IV. <input type="checkbox"/> V. <input type="checkbox"/> FINAL |
| | DATE OF PHOTOGRAPHY | DATE OF FIELD EDIT | |

OFFICIAL MILEAGE
For Cost Accounts---

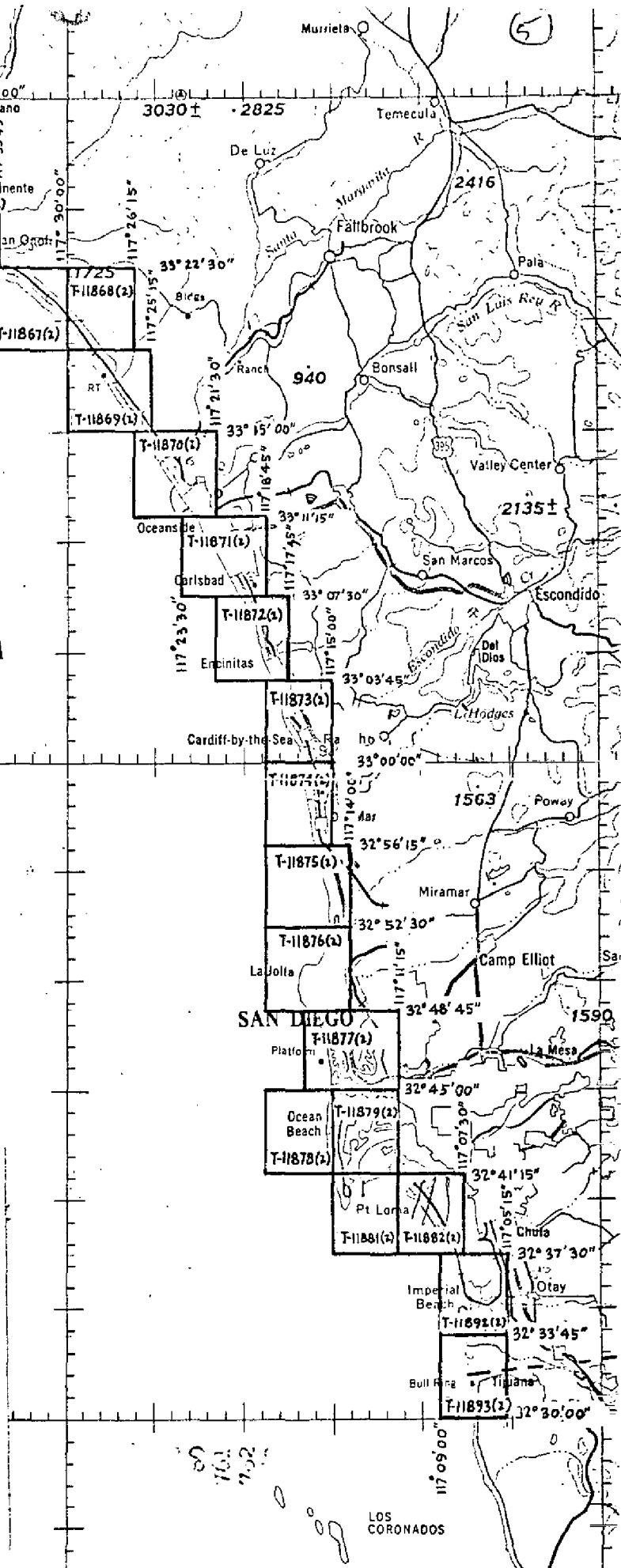
| Sheet Nos. | Area Sq. Mi. |
|-------------|--------------|
| T-11864 (2) | 2 |
| T-11865 (2) | 1 |
| T-11866 (2) | 3 |
| T-11867 (2) | 3 |
| T-11868 (2) | 1 |
| T-11869 (2) | 3 |
| T-11870 (2) | 3 |
| T-11871 (2) | 3 |
| T-11872 (2) | 2 |
| T-11873 (2) | 2 |
| T-11874 (2) | 2 |
| T-11875 (2) | 2 |
| T-11876 (2) | 3 |
| T-11877 (2) | 6 |
| T-11878 (2) | 2 |
| T-11879 (2) | 5 |
| T-11881 (2) | 2 |
| T-11882 (2) | 4 |
| T-11892 (2) | 5 |
| T-11893 (2) | 2 |
| Total | 56 |

JOB PH - 6702

CALIFORNIA COAST
MEXICO TO
DANA POINT

REVISION OF
SHORELINE MAPPING

SCALE, 1:10,000



(C)

Summary (Revised) to Accompany Descriptive Reports
Job PH-6702

This job consists of twenty 1:10,000-scale revised shoreline maps covering the area from Dana Point, California, to the Mexican border. The original (registered) maps were produced as a part of PH-6011.

Revision, using 1966 photography, by graphic method, was accomplished by the Coastal Mapping Section, AMC, during 1967 and 1968.

As indicated in Descriptive Report records, copies of the twenty (20) Class III map manuscripts were furnished to the Marine Chart Division in 1968. At that time the map manuscripts were designated as "RS" manuscripts (Nos. 842 through 861).

Field edit was accomplished from 1968 to 1972. In September 1969 the 20 map manuscripts were redesignated as second editions of the original registered maps (produced as a part of PH-6011).

All field edit data was applied by the Coastal Mapping Section, AMC.

Revision of the Class I (field edited) manuscripts with tide-coordinated infrared photographs taken in 1972 was originally assigned to the Revision Survey Section, Rockville. This work was completed by the final review activity, AMC, in 1974 and 1975.

Interior details were revised in Rockville; the MHW line and features seaward from the line (including the MLLW line) were revised at the AMC. Interior features were not examined by the final review activity (AMC).

Comments concerning application of the 1972 tide-coordinated photographs to the map manuscripts, which were included in the "Summary" prepared by the final reviewer follow: "Revision was by graphic methods. In places where 1972 photography could not be held to previous control or planimetry, additional control, using common points with 1966 photography, were cut in to control the infrared photographs".

"In comparison with (those) contemporary hydrographic survey sheets (available the time of final review) it was found that the soundings stopped at the breaker line, leaving no conflicts with the photogrammetric surveys. Most of the foreshore area consisted of sand, pebbles, and boulders with the exception of the Point Loma area. This is an inherent stable shoreline extensively made up of ledge on the seaward side. Since

breakers are almost continuous throughout the project, the seaward limits of the ledges, (the MLLW line) were difficult to determine. However, it is felt by the reviewer that they are adequate (as shown). These limits were not determined by the field editor."

There was considerable surf action at the time of photography. The interpretation and delineation of the MHW and MLLW lines were not verified during the examination of job data by the quality control activity, Rockville. Based on an earlier examination of the photography in Rockville and the final reviewer's evaluation, above, these lines are considered adequate for nautical navigational purposes. Photographs taken when there is less surf action or photographs supplemented by foreshore profiles are required for a more accurate determination of these lines.

Conflicts in recorded information as well as omissions of information were found to exist in records upon examination of the Descriptive Reports and the Job Completion Report in the Rockville Office. It is believed that this resulted from (1) the long operational period for the job, (2) the division of responsibilities between several activities and the several field edit operations for some maps in the job. Some records were lost. The Descriptive Reports and Job Completion Report Records were corrected insofar as practicable during this examination.

No record for the submission of Form 76-40 (Landmarks and Aids to Navigation) to the Marine Chart Division was found. Available forms were submitted to the Marine Chart Division in April 1975.

Lt. J. H. Smith

8

FIELD INSPECTION REPORT

There was no field inspection prior to compilation.

DESCRIPTIVE REPORT CONTROL RECORD

[illegible]

(10)

REVISION REPORT
PH-6702
DANA POINT, CALIF. TO MEXICO

Twenty manuscripts were revised and photo hydrographic support data were prepared. Work was started at the south end of the project and progressed to the north.

PHOTOGRAPHY

All revision was by graphic methods using photography taken in 1966 with the "S" type camera. These were 1:30,000 scale with infrared at mean high water and 1:20,000 scale color at mean lower low water. Some difficulty was noted in defining the exact centers of the ratio prints from the M.L.L.W. color photography. (See attached "Notes for the Hydrographer" explaining this deficiency and Resolution.)

CONTROL

Direct or stereo transfer of identifiable horizontal control (triangulation, original bridge pass points, landmarks and/or aids) was made from any remaining original photography (office of field prints) to the 1966 color ratios and infrared ratios. The infrared ratios were first determined from points common to the manuscripts and the infrared contact prints. These ratios (in cronapaque only) were then processed and new points intersected common to the color contact prints. These distances then determined the ratio factor for the color ratios (in black and white).

In areas of the project where control such as identifiable triangulation stations, original bridge pass points, or landmarks and/or aids, were scarce or no longer in existence for transfer to the new photography; an alternative method of identifying common points of details was used. i.e.: Street intersections, R.R. and street crossings, or any other well defined point of detail.

SHORELINE AND ALONGSHORE DETAILS:

In as much as project instructions called for shoreline revision only, with a few exceptions, such as new landmarks, and new highways within the compilation limits; the M.L.L.W.L., foreshore area, and alongshore area was revised from the M.L.L.W. photos. The M.H.W.L. was revised from the infrared photos. All revisions were made in red plastic ink, office reviewed and appropriate data prepared for hydro support and further field edit. Nine survey sheets, with hydro support data and edit ozalids have been forwarded to the Pacific Marine Center. Of these, only two have been returned with pertinent field edit data. They are T-11892 and T-11893. (See attached copies of transmittals.) One cronaflex copy and one ozalid copy of each of the twenty revised sheets have also been forwarded to Mr. Lewis Evans, III for his files.

The remaining eleven revised surveys, with all hydro support data were forwarded to Mr. Fitzgerald's office for storage until future ship assignment. All remaining data is forwarded to Mr. Wolfe for adequate and safe storage.

LANDMARKS AND AIDS

Two new landmarks were photogrammetrically established. They are: Standpipe, 1966 on T-11873, and Tank, 1966 on T-11872. These were identified on original field inspection photos 60-S-456A and 60-S-516A, dated 12/8/61 and 12/1/61. Neither were delineated on the original compilations, nor were they previously charted. Forms 567 were requested of any future field edit party.

FINAL REVIEW

All twenty surveys or manuscripts are subject to a final review and completion of reports, after application of any future field edit. Further scribing or smooth draft for final registration in Bureau Archives is a subject for future discussion and decision.

Submitted by

Albert C. Rauck, Jr.

Albert C. Rauck, Jr.
Supervisory Cartographer
Coastal Mapping
Atlantic Marine Center,
Norfolk, Virginia

March 29, 1968

PROJECT SUMMARY

This revision of PH-6011, under revision instructions for PH-6702, consisted of 20 shoreline manuscripts. These "Manuscripts" were black-line impressions on vinylite of the original PH-6011 smooth drafted surveys.

The purpose of this project was to revise the "New Base" manuscripts graphically with new 1966 photography and to provide new hydrographic support data.

Albert C. Rauck, Jr.
Albert C. Rauck, Jr.
Supervisory Cartographer

FIELD EDIT APPLICATION

T-11882

Only partial Field Edit was applied to this manuscript, because of lack of information. This office does not have Geographic Positions for 1970 lights at GLORIETTA BAY and CORONADO CAY CHANNEL, listed below, nor did the editor photo-identify these:

*
see below

CORONADO CAY CHANNEL LIGHT 1
CORONADO CAY CHANNEL LIGHT 2
CORONADO CAY CHANNEL LIGHT 7
CORONADO CAY CHANNEL LIGHT 8
CORONADO CAY CHANNEL LIGHT 13
GLORIETTA BAY, CHANNEL RANGE FRONT LIGHT
GLORIETTA BAY, CHANNEL RANGE REAR LIGHT
SAN DIEGO BAY CHANNEL LIGHT 51

Because the following listed daybeacons used one or more of the above lights in the sextant fix angles, they could not be located either.

CORONADO CAY DAYBEACON 4
CORONADO CAY DAYBEACON 3
CORONADO CAY DAYBEACON 5
CORONADO CAY DAYBEACON 6

* NOTE: OBJECTS LOCATED & MAPPED. FORMS 567 & 76-40 INCLUDED IN THIS REPORT.

PH-6702

DANA POINT, CALIFORNIA TO MEXICO

ADDENDUM TO COMPLETION REPORT - FIELD EDIT

The field edit of these 20 revised map manuscripts was accomplished during the field seasons from February 1970 through March 1972.

SEE PAGE 15A FOR APPLICATION OF 1968 F.E. DATA

The following tabulated list of manuscripts indicate dates of edit and application.

| <u>Map No.</u> | <u>Date of Field Edit</u> | <u>Date of Application</u> |
|----------------|--------------------------------|-------------------------------|
| T-11864(2) | March, 1972 | July, 1972 |
| T-11865(2) | March, 1972 | July, 1972 |
| T-11866(2) | March, 1972 | July, 1972 |
| T-11867(2) | March, 1972 | July, 1972 |
| T-11868(2) | March, 1972 | July, 1972 |
| T-11869(2) | March-April 1970, March 1972 | July, 1972 |
| T-11870(2) | Mar.-Apr. May, 1970, Dec. 1971 | July, 1972 |
| T-11871(2) | Mar.-Apr. May, 1970, Dec. 1971 | July, 1972 |
| T-11872(2) | March-April, 1970 | July, 1972 |
| T-11873(2) | March-April, 1970, Dec. 1971 | July, 1972 |
| T-11874(2) | March-April, 1970, | July, 1972 |
| T-11875(2) | Feb. 1970 | July, 1972 |
| T-11876(2) | Feb. Mar. Apr. 1970, Feb. 1968 | Dec. 1968 and Aug. 1972 |
| T-11877(2) | Feb. Mar. Apr. 1970 | April 1968 and July 1972 |
| T-11878(2) | Feb. Mar. Apr. 1970, Feb. 1968 | April 1968 and July 1972 |
| T-11879(2) | Feb. 1970, Feb. 1968 | Dec. 1968 and July 1972 |
| * T-11881(2) | Feb. 1970, Feb. 1968 | Dec. 1968 and July 1972 |
| * T-11892(2) | Feb. 1970, Feb. 1968 | May 1967, Dec. 1968 Aug. 1972 |
| T-11893(2) | Feb. 1970, Feb. 1968 | May 1967, Dec. 1968 Aug. 1972 |
| * 11882(2) | Feb. 1970, Feb. 1968 | July 1972, Feb. 1968 |

Field edit was applied from data furnished on the field edit ozalids and the field ratio photographs. Landmarks and non-floating aids to navigation, when photo identified or when positions were determined by field methods, were plotted or verified on each map.

There are 12 form 76-40 and 5 form 567 submitted by the various field edit parties throughout the several field seasons. Those which were out of the project limits, were not plotted and the forms were so indicated.

T-11882 - RESULTS OF 1968 & 1970 FIELD EDIT
WORK SHOWN ON COMMON FIELD EDIT
SHEET. NO OTHER RECORDS OF 1968 WORK

(15)

During the intervening years of the span of field seasons, there were duplications of forms for landmarks and/or aids, and many aids were moved or renamed. An attempt to clarify these items, necessitated pencil notations on the forms as an assist to the Chart Revision Section if future revision is to be necessary. The field editor of March, 1972, made reference to 1972 photography, which was not made available to the Atlantic Marine Center. It is believed that these photos will be utilized to further revise the M.H.W.L.

There were many Triangulation Stations recovered during the field seasons. Forms 526 were submitted by the field editors and these were checked against those control stations previously plotted on the maps. Those for which no positions were available were not plotted, as no geodetic control was furnished the AMC compilation office during the revision of this project.

Several measured distances to the MHWL were given by the field editor. These could not be used, when drastic changes were indicated and it was deemed advisable to have these incorporated with future revision from the 1972 photographs. A few of the measurements were in agreement with the 1966 revised MHWL.

The most noted difficulty encountered in applying the field edit, concerned the location of lights and beacons on Map T-11882. The field editor submitted form 567 for a group of non-floating aids in Glorietta Bay and Coronado Cay Channel for which he gave no positions.

The lights in these areas are triangulated and the beacons were located by sextant fixes from the lights, but without the geodetic positions of the lights, the beacons could not be plotted.

There is an overlap of 1'15" in longitude between Map T-11864 of Project PH-6702 and Map TP-00415 of Project PH-7107. This was necessary due to the change of format size between the projects.

Shoreline and other details were made to agree in the overlap junction by delineating T-11864 to conform with TP-00415 which was compiled with later photography.

Submitted by:

Albert C. Rauck, Jr.

Albert C. Rauck, Jr.
Supervisory Cartographer
Coastal Mapping Division
Atlantic Marine Center
Norfolk, VA 23510
August 9, 1972

Field Edit Application

PH-6702

Shoreline Surveys
(California)

15A

Field edit work, accomplished in February 1968 was applied in the Rockville, Md. Compilation Section to eight Revision Survey maps of Project PH-6702. Revisions resulting from this field edit were few in number. The eight maps are:

| | |
|----------|-----------|
| - RS-853 | - T-11875 |
| - 854 | - T-11876 |
| - 856 | - T-11878 |
| - 857 | - T-11879 |
| - 858 | - T-11881 |
| - 859 | - T-11882 |
| - 860 | - T-11892 |
| - 861 | - T-11893 |

KH/Probi
2/19/69

23 August 1974

GEOGRAPHIC NAMES

FINAL NAME SHEET

Ph-6702 (Southern California Coastline)

T-11882 (2)

Chollas Creek

Coronado

Coronado Cays

Crown Isle

Glorietta Bay

Pacific Ocean

Peninsula of San Diego

San Diego

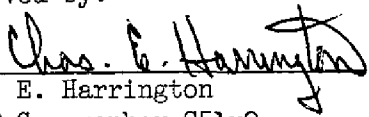
San Diego and Arizona Eastern(RR)

San Diego Bay

Silver Strand

Silver Strand State Park

Approved by:


Chas. E. Harrington
Staff Geographer-C51x2

19. NOTES FOR THE HYDROGRAPHIC

Two sets of photographs were used in the compilation of the revised shoreline on these surveys.

One set of infrared photographs at MLM were used in the delineation of the MLM line. The second set, in color, were taken at MLM and were used only for the delineation of the MLM line and other low water features. Both sets of photos were reduced to the scale of the maps.

Some difficulty was encountered in defining the exact centers of the ratio photos made from the MLM color photos which are furnished to you. The original photos were of such quality that the fiducial marks did not produce well and did not appear on the contact prints nor the reduced prints. Several attempts or methods were made to define these fiducial marks, but without success. It was, therefore, necessary to locate these photo centers by a method that at best is only approximate. This information is made available to you, should you encounter any difficulty in laying these photos to their respective centers on the map sheets while "cutting in" your photo hydro stations.

Appropriate notes will be found on the "FIELD EDIT OZALID" calling your attention to items in need of further clarification and/or edit.

FIELD EDIT REPORT
CHART TOPOGRAPHY
California Coast
Mexico to Dana Point
February 1970
Map Manuscripts T-11875(2), 11876(2), 11877(2)
11878(2), 11879(2), 11881(2), 11882(2), 11892(2), 11893(2)
Project PH-6702

This report covers the portion of the project that was field edited during the month of February 1970, commencing at the United States - Mexico border and progressing northward along the coast to the vicinity of the southern section of the city of Del Mar.

The shoreline was inspected by using a skiff, motor vehicle or by foot. The field edit copies (discrepancy prints) of the map manuscripts were used as the index for the field corrections and the field photographs containing corrections were cross-referenced to the field edit copies. The field edit annotations for the 1970 season were entered in red ink to differentiate from any previous field edit notes.

Adequacy of Compilation:

The extent and accuracy of the maps appear to be reasonably accurate and complete, considering the time span between the original field inspection and the field edit.

Methods and General Information:

All shoreline features, aids to navigation and landmarks were indicated using red ink. Features recommended for deletion are in green ink.

The shoreline is generally of a sandy composition, except in the areas of coastal bluffs or where the shoreline consists of the usual harbor developments.

Bluffs are evident in the vicinity of Point Loma and La Jolla northward. Wave action and the usual erosion cause the bluffs to be in a constant state of sloughing. The bluffs are particularly unstable due to their geological structure. "Solid" bed rock is not in evidence, although ledges adjacent to the bluffs are quite common.

The southern portion of the field inspected area is San Diego Bay with the Silver Strand and the port facilities of the City of San Diego. Northward of San Diego Bay is Mission Bay with its park development and the Sea World Oceanarium. Continuing northward on the outer coast several piers are in evidence extending seaward from the shoreline.

stage. Numerous sunken rocks could be seen in the troughs of the swells of the incoming surf, but they could not be positively photo identified. It is recommended that the foreshore should be shown as a foul area. Difficulty was encountered in attempting to delineate the offshore limits of the ledges due to the turbidity of water. The surf action apparently churns up considerable amounts of sediments.

Sheet T-11879(2)

Numerous changes of shoreline features are apparent in this area. Mooring buoys have been incorrectly compiled as dolphins.

Sheet T-11881(2)

The foreshore area adjacent to the bluffs are generally ledges with rocks and boulders, and should be considered as foul areas. Several prominent buildings near the north west limits of the sheet have been removed. A sunken rock west of the Cabrillo National Monument will be investigated by the Ship DAVIDSON if weather conditions and seas permit. The evaporators and oil storage tank of the desalinization plant on Point Loma have been removed.

Sheet T-11882(2)

The fixed aids in Glorietta Bay have been rebuilt in different locations. The Glorietta Bay Channel Range Lights were determined by triangulation. Five fixed aids to navigation (lights) were determined by triangulation methods. Other aids to navigation (day marks) were located by sextant fixes.

A landmark (marker) was determined by triangulation intersection methods.

The seaplane lane markers were not found in the field and an employee of the U. S. North Island Naval Air Station Public Works Department stated the lane markers had been removed and the seaplane lanes have been discontinued.

A new community "Coronado Cays" is being developed in the southeast portion of the sheet. Blue prints by the Coronado Cays Company are being submitted with the field edit data.

Sheet T-11892(2)

Near the northeast portion of the sheet an addition was added to the southeast of the South Bay Power Plant. Stack 1963 (NW 1 of 2) is now (NW 1 of 3). A tank in question is still in place, but it is somewhat overshadowed by a newer and larger one constructed to the west. See Chula Vista SDG&E Co. W, 1 of 2 tanks 1970. See photo 66S4614 color contact print for detail of a lone building (LDMK) at the Imperial Beach Naval Radio Station.

Sheet T-11893(2)

A double row of small steel piling marking an abandoned sewer outfall have been indicated on the field edit sheet.

Recommendation: It is recommended the Silver Strand from the U. S. Naval Amphibious Base southward to the vicinity of Coronado Heights should be photographed after 1 July 1970. By this date the Coronado Cay Development should have completed Phase 1 and 2 of their construction. This would permit shoreline revision and the location of the additional aids to navigation scheduled for construction. Also the change in shoreline north of the construction area where dredging spoil is being pumped (Sheet T-11882) will be completed.

Respectfully submitted,

Robert B. Melby

Robert B. Melby
Chief, Field Unit, PMC

REVIEW REPORT

T-11882(2)

Oct., 1974

61. GENERAL STATEMENT:

See Summary which is included in the Descriptive Report.

62. COMPARISON WITH REGISTERED SURVEYS:

Comparison was made with two prior surveys; T-11882 compiled with 1960 photography and T-5372 compiled with 1933 photography. Both surveys are at 1:10,000 scale. Extensive natural and cultural changes since the early survey made a comparison with survey an aimless exercise. Except for cultural developmental changes good comparison was made with the 1960 survey.

T-11882(2) supersedes the prior registered surveys for chart construction.

63. COMPARISON WITH MAPS OF OTHER AGENCIES:

Comparison was made with U.S.G.S. Quadrangle Point Loma, Calif., dated 1967 at 1:24,000 scale. No significant changes were noted.

64. COMPARISON WITH CONTEMPORARY HYDROGRAPHIC SURVEYS:

Comparison was made with registered hydro survey H-8978. Except for minor differences, in the MLLW line at the north end of the sheet, the comparison was good. The 1972 photography does show considerable deposition of sand on the southern shore of North Island. No contemporary hydrographic survey exists in San Diego Bay.

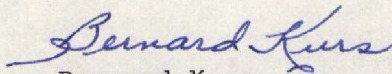
65. COMPARISON WITH NAUTICAL CHARTS:

Comparison with Chart 5105, dated June 16, 1973 at 1:12,000 scale, was made. Three wrecks at the south end of the chart were noticed (San Diego Bay, westerly shoreline). The most northerly one now falls on an area that is now filled in, the westerly one falls on a fairly new pier and the most easterly one is not visible on the photographs. Other than the shorelines which have changed (see #62 this report), there are no significant differences.

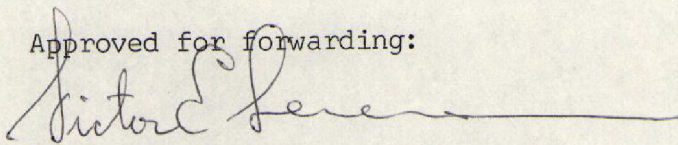
66. ADEQUACY OF RESULTS AND FUTURE SURVEYS:

This survey meets with project instructions and the National Standards of Map Accuracy. REFER TO "SUMMARY" page 7

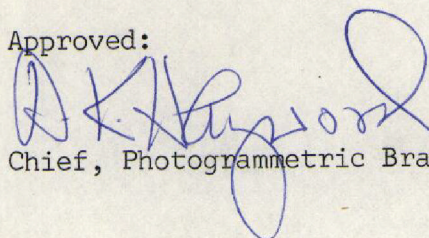
Reviewed by:

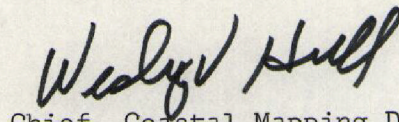

Bernard Kurs
Cartographer

Approved for forwarding:


Victor E. Serena
Chief, Photogrammetric Branch, AMC

Approved:


Chief, Photogrammetric Branch *JB*


Chief, Coastal Mapping Div.

| U.S. DEPARTMENT OF COMMERCE-NATIONAL OCEANIC AND ATMOSPHERIC ADMINISTRATION | | | | | | | | | | | |
|--|---|----------------------|-----------|---|------|--|---|-------------|---|-------------|--------------------------|
| NONFLOATING AIDS OR LANDMARKS FOR CHARTS | | | | | | | | | | | |
| NOAA FORM 76-40 (2-71) PRESCRIBED BY PHOTOGRAMMETRY INSTRUCTION NO. 64. | | ORIGINATING LOCATION | | DATE | | ORIGINATING ACTIVITY | | | | | |
| <input checked="" type="checkbox"/> TO BE CHARTED <input type="checkbox"/> TO BE DELETED | | Norfolk, Virginia | | October, 1974 | | <input type="checkbox"/> FIELD INSPECTION <input type="checkbox"/> FIELD EDIT <input type="checkbox"/> COMPILATION <input checked="" type="checkbox"/> FINAL REVIEW <input type="checkbox"/> QUALITY CONTROL AND REVIEW (See reverse for responsible personnel) | | | | | |
| The following objects have (have not) been inspected from seaward to determine their value as landmarks: | | N.A. 1927 | | METHOD AND DATE OF LOCATION (See instructions on reverse of this form) | | CHARTS AFFECTED | | | | | |
| JOB NUMBER PH-6702 | SURVEY NUMBER T-11882 | DATUM | | POSITION | | FIELD INSPECTION | | COMPILATION | | FIELD EDIT | |
| STATE: | DESCRIPTION | LATITUDE | LONGITUDE | D.P. METERS | | D.P. METERS | | D.P. METERS | | D.P. METERS | |
| | | ° / | ° / | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| | CORONADO CAY CHANNEL LT. 1 | 32-38 | 19.9 | 117-07 | 55.1 | | | | | F. 3.a | 5105, 5060 5107, 5101 |
| | CORONADO CAY CHANNEL LT. 2 | 32-38 | 18.7 | 117-07 | 57.4 | | | | | F. 3.a | 5105, 5060 5107, 5101 |
| | CORONADO CAY CHANNEL LT. 7 | 32-38 | 01.0 | 117-07 | 54.8 | | | | | F. 3.a | 5105, 5060 5107, 5101 |
| | CORONADO CAY CHANNEL LT. 8 | 32-37 | 59.8 | 117-07 | 57.1 | | | | | F. 3.a | 5105, 5060 5107, 5101 |
| | CORONADO CAY CHANNEL LT. 13 | 32-37 | 49.7 | 117-07 | 44.4 | | | | | F. 3.a | 5105, 5060 5107, 5101 |
| | GLORIETTA BAY, CHANNEL RANGE FRONT LT. | 32-40 | 34.9 | 117-10 | 05.8 | | | | | F. 3.a | 5105, 5060 5107, 5101 |
| | GLORIETTA BAY, CHANNEL RANGE REAR LT. | 32-40 | 33.5 | 117-10 | 07.7 | | | | | F. 3.a | 5105, 5060 5107, 5101 |
| | | | | | | | | | | | |
| | | | | | | | | | | | |
| | | | | | | | | | | | |

| RESPONSIBLE PERSONNEL | |
|---|--|
| TYPE OF ACTION | NAME |
| 1. Objects inspected from seaward | <div> <input type="checkbox"/> FIELD INSPECTOR <input type="checkbox"/> FIELD EDITOR </div> |
| 2. Positions determined and/or verified | FIELD INSPECTOR |
| | FIELD EDITOR |
| | COMPILER |
| 3. Forms originated by Quality Control and Review Group and final review activities | <div> <input type="checkbox"/> REVIEWER <input type="checkbox"/> QUALITY CONTROL AND REVIEW GROUP REPRESENTATIVE </div> |

INSTRUCTIONS FOR 'METHOD AND DATE OF LOCATION' SECTION

NOTE: 'Photogrammetric Positions' are dependent entirely, or in part, upon control established by photogrammetric methods. 'Field Positions' are determined by field observations based entirely upon ground control.

COLUMN TITLE

TYPE OF ENTRIES

Applicable to office identified and located objects only. Enter the number and date of the photograph used to identify the object.

FIELD INSPECTION
AND
FIELD EDIT

1. New Position Determined—Enter the applicable data by symbols as indicated below:

- | | | |
|------------------|---------------------|-----------|
| F — Field | P — Photogrammetric | EXAMPLES: |
| 1. Triangulation | 1. Field identified | F. 3.c |
| 2. Traverse | 2. Theodolite | |
| 3. Intersection | 3. Planetable | |
| 4. Resection | 4. Sextant | P. 2 |
| a. Theodolite | | |
| b. Planetable | | |
| c. Sextant | | |

Immediately beneath the data described above, enter the following:

- For 'Field Positions' enter the date of location.
- For 'Photogrammetric Positions' enter the date of field work; and, if a photograph was used in locating the object or the object was identified on a photograph, enter the number of the photograph used.

1848.

(24)

| NOAA FORM 76-40 (2-71) PRESCRIBED BY PHOTOGRAMMETRY INSTRUCTION NO. 64. | | U.S. DEPARTMENT OF COMMERCE-NATIONAL OCEANIC AND ATMOSPHERIC ADMINISTRATION | | NONFLOATING AIDS OR LANDMARKS FOR CHARTS | | ORIGINATING ACTIVITY | |
|---|--|---|--|--|--|--|--|
| <input checked="" type="checkbox"/> TO BE CHARTED <input type="checkbox"/> TO BE DELETED | | ORIGINATING LOCATION | | DATE | | <input type="checkbox"/> FIELD INSPECTION <input type="checkbox"/> FIELD EDIT <input type="checkbox"/> COMPILATION <input checked="" type="checkbox"/> FINAL REVIEW <input type="checkbox"/> QUALITY CONTROL AND REVIEW (See reverse for responsible personnel) | |
| JOB NUMBER PH-6702 | | SURVEY NUMBER T-11882(2) TP- | | DATUM N.A. 1927 | | METHOD AND DATE OF LOCATION (See instructions on reverse of this form) | |
| STATE: | | POSITION | | FIELD INSPECTION | | FIELD EDIT | |
| CHARTING NAME | | LATITUDE | | LONGITUDE | | CHARTS AFFECTED | |
| | | D.M. METERS | | D.M. METERS | | | |
| * CORONADO CAY DAYBEACON 3 | | 32-38 13.7 | | 117-07 54.9 | | 5105, 5060, 5107, 5101 | |
| * CORONADO CAY DAYBEACON 4 | | 32-38 13.8 | | 117-07 57.2 | | " | |
| * CORONADO CAY DAYBEACON 5 | | 32-38 13.8 | | 117-07 57.1 | | 1970 | |
| ** | | 32-38 13.8 | | 117-07 1488.4 | | " | |
| * CORONADO CAY DAYBEACON 6 | | 32-38 14.7 | | 117-07 54.3 | | 1970 | |
| | | 32-38 144.8 | | 117-07 1415.4 | | | |
| * The positions are scaled from the manuscript. | | | | | | | |
| * * One of the fix angles is incorrect. Position weak | | | | | | | |

| RESPONSIBLE PERSONNEL | |
|---|--------------------|
| TYPE OF ACTION | NAME |
| 1. Objects inspected from seaward | |
| 2. Positions determined and/or verified | |
| | |
| 3. Forms originated by Quality Control and Review Group and final review activities | <i>Edward Kane</i> |

INSTRUCTIONS FOR 'METHOD AND DATE OF LOCATION' SECTION

NOTE: 'Photogrammetric Positions' are dependent entirely, or in part, upon control established by photogrammetric methods. 'Field Positions' are determined by field observations based entirely upon ground control.

COLUMN TITLE

TYPE OF ENTRIES

COMPILATION

Applicable to office identified and located objects only. Enter the number and date of the photograph used to identify the object.

FIELD INSPECTION

1. New Position Determined—Enter the applicable date by symbols as indicated below:

FIELD EDIT

F — Field

P — Photogrammetric

EXAMPLES:

1. Triangulation
2. Traverse
3. Intersection
4. Resection

1. Field identified
2. Theodolite
3. Planetable
4. Sextant

F. 3.c
P. 2

- a. Theodolite
- b. Planetable
- c. Sextant

Immediately beneath the data described above, enter the following:

a. For 'Field Positions' enter the date of location.

b. For 'Photogrammetric Positions' enter the date of field work; and, if a photograph

was used in locating the object or the object was identified on a photograph, enter the number of the photograph used.

2. Triangulation Station Recovered — Enter 'Triang. Rec. mo/day/yr.'

3. Position Verified — Enter 'Verif. mo/day/yr.'

* U.S. GOVERNMENT PRINTING OFFICE: 1971-769374/445 REG.#6

U.S. DEPARTMENT OF COMMERCE
COAST AND GEODETIC SURVEYTO BE CHARTED
TO BE REVIEWED
TO BE REJECTED

STRIKE OUT TWO

NONFLOATING AIDS OR MARKERS

Seattle Washington

March 12, 1970

I recommend that the following objects which have (have not) been inspected from seaward to determine their value as landmarks be charted on (delete) the charts indicated.

The positions given have been checked after listing by Lyle L. Riggers

Robert B. Melby

Chief of Party

| STATE | California | DESCRIPTION | Light List No. | POSITION | | | METHOD OF LOCATION AND SURVEY No. | DATE OF LOCATION | CHARTS AFFECTED | | |
|-------|------------|---|-------------------|-------------|-------------|--------------|--|------------------------|--------------------|---------------|----------------|
| | | | | LATITUDE* | LONGITUDE* | DATUM | | | MAJOR CHART | INSHORE CHART | OFFSHORE CHART |
| | | | | D.M. METERS | D.P. METERS | | | | | | |
| | | Coronado Cay Channel Light 1 | 351 | | | N.A. 1927 | * Triang. | 2/17/70 | | | 5105, 5060 |
| | | Coronado Cay Channel Light 2 | 351.05 | | | " | " | " | | | 5107, 5101 |
| | | Coronado Cay Channel Light 7 | 351.10 | | | " | " | " | | | " |
| | | Coronado Cay Channel Light 8 | 351.15 | | | " | " | " | | | " |
| | | Coronado Cay Channel Light 13 | 351.25 | | | " | " | " | | | " |
| | | Glorietta Bay, Channel Range Front Light | 350.10 | | | " | " | " | | | " |
| | | Glorietta Bay, Channel Range Rear Light | 350.11 | | | " | " | " | | | " |
| | | San Diego Bay, Channel Light 51 | | | | " | " | " | | | " |
| | | Coronado Cay Channel Daybeacon 3 | | 32 38.2 | 117 07.9 | " | Sextant Fix | " | | | 5060 |
| | | Coronado Cay Channel Daybeacon 4 | | 32 38.2 | 117 08.0 | " | " | " | | | 5105, 5060 |
| | | Coronado Cay Channel Daybeacon 5 | | 32 38.1 | 117 07.9 | " | " | " | | | 5107, 5101 |
| | | Coronado Cay Channel Daybeacon 6 | | 32 38.1 | 117 07.9 | " | " | " | | | " |

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

* type converted from
plane coordinates

TO BE CHARTERED

STRIKE OUT TWO

MONTLOATH GUIDES OR LANDMARKS FOR CHARTS

Seattle Washington

March 12, 1970

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

The positions given have been checked after listing by Lyle L. Riggers

Robert B. Melby

Chief of Party.

| STATE | CHARTING NAME | DESCRIPTION | SIGNAL NAME | POSITION | | | | | | METHOD OF LOCATION AND SURVEY No. | DATE OF LOCATION | HARBOR CHART | INSHORE CHART | OFFSHORE CHART | CHARTS AFFECTED | |
|------------|--------------------|---|-------------|-----------|--------|------------|-----------|-----------------|---------|-----------------------------------|------------------|--------------|------------------------|----------------|-----------------|--|
| | | | | LATITUDE* | | LONGITUDE* | | DATUM | | | | | | | | |
| | | | | ° | ' | ° | ' | | | | | | | | | |
| California | SKY TOWER | △ San Diego, Sea World Sky Tower, 1970 Ht. = 319 (338) | | 32 45 | 117 13 | 32 759 | N.A. 1927 | T-11877 Triang. | 2/17/70 | | | | 5101, 5060, 5105, 5107 | | | |
| | R. TR. (KSON) TANK | △ San Diego, Radio Station, KSON, 1970 Ht. = 445 (455) | | 32 47 | 117 07 | 16 842 | " | T-11880 | " | | | | 5107, 5060 | | | |
| | (WEST) MARKER | △ Chula Vista, SDG & E Co. W 1 of 2 tanks, 1970 Ht. = 140 (150) | | 32 36 | 117 05 | 39 335 | " | T-11892 | " | | | | 5101, 5060 | | | |
| | | △ Coronado, U.S.N.A.B. Parker, 1970 Ht. = 30 (35) | | 32 39 | 117 09 | 25 337 | " | T-11882 | " | | | | 5105, 5107 | | | |
| | BLDG | Lone, block type building Ht. = 80 (110) | | 32 35 | 117 07 | 56 02 | " | T-11892 Photo | 2/17/70 | | | | 5101, 5060 | | | |
| | | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | | |

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 PETERS