

11881(2)

11881(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-11881(2)
Classification No. FIELD EDITED MAP, * See Below	Edition No. 2
LOCALITY	
State	California
General Locality	Pacific Ocean Coastline
Locality	Point Loma
19 70 TO 19 74	
REGISTRY IN ARCHIVES	
DATE	

☆ U.S. GOVERNMENT PRINTING OFFICE: 1973-761-775

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

TYPE OF SURVEY

- ☐ ORIGINAL
☐ RESURVEY
☒ REVISED

SURVEY T-11881

MAP EDITION NO. (2)

MAP CLASS

JOB PH- 6702

DESCRIPTIVE REPORT - DATA RECORD

PHOTOGRAMMETRIC OFFICE

Atlantic Marine Center

OFFICER-IN-CHARGE

Alfred C. Holmes - Director

LAST PRECEDING MAP EDITION

TYPE OF SURVEY

- ☒ ORIGINAL
☐ RESURVEY
☐ REVISED

JOB PH- 6011

MAP CLASS FIELD EDITED

SURVEY DATES:

19 60 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
" " " 5 9/23/74

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

California

ZONE

6

5. SCALE

1:10,000

STATE

ZONE

III. HISTORY OF OFFICE OPERATIONS

OPERATIONS	NAME	DATE
1. AEROTRIANGULATION METHOD: None 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:	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 L. Graves N.A. N.A. K. Boyle L. Graves L. Graves	Dec 1966 Jan 1967 Dec 1966 Jan 1967 Jan 1967
5. OFFICE INSPECTION PRIOR TO FIELD EDIT	L. Graves	Jan 1967
6. APPLICATION OF FIELD EDIT DATA	K. Maki (2/68) C. Blood R. White	Jul 1972 Jul 1972
7. COMPILATION SECTION REVIEW	R. White	Jul 1972
8. FINAL REVIEW	Bernard Kurs	Oct 1974
9. DATA FORWARDED TO PHOTOGRAMMETRIC BRANCH		
10. DATA EXAMINED IN PHOTOGRAMMETRIC BRANCH	S. Bloembergen	Apr. 1975
11. MAP REGISTERED - COASTAL SURVEY SECTION	R. Cator	JUN, 1975

* REFER TO FOOTNOTE, PAGE 19
** REFER TO "SUMMARY" PAGE 6 CONCERNING REVISION WORK BY B. KURS IN 1974

COMPILATION SOURCES

1. COMPILATION PHOTOGRAPHY

CAMERA(S) Wild RC-8 "S"		TYPES OF PHOTOGRAPHY LEGEND		TIME REFERENCE	
TIDE STAGE REFERENCE		(C) COLOR X (P) PANCHROMATIC (I) INFRARED X		ZONE	<input checked="" type="checkbox"/> STANDARD
<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				8th	
				MERIDIAN	<input type="checkbox"/> DAYLIGHT
		120th			
NUMBER AND TYPE	DATE	TIME (Mean)	SCALE	STAGE OF TIDE	
66S-4772 I	8/7/66	13:11 PST	1:30,000	0.3 ft. below MHW	
66S(C) 4589A-4590A	8/7/66		1:20,000		
72-L-2476R thru 78	3/23/72	13:15 PST	1:20,000	MLLW	
72-L-2512R thru 2516R (Transparencies)	3/23/72	13:40 PST	1:20,000	MLLW (+ 0.25 ft)	
72-L-2512R thru 2516R					

REMARKS

TIDE STATION FOR 1972 PHOTOS - OCEANSIDE 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-11879	T-11882	No Survey	No Survey

REMARKS

HISTORY OF FIELD OPERATIONS

I. ☐ 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 ESTABLISHED BY None PRE-MARKED OR IDENTIFIED BY None	Feb, 1970	
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 None LOCATED (Field Methods) BY None IDENTIFIED BY None		
5. GEOGRAPHIC NAMES INVESTIGATION	TYPE OF INVESTIGATION <input type="checkbox"/> COMPLETE BY <input type="checkbox"/> SPECIFIC NAMES ONLY <input type="checkbox"/> NO INVESTIGATION		
6. PHOTO INSPECTION	CLARIFICATION OF DETAILS BY R.B. Melby	Feb, 1970	
7. BOUNDARIES AND LIMITS	SURVEYED OR IDENTIFIED BY None		
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) 66S(C) 4590A			
4. LANDMARKS AND AIDS TO NAVIGATION IDENTIFIED None REFER TO FOOTNOTE, PAGE 19			
PHOTO NUMBER	OBJECT NAME	PHOTO NUMBER	OBJECT NAME
5. GEOGRAPHIC NAMES: <input type="checkbox"/> REPORT <input checked="" type="checkbox"/> NONE		6. BOUNDARY AND LIMITS: <input type="checkbox"/> REPORT <input checked="" type="checkbox"/> NONE	
7. SUPPLEMENTAL MAPS AND PLANS 1-Sounding Vol. Form 275(March 12, 1970 From Ship DAVIDSON 1-Fathogram			
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 "RS-SURVEY" Superseded	APRIL 1968	UNKNOWN
Feb 1968 Field Edit Applied	Dec, 1968	Superseded REDESIGNATED 2nd		
Feb 1968 ²⁰ Field Edit Applied	July 1972	HAP EDITION - SEPT. 1969 CLASS I MANUSCRIPT SUPERSEDED		
Revised w/1972/photo	July 1974 SEPT.	<u>SUPERSEDED</u>		
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 FOOTNOTE, PAGE 19 AND "SUMMARY", LAST PARAGRAPH, PAGE 7

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

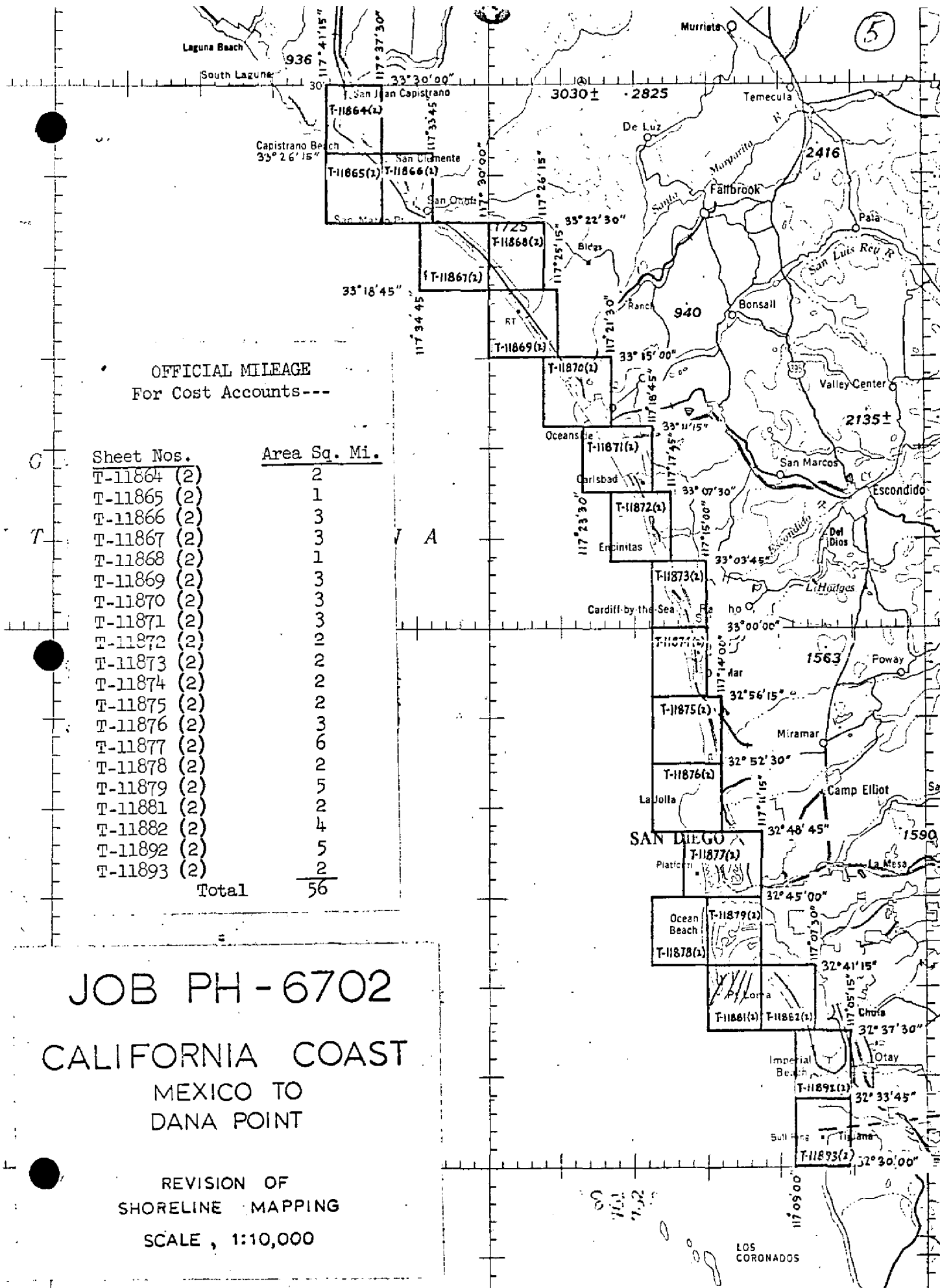
1. ☐ BRIDGING PHOTOGRAPHS; ☐ DUPLICATE BRIDGING REPORT; ☐ COMPUTER READOUTS.
2. ☐ CONTROL STATION IDENTIFICATION CARDS; ☐ FORM NOS 567 SUBMITTED BY FIELD PARTIES.
3. ☐ SOURCE DATA (except for Geographic Names Report) AS LISTED IN SECTION II, NOAA FORM 76-36C.
ACCOUNT FOR EXCEPTIONS:

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



SCALE , 1:10,000

(6)

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.

Det. G. M. L. L. L. L. L.

FIELD INSPECTION REPORT

There was no field inspection prior to compilation.

(9)

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

23 August 1974

GEOGRAPHIC NAMES

FINAL NAME SHEET

Ph-6702 (Southern California Coastline)

T-11881 (2)

Ballast Point

Coronado

North Island

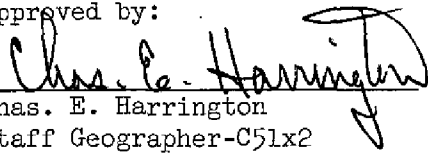
Pacific Ocean

Point Loma

Zuñiga Point

Zuñiga Shoal

Approved by:


Chas. E. Harrington
Staff Geographer-C51x2

10. 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 MLW were used in the delineation of the MLW line. The second set, in color, were taken at MLW and were used only for the delineation of the MLW line and other low water features. Both sets of photos were reticoed to the scale of the maps.

Some difficulty was encountered in defining the exact centers of the ratio photos made from the MLW 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 reticoed 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

See (14)
other
Report

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)

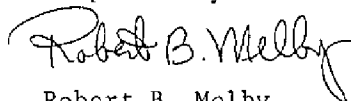
Near the northeast portion of the sheet an addition was added to the southeast of the South Bay Power Plant. Stack 1963 (NW 1 of 2) is now (NW 1 of 3). A tank in question is still in place, but it is somewhat overshadowed by a newer and larger one constructed to the west. See Chula Vista SDG&E Co. W. 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
Chief, Field Unit, PMC

ADDENDUM

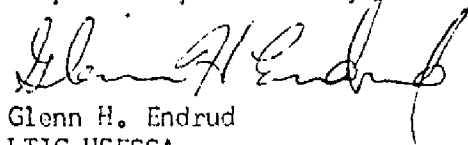
to

FIELD EDIT REPORT
February 1970
Project PH-6702

submitted by Robert B. Melby

This addendum to R. B. Melby's Field Edit Report of February 1970 is submitted because of hydrographic location and verification of kelp beds. The area concerned is that part of maps T-11876, T-11877, T-11878 covered by boat sheets H-9105, H-9106, H-9107 (DAVIDSON 1970). The kelp beds have been traced from the boat sheet onto the ozalids and are delineated by blue pencil. A reported submerged rock on T-11881 at $32^{\circ}40.3'N$, $117^{\circ}14.9'W$ was also investigated. A search was made at low tide by looking for evidence of breakers or shoaling with negative results. A development of the area was also run using DA-1. A sounding volume, fathogram and development overlay are included which contain the results of this work. One-half of a foot should be added to the soundings for the velocity-draft correction. The development overlay was made using predicted tides for Pt. Loma. No evidence of a submerged rock was found. Visual inspection of the area by the launch also showed no evidence of a rock. It is suggested that the symbol be deleted from the map.

Respectfully submitted,


Glenn H. Endrud
LTJG USESSA

FIELD EDIT REPORT
OPR-411
Southern California
March-April 1970

INTRODUCTION

Field edit reports are attached for the following maps:

T-11869	T-11872
T-11870	T-11873
T-11871	T-11874

An addendum to R. B. Melby's Field Edit Report of February 1970 is also attached for the following maps: *See page 17*

T-11876	T-11878
T-11877	<u>T-11881</u>

Field photographs and copies of the field edit ozalids were taken into the field. The mean high water line was verified by visual inspection of the shoreline and ozalids in the field, paced distances from photo-identifiable objects, and sextant fixes.

Notes have been made in violet ink on the field photographs and have been cross-referenced on the ozalids by photograph number. Answers to specific questions on the ozalid have been written on the ozalid in blue pencil. All times are based on 120° W. meridian.

Field inspection of these maps is complete and it is recommended that they be revised in accordance with this field edit and accepted as advance manuscripts.

Copies of Form 567 Nonfloating Aids or Landmarks for Charts are attached, together with a sketch of recovered triangulation stations.

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 20A 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	March, 1972	July, 1972
T-11865	March, 1972	July, 1972
T-11866	March, 1972	July, 1972
T-11867	March, 1972	July, 1972
T-11868	March, 1972	July, 1972
T-11869	March-April 1970, March 1972	July, 1972
T-11870	Mar.-Apr. May, 1970, Dec. 1971	July, 1972
T-11871	Mar.-Apr. May, 1970, Dec. 1971	July, 1972
T-11872	March-April, 1970	July, 1972
T-11873	March-April, 1970, Dec. 1971	July, 1972
T-11874	March-April, 1970,	July, 1972
T-11875	Feb. 1970	July, 1972
T-11876	Feb. Mar. Apr. 1970, Feb. 1968	Dec. 1968 and Aug. 1972
T-11877	Feb. Mar. Apr. 1970	April 1968 and July 1972
T-11878	Feb. Mar. Apr. 1970, Feb. 1968	April 1968 and July 1972
T-11879	Feb. 1970, Feb. 1968	Dec. 1968 and July 1972
T-11881	Feb. 1970, Feb. 1968	Dec. 1968 and July 1972 *
T-11892	Feb. 1970, Feb. 1968	May 1967, Dec. 1968 Aug. 1972
T-11893	Feb. 1970, Feb. 1968	May 1967, Dec. 1968 Aug. 1972

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.

* FOR SOME JOB MAPS, THE RESULT OF FIELD EDIT WORK ACCOMPLISHED AS SEPARATE OPERATIONS (DIFFERENT YEARS) HAVE BEEN SHOWN ON A COMMON FIELD EDIT SHEET. ALL INDIVIDUAL NOTES ON THE AVAILABLE SHEET FOR THIS MAP REFER TO 1970. ONE GENERAL NOTE INDICATES WORK ACCOMPLISHED DURING 1968. REFER TO PAGES 13 THROUGH 17 FOR FIELD EDIT REPORTS COVERING SEPARATE FIELD EDIT OPERATIONS IN 1970. THERE ARE LANDMARKS & AIDS SHOWN ON THE MAP. ALTHOUGH THE FIELD EDIT REPORTS (1970) INDICATE SUBMISSION OF FORMS FOR THESE OBJECTS, NO COPIES WERE FOUND AT THE ROCKVILLE OFFICE. EXAMINATION OF JOB DATA DURING

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)

20 A

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 Mok
2/19/69

REVIEW REPORT

T-11881(2)

October, 1974

61. GENERAL STATEMENT:

See Summary which is included in the Descriptive Report.

Breakers predominate the ocean side of Point Loma.

The Point Loma ocean shoreline is inherently stable. Limited changes in the Ft. Rosecrans area is due to land fill since the last survey.

62. COMPARISON WITH REGISTERED SURVEYS:

Comparison was made with two registered prior surveys; T-11881, compiled with 1960 photography at 1:10,000 scale and T-5373, compiled with 1933 and 1934 photography, at 1:10,000 scale. The shoreline of North Island is radically changed. See paragraph 61 in regards to the Ft. Rosecrans area. The three maps show differences in the extent of the ledges along the Point Loma shoreline. New infra-red MLLW photography of the area was acquired in 1972. Field edit of the project was completed in 1970. Ledge limits shown on this map are strictly the result of office interpretation of the new 1972 infra-red photography.

T-11881(2) supersedes the aforementioned registered surveys and should be used for nautical chart construction.

63. COMPARISON WITH MAPS OF OTHER AGENCIES:

Comparison was made with U.S.G.S. Quadrangle Point Loma, Calif., 1967 at 1:24,000 scale. There is good general agreement.

64. COMPARISON WITH CONTEMPORARY HYDROGRAPHIC SURVEYS:

Comparison was made with Registered Hydro-survey No.

(22)

14-8978. There is a difference in the MHW Line and the MLLW line along the south shore of North Island. The 1972 *infra red* photography shows a considerable amount of sand deposition in this area.

65. COMPARISON WITH NAUTICAL CHARTS:

Comparison was made with charts, 5105, June 16, 1973 at 1:12,000 scale and 5107, May 11, 1974 at 1:20,000 scale. The charts and mapuscript are in good general agreement. The wreck at about 32° 41' Lat. and 117° 14' Long. is not visible on the 1972 MLLW infra-red photography.

66. ADEQUACY OF RESULTS AND FUTURE SURVEYS:

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

Reviewed by:

Bernard Kurs
Bernard Kurs
Cartographer

Approved for forwarding:

Victor E. Serena
Victor E. Serena
Chief, Photogrammetric Branch, AMC

Approved:

A. K. Hays
Chief, Photogrammetric Branch

Wesley V. Hull
Chief, Coastal Mapping Div.