

11893(2)

11893(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-11893(2)
Classification No. FIELD EDITED MAP * SEE BELOW	Edition No. 2
LOCALITY	
State	California
General Locality	Pacific Ocean Coastline
Locality	Tia Juana River
1970 TO 1974 1966 TO 1972	
REGISTRY IN ARCHIVES	
DATE	

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

* 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 TP-11893

DESCRIPTIVE REPORT - DATA RECORD

☐ ORIGINAL

MAP EDITION NO. ()

☐ RESURVEY

MAP CLASS

☒ REVISED

JOB PH- 6702

PHOTOGRAMMETRIC OFFICE

Atlantic Marine Center

LAST PRECEDING MAP EDITION

TYPE OF SURVEY

JOB PH- 6011

☒ ORIGINALMAP CLASS FIELD EDITED☐ RESURVEY

SURVEY DATES:

☐ REVISED1960 TO 1969

OFFICER-IN-CHARGE

Alfred C. Holmes, Director

I. INSTRUCTIONS DATED

1. OFFICE

Revision Compilation 8/23/66
Revision Compilation Amend #1 12/8/66
Revision Compilation Amend #2 2/17/67
Revision Compilation Amend #3 12/7/67
Revision Compilation Amend #4 8/10/72

2. FIELD

FIELD EDIT, dated Sept. 2, 1969
FIELD-SUPP. 1, dated Feb. 25, 1970
FIELD EDIT INSTRUCTIONS IN-
CLUDED IN OPR (HYDRO) IN-
STRUCTIONS

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 C. Bishop N.A. N.A. K. Boyle C. Bishop	Dec. 1966 Dec. 1966 Dec. 1966 Jan. 1967
5. OFFICE INSPECTION PRIOR TO FIELD EDIT	BY	C. Bishop	Jan. 1967
6. APPLICATION OF FIELD EDIT DATA	BY	See below * K. Maki(2/68) R. White	Aug. 1972
	CHECKED BY	C. Blood	Aug. 1972
7. COMPILATION SECTION REVIEW	BY	C. Blood	Aug. 1972
8. FINAL REVIEW	BY	Bernard Kurs **	Sept. 1974
9. DATA FORWARDED TO PHOTOGRAMMETRIC BRANCH	BY	B. Kurs	Aug. 1974
10. DATA EXAMINED IN PHOTOGRAMMETRIC BRANCH	BY	S. Blankenhake	Apr. 1975
11. MAP REGISTERED - COASTAL SURVEY SECTION	BY	R. Carter	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 ZONE 8th MERIDIAN 120th		<input checked="" type="checkbox"/> STANDARD <input type="checkbox"/> DAYLIGHT
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						
NUMBER AND TYPE	DATE	TIME (Mean)	SCALE	STAGE OF TIDE		
66S-47405-47415	8/7/66	13:11 PST	1:30,000	0.3 ft. below MHW		
66S(c)-4617A-4618A	8/7/66		1:20,000			
72+L-2490, 2491	3/23/72	13:22 PST	1:20,000	MLLW (+0.2 ft)		

REMARKS TIDE STATION FOR 1972 PHOTOGRAPHS - OCEAN SIDE, CALIF.

* 1966 PHOTOGRAPHS USED IN FIRST REVISION ACTIVITY (CLASS III MAP HANDUSE, STAGE)

2. SOURCE OF MEAN HIGH-WATER LINE:

1:20,000 scale infrared photography, dated - Aug. 7, 1966
NOTE: Line office interpreted subsequent to field edit.

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

1:20,000 color photography, dated - Aug. 7, 1966
1:20,000 infra-red photography, dated - Mar. 23, 1972
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 T-11892	EAST No survey	SOUTH No survey	WEST No survey
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REMARKS

HISTORY OF FIELD OPERATIONS

I. ☐ FIELD INSPECTION OPERATION☒ FIELD EDIT OPERATION

OPERATION	NAME	DATE
1. CHIEF OF FIELD PARTY	R.E. Moses	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 None	
	LOCATED (Field Methods) BY None	
	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	Feb. 1970
7. BOUNDARIES AND LIMITS	SURVEYED OR IDENTIFIED BY None	

II. SOURCE DATA

1. HORIZONTAL CONTROL IDENTIFIED

None

2. VERTICAL CONTROL IDENTIFIED

PHOTO NUMBER	STATION NAME	PHOTO NUMBER	STATION DESIGNATION

3. PHOTO NUMBERS (Clarification of details)

66S(C)4618A

4. LANDMARKS AND AIDS TO NAVIGATION IDENTIFIED

None

PHOTO NUMBER	OBJECT NAME	PHOTO NUMBER	OBJECT NAME

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

7. SUPPLEMENTAL MAPS AND PLANS

None

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

Field Edit Ozalid

REPORT FOR APPLICATION
FOUND - SEE PAGE 20AU. S. DEPARTMENT OF COMMERCE
NATIONAL OCEANIC AND ATMOSPHERIC ADMINISTRATION

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	
Field Edit Applied (1967)	May, 1968	Superseded		
Feb. 1970 Field Edit Applied	Aug. 1972	REDESIGNATED "2ND MAP EDITION, SEPT 1969" SUPERSEDED		
ELLW LINES MLLW Revised (1972 PHOTOS)	Aug. 1974	SUPERSEDED		
Final Review	Sept. 1974			

II. LANDMARKS AND AIDS TO NAVIGATION (No Objects)

1. REPORTS TO MARINE CHART DIVISION, NAUTICAL DATA BRANCH

NUMBER	CHART LETTER NUMBER ASSIGNED	DATE FORWARDED	REMARKS

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 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	

OFFICIAL MILEAGE
For Cost Accounts---

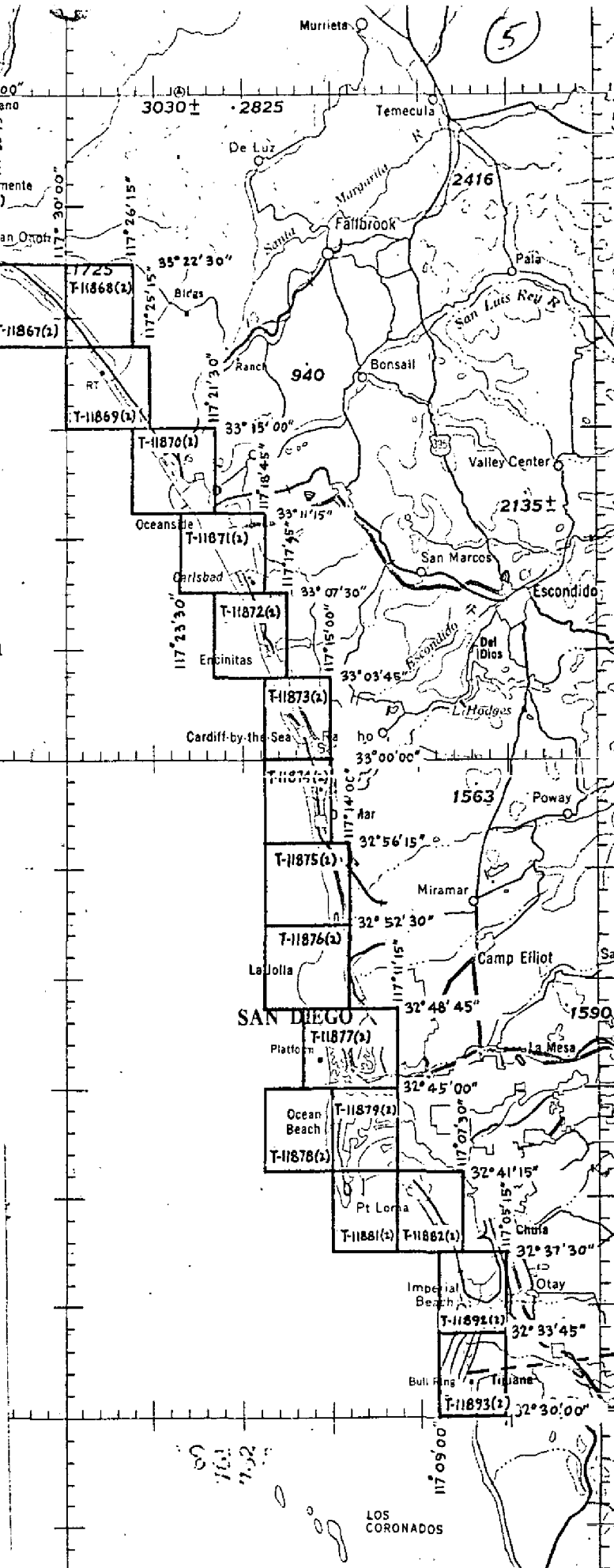
Sheet Nos.	Area Sq. Mi.
T-11864 (2)	2
T-11865 (2)	1
T-11866 (2)	3
T-11867 (2)	3
T-11868 (2)	1
T-11869 (2)	3
T-11870 (2)	3
T-11871 (2)	3
T-11872 (2)	2
T-11873 (2)	2
T-11874 (2)	2
T-11875 (2)	2
T-11876 (2)	3
T-11877 (2)	6
T-11878 (2)	2
T-11879 (2)	5
T-11881 (2)	2
T-11882 (2)	4
T-11892 (2)	5
T-11893 (2)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

JOB PH - 6702

CALIFORNIA COAST
MEXICO TO
DANA POINT

REVISION OF
SHORELINE MAPPING

SCALE, 1:10,000



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 site. 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.

At. Elmhurst

FIELD INSPECTION REPORT

Imperial Beach
San Diego, California

Project 21033
OPR 411

USC&GS Ship PATHFINDER

G.L. Short, CDR., Comdg.

MANUSCRIPTS:

T-11892 and T-11893.

AERIAL FIELD INSPECTION:

Areas inspected were as follows:
manuscript numbers T-11892 and T-11892,
from the Mexican-United States Border to
the south of Coronado Heights.

The area is primarily a fine sand beach
with little vegetation. Only one river outlet,
the Tia Juana River outlet, exists and it is
subject to frequent change with each tide.
The shoreline that was not beach area was salt
evaporator pond area. They are constructed,
dirt and cement dykes.

The area was inspected by walking the
shoreline. The salt evaporator ponds were verified
by conference with the manager of the same.

The quality of the photographs was excellent.

HORIZONTAL CONTROL:

The following triangulation stations were
recovered:

CHULA VISTA SDG&E SOUTH BAY PLANT SOUTH
EAST STACK

USN TORPEDO RANGE 12,000 YARD MARK 1934
USN TORPEDO RANGE 10 000 YARD BEACON 1934
RAYMEX
BOUNDARY MONUMENT

The station, WASTE 1933, was not searched
for.

VERTICAL CONTROL:

None recovered or established

CONTOURS AND DRAINAGE:

No contouring was attempted. The primary
drainage feature was the Tia Juana River.

1 (9)

WOODLAND COVER:

Wooded areas do not exist, only grassy areas.

SHORELINE AND ALONGSHORE FEATURES:

Measurements were made to the high water line and the storm water line and are indicated on photographs USC&GS 7 AUG 66S4615 A and USC&GS 7 AUG 66S4618 A. No attempt was made to delineate the low water line.

OFFSHORE FEATURES:

No offshore features exist.

BOUNDARIES, MONUMENTS AND LINES:

The Mexican-United States Border Monument exists as shown on manuscript number T-11893.

OTHER CONTROL:

No other control was established except approximate and temporary calibration control.

CULTURAL FEATURES:

The area includes the city of Imperial Beach, numerous small cottages, motels and apartment buildings. The Imperial Beach Fishing Pier is a prominent feature whose construction is correct as indicated on manuscript T-11892.

The San Diego Gas and Electric Tank (LPG) is a very prominent feature and has its dimensions enclosed on manuscript number T-11892.

Two rock groins extend from the shore line at the north end of the city of Imperial Beach. They are correctly plotted on manuscript number T-11892.

A group of pilings exist on the shoreline west of triangulation station RAYMEX. Their position is described on the note attached to manuscript number T-11893.

The salt evaporator ponds are as shown on manuscript number T-11892. A dredged channel exists and is delineated on photograph USC&GS 7 AUG 66S4624 A.

20 12 B (10)

The Naval Radio Communication Facility,
Imperial Beach, is a circular antenna structure
and is a completed structure.

Respectfully submitted,

Gary L. Boyack
Gary L. Boyack
ENS., USESSA

Approved and forwarded

G.L. Short
CDR., USESSA
Commanding Officer Ship PATHFINDER

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

(12)

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

A9. NOTES FOR THE INTERCOMPARISON

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

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

Some difficulty was encountered in defining the exact centers of the ratio photos made from the MLLW 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 ratioed 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.

23 August 1974

GEOGRAPHIC NAMES

FINAL NAME SHEET

Ph-6702 (Southern California Coastline)

T-11893 (2)

Baja California

California

Mexico

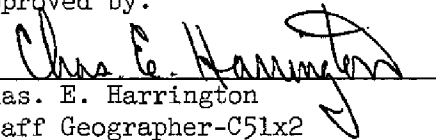
Pacific Ocean

Ream Field

Tia Juana River

United States

Approved by:


Chas. E. Harrington
Staff Geographer-C51x2

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)

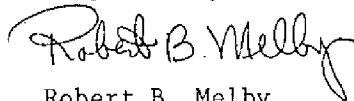
Near the northeast portion of the sheet an addition was added to the southeast of the South Bay Power Plant. Stack 1963 (NW 1 of 2) is now (NW 1 of 3). A tank in question is still in place, but it is somewhat overshadowed by a newer and larger one constructed to the west. See Chula Vista SDG&E Co. W.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

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.

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

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.

~~NO RECORDS OF A FIELD EDIT IN 1968~~
WERE FOUND. IT IS BELIEVED THAT THE
FIELD INSPECTION DATA OF 1967 WAS
APPLIED IN THE NORFOLK OFFICE.

~~CORRECTION - SEE PAGE 20A~~

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

20A

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. Mark
2/19/69

REVIEW REPORT

T-11893(2)

Sept., 1974

61. GENERAL STATEMENT:

See Summary which is included in the Descriptive Report.

62. COMPARISON WITH REGISTERED SURVEYS:

Comparison was made with two registered prior surveys, T-11893 compiled with 1960 photography and T-5371 compiled with 1933 photography. Both are at 1:10,000 scale. Neither survey showed any significant differences except at the mouth of the Tia Juana River. This area is appropriately covered by a note on T-11893(2), (This area subject to frequent change).

T-11893(2) supersedes these prior surveys for chart construction.

63. COMPARISON WITH MAPS OF OTHER AGENCIES:

Comparison was made with U.S. Geological Survey Quadrangle Imperial Beach, Calif., 1967 at 1:24,000 scale. There are no significant differences.

64. COMPARISON WITH CONTEMPORARY HYDROGRAPHIC SURVEYS:

A comparison was made with Boat Sheet H-9105 at 1:10,000 scale dated 1970. There are differences in the MHW line. The shoreline of this manuscript should be used since it is more contemporary.

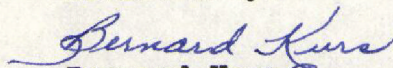
65. COMPARISON WITH NAUTICAL CHARTS:

A visual comparison was made with Chart 5060 at 1:10,000 scale dated Dec. 29, 1973. There is general agreement.

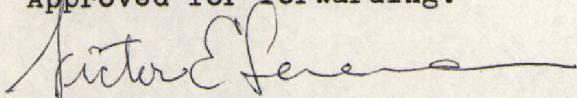
66. ADEQUACY OF RESULTS AND FUTURE SURVEYS:

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

Reviewed by:

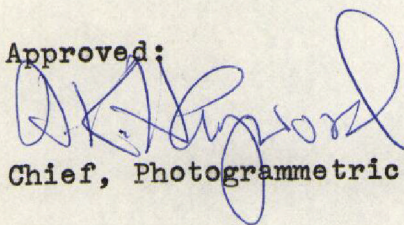

Bernard Kurs
Cartographer

Approved for forwarding:

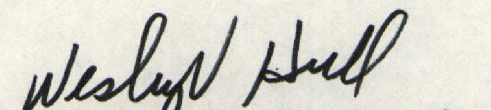


Victor E. Serena
Chief, Photogrammetric Branch, AMC

Approved:



Chief, Photogrammetric Branch


Chief, Coastal Mapping Div.