

11871(2)

11871(2)

NOAA FORM 76-35	
U.S. DEPARTMENT OF COMMERCE NATIONAL OCEANIC AND ATMOSPHERIC ADMINISTRATION NATIONAL OCEAN SURVEY	
DESCRIPTIVE REPORT	
Type of Survey <i>Shoreline (Revised)</i>	
Job No. <i>PH-6702</i>	Map No. <i>T-11871(2)</i>
Classification No.	Edition No. <i>2</i>
<i>FIELD EDITED MAP * see below</i>	
LOCALITY	
State <i>California</i>	
General Locality <i>Pacific Ocean Coastline</i>	
Locality <i>Carlsbad</i>	
<hr/> 1970 TO 1975 <hr/> <i>1966 TO 1972</i>	
REGISTRY IN ARCHIVES	
DATE	

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

* Mean high water and mean lower low water line delineated from office interpretation of the photographs. Scope of map revision outlined in SUMMARY.

DESCRIPTIVE REPORT - DATA RECORD

- ORIGINAL
- RESURVEY
- REVISED

MAP EDITION NO. (2)
MAP CLASS
JOB PH- 6702

PHOTOGRAMMETRIC OFFICE

Atlantic Marine Center

OFFICER-IN-CHARGE

Alfred C. Holmes, Director

LAST PRECEDING MAP EDITION

- ORIGINAL
- RESURVEY
- REVISED

JOB PH- 6011
MAP CLASS **FIELD EDITED**
SURVEY DATES:
1960 TO 1962

I. INSTRUCTIONS DATED

I. OFFICE	2. FIELD
Revision Compilation 8/23/66	FIELD EDIT, dated sept. 2, 1969 FIELD-SUPP. 1, dated Feb. 25, 1972 FIELD EDIT INSTRUCTIONS IN OPR(HYDRO) INSTRUCTIONS
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	
" " " #5 9/23/74	

II. DATUMS

1. HORIZONTAL: <input checked="" type="checkbox"/> 1927 NORTH AMERICAN	OTHER (Specify)
2. VERTICAL: <input checked="" type="checkbox"/> MEAN HIGH-WATER <input type="checkbox"/> MEAN LOW-WATER <input checked="" type="checkbox"/> MEAN LOWER LOW-WATER <input type="checkbox"/> 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 BY METHOD: None LANDMARKS AND AIDS BY	See Project Completion Report	Mar, 1968
2. CONTROL AND BRIDGE POINTS PLOTTED BY METHOD: None CHECKED BY	See Project Completion Report	Mar, 1968
3. STEREOSCOPIC INSTRUMENT COMPILATION PLANIMETRY BY INSTRUMENT: None CHECKED BY SCALE: CHECKED BY	NA NA NA NA	
4. MANUSCRIPT DELINEATION PLANIMETRY BY METHOD: Graphic CHECKED BY SCALE: 1:10,000 HYDRO SUPPORT DATA BY CHECKED BY	B. Wilson L. Graves NA NA B. Wilson L. Graves	Jan, 1968 Mar, 1968 Jan, 1968 Mar, 1968
5. OFFICE INSPECTION PRIOR TO FIELD EDIT BY	L. Graves	Mar, 1968
6. APPLICATION OF FIELD EDIT DATA BY	R. White	Jul, 1972
CHECKED BY	C. Blood	Jul, 1972
7. COMPILATION SECTION REVIEW BY	C. Blood	Jul, 1972
8. FINAL REVIEW BY	Bernard Kurs, AMC *	Jan, 1975
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

* Refer to SUMMARY, page 6, concerning revision work by B. Kurs in 1974-1975

2

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"/> PREDICTED TIDES (1966 Photography) * <input type="checkbox"/> REFERENCE STATION RECORDS <input checked="" type="checkbox"/> TIDE CONTROLLED PHOTOGRAPHY (SEE REMARKS) (1972 PHOTOGRAPHY)				8th	
				MERIDIAN	
				120th	
				<input type="checkbox"/> DAYLIGHT	
NUMBER AND TYPE	DATE	TIME	SCALE	STAGE OF TIDE	
66S-4700I - 4702I	8/7/66	13:11 PST	1:30,000	0.3 ft. below MHW	
66S-4709I	8/7/66	13:11 PST	1:30,000	0.3 ft. below MHW	
66S(C)-4527A-4531A	8/7/66		1:20,000		
72L-2436-2440	3/23/72	13:00 PST	1:20,000	MLLW (0.0ft.)	

REMARKS Tide station for 1972 photography - Occoaside Calif.
* The 1966 photography used in the first revision activity (Class III manuscript stage)

2. SOURCE OF MEAN HIGH-WATER LINE:

²⁰
1:30,000 scale infrared photography, dated Aug. 7, 1966 (listed above) ^{3/23/72}
Note: Line office interpreted subsequent to field edit.

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

infrared ^{3/23/72}
1:20,000 color photography, dated Aug. 7, 1966 (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-11870	No survey	T-11872	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	Mar, Apr, 1970
2. HORIZONTAL CONTROL	RECOVERED BY R.E. Moses, CDR ESTABLISHED BY None PRE-MARKED OR IDENTIFIED BY None	Apr, 1970
3. VERTICAL CONTROL	RECOVERED BY NA ESTABLISHED BY NA PRE-MARKED OR IDENTIFIED BY NA	
4. LANDMARKS AND AIDS TO NAVIGATION	RECOVERED (Triangulation Stations) BY J.R. Faris * See below LOCATED (Field Methods) BY None IDENTIFIED BY None	Dec, 1971
5. GEOGRAPHIC NAMES INVESTIGATION	TYPE OF INVESTIGATION <input type="checkbox"/> COMPLETE <input type="checkbox"/> SPECIFIC NAMES ONLY <input checked="" type="checkbox"/> NO INVESTIGATION	* refer to footnote, page 12
6. PHOTO INSPECTION	CLARIFICATION OF DETAILS BY W. Taguchi	Apr. 1970
7. BOUNDARIES AND LIMITS	SURVEYED OR IDENTIFIED BY None	

II. SOURCE DATA

1. HORIZONTAL CONTROL IDENTIFIED	2. VERTICAL CONTROL IDENTIFIED		
None	NA		
PHOTO NUMBER	STATION NAME	PHOTO NUMBER	STATION DESIGNATION

3. PHOTO NUMBERS (Clarification of details)
66S(C)-4527A thru 4529A and 4531A

4. LANDMARKS AND AIDS TO NAVIGATION IDENTIFIED
See footnote, page 12

PHOTO NUMBER	OBJECT NAME	PHOTO NUMBER	OBJECT NAME
Not Ident. (TRING. STA RECOV.) 1971 recoov.	STACK, Center of three.		

5. GEOGRAPHIC NAMES: REPORT NONE 6. BOUNDARY AND LIMITS: REPORT NONE

7. SUPPLEMENTAL MAPS AND PLANS

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

Field Edit Ozalid

④

RECORD OF SURVEY USE

I. MANUSCRIPT COPIES

COMPILATION STAGES			DATE MANUSCRIPT FORWARDED	
DATA COMPILED	DATE	REMARKS	MARINE CHARTS	HYDRO SUPPORT
Compilation Complete	Dec. 1963	Superseded		
Shoreline Revised For Hydro	Jan. 1968	CLASS III MANUSCRIPT Designated - "RS" manuscript Superseded	Mar 1968	unknown
Apr., 1970 Field Edit Applied	Jul. 1972	REDESIGNATED - 2ND MAP EDITION SEPT 1969 Superseded CLASS I MANUSCRIPT	NONE	
Revised from 1972 photography	1974-1975	SUPERSEDED	NONE	
Final Review	Jan. 1975			

II. LANDMARKS AND AIDS TO NAVIGATION

1. REPORTS TO MARINE CHART DIVISION, NAUTICAL DATA BRANCH

NUMBER	CHART LETTER NUMBER ASSIGNED	DATE FORWARDED	REMARKS
			See Form 76-40, included as a part of this report (page 20)
			Form 567 (page 21)

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 OZALIA AND FIELD EDIT 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

Leguna Beach

South Laguna

936

Capistrano Beach

33° 26' 15"

T-11864(2)

T-11865(2)

T-11866(1)

T-11867(2)

T-11869(1)

T-11870(1)

T-11871(1)

T-11872(1)

T-11873(1)

T-11874(1)

T-11875(1)

T-11876(1)

SAN DIEGO

T-11877(1)

Ocean Beach

T-11879(2)

T-11878(1)

Pt Loma

T-11881(1)

T-11882(1)

T-11892(1)

T-11893(1)

117° 09' 00"

LOS CORDONADOS

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

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

7

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.

A. H. [Signature]

8

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. *

* Manuscripts designated as "RS" surveys at that time.

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

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	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 * see below
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.

* Field Edit Report dated 1970. 1971 date applies to subsequent control recovery. One station was a landmark. Refer to Form 76-40 included in this Descriptive Report. - Also Form 567

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

14

26 August 1974

GEOGRAPHIC NAMES

FINAL NAME SHEET

Ph-6702 (Southern California Coastline)

T-11871 (2)

Agua Hedionda Lagoon

Atchison Topeka and Santa Fe (RR)

Buena Vista Lagoon

Carlsbad

Carlsbad Beach State Park

Farr

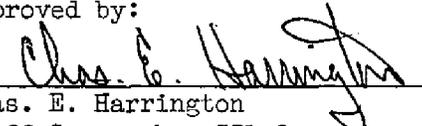
Gulf of Santa Catalina

Oceanside

Pacific Ocean

South Oceanside

Approved by:


Chas. E. Harrington
Staff Geographer-C51x2

49. 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 MHW were used in the delineation of the MHW 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 reticled 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 reticled 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
MAP T-11871
Southern California
OPR-411
April 1970

The investigation was done by Lt(jg.) Taguchi. Field work was done on foot from a vehicle.

METHOD

A copy of the field edit ozalid and field photographs were taken into the field. All verification was done by visual inspection. The MHWL was determined by pacing from photo-identifiable objects. Specific items of question, as listed on the field edit ozalid, were visited for verification.

Notes dealing with questionable items have been made in blue on the field edit ozalid and in violet on the field photographs which are cross-referenced on the field edit ozalid by circling the photograph numbers. Notes are on the following photographs:

- 66 S 4527
- 66 S 4528
- 66 S 4529
- 66 S 4531

ADEQUACY OF COMPILATION

Compilation of the map is good. MHWL determinations were difficult in the majority of the area because both residential areas and high bluffs made the beach inaccessible.

RECOMMENDATIONS

It is recommended that this manuscript be revised in accordance with the notes on the ozalid and photographs and that the map be accepted as an

Field Edit Report: Map T-11871
Page two

17

advance manuscript.

Foul area delineations were approximated from visual observations from shore; therefore these should be compared with future delineations from inshore hydrography of this area.

Respectfully submitted,

Warren K. Taguchi

Warren Taguchi
Lt(jg.), USESSA

REVIEW REPORT

T-11871(2)

January, 1975

61. GENERAL STATEMENT:

See Summary which is included in the Descriptive Report.

62. COMPARISON WITH REGISTERED SURVEYS:

Comparison was made with two prior registered surveys. Both are at 1:10,000 scale. T-5412 was compiled from 1933 photography. T-11871 was compiled from 1960 photography. T-5412 has significant shoreline changes in the Bueno Vista Lagoon and at the entrance to Aqua Hedionda Lagoon.

T-11871(2) shows two rock jetties leading to the entrance of the Aqua Hedionda Lagoon, changing the water currents and shoreline. An examination of the 1972 photography shows a slight buildup of grass in water and marsh land buildup in both above mentioned lagoons.

T-11871(2) supersedes both prior registered surveys and should be used for nautical chart construction.

63. COMPARISON WITH MAPS OF OTHER AGENCIES:

A visual comparison was made with U.S.G.S. Quadrangle San Luis Rey, California, dated 1968, at 1:24,000 scale. There are no significant differences.

64. COMPARISON WITH CONTEMPORARY HYDROGRAPHIC SURVEYS:

Comparison was made with Boat Sheet H-9250. The Boat Sheet is dated 1971 and at 1:10,000 scale. There is good agreement.

65. COMPARISON WITH NAUTICAL CHARTS:

A visual comparison was made with chart 5101 at 1:234, 270. The scale of the chart precludes any significant comparison.

66. ADEQUACY OF RESULTS AND FUTURE SURVEYS:

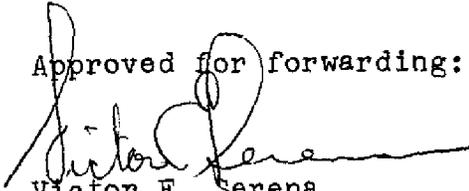
This survey conforms to project instructions and meets the National Standards of Map Accuracy. Refer to Summary, page 6.

Reviewed by:



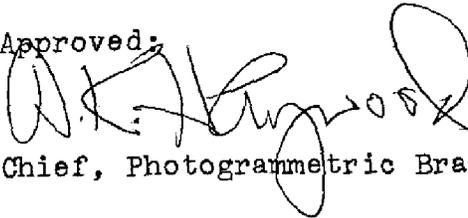
Bernard Kurs
Cartographer

Approved for forwarding:



Victor E. Serena
Chief, Photogrammetric Branch, AMC

Approved:



Chief, Photogrammetric Branch JB



Chief, Coastal Mapping Div.

RESPONSIBLE PERSONNEL		INSTRUCTIONS FOR METHOD AND DATE OF LOCATION SECTION	
TYPE OF ACTION	NAME	TITLE	
1. Objects inspected from seaward	J. Richard Paris, ENS. NOAA	FIELD INSPECTOR	<input checked="" type="checkbox"/> FIELD INSPECTOR <input type="checkbox"/> FIELD EDITOR
2. Positions determined and/or verified	J. Richard Paris, ENS. NOAA	FIELD INSPECTOR	FIELD INSPECTOR
3. Forms originated by Quality Control and Review Group and final review activities		FIELD EDITOR	FIELD EDITOR
		COMPILER	COMPILER
		REVIEWER	REVIEWER
		QUALITY CONTROL AND REVIEW GROUP REPRESENTATIVE	QUALITY CONTROL AND REVIEW GROUP REPRESENTATIVE

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 AND

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

FIELD EDIT

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.

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

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

NONFLOATING AIDS OR LANDMARKS FOR CHARTS

TO BE CHARTED
~~TO BE REVISED~~
~~TO BE DELETED~~

STRIKE OUT TWO

15 March 1970

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

The positions given have been checked after listing by B.W.F., G.H.E.

Ray E. Mose
CDR RAY E. MOSES

Chief of Party.

CHARTING NAME	STATE	DESCRIPTION	SIGNAL NAME	POSITION				DATUM	METHOD LOCATION AND SURVEY No.	DATE OF LOCATION	HARBOR CHART	INSHORE CHART	OFFSHORE CHART	CHARTS AFFECTED
				LATITUDE*	LONGITUDE*	D.M. METERS	D.P. METERS							
STANDPIPE	California	Blue-green standpipe approx. 25 ft. high (of questionable value). Takes place of CENTER OF DOUBLE WATER TANKS...1933 which is destroyed		32 57	117 15	10.94	20.91	NA 1927	Hydro Sheet ES T-11874	1970				
STANDPIPE		78' standpipe located <i>located</i> near <i>near</i> the <i>the</i> water <i>water</i> tanks <i>tanks</i>		33 03	117 16	42.43	51.96	NA 1927	Photo T-11873	1970				
STANDPIPE		Twin 50' dia., 45' high tan colored tanks (NOTE: OFF LIGHT STRUCTURE HAS CONTRASTORY LIGHT SIGNALS OFF FIELD LIGHT SIGNAL) etc.		33 06	117 17	42.65	11.96	NA 1927	Photo T-11872	1970	X		5101	
STACK		DEL MAR STACK 1933		32 57	117 16	42.161	00.654	NA 1927	TRI.	1933	X		5060	
STANDPIPE		40' standpipe (off E. LIGHT) not plotted acc.		33 07	117 18	47.28	27.08	NA 1927	Photo T-11871	1970	X		5101	

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.