ORIGINAL

11868 (2)

11868 (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. ...PH6702..... *Map No.* T-11868(2

Classification No. *Edition No.* ...2.....

FIELD EDITED MAP * See below

LOCALITY

State ..... California .....

General Locality ..... Pacific Ocean Coastline ...

Locality ..Don.....

.....

~~1972 TO 1975~~

1966 TO 1972

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.

(1)

NOAA FORM 76-36A (3-72) — U. S. DEPARTMENT OF COMMERCE, NATIONAL OCEANIC AND ATMOSPHERIC ADMIN.

DESCRIPTIVE REPORT - DATA RECORD

TYPE OF SURVEY: ☐ ORIGINAL ☐ RESURVEY ☒ REVISED

SURVEY T-11868(2)

MAP EDITION NO. (2)

MAP CLASS

JOB PH- 6702

PHOTOGRAMMETRIC OFFICE: Atlantic Marine Center

OFFICER-IN-CHARGE: Alfred C. Holmes, Director

LAST PRECEEDING MAP EDITION

TYPE OF SURVEY: ☒ ORIGINAL ☐ RESURVEY ☐ REVISED

JOB PH- 6011

MAP CLASS FIELD EDITED

SURVEY DATES: 1960 TO 1962

I. INSTRUCTIONS DATED

1. OFFICE		2. FIELD
Revision Compilation	8/23/66	FIELD EDIT, dated Sept 2, 1969
Revision Compilation Amend #1	12/8/66	FIELD - SUPP. 1, dated Feb. 25, 1972
Revision Compilation Amend #2	2/17/67	FIELD EDIT INSTRUCTIONS INCLUDED IN OPR (Hydro) INSTRUCTIONS
Revision Compilation Amend #3	12/7/67	
Revision Compilation Amend #4	8/10/72	
" " " #5	9/23/74	

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	BY	~~See Project Completion~~	
	LANDMARKS AND AIDS BY	~~Report.~~	Mar., 1968
2. CONTROL AND BRIDGE POINTS METHOD: None	PLOTTED BY	~~See Project Completion~~	
	CHECKED BY	~~Report~~	Mar., 1968
3. STEREOSCOPIC INSTRUMENT COMPILATION INSTRUMENT: None SCALE:	PLANIMETRY BY	NA	
	CHECKED BY	NA	
	CONTOURS BY	NA	
	CHECKED BY	NA	
4. MANUSCRIPT DELINEATION METHOD: Graphic SCALE: 1:10,000	PLANIMETRY BY	B. Wilson	Feb., 1968
	CHECKED BY	R. Pate	Feb., 1968
	CONTOURS BY	NA	
	CHECKED BY	NA	
	HYDRO SUPPORT DATA BY	B. Wilson	Feb., 1968
	CHECKED BY	R. Pate	Feb., 1968
5. OFFICE INSPECTION PRIOR TO FIELD EDIT	BY	R. Pate	Feb., 1968
6. APPLICATION OF FIELD EDIT DATA	BY	L. Neterer, Jr.	Jul., 1972
	CHECKED BY	R. White	Jul., 1972
7. COMPILATION SECTION REVIEW	BY	R. White	Jul., 1972
8. FINAL REVIEW	BY	Bernard Kurs, AMC *	Feb., 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

NOAA FORM 76-36A — SUPERSEDES FORM C&GS 181 SERIES

* U.S. G.P.O. 1972-769382/582 REG.#6

Refer to "SUMMARY", Page 6, Concerning revision work by B. Kurs in 1974 & 1975 (AMC)

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NOAA FORM 76-36B
(3-72)

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

COMPILATION SOURCES

1. COMPILATION PHOTOGRAPHY

CAMERA(S): Wild RC-8 "S"

TIDE STAGE REFERENCE
- [X] PREDICTED TIDES (1966 PHOTOGRAPHY) *
- [ ] REFERENCE STATION RECORDS
- [X] TIDE CONTROLLED PHOTOGRAPHY (See Remarks) (1972 PHOTOGRAPHY)

TYPES OF PHOTOGRAPHY LEGEND
- (C) COLOR X
- (P) PANCHROMATIC
- (I) INFRARED X

TIME REFERENCE
- ZONE: 8th — [X] STANDARD
- MERIDIAN: 120th — [ ] DAYLIGHT

NUMBER AND TYPE	DATE	TIME (mean)	SCALE	STAGE OF TIDE
66S-4679I - 4681I	8/7/66	13:11 PST	1:30,000	0.3 ft. below MHW
66S(C)4509A - 4510A	8/7/66		1:20,000	
66S(C)4542A	8/7/66		1:20,000	
72-L-2425R - 2427R	3/23/72	13:00 PST	1:20,000	MLLW (0.0 ft.)

REMARKS: TIDE STATION FOR 1972 PHOTOGRAPHY - OCEANSIDE, CALIF.
* THE 1966 PHOTOGRAPHY USED IN FIRST REVISION ACTIVITY (CLASS III Manuscript stage)

2. SOURCE OF MEAN HIGH-WATER LINE:

1:20,000 scale infrared photography, dated 3/23/72 (listed above)
Note: Line office interpreted subsequent to field edit.

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

1:20,000 infrared photography, dated 3/23/72 (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
No survey	No survey	T-11869	T-11867

REMARKS

* U.S. G.P.O. 1972-769381/568 REG.#6

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NOAA FORM 76-36C
(3-72)

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

HISTORY OF FIELD OPERATIONS

I. ☐ FIELD INSPECTION OPERATION ☒ FIELD EDIT OPERATION

OPERATION		NAME	DATE
1. CHIEF OF FIELD PARTY		G.E. Haraden, CAPT	Mar., 1972
2. HORIZONTAL CONTROL	RECOVERED BY	None	
	ESTABLISHED BY	None	
	PRE-MARKED OR IDENTIFIED BY	None	
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	None	
	LOCATED *(Field Methods)* BY	None	
	IDENTIFIED BY	None	
5. GEOGRAPHIC NAMES INVESTIGATION	TYPE OF INVESTIGATION ☐ COMPLETE ☐ SPECIFIC NAMES ONLY ☒ NO INVESTIGATION	BY	
6. PHOTO INSPECTION	CLARIFICATION OF DETAILS BY	R.B. Melby - L.L. Riggers	Mar, 1972
7. BOUNDARIES AND LIMITS	SURVEYED OR IDENTIFIED BY		

II. SOURCE DATA

1. HORIZONTAL CONTROL IDENTIFIED

None

2. VERTICAL CONTROL IDENTIFIED

NA

PHOTO NUMBER	STATION NAME	PHOTO NUMBER	STATION DESIGNATION

3. PHOTO NUMBERS *(Clarification of details)*

None

4. LANDMARKS AND AIDS TO NAVIGATION IDENTIFIED

None

PHOTO NUMBER	OBJECT NAME	PHOTO NUMBER	OBJECT NAME

5. GEOGRAPHIC NAMES: ☐ REPORT ☒ NONE

6. 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

* U.S. G.P.O. 1972-769381/567 REG.#6

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NOAA FORM 76-36D
(3-72)

U. 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
~~Compilation Complete~~	~~Nov, 1963~~	~~Superseded~~		
Shoreline Revised for Hydro	Feb, 1968	Classified "RS" Survey (Class III Manuscript) Superseded RECLASSIFICATION DATE-SEPT. 1969	April 1968	Date Unknown
Mar., 1972 Field Edit Applied	Jul, 1972	Reclassified - 2nd map edition Superseded	None	none
Revised from 1972 Photography	1974-75	Superseded	None	none
Final Review	Feb, 1975			

II. LANDMARKS AND AIDS TO NAVIGATION

1. REPORTS TO MARINE CHART DIVISION, NAUTICAL DATA BRANCH

NUMBER	CHART LETTER NUMBER ASSIGNED	DATE FORWARDED	REMARKS
			None

2. ☐ REPORT TO MARINE CHART DIVISION, COAST PILOT BRANCH. DATE FORWARDED: _____
3. ☐ REPORT TO AERONAUTICAL CHART DIVISION, AERONAUTICAL DATA SECTION. DATE FORWARDED: _____

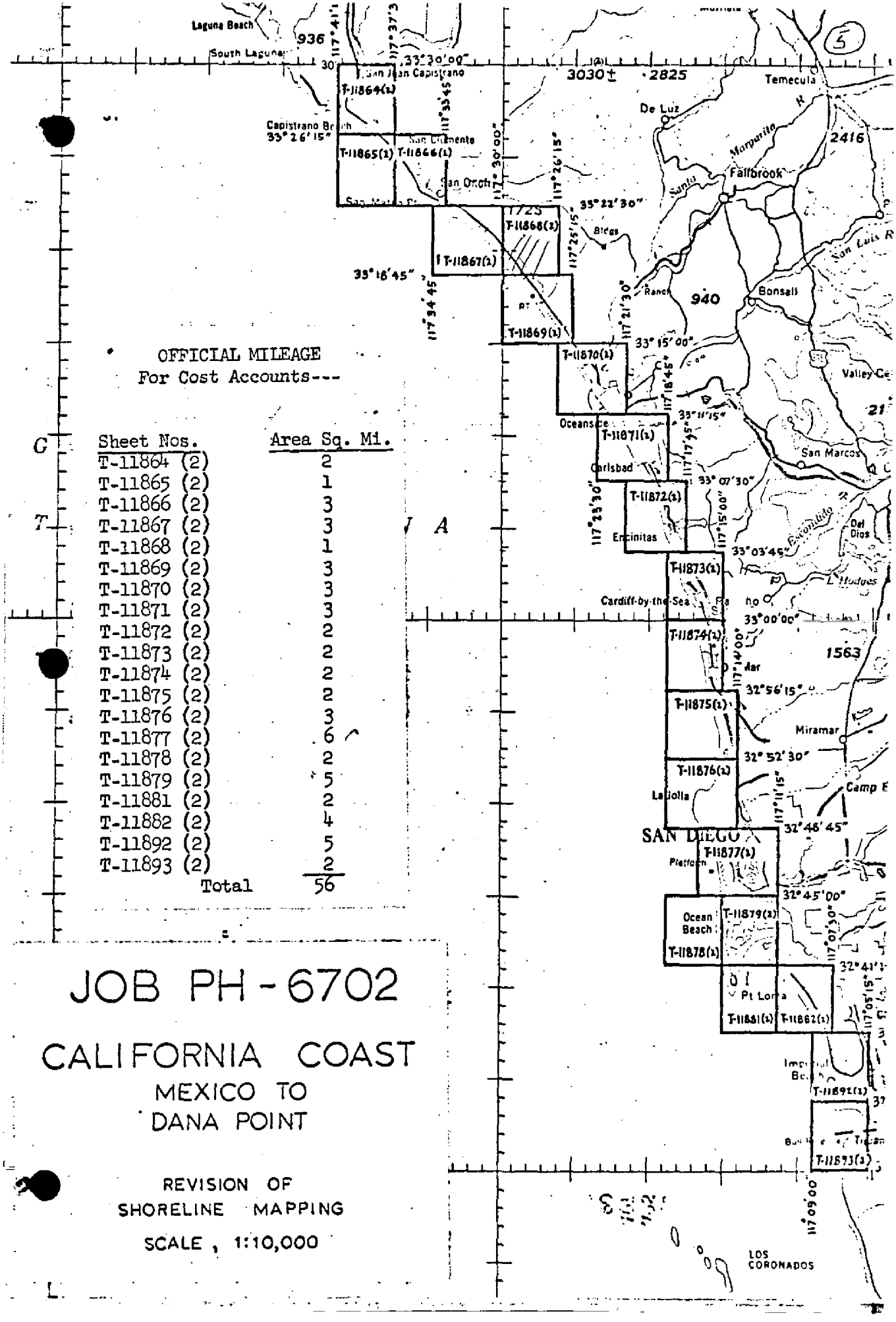
III. FEDERAL RECORDS CENTER DATA

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

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

	SURVEY NUMBER	JOB NUMBER	TYPE OF SURVEY / MAP CLASS
SECOND EDITION	TP - _____ (2)	PH - _____	☐ REVISED ☐ RESURVEY ☐ II. ☐ III. ☐ IV. ☐ V. ☐ FINAL
	DATE OF PHOTOGRAPHY	DATE OF FIELD EDIT	
THIRD EDITION	SURVEY NUMBER TP - _____ (3)	JOB NUMBER PH- _____	TYPE OF SURVEY ☐ REVISED ☐ RESURVEY MAP CLASS ☐ II. ☐ III. ☐ IV. ☐ V. ☐ FINAL
	DATE OF PHOTOGRAPHY	DATE OF FIELD EDIT	
FOURTH EDITION	SURVEY NUMBER TP - _____ (4)	JOB NUMBER PH - _____	TYPE OF SURVEY ☐ REVISED ☐ RESURVEY MAP CLASS ☐ II. ☐ III. ☐ IV. ☐ V. ☐ FINAL
	DATE OF PHOTOGRAPHY	DATE OF FIELD EDIT	

* U.S. G.P.O. 1972-769380/548 REG.#6


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
Laguna Beach
South Laguna
San Juan Capistrano
Capistrano Beach
San Clemente
San Onofre
Temecula
De Luz
Fallbrook
Bonsall
Oceanside
Carlsbad
San Marcos
Encinitas
Cardiff-by-the-Sea
Miramar
La Jolla
SAN DIEGO
Ocean Beach
Pt Loma
LOS CORONADOS
T-11864(2)
T-11865(2)
T-11866(2)
T-11867(2)
T-11868(2)
T-11869(2)
T-11870(2)
T-11871(2)
T-11872(2)
T-11873(2)
T-11874(2)
T-11875(2)
T-11876(2)
T-11877(2)
T-11878(2)
T-11879(2)
T-11881(2)
T-11882(2)
T-11892(2)
T-11893(2)

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.

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 scare or no longer in existance 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. *

* At this time all map copies submitted were designated "RS" surveys. Refer to page 6 concerning subsequent redesignation as 2nd map editions

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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

(11)

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)

THERE ARE ERRORS IN THE DATES LISTED BELOW. REFER TO THE DATA RECORD FORMS IN THE INDIVIDUAL DESCRIPTIVE REPORTS.

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.

Map No.	Date of Field Edit	Date of Application
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 ✓ OK * see below
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.

* No records exist concerning an earlier ~~ed~~ field edit of this map.

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. (APPLIED DURING 1974 AND 1975. REFER TO SUMMARY.)

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-11868 (2)

Atchison Topeka and Santa Fe (RR)

Camp Joseph H. Pendleton Naval Reservation

Don

Gulf of Santa Catalina

Approved by:

Chas. E. Harrington

Chas. E. Harrington
Staff Geographer-C51x2

(15)

FIELD EDIT REPORT

OPR-411 1972

T-11864 THRU T-11869, TP-00415

SOUTHERN CALIFORNIA COAST

DANA POINT TO OCEANSIDE

NOAA SHIP RAINIER

G.E. HARADEN, CAPT, NOAA

COMMANDING

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CONTENTS

(17)

INTRODUCTION

The enclosed field edit was accomplished primarily by Mr. R.B. Melby and Mr. L.L. Riggers 16-20 March 1972 (J.D. 076-080). Additional details seaward of the high water line were added from hydrographic surveys H-9275, H-9276, and H-9277, NOAA Ship RAINIER.

The field edit was started at Camp Pendleton north of Oceanside, California on field edit ozalid T-11869, in latitude 33° 15' 00"N, to join the field edit done by the NOAA Ship DAVIDSON in 1970. The field edit extends northward including manuscripts T-11869, T-11868, T-11867, T-11866, T-11865, T-11864, and terminates on TP-00415 in latitude 33° 30' 00"N north of Dana Point, California. All additions and corrections are noted in blue, orange, and purple on the field edit ozalids. Deletions from the ozalids are noted in green. Photos used in this edit were from color cronopaques from PH-1707 and black and white matte ratios from PH-6702.

The field edit was conducted from land with additional notes added by the hydrographer. Values given for distances from the MHWL and heights of rocks were estimated. All time references are 120°W longitude.

ADEQUACY OF COMPILATION

In general the compilation of the manuscripts was very complete. Any discrepancies are noted on the field edit ozalids. For final compilation of the manuscripts, photos from PH-6702, 1972 should be used. These will show the completed configuration of the Interstate Highway (I-5) which will appear on all of the map manuscripts edited.

DISCUSSION AND RECOMMENDATIONS

T-11869 (2)

The beach in this area is sand with scattered pebbles and stones. The majority of the beach is backed by a high bluff from 30-60 meters from the MHWL. Notes for the location of Camp Pendleton South Light and Camp

Pendleton North Light are shown on the manuscript. For further information see NOAA Form 76-40 in the appendix. The Interstate Highway (I-5) shown under construction is now complete and compilation should be taken from PH-6702, 1972. A submerged rock covered 2.6 fathoms at 1113 3/14/72 (120°W), was found in Lat. 33° 18.7' and Long 117° 29.8' and two submerged rocks, covered 3.3 fathoms at 1532 4/14/72 (120°W) were found in Lat. 33° 17.3' and Long. 117° 28.6' by the hydrographer.

T-11868(2)

The beach area is sand with scattered pebbles and stones. No kelp or dangers to navigation are in this area. Triangulation station RED WATER TANK WEST OF FLORES RR SIDING, 1933 has been removed and should be deleted from the manuscript.

T-11867(2)

The shoreline in this area is sand and gravel with intermittent boulders. The rock shown in Lat. 33° 20' 17"N, Long. 117° 30' 41"W was not found by the hydrographer or the field editor and should be deleted from the manuscript. A rock was observed in the surf zone at Lat. 33° 20' 55"N, Long. 117° 31' 40"W at 1520 on 17 March 1972 (Time Ref. 120°W). A submerged rock was located in Lat. 33° 18.7'N, Long 117° 29.8'W. A least depth of 2.6 fathoms was observed in an area of 5.0 fathoms at 1113, 14 March 1972.

The large white spherical roof of the San Onofre Nuclear Power Plant, labeled as "DOME" on the manuscript is a valuable landmark as it provides an excellent navigational aid. A small smaller circular building with a white curved roof east of the dome also provides a good landmark. This building is adequately mapped on the manuscript.

Two obstructions exist in Lat. 33° 21' 45"N, Long. 117° 33' 45"W (For reference see pre-survey review item No. 3 D.E.W. 11/10/69, or survey H-9275). These obstructions are the intake and discharge structures for the San Onofre Nuclear Power Plant. Leadline soundings were used to determine the intake least depth of 2.3 fathoms at 1005 on 19 March 1972. The intake appeared to be a covered structure in Lat. 33° 21' 43"N, Long. 117° 33' 47"W. The intake is marked by a red naviga-

tion buoy (Lighted, white, qk. Fl.). Soundings on the discharge indicated a least depth of 2.1 fathoms at 1125 on 19 March 1972. The structure is open and discharging upward causing a significant outward current from the structure in Lat. 33° 21' 48"N, Long. 117° 33' 43"W. Although the general depth in the area of the discharge structure is 4 fathoms, the fathogram indicates that the discharge itself comes from a depth of 8.4 fathoms, being the depth at which the discharge carrier is buried. The structure is marked by a white navigation buoy with a red horizontal stripe. (See NOAA Form 76-40 in Appendix).

The ledge areas indicated on T-11867 in Lat. 33° 22' 20"N do not exist and should be deleted from the manuscript. These are stone and pebble patches in the sand.

The area south of the San Onofre Nuclear Power Plant is now the San Onofre State Beach. For further information contact:

California Dept. of Parks and Recreation
P.O. Box 2390
Sacramento, California 95811

ATTN: Mr. George Rackelman

T-11866 (2)

The foreshore area is made up of sand and pebbles. Kelp and foul areas exist as indicated on the field edit ozalid. Triangulation station WATER TANK 3/4 MILE NORTH OF SAN ONOFRE RR DEPOT, 1933 has been removed and should be deleted from the manuscript. An area of kelp at Lat. 33° 22.8' and Long. 117° 36.3' has been delineated on the manuscript. Kelp in this area cannot be seen on the photograph.

T-11865 (2)

The beach in this area is made up of sand and pebbles. Kelp and rocks are as shown on the field edit ozalid. For rock heights see photo 4498.

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T-11864, TP-00415

The foreshore area on these sheets is made up of sand, gravel and boulders. Several triangulation stations and other coastal features have been removed as shown on the field edit ozalid.

Some compilation differences have been noticed on the overlapping areas of these sheets, T-11864 (1968), TP-00415 (1971). Since construction activity in this area has been significant only the most recent photos should be used. For shoreline use photo 71L1505 and 71L1506 or photos taken in 1972. The new boat slips in Dana Pt. Harbor will appear on March 1972 infrared MLLW photography. Also, these slips have been shown on the boatsheet for H-9274 (RA-5-1-72).

It should be noted that the rocks shown on T-11864 in Lat. 33° 26.7'~ between Long. 117° 39.4'~ and 117° 40.0'W~ were not verified on this field edit. Since hydrography has not been accomplished in this area, it is recommended that the hydrographer verify these rocks as soon as possible.

Respectfully submitted,

Nelson M. Franklin

Nelson M. Franklin
LTjg, NOAA

(21)

REVIEW REPORT

T-11868(2)

Feb., 1975

61. GENERAL STATEMENT:

See Summary which is included in the Descriptive Report.

62. COMPARISON WITH REGISTERED SURVEYS:

Comparison was made with T-5414, with 1934 photography and T-11868, final reviewed in 1965. They are both at 1:10,000 scale. There are no significant shoreline changes.

T-11868(2) supersedes the aforementioned 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 Las Pulgas Canyon, California, dated 1968 and at 1:24,000 scale. There are no significant differences.

64. COMPARISON WITH CONTEMPORARY HYDROGRAPHIC SURVEYS:

Comparison was made with Boat Sheet H-9275, dated 1972, at 1:10,000 scale. There is good general agreement.

65. COMPARISON WITH NAUTICAL CHARTS:

A visual comparison was made with chart 5101, dated Oct. 6, 1973, at 1:234,270 scale. The scale of the chart precludes any real comparison.

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 6

Reviewed by:

Bernard Kurs

Bernard Kurs
Cartographer

Approved for forwarding:

Victor E. Serena
Chief, Photogrammetric Branch, AMC

Approved:

Chief, Photogrammetric Branch

Chief, Coastal Mapping Div.