

11877 (2)

11877 (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-11877(2).....

Classification No. Edition No. 2.....
FIELD EDITED MAP
* See below

LOCALITY

State California.....

General Locality Pacific Ocean Coastline.....

Locality Mission Bay.....

~~1972 TO 1974~~

1966 TO 1972

REGISTRY IN ARCHIVES

DATE

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

* MEAN HIGH WATER AND MLLW LINES WERE
DELINEATED FROM OFFICE INTERPRETATION
OF THE PHOTOGRAPHS. SCOPE OF MAP REVISION
OUTLINED IN SUMMARY.

TYPE OF SURVEY

- ☐ ORIGINAL
☐ RESURVEY
☒ REVISED

SURVEY **T-11877**

MAP EDITION NO. (2)

MAP CLASS

JOB PH. 6702

DESCRIPTIVE REPORT - DATA RECORD

PHOTOGRAMMETRIC OFFICE

Atlantic Marine Center

OFFICER-IN-CHARGE

Alfred C. Holmes, Director

LAST PRECEDING MAP EDITION

TYPE OF SURVEY

- ☒ ORIGINAL
☐ RESURVEY
☐ REVISED

JOB PH. 6011

MAP CLASS FIELD EDITED

SURVEY DATES:

1960 TO 1962

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
" " " #5 9/23/74

2. FIELD

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

II. DATUMS

1. HORIZONTAL:

☒ 1927 NORTH AMERICAN

OTHER (Specify)

2. VERTICAL:

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

OTHER (Specify)

3. MAP PROJECTION

Polyconic

4. GRID(S)

STATE
CaliforniaZONE
6

5. SCALE

1:10,000

STATE

ZONE

III. HISTORY OF OFFICE OPERATIONS

OPERATIONS		NAME	DATE
1. AEROTRIANGULATION	BY	See Project Completion	
METHOD: None	LANDMARKS AND AIDS BY	Report	Mar. 1968
2. CONTROL AND BRIDGE POINTS	PLOTTED BY	See Project Completion	
METHOD: None	CHECKED BY	Report	Mar. 1968
3. STEREOSCOPIC INSTRUMENT	PLANIMETRY BY	NA	
COMPILATION	CHECKED BY	NA	
INSTRUMENT: None	CONTOURS BY	NA	
SCALE:	CHECKED BY	NA	
4. MANUSCRIPT DELINEATION	PLANIMETRY BY	B. Wilson	Mar. 1967
	CHECKED BY	C. Bishop	Mar. 1967
	CONTOURS BY	NA	
	CHECKED BY	NA	
METHOD: Graphic	HYDRO SUPPORT DATA BY	B. Wilson	Mar. 1967
SCALE: 1:10,000	CHECKED BY	C. Bishop	Mar. 1967
5. OFFICE INSPECTION PRIOR TO FIELD EDIT	BY	C. Bishop	Mar. 1967
6. APPLICATION OF FIELD EDIT DATA	BY	C. Blood	Jul. 1972
	CHECKED BY	R. White	Jul. 1972
7. COMPILATION SECTION REVIEW	BY	R. White	Jul. 1972
8. FINAL REVIEW	BY	Bernard Kurs, AMC	Nov. 1974
9. DATA FORWARDED TO PHOTOGRAMMETRIC BRANCH	BY		
10. DATA EXAMINED IN PHOTOGRAMMETRIC BRANCH	BY	S. Blankenhacker	Apr. 1975
11. MAP REGISTERED - COASTAL SURVEY SECTION	BY	R. Catler	JUN 1975

COMPILATION SOURCES

1. COMPILATION PHOTOGRAPHY

CAMERA(S) Wild RC-8 "S"		TYPES OF PHOTOGRAPHY LEGEND		TIME REFERENCE	
TIDE STAGE REFERENCE		(C) COLOR X (P) PANCHROMATIC (I) INFRARED X		ZONE	<input checked="" type="checkbox"/> STANDARD
<input checked="" type="checkbox"/> PREDICTED TIDES (1966 PHOTOS) *				8th	<input type="checkbox"/> DAYLIGHT
<input type="checkbox"/> REFERENCE STATION RECORDS				MERIDIAN	
<input checked="" type="checkbox"/> TIDE CONTROLLED PHOTOGRAPHY (see Remarks) 1972 PHOTOS				120th	
NUMBER AND TYPE	DATE	TIME	SCALE	STAGE OF TIDE	
66S-4766I - 4768I	8/7/66	13:11 PST	1:30,000	0.3 ft. below MHW	
66S-4727I - 4728I	8/7/66	13:11 PST	1:30,000	0.3 ft. below MHW	
66S(C)4595A - 4601A	8/7/66		1:20,000		
72-L-2463R - 2466R	3/23/72	13:11 PST	1:20,000	MLLW (40.1 ft.)	
2516 - 2520					

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:

1:30,000 scale infrared photography, dated ^{3/23/72} Aug. 7, 1966 (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} ~~color~~ photography, dated ^{3/23/72} 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
H-9106	1970	Boat Sheet			

5. FINAL JUNCTIONS

NORTH	EAST	SOUTH	WEST
T-11876	No survey	T-11878	No survey

REMARKS

3

HISTORY OF FIELD OPERATIONS

1. ☐ FIELD INSPECTION OPERATION☒ FIELD EDIT OPERATION

OPERATION	NAME	DATE
1. CHIEF OF FIELD PARTY	R.E. Moses, CDR	Feb. 1970
2. HORIZONTAL CONTROL	RECOVERED BY R.E. Moses & R.B. Melby	Feb. 1970
	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 R.B. Melby	Feb. 1970
	LOCATED (Field Methods) BY R.B. Melby	Feb. 1970
	IDENTIFIED BY R.B. Melby	Feb. 1970
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 - G.H. Endrud	Feb. 1970
7. BOUNDARIES AND LIMITS	SURVEYED OR IDENTIFIED BY None	

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)

66S(C)4767A, 4768A and 68E-6950

4. LANDMARKS AND AIDS TO NAVIGATION IDENTIFIED

PHOTO NUMBER	OBJECT NAME	PHOTO NUMBER	OBJECT NAME
68E-6950	MISSION BAY CHANNEL LIGHT 4	66S-4768	SANTA CLARA POINT LIGHT
68E-6950	QUIVERA BASIN LIGHT 1	66S-4767	DAWES ST. LANDING LIGHT
68E-6950	QUIVERA BASIN LIGHT 2	Not Ident.	SAN DIEGO SEA WORLD SKY TOWER
66S-4767	BAHIA POINT LIGHT		
66S-4768	EL CARMEL POINT SOUTH LIGHT		
66S-4767	EL CARMEL POINT NORTH LIGHT		

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

RECORD OF SURVEY USE

I. MANUSCRIPT COPIES

COMPILATION STAGES			DATE MANUSCRIPT FORWARDED	
DATA COMPILED	DATE	REMARKS	MARINE CHARTS	HYDRO SUPPORT
Compilation Complete	Jan., 1964	Superseded		
Shoreline Revised for Hydro	Mar., 1967	Superseded		
2/68 Field Edit Applied	Apr., 1968	Superseded	APRIL 1968	unknown
Feb, Mar, Apr. Field Edit Applied & Minor Rev. from 1968 Photo.	Jul., 1972	Superseded		
REVISÉ FROM 1972 PHOTOS.	1974	Superseded		
Final Review	Nov., 1972			

II. LANDMARKS AND AIDS TO NAVIGATION

1. REPORTS TO MARINE CHART DIVISION, NAUTICAL DATA BRANCH

NUMBER	CHART LETTER NUMBER ASSIGNED	DATE FORWARDED	REMARKS
			Copies of available Forms 567 submitted to Marine Chart Division, April 1975 — refer to page 7, last paragraph

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:

F.E. SHEET AND PHOTOGRAPHS

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

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

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

OFFICIAL MILEAGE
For Cost Accounts---

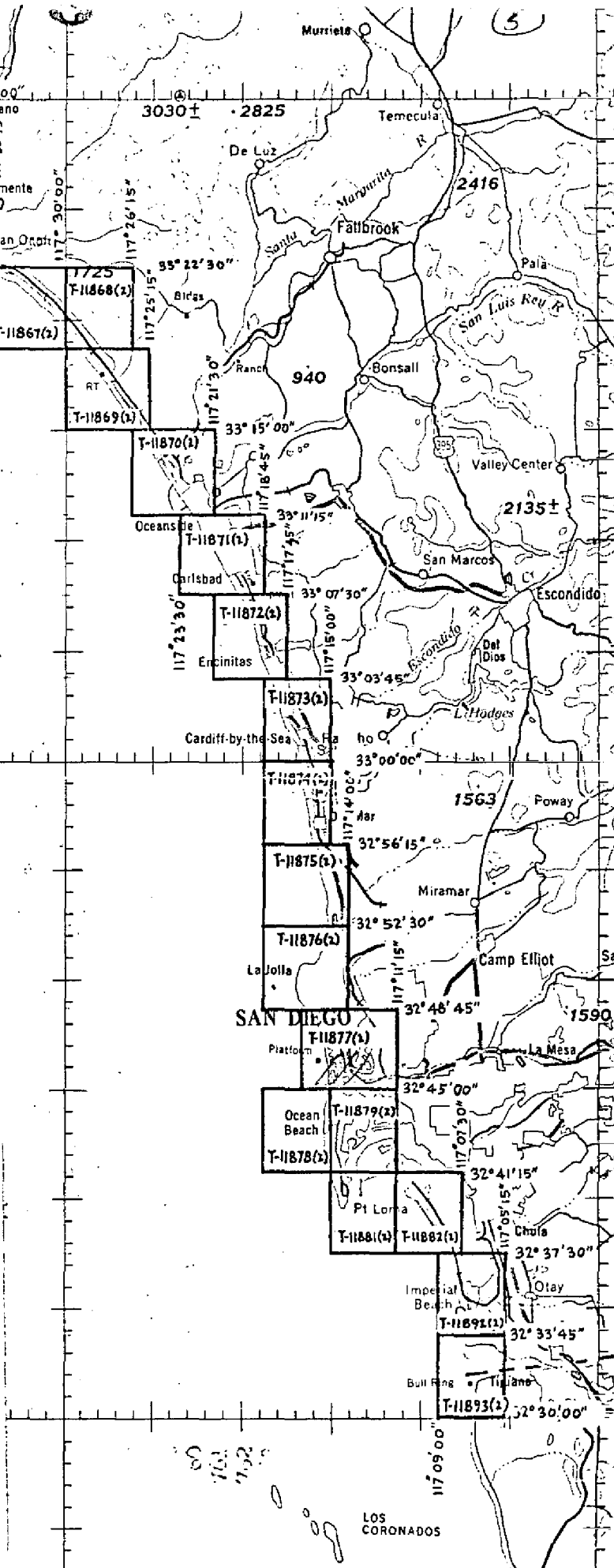
Sheet Nos.	Area Sq. Mi.
T-11864 (2)	2
T-11865 (2)	1
T-11866 (2)	3
T-11867 (2)	3
T-11868 (2)	1
T-11869 (2)	3
T-11870 (2)	3
T-11871 (2)	3
T-11872 (2)	2
T-11873 (2)	2
T-11874 (2)	2
T-11875 (2)	2
T-11876 (2)	3
T-11877 (2)	6
T-11878 (2)	2
T-11879 (2)	5
T-11881 (2)	2
T-11882 (2)	4
T-11892 (2)	5
T-11893 (2)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

JOB PH - 6702

CALIFORNIA COAST
MEXICO TO
DANA POINT

REVISION OF
SHORELINE MAPPING

SCALE, 1:10,000



(C)

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

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

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

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

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

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

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

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

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

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

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

There was considerable surf action at the time of photography. The interpretation and delineation of the MRW 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.

John A. Smith

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.

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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

PROJECT SUMMARY

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

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

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

23 August 1974

GEOGRAPHIC NAMES

FINAL NAME SHEET

Ph-6702 (Southern California Coastline)

T-11877 (2)

Atchison Topeka and Santa Fe (RR)	Mission Bay
Bahia Point	Mission Bay Channel
Bonita Cove	Mission Beach
Crown Point	Mission Point
Crown Point Shores	North Cove
Dana Landing	Ocean Beach
De Anza Cove	Pacific Beach
De Anza Point	Pacific Ocean
El Carmel Point	Pacific Passage
Enchanted Cove	Perez Cove
Enchanted Isle	Playa Pacifica
False Point	Point Medanos
Fiesta Bay	Quivira Basin
Fiesta Island	Quivira Point
Fiesta Shores	Riviera Shores
Fishermans Channel	Rose Inlet
Hidden Anchorage	Sail Bay
Hospitality Point	San Diego
Marina Shores	San Diego River
Mariners Basin	San Juan Cove

(continued)

T-11877 continuation

Santa Barbara Cove

Santa Clara Cove

Santa Clara Point

Ski Islands

South Cove

Stony Point

Sunset Point

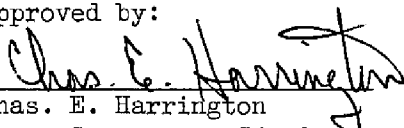
Tecolote Creek

Vacation Isle

Ventura Cove

Ventura Point

Approved by:


Chas. E. Harrington
Staff Geographer-C51x2

19. NOTES FOR THE HYDROGRAPH

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

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

Some difficulty was encountered in defining the exact centers of the ratio photos made from the MLM color photos which are furnished to you. The original photos were of such quality that the fiducial marks did not produce well and did not appear on the contact prints nor the 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 ORALID" calling your attention to items in need of further clarification and/or edit.

FIELD EDIT REPORT
CHART TOPOGRAPHY
California Coast
Mexico to Dana Point
February 1970

Map Manuscripts T-11875(2), 11876(2), 11877(2)
11878(2), 11879(2), 11881(2), 11882(2), 11892(2), 11893(2)
Project PH-6702

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

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

Adequacy of Compilation:

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

Methods and General Information:

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

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

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

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

Offshore features are in the form of rocks, piling, dolphins and numerous mooring buoys in the San Diego Bay area. Several submerged cable crossing areas can be found on the Mission Bay area. The highway bridge connecting the city of Coronado with the city of San Diego has been completed and it is now in use by vehicular traffic.

Fixed aids to navigation were inspected. Any new aids or aids that did not appear on the field edit sheets were determined by photogrammetric, triangulation intersection or by sextant fixes. The new aids have been listed on form 567.

Five new land marks for charts were located. One was revised and one was recommended to be deleted. All have been listed on their respective form 567.

Rocks were investigated and their elevations in relationship to the date and stage of tide have been recorded. Ledges were also investigated.

Sheet T-11875(2)

In the vicinity of the Torrey Pines Municipal Golf Course are four towers that mark a measured nautical mile course. The towers were previously located as triangulation stations. A new glider launching strip has been indicated on photograph 66S4722.

Sheet T-11876(2)

Several changes were noted in the foreshore area. The configuration of some of the ledges were changed. It is recommended that two of the foul areas should be compiled as ledges.

Sheet T-11877(2)

The foul area in the vicinity of False Point should be compiled a ledge.

Mission Bay South Jetty Light was rebuilt in a position that differs slightly from the triangulation position. See the recovery note for triangulation station Mission Bay South Jetty Light 1962.

Eight aids to navigation (lights) were photo identified in the Mission Bay area.

A new landmark "SKY TOWER" was located by triangulation methods at the Sea World Oceanarium.

Sheet T-11878(2)

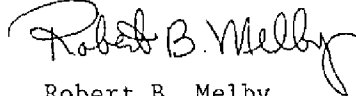
This coastal area is chiefly a bluff area with ledges, rocks and foul areas in the foreshore. The area was inspected at zero tide

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

(18)

ADDENDUM

to

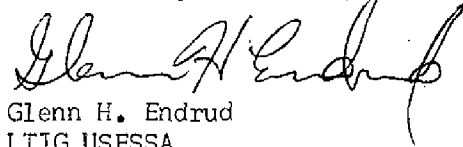
FIELD EDIT REPORT
February 1970
Project PH-6702

submitted by Robert B. Melby

This addendum to R. B. Melby's Field Edit Report of February 1970 is submitted because of hydrographic location and verification of kelp beds. The area concerned is that part of maps T-11876, T-11877, T-11878 covered by boat sheets H-9105, H-9106, H-9107 (DAVIDSON 1970). The kelp beds have been traced from the boat sheet onto the ozalids and are delineated by blue pencil.

A reported submerged rock on T-11881 at $32^{\circ}40.3'N$, $117^{\circ}14.9'W$ was also investigated. A search was made at low tide by looking for evidence of breakers or shoaling with negative results. A development of the area was also run using DA-1. A sounding volume, fathogram and development overlay are included which contain the results of this work. One-half of a foot should be added to the soundings for the velocity-draft correction. The development overlay was made using predicted tides for Pt. Loma. No evidence of a submerged rock was found. Visual inspection of the area by the launch also showed no evidence of a rock. It is suggested that the symbol be deleted from the map.

Respectfully submitted,


Glenn H. Endrud
LTJG USESSA

APPROVAL SHEET

for

FIELD EDIT
OPR-411
Southern Calif.
Mar.-Apr. 1970

The field edit of the following manuscripts was accomplished
under my supervision:

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

Additional inspection and edit was also made on the following
manuscripts in conjunction with R. B. Melby's Field Edit of
February 1970, Project 6702:

T-11876	T-11878
T-11877	T-11881.

Inspection of the work was made.

Ray E. Moses
Ray E. Moses
CDR USESSA
Commanding Officer
USC&GSS DAVIDSON

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 (Feb. 1968?)	* 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.

* Some maps in this project were field edited twice. In some cases, the editors used the same field edit sheet (a composite). All notes on the one field edit sheet available for this map (T-11877) are labeled "1970". No field records exist for the 1968 field edit work (listed above and in the Data Record, page 4). Additional field edit was accomplished in 1970 - location of kelp beds (accounted for in an Addendum, page 18). The Field Edit ozalids (sheets) mentioned in the Addendum are not available; nor are they shown on the 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.

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

U.S. DEPARTMENT OF COMMERCE
COAST AND GEODETIC SURVEYTO BE CHARTED
UNDETERMINED
KNOWNS

STAKE OUT TWO

MEMORANDUM FOR LANDMARKS FOR CHARTS

Seattle, Washington March 12, 1970

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

The positions given have been checked after listing by

Lyle L. Riggers

Robert B. Kalby

Chief of Party

STATE	CHARTING NAME	DESCRIPTION	SIGNAL HEIGHT	POSITION						METHOD OF LOCATION AND SURVEY No.	DATE OF LOCATION	CHARTS APPLIED
				LATITUDE		LONGITUDE		DATUM				
				° ' "	D.M. FEET	° ' "	D.M. FEET					
CALIFORNIA	△ San Diego, Sea World Sky Tower, 1970	Ht. = 219 (328)		32 45	55.320	117 13	32.759	N.A.	7-11877	5101		
	△ San Diego, Radio Station, KSON, 1970	Ht. = 445 (455)		32 41	40.133	117 07	16.812	"	1927	5080		
	△ Chula Vista, SDG & E Co. W of 2 tanks, 1970	Ht. = 140 (150)		32 36	1235.3	117 05	39.325	"	"	5105, 5107		
	△ Coronado, U.S.N.A.B. Barker, 1970	Ht. = 30 (35)		32 39	1059.8	117 05	1025.6	"	"	5080		
	Lone, block type building	* Ht. = 80 (110)		32 39	18.006	117 09	25.337	"	11882	5101, 5105		
BLDG				32 35	1473.8	117 07	660.2	"	11842	5101, 5107		
		* BUILDING SHOWN ON MAP							Photo			
		— ELEV 80 (130)										

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 notations *etc.* to navigation, if determined, 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.

* TALKING RECORDS AND TALKERS

USCGC FORM 1673-6-61

NONFLOATING AIDS OR LANDMARKS FOR CHARTS

TO BE CHARTED
~~XXXXXXXXXX~~
~~XXXXXXXXXX~~ } STRIKE OUT TWO

March 13 1970

Seattle Washington

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

The positions given have been checked after listing by Jyle L. Riggers (deleted from) the charts indicated.

Robert B. Melby

Chief of Party,

[illegible]

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 *notifying aids* to navigation, if redetermined, shall be reported on this form. Revisions shall show both the old and new positions. The data should be given in the order each column heading should be given.

REVIEW REPORT

T-11877(2)

November, 1974

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. T-5374, with 1933 photography and T-1877, reviewed in 1965, are at 1:10,000 scale. Cultural changes negate any comparison. The latter is in good agreement except for the additional piers noted on the latest survey.

T-11877(2) supersedes these prior surveys for the construction of nautical charts.

63. COMPARISON WITH MAPS OF OTHER AGENCIES:

A visual comparison was made with U.S.G.S. Quadrangle, La Jolla, Calif., 1967, at 1:24,000 scale. There is very good agreement except for cultural changes.

64. COMPARISON WITH CONTEMPORARY HYDROGRAPHIC SURVEYS:

Comparison was made with boat sheets H-9106 and 9107, 1:10,000 scale, dated 1970. Both hydrographic surveys end at the breakers which are offshore. There is no contemporary hydrographic survey of Mission Bay.

65. COMPARISON WITH NAUTICAL CHARTS:

Comparison was made with chart 5060, Mission Bay insert, at 1:20,000 scale, dated Dec. 29, 1973. There is very good agreement.

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

Victor E. Serena
Chief, Photogrammetric Branch, AMC

Approved:

AKH

Chief, Photogrammetric Branch. *AB*

Wesley V. Hull

Chief, Coastal Mapping Div.