NOAA FORM 76-35

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

# **DESCRIPTIVE REPORT**

Type of Survey Shoreline  Job NoPH-6702  Classification No.  FIECO EDITED MAR	Map No.T-11870(2).  Edition No2
LOCALIT	Y
State California	
General Locality Pacific	Cean Coastline
Locality Oceanside	
.,.,	
- <del>19678 TO -</del>	<del></del>
1966 76	
REGISTRY IN AF	RCHIVES
DATE	

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

\* Mean high water and mean lower low water lines delineated from office interpretation of the photographs. Super of map revision outlined in SUMMRRY.

U. S. DEPARTMENT OF COMMERCE NATIONAL OCEANIC AND ATMOSPHERIC ADMIN	TYPE OF SURVEY	SURVEY T-11870(2
DESCRIPTIVE REPORT - DATA RECORD	RESURVEY	MAP CLASS  JOB PH- 6702
Atlantic Marine Center  OFFICER-IN-CHARGE  Alfred C. Holmes, Director	LAST PRECEE  TYPE OF SURVEY  ORIGINAL RESURVEY REVISED	JOB PH- 6011  MAP CLASS FIELD EDITED  SURVEY DATES:  19 60 TO 19 62
INSTRUCTIONS DATED		
1. OFFICE		2. FIELD
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	Field Edit date Field-Supp. 1, date Field Edit inst in orr (hydro	ructions listed
II. DATUMS		
1. HORIZONTAL: X 1927 NORTH AMERICAN	OTHER (Specify)	
	OTHER (Specify)	

1. HORIZONTAL:	X 1927 NORTH AMERICAN	(opcolly)		
2. VERTICAL:	MEAN HIGH-WATER  MEAN LOW-WATER  MEAN LOWER LOW-WATER  MEAN SEA LEVEL	OTHER (Specify)		
3. MAP PROJECTION			4. GRID(S)	
Polyconic		California	ZONE 6	
1:10,000		STATE	ZONE	
111 11100000000000000000000000000000000			NAME OF TAXABLE PARTY OF TAXABLE PARTY.	

III. HISTORY OF OFFICE OPERATIONS

NOAA FORM 76-36A (3-72)

OPERATIONS		NAME	DATE
1. AEROTRIANGULATION	BY	See Project Completion	
METHOD: None LANDMAR	KS 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	Manager San Control
COMPILATION	CHECKED BY	NA	
INSTRUMENT: None	CONTOURS BY	NA	
SCALE:	CHECKED BY	NA	
4. MANUSCRIPT DELINEATION	PLANIMETRY BY	B. Wilson	Feb. 1968
	CHECKED BY	R. Pate	Mar, 1968
METHOD	CONTOURS BY	NA	
METHOD: Graphic	CHECKED BY	NA	
	PORT DATA BY	B. Wilson	Feb, 1968
1:10,000	CHECKED BY	R. Pate	Mar, 1968
5. OFFICE INSPECTION PRIOR TO FIELD EDIT	ВҮ	R. Pate	Mar, 1968
6. APPLICATION OF FIELD EDIT DATA	BY	C. Blood	Jul, 1972
G. AFFEIGRATION OF FIELD EDIT DATA	CHECKED BY	R. White	Jul, 1972
7. COMPILATION SECTION REVIEW	вү	R. White	Jul, 1972
8. FINAL REVIEW	вү	Bernard Kurs, AMC *	Feb, 1975
9. DATA FORWARDED TO PHOTOGRAMMETRIC BRA	NCH BY		
10. DATA EXAMINED IN PHOTOGRAMMETRIC BRANC	H BY	5. Blankenbaker	APR - 1975
11. MAP REGISTERED - COASTAL SURVEY SECTION NOAA FORM 76-36A SUPERSEDES FORM	ВҮ	R. cator	JUN. 1975

\* U.S. G.P.O. 1972-769382/582 REG.#6 \* refer to SUMMARY, page 6, Concerning revision work by B. Kurs, in 1974 & 1975.



NOAA	FORM	76-36B
(3-72)		

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

# COMPILATION SOURCES

1. COMPILATION PHOTOGRAPHY	1				
CAMERA(S) Wild RC-8 "S"			PHOTOGRAPHY EGEND	TIME	REFERENCE
TIDE STAGE REFERENCE    PREDICTED TIDES (1966 Pt)   REFERENCE STATION RECOI   TIDE CONTROLLED PHOTOG	RAPHY (See Remorks)	(C) COLOR? (P) PANCHR (I) INFRARE	( OMATIC	ZONE 8th MERIDIAN 120th	DAYLIGHT
NUMBER AND TYPE	DATE	TIME	SCALE	STA	GE OF TIDE
66S-4696I - 4699I 66S(C) 4532A - 4536 72-L-2432R - 2436R	8/7/66 8/7/66 3/23/72	13:11 PST	1:30,000 1:20,000 1:20,000	0.3 ft. b	
2. SOURCE OF MEAN HIGH-WAT  1:20,000 scale	ephy used in t	otography,	dated March	class III Ha.	Clisted above)
1:20,000 infra		phy, dated	March 23,		
4. CONTEMPORARY HYDROGR SURVEY NUMBER DATE(S)			s that are sources for	or photogrammetric	survey information.)
5. FINAL JUNCTIONS	I E LOZ		UTU	WEST	
NORTH TO 11060	No current		UTH 11071		
T-11869	No survey		T-11871	I I	lo survey
NEMARKS					

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

# HISTORY OF FIELD OPERATIONS

I. FIELD INSPI	ECTION OPERATION	T FIELD E	DIT OP	ERATION		
	OPERATION	•		1	NAME	DATE
1. CHIEF OF FIEL	D PARTY	R	R.E.	Moses	, CDR	Mar, Apr., 1970
	RECO	VERED BY R	R.E.	Moses	, CDR	11 11 11
2. HORIZONTAL C	ONTROL		Vone			
	PRE-MARKED OR IDEN	TIFIED BY N	Vone			
	RECO	VERED BY N	VA.			
3. VERTICAL CON	ITROL ESTAB	LISHED BY N	IA.	i de mini		
	PRE-MARKED OR IDEN	TIFIED BY N	JA			
TANKS OF STREET	RECOVERED (Triangulation	Stational By J	J.R.	Faris		Dec, 1971
4. LANDMARKS AT		(			d and H.W.H	May, 1970
AIDS TO NAVIG	ATION	ITIFIED BY				110)
	TYPE OF INVESTIG					
5. GEOGRAPHIC N	AMES COMPLETE					
INVESTIGATION		SONLY				
	NO INVESTIGAT	rion				
6. PHOTO INSPEC			V.K.	Taque	hi	Apr, 1970
7. BOUNDARIES A		STATE OF THE PERSON NAMED IN				
II. SOURCE DATA						
1. HORIZONTAL C	CONTROL IDENTIFIED	2.	VERT	ICAL COL	NTROL IDENTIFIED	
1	None	N	NA A			
PHOTO NUMBER	STATION NAME	PI	HOTON	NUMBER	STATION DESI	GNATION
PHOTOROMBER	JIA HON NAME		40101	TOMBER	STATION DESI	GIVA TION
3. PHOTO NUMBE	RS (Clarification of details)					
	2)-4532					
	ND AIDS TO NAVIGATION IDENTIFIED					
PHOTO NUMBER	OBJECT NAME			NUMBER	OBJECT	IAME
Not Ident.	LIGHT 4 Oceanside Harb		ot Id		LIGHT 6	
Not Ident.	LORAC STATION	Delivery Street, and the stree			DAYBEACON 7	
Not Ident.	LIGHT 3 Oceanside Brea			lent.		
Not Ident.	LIGHT 4	No	ot. Id	lent.	VORTAC	
Not Ident.	DAYBEACON 8	copies of F			8 76-40 includ	1-1
Not Ident.	LIGHT 9	is report	cormi	5 501	8.76-40 includ	69
5. GEOGRAPHIC	NAMES: REPORT X NO	NE 6.	BOUN	DARY AN	D LIMITS: REPOR	T NONE
7. SUPPLEMENTA	L MAPS AND PLANS					
None						
8. OTHER FIELD	RECORDS (Sketch books, etc. DO NOT 11.	st data submitted	to the C	Geodesy D	livision)	
Field F	Edit Ozalid					

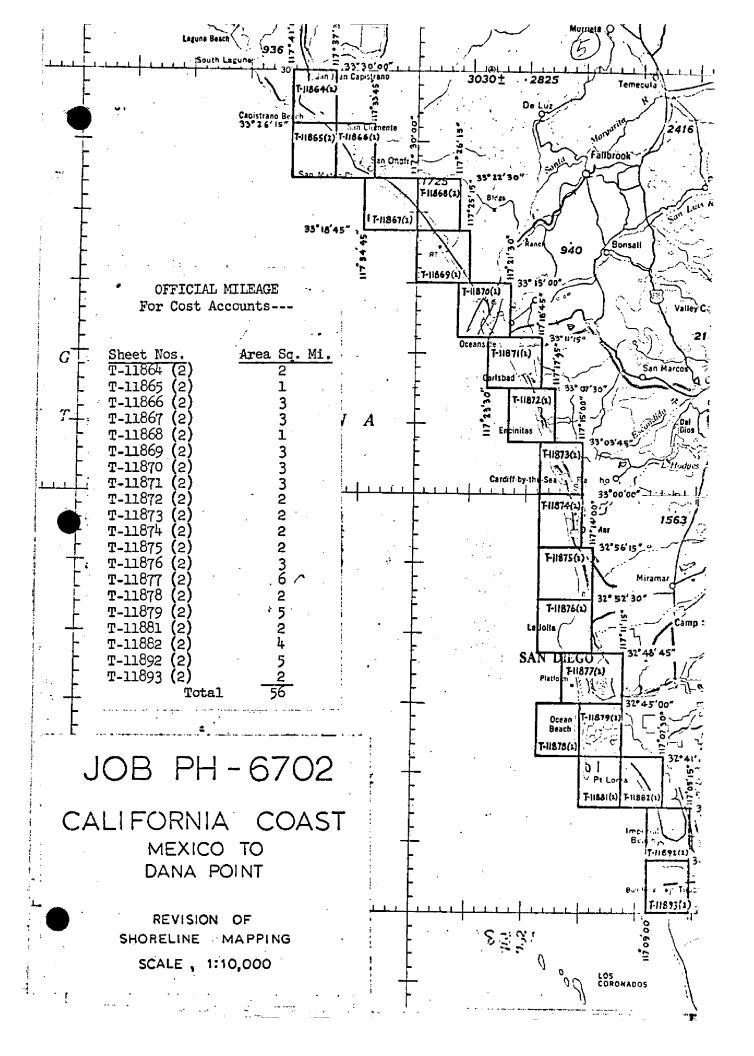


NOAA FORM 76-36D (3-72)

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

# RECORD OF SURVEY USE

I MANUSCI	RIPT COPIES					
I. MANUSCI		MPILATION STAGE	•		DATE MANUSCE	
	DATA COMPILED	DATE		EMARKS		RIPT FORWARDED
Compila	ation Complete	Dec, 1963			MARINE CHARTS	HYDRO SUPPORT
Shorel: Hydro	ine Revised for	Feb, 1968	Designated Supersec	"RS-SUIVE-	Harch 1968	1970
Apr., Applied	1970 Field Edit d	<b>J</b> ul, 1972	Supersed	led manuscript		NONE
REVISED .	FROM 1972 PHOTOS	1974-1975		seded	None	none
Final E	Review	Feb., 1975				
II. LANDMA	ARKS AND AIDS TO NAVIGA	TION				
	ORTS TO MARINE CHART DE		DATA BRANCH			
NUMBER	CHART LETTER NUMBER ASSIGNED	DATE FORWARDED		RE	MARKS	
			Refer to	Forms 56	7 8 76-40	
			Included	in this re	port	
2.	REPORT TO MARINE CHART	DIVISION, COAST	PILOT BRANCH.	DATE FORWARDE	D:	
III. FEDER	AL RECORDS CENTER DAT	Α		E DATA SECTION.	DATE FORWARDED:	
2. 🔲 0	BRIDGING PHOTOGRAPHS; CONTROL STATION IDENTI SOURCE DATA (except for G ACCOUNT FOR EXCEPTION DATA TO FEDERAL RECOR	eographic Names Rep S: Photo	FORM NO	s 567 SUBMITTED IN SECTION II, NOA		
	Y EDITIONS (This section s				ad)	
	SURVEY NUMBER	JOB NUMBER			TYPE OF SURVEY	
SECOND	TP -	(2) PH		□ R	EVISED RES	SURVEY
EDITION	DATE OF PHOTOGRAPH	DATE OF FIL	ELD EDIT	Dir. Diri	MAP CLASS	Пении
	SURVEY NUMBER	JOB NUMBER			TYPE OF SURVEY	
THIRD	TP	AND ADDRESS OF THE PARTY OF THE	The state of the s		EVISED RES	
EDITION	DATE OF PHOTOGRAPH	DATE OF FIE	ELD EDIT		MAP CLASS	DFINAL
	SURVEY NUMBER	JOB NUMBER			TYPE OF SURVEY	
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EDITION	DATE OF PHOTOGRAPH	DATE OF FIE	ELD EDIT		MAP CLASS	DEINAL





# 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.

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.

\* classified as Rs sheets 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.
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 blackline 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. Rauch, Jr.

Supervisory Cartographer

# 13)

## 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-11870(2) T-11871(2) T-11872(2) T-11873(2) T-11874(2) T-11875(2) T-11876(2)	March, 1972 March, 1972 March, 1972 March, 1972 March, 1972 March-April 1970, March 1972 MarApr.May, 1970, Dec. 1971 MarApril, 1970 March-April, 1970 March-April, 1970, Dec. 1971 March-April, 1970, Feb. 1970 Feb. 1970 Feb. Mar.Apr: 1970, Feb. 1968	July, 1972 Dec. 1968 and Aug. 1972
T-11881 (2) T-11892 (2)	Feb. Mar.Apr. 1970	April 1968 and July 1972 April 1968 and July 1972 Dec. 1968 and July 1972 Dec. 1968 and July 1972 May 1967, Dec. 1968 Aug. 1972 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 April 1970.

1971 date applies to horizontal Control
recovery (see Batar Record) -landmorks

Refer to copies of Landmork forms in cluded in this Descriptive Report

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.

AND THE REPORT OF THE PROPERTY OF THE PROPERTY

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. Supervisory Cartographer

albert C. Rauch J

Supervisory Cartographer Coastal Mapping Division Atlantic Marine Center

Norfolk, VA 23510

August 9, 1972

26 August 1974

# GEOGRAPHIC NAMES

# FINAL NAME SHEET

# Ph-6702 (Southern California Coastline)

T-11870 (2)

Atchison Topeka and Santa Fe (RR)

Camp Del Mar

Camp Joseph H. Pendleton Naval Reservation

Del Mar Boat Basin (Camp Pendleton)

Fallbrook Junction

Gulf of Santa Catalina

Oceanside

Oceanside Harbor

Pacific Ocean

San Luis Rey River

Santa Margarita Lagoon

Santa Margarita River

Approved by:

Chas. E. Harrington

Staff Geographer-C51x2

# (16)

# hg. Homes for the hydronaph

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

One set of infrared photographs at MM were used in the delineation of the MMW line. The second set, in color, were taken at MLM and were used only for the delineation of the MLM line and other less stater features. Both sets of photos were raticed to the scale of the maps.

Some difficulty was encountered in defining the empt centers of the ratio photos made from the MLW color photos which are furnished to you. The original photos ware of such quality that the fiducial marks did not produce well and did not appear on the contact prints nor the ratio d prints. Several attempts or methods were made to diffine these fiducial marks, but without success. It was, therefore, necessary to locate these photo centers by a method that at test is only approximate. This information is made evailable to you, should you encounter shy difficulty in leging 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-11870
Southern California
OPR-411
April 1970

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

# **METHOD**

Field photographs and a copy of the field edit ozalid were taken into the field. All verification was done by visual observation. The specific items of question, as listed on the ozalid were visited for verification. The MHWL was determined by pacing from a photo-identifiable object or by sextant fixes. Landmarks were identified and listed on accompanying Form 567.

Notes have been made in violet on the field photographs and crossreferenced in the field edit ozalid by circling the photograph number.

Notes on the ozalid have been made in blue. All sextant cuts and
control have been placed on the ozalid. Notes are on the following
photographs:

66 S 4532 66 S 4533

# ADEQUACY OF COMPILATION

The compilation of the map appears to be adequate.

# 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 advance manuscript. Field Edit Report: Map T-11870 Page two

The two new navigational aids (lights) in the Oceanside Harbor are charted on C&GS Chart #5101. The South Jetty Light 2 is found on the end of a new jetty arm, an extension of the previous South Jetty.

The lights were located by sextant fixes. The position of the LORAC station was determined by sextant fixes.

Respectfully submitted,

Warren K. Tazuchi

Warren Taguchi Lt(jg.), USESSA

### REVIEW REPORT

T-11870(2)

Feb., 1975

# 61. GENERAL STATEMENT:

See Summary which is included in the Descriptive Report.

# 62. COMPARISON WITH REGISTERED SURVEYS:

Comparison was made with two prior surveys. T-5413 compiled at 1:10,000 scale with 1934 photography bears little resemblance to the current chart. Extensive breakwaters constructed at the entrance to Oceanside Harbor have altered current flow patterns and caused significant shoreline changes.

T-11870 compiled with 1960 photography at 1:10,000 scale reveals further accumulation of sand south of the south jetty at the entrance to Oceanside Harbor. There has been considerable cultural development in the form of piers and slips in the Harbor. Shoreline changes in the southwestern portion of Santa Margarita Lagoon are extensive.

T-11870(2) should be used for nautical chart construction.

## 63. COMPARISON WITH MAPS OF OTHER AGENCIES:

Comparison was made with U.S.G.S. 1:24,000 scale Quadrangle, Oceanside, California dated 1968. Except for the new groin located between the south jetty and the municipal fishing pier no significant differences were noted.

# 64. COMPARISON WITH CONTEMPORARY HYDROGRAPHIC SURVEYS:

Comparison was made with a copy of boat sheet H-9251. There are no significant differences.



# 65. COMPARISON WITH NAUTICAL CHARTS:

A visual comparison was made with chart 5101 at 1:234,270 scale and dated Oct. 6, 1973. There is a 1:20,000 insert of Oceanside Harbor on this chart. There are no significant differences.

# 66. ADEQUACY OF RESULTS AND FUTURE SURVEYS:

This survey conforms with 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, Photogrametric Branch

Chief, Coastal Mapping Div.

													6	(i)	
TIVITY	COMPILATION FINAL REVIEW QUALITY CONTROL AND REVIEW	See reverse for responsible personnel)		CHARTS	AFFECTED	C&GS 5101		98 logan 19				W 3 N 18 10			51m : Fo
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DMINISTRATION	12-21-71		METHOD AND DATE OF LOCATION (See instructions on reverse of this form)		COMPILATION	Rec.	worled to the	p number on		odini sili			0.55		R
A CHARTS	DATE 12-		METHOD (See instruc		FIELD	Triang. F	thri ac alodinya	Paris Calca	E OE EXTINET	of ple by drokester	VILOR SECTIO				
PARTMENT OF COMMERCE - NATIONAL OCEANIC AND ATMOSPHERIC ADMINISTRATION NONFLOATING AIDS OR LANDMARKS FOR CHARTS	of the object was the	r value as landmarks	an 1927		LONGITUDE  O P.P.METERS	117024 9.927	Kataba'di biligge	anglio bal boli be	ockville	The state of the s	MUDGIE OF FO			EMS. MOALS	Pare Proposer
COMMERCE-NATION OF L	NIER	to determine their	Am	POSITION	LATITUDE	12, 42,102 11297.0	4	a Jestinejki og	this &	(apr.1 (475)	N S N E CHCO			and paries	SERVOYE (E
ENT OF	RAIN	seaward	North		٥	3301	State Libert	do of g	unclude Overing	) ve	No.			STORE	
U.S. DE	ORIGINATING LOCATION NOAA Ship RAI	been inspected from	SURVEY NUMBER T-11870		TION	a 28' white	D. Men. bost	desuggé galapsbi	of all forms	Office examinati	GATENI	0.00		. T	
NOAA FORM 76-40 (2-71) PRESCRIBED BY PHOTOGRAMMETRY INSTRUCTION NO. 64.	TO BE CHARTED TO BE DELETED	The following objects have (have not) been inspected from seaward to determine their value as landmarks:	i Pownie	TIOLITE	DESCRIPTION	Red light on a skeleton tower	SECH		Copies of	Office		langed of doubles because	baditer relains bestimen		PASSON WORKEN
NOAA FORM 76-40 (2-71) PRESCRIBED BY PHOTOGRAMMETR	TO BE	The following	PH-	SIAIE: CAL	CHARTING	Qk. Fl. R #6	ME DEST	CAMBITALI	THE MANUACTO	WOLLE 5		Electric Service	5. Bothitom		

	RESPONSIBLE PERSONNEL	
TYPE OF ACTION	NAME	TITLE
1. Objects inspected from seaward	J. Richard Faris, ENS. NOAA	FIELD INSPECTOR
	J. Richard Faris, ENS. NOAA	FIELD INSPECTOR
2. Positions determined and/or verified		FIELD EDITOR
		COMPILER
3. Forms originated by Quality Control and Review Group and final review activities		REVIEWER  QUALITY CONTROL AND REVIEW  GROUP REPRESENTATIVE

	J. RICHARD FARIS, ENS. NUAA	7 PP
2. Positions determined and/or verified		FIELD EDITOR
		COMPILER
<ol><li>Forms originated by Quality Control and Review Group and final review activities</li></ol>		REVIEWER  QUALITY CONTROL AND REVIEW  GROUP REPRESENTATIVE
	INSTRUCTIONS FOR 'METHOD AND DATE OF LOCATION' SECTION	
NOTE: 'Photogrammetric Positions' are c 'Field Positions' are determined by f	'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.	methods.
COLUMN TITLE	TYPE OF ENTRIES	
COMPILATION	Applicable to office identified and located objects only. Enter the nuridentify the object.	Enter the number and date of the photograph used to
FIELD INSPECTION AND	1. New Position Determined-Enter the applicable data by symbols as indicated below:	elow:
FIELD EDIT	F - Field P - Photogrammetric  1. Triangulation 1. Field identified	EXAMPLES:
	2. Traverse 2. Theodolite 3. Intersection 3. Planetable	F. 3.c
١	4. Resection 4. Sextant a. Theodolite	P.2
•	c. Sextant Immediately beneath the data described above, enter the following:	
	a. For 'Field Positions' enter the date of location.	
	b. For Priorogrammetric 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.	graph , enter the number of the photograph used.
		( .

NOAA FORM 76-40 (2-71)

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

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

														(22	)
TIVITY	COMPILATION FINAL REVIEW QUALITY CONTROL AND REVIEW	See reverse for responsible personnel)		o H	AFFECTED	C&GS 5101	C&GS 5101	1015 85%0	coes sowo	C&GS 5101	C&GS 5101	C&GS 5101	C&GS 5101	C&GS 5101	b3: W15
ORIGINATING ACTIVITY	COMPILATION FINAL REVIEW	(See reverse for res	OCATION	or title form)	FIELD EDIT	yê Q	penci (	7 204 Pication	٠٠٠ اوء	office		FAETS CONTEST W	90710	STATE AND STATE OF ST	Checked
MINISTRATION	ATE 12-21-71		METHOD AND DATE OF LOCATION	ous on tevelse	COMPILATION		VACUES IN	added b.	activi	&			10 10	13 EU	- X
ATMOSPHERIC ADI	DATE 12.	5:	METHOD AND DATE OF LOCATION (See instructions on reverse of this form)	nonnsur eac)	FIELD	Triang. Rec. 10-71	F.3.a.	F.3.a.	Triang. Rec. 10-71	Triang. Rec. 10-71	Triang. Rec. 10-71	Triang. Rec. 10-71	F.3.a.	Triang. Rec. 10-71	
U.S. DEPARTMENT OF COMMERCE-NATIONAL OCEANIC AND ATMOSPHERIC ADMINISTRATION NONFLOATING AIDS OR LANDMARKS FOR CHARTS	तार क्षेत्र क्षेत्र क्षक्र	determine their value as landmarks	h American 1927 POSITION		LONGITUDE	117°24 183.4	11702355644	11702343.89	31.35611702341.753	1170231419.3	54.23711702408.632 1670.9	123.0	11702320.16	7 25 0.65	
	NIER				LATITUDE	22.39	21.10	27.61	31.356	24.51	1670.9	33°12,49.416,17°24,04.751	33012,17.04	26.15 117	
LOATIN	RAIN	seaward to	North	THE STREET	0 /	se33012	33012	33°12'	330121	33012	330121	33012	33012	33 14 n	
U.S. DEPARTMENT OI NONFLOAT	ORIGINATING LOCATION NOAA Ship RAI	been inspected from s	SURVEY NUMBER T - 11870 TP-	-II-	NOIL	4	A	daymark	Fl. Red 4 secs. triangular daymark	TARS I BRI	r daymark		Top of conical antenna 33 cover of air navigation		
NOAA FORM 76-40 (2-71) PRESCRIBED BY PHOTOGRAMMETRY INSTRUCTION NO. 6	TO BE CHARTED TO BE DELETED	The following objects have (have not) been inspected from seaward to determine their value as landmarks		California	DESCRIPTION	Oceanside Breakwater Flashing white every	Fl. R. every 4 sec Foghorn: 2 blasts 20 secs.	Daybeac Red triangular daymark #8	Qk. Fl. Green Black square	Qk. Fl. Red 4 secs. Red triangular daym	Daybeac, Black square daymark #7 Red reflector	Red triangular Red reflector	to ith	di	editaing.
	TO BE O		JOB NUMBER PH-	STATE: CAL	CHARTING	Light #3	Light #4	Daybeac.	Light	Light (	Daybeac, 1	Daybeac Red #8 Red	Lighted S Tower E	VORTAC, Oceanside	

INSTRUCTIONS FOR 'METHOD AND DATE OF LOCATION' SECTION

NOTE: 'Photogrammetric Positions' are dependent entirely, or in part, upon control established by photogrammetric methods, 'Field Positions' are determined by field observations based anti-classical control. 'Field Positions' are determined by field observations based entirely'upon ground control.

COLUMN TITLE

# FIELD EDIT FIELD INSPECTION COMPILATION 1. New Position Determined-Enter the applicable data by symbols as indicated below: Applicable to office:identified and located objects only. Enter the number and date of the photograph used to 1. Triangulation . TYPE OF ENTRIES P - Photogrammetric 1. Field identified EXAMPLES

2. Traverse

Intersection

3. Planetable 2. Theodolite.

P.2

F. 3.c

Resection a. Theodolite b. Planetable Sextant

Immediately beneath the data described above, enter the following:

- a. For 'Field Positions' enter the date of location.
- b. 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/yi.'
- Position Verified Enter 'Verif. mo/day/yr.'

NOAA FORM 76~40 (2-71)

U.S. DEPARTMENT OF COMMERCE
ENVIRONMENTAL SCIENC STRVICES ADMINISTRATION
COAST AND G ETIC SURVEY

# NONFLOATING AIDS OR LANDMARKS FOR CHARTS

STRIKE OUT TWO TO BE CHARTED KONSENSTAND TO SECTION TO SECTION TO THE SECTION TO

I recommend that the following objects which have (MANNING) been inspected from seaward to determine their value as landmarks be

G.H.E.

The positions given have been checked after listing by charted on (AND MANN the charts indicated.

Chief of Party. CDK. RAY E. MOS

1970

CHARTS 5101 5101 5101 OFFSHORE CHART × LOCATION 1970 1970 DATE 1970 0 METHOD OF LOCATION AND SURVEY No. I-11870 SEXTANT SEXTAN T-11870 SEXTAN -11870 FIX FIX FIX 1927 DATUM 1927 1927 NA NA NA D. P. METERS 55.87 23.9 618. 1137 43.9 LONGITUDE \* 7-71 0 117 23 23 117 24 0 POSITION 117 de la D.M.METERS 21.2 SUBAR たったい 1063 653. 845. 34.5 27.4 LATITUDE \* FORM bim 53b riel. 4 12 • 33 33 33 4 00 Seo BIGNAL jetty -- an extension of the Sout Light located on the inner side of the south jetty at the entra to Oceanside Boat Basin. It is Jetty. It is listed as Light No the Pacific Coast & Pacific Is. 360,25 in Vol. III. Light List Listed as Light No. 360.35 in Pacific Coast and Pacific Is. Vol. III, Light List of the Harbor on the end of the new LORAC TOWER approximately Entrance light to Oceanside DESCRIPTION 150 feet high. Ok. Fl. California LORAC STATION CHARTING SOUTH JETTY STATE er de LIGHT 6 LIGHT 2

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 The data should be landmarks and nonfloating aids to navigation, if redetermined, shall be reported on this form. Revisions shall show both the old and new positions, considered for the charts of the area and not by individual field survey sheets. Information under each column heading should be given. \* TABULATE SECONDS AND METERS

USCOMM-DC 36485-P66

U.S. DEPARTMENT OF COMMERCE
ENVIRONMENTAL SCIENC RVICES ADMINISTRATION
COAST AND GL JETIC SURVEY

# NONFLOATING AIDS OR LANDMARKS FOR CHARTS

TO BE REVISED STRIKE OUT TWO

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

19 70

19 May

Mors

The positions given have been checked after listing by Howest.

24 CHARTS Chief of Party. 5101 OPPSHORE CHART × THAND BROHEN LOCATION 1963 DATE METHOD OF LOCATION AND SURVEY No. DATUM 1927 MA D. P. METERS LONGITUDE \* 23.9 POSITION • 117 (I) D. M. METERS LATITUDE # 3 4 72 -Koki . 33 なし as BIGNAL 30 5 Light List #360.31, Fl.R., 2.5s. 011 SOUTH JETTY LIGHT 2 as listed on T-11870 (name is correct Name changed to above from DESCRIPTION on chart 5101) SOUTH JETTY CHARTING STATE LIGHT 4

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 The data should be landmarks and nonfloating aids to navigation, if redetermined, shall be reported on this form. Revisions shall show both the old and new positions. considered for the charts of the area and not by individual field survey sheets. Information under each column heading should be given,

\* TABULATE SECONDS AND METERS