NOAA FORM 76-35 (6-80)

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

DESCRIPTIVE REPORT

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BE FIELD EDITED
Edition No.
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NOAA FORM 76-36A U. S. DEPARTMENT OF COMMERCE (3-72) NATIONAL OCEANIC AND ATMOSPHERIC ADMIN	TYPE OF SURVEY	SURVEY TP- 00708
	C ORIGINAL	MAP EDITION NO. $\{1\}$
DESCRIPTIVE REPORT - DATA RECORD	RESURVEY	MAP CLASS Class III
	REVISED	Final PAK CM-7604
PHOTOGRAMMETRIC OFFICE	LAST PRECEED	ING MAP EDITION
	TYPE OF SURVEY	JOB PH
Coastal Mapping Division, Norfolk, VA	D ORIGINAL	MAP CLASS
OFFICER-IN-CHARGE	☐ RESURVEY	SURVEY DATES:
	REVISED	19TO 19
Jeffrey G. Carlen, CDR		
I. INSTRUCTIONS DATED		
1. OFFICE	2.	FIELD
Aerotriangulation June 10, 1976	Pre-marking	January 12, 1976
Compilation August 20, 1976	Tide Observation	as January 23, 1976
·		
II. DATUMS	<u> </u>	
	OTHER (Specify)	
1. HORIZONTAL: XX 1927 NORTH AMERICAN		· · · · · · · · · · · · · · · · · · ·
XX MEAN HIGH-WATER	OTHER (Specify)	
2. VERTICAL:	İ	
MEAN LOWER LOW-WATER		
3. MAP PROJECTION		
	STATE 4.	ZONE
Lambert Conformal	California	5
5. SCALE 1:5,000	STATE	ZONE
III. HISTORY OF OFFICE OPERATIONS		
OPERATIONS	NAME	DATE
1. AEROTRIANGULATION BY ANDLOS BY	B. Thornton	Aug_1976
METHOD: ANALYCIC LANDMARKS AND AIDS BY		
2. CONTROL AND BRIDGE POINTS PLOTTED BY METHOD: Coradomat CHECKED BY	H. Jones	Aug 1976
METHOD: COLORONIAL CHECKED BY	H. Jones	Aug 1976
3. STEREOSCOPIC INSTRUMENT PLANIMETRY BY CHECKED BY	GM	June 1977
COMPILATION CHECKED BY INSTRUMENT: WILD BY CONTOURS BY	JLB	June 1977
SCALE: 1:7.500 CHECKED BY	N.A.	
4. MANUSCRIPT DELINEATION PLANIMETRY BY	R. R. Kravitz	Nov 1977
CHECKED BY	L. O. Neterer, Jr	
CONTOURS BY	N.A.	
METHOD: CHECKED BY	N.A.	
HYDRO SUPPORT DATA BY	R. R. Kravitz	Nov 1977
SCALE: 1:5,000 CHECKED BY	L. O. Neterer, Jr	. Dec 1977
5. OFFICE INSPECTION PRIOR TO FIELD EDIT BY	L. O. Neterer, Jr	
6. APPLICATION OF FIELD EDIT DATA	G. Morris	July 1978 _
CHECKED BY	J. Massey	July 1978
7. COMPILATION SECTION REVIEW Class III BY	C. Blood	Sept 1984
8. FINAL REVIEW Class III (final) BY	C. Blood/J. Byrd	Sept 1984
9. DATA FORWARDED TO PHOTOGRAMMETRIC BRANCH BY		
10. DATA EXAMINED IN PHOTOGRAMMETRIC BRANCH	J. Byrd	Jan. 1985
10. DATA EXAMINED IN PHOTOGRAMMETRIC BRANCH 11. MAP REGISTERED - COASTAL SURVEY SECTION BY	J. Schad E DAUGHERTY	May 1985

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NOAA FORM 76-36B (3-72)

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

TP-00708

			COM	PILATI	ON SOU	RCES				
1. COMPILATION PH	OTOGRAPH	Y								
CAMERA(S)			length=	TVD	** of pu	070054500				
Wild R.C 10"B" 152.74 mm)			111	LEG!	OTOGRAPHY END		TIME	REFERE	ENCE	
TIDE STAGE REFER							ZONE			!
 XX PREDICTED TIDE	. 5		- !	(C) C			Pa	cific		XXSTANDARD
REFERENCE STA		RD\$		(P) PANCHROMATIC		MERIC	DIAN			
XX TIDE CONTROLL	ED PHOTOG	RAPHY		(I) IN	FRARED		12	0th		DAYLIGHT
NUMBER AN	D TYPE		DATE	TIM	Œ	SCALE		STA	GE OF T	IDE
	0				_			_		
76B(C)2613-26			: 14,1976			1:15,00			above 1	
76B(I)2812-28			: 15,1976			1:15,00	1		below	
76B(I)3199-32	01**	Mar	21,1976	10:58	8	1:15,00	0.0	3 ft.	below	MLLW
			i				'			
			1						-	
1			-							
						·	Mean	tide	range	=3.5 ft.
REMARKS #The s	tage of	tide f	or 76B(C	1261314	⊨hmu 2i	616 wa s d	letermin	ed fro	om nred	dicted
I .	-								_	us 4.5 ft.
			iden, bsc	ero ba	y . 111144	was comp	uceu co	De m	TEN PI	us 4.5 IC.
2. SOURCE OF MEA										
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tide	coordina	ated in	frared pl	hotogra	aphs a	t mean hi	.gh wate	r.		
,										
3. SOURCE OF MEM	<u>KKOWWATE</u>	18:18:18 MEA	N LOWER LO	W-WATER	LINE:					,
**The m	ean lowe	r low	water lin	ne was	compi:	led graph	ically	from t	he abo	ove
						raphs at	_			
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•										
·										
4. CONTEMPORARY	HYDROGRA	PHIC SUR	VEYS (List of	nly those s	urveys th	nt are sources	for photogra	mmetric s	urvey info	ermation.)
SURVEY NUMBER	DATE(S)		SURVEY COP	Y USED	SURVE	Y NUMBER	DATE(S)		SURVEY	COPY USED
								Ì		
	1				1					
5. FINAL JUNCTION	<u> </u>						1			
NORTH	-	EAST			SOUTH			WESTT	P-0070	07
No survey		NO.	survey		1 ,	No survey			P-0070	
REMARKS			<u> </u>		<u>, </u>			·		·
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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. XXFIELD INSP	ECTION O	PERATION] FIELC	EDIT OPERATION		
		OPERATION			NAME	DATE
1. CHIEF OF FIEL	D PARTY			R. Melby		Mar 1976
		RECOVERE	D BY	R. Melby		Mar 1976
2. HORIZONTAL C	CONTROL	ESTABLISHE	D BY	None		
		PRE-MARKED OR IDENTIFIE	DBY	L. Riggers		Mar 1976
		RECOVERE	D BY	N.A.		
3. VERTICAL CON	NTROL	ESTABLISHE	D BY	N.A.		<u> </u>
		PRE-MARKED OR IDENTIFIE	DBY	N.A.		
_		RECOVERED (Triangulation Station	s) BY	None		
4. LANDMARKS AT AIDS TO NAVIG		LOCATED (Field Method	s) BY	<u>None</u>		·
		TYPE OF INVESTIGATION		None	<u> </u>	
		COMPLETE				
5. GEOGRAPHIC N		SPECIFIC NAMES ONL	υВΥ			
		NO INVESTIGATION	. T			
(BUOTO NICES					<u> </u>	·
6. PHOTO INSPEC		CLARIFICATION OF DETAIL		None		
7. BOUNDARIES A		SURVEYED OR IDENTIFIE	ВВУ	N.A.		
1. HORIZONTAL C		DENTIFIED		2. VERTICAL CON	TROL IDENTIFIED	
PHOTO NUMBER		STATION. NAME		PHOTO NUMBER	STATION DES	IGNATION
565 (5) 555						
76B(C)2267	BLACK	HILL, 1881		:		
1						
3. PHOTO NUMBE	RS (Clarific	Cation of details)				
None						
4. LANDMARKS A	ND AIDS TO	NAVIGATION IDENTIFIED				
ļ <u>, .</u>						
None						
PHOTO NUMBER		OBJECT NAME		PHOTO NUMBER	OBJECT	NAME
}	}					
5. GEOGRAPHIC		REPORT XX NONE		6. BOUNDARY AN	D LIMITS: REPOR	RT XX NONE
7. SUPPLEMENTA	L MAPS AI	ND PLANS				
None		<u></u>				
		(Sketch books, etc. DO NOT list data			ivision)	
	Tides l	oook)covers entire p	cojec	t.		
1 Form 152						
	-,					<u></u>

NOAA FOR (3-72)	м 76-36D	RECO	TP-00708 RD OF SURVEY USE	U, S. DEPARTME AND ATMOSPHERIC	
. MANUSC	RIPT COPIES				
	cc	MPILATION STAGE	S	DATE MANUSCR	PT FORWARDED
	DATA COMPILED	DATE	REMARKS	MARINE CHARTS	HYDRO SUPPOR
	ation complete g field edit	November 1977	Class III manuscript	None	None
Field	edit applied.	July 1978	(Canceled) Class I manuscript	July 1978 Chart Main.	None [,]
Final	Review Class III	September 1984	Final Class III Map	May 1985	
PAGES	ARKS AND AIDS TO NAVIGORTS TO MARINE CHART DE CHART LETTER NUMBER ASSIGNED	DATE FORWARDED	R	EMARKS	
1		7/18/78	1 Landmark to be dele	· ·	
		•	PILOT BRANCH. DATE FORWARD, AERONAUTICAL DATA SECTION.		
1. <u>[X]</u> 2. <u>[X]</u> 3. <u>[X]</u>	ACCOUNT FOR EXCEPTION eld edit mylar oz	EX DUPLICATE OFFICATION CARDS; Geographic Names Re NS: alid were los	FORM NOS 567 SUBMITTED		

SURVEY NUMBER

SURVEY NUMBER

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TP - .

DATE OF PHOTOGRAPHY

DATE OF PHOTOGRAPHY

DATE OF PHOTOGRAPHY

SECOND

EDITION

THIRD

EDITION

FOURTH

JOB NUMBER

JOB NUMBER

JOB NUMBER

PH -

PH- ___

(3)

DATE OF FIELD EDIT

DATE OF FIELD EDIT

DATE OF PIELD EDIT

PH - _

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TYPE OF SURVEY

MAP CLASS

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REVISED RESURVEY

FINAL

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RESURVEY

RESURVEY

This 1:5,000 scale Class III shoreline manuscript is one of eleven maps designated as CM-7604, Point Conception to Point Estero, California.

The purpose of this project is to provide current charting information for nautical chart maintenance and to furnish support data for hydrographic operations.

This final Class III map portrays the west limits of Morro Bay and includes streams entering into the west side of the Bay and a marina at White Point. Except for channels, Morro Bay is a mud flat at low tide.

Field work prior to compilation consisted of the recovery and identification of the horizontal control necessary for the aerotriangulation of the project and establishing and monitoring tide gages while the photography was being taken for the tide coordinated infrared photographs. This activity was completed March 1976.

Photo coverage was adequately provided by natural color and tide coordinated infrared photographs. All photographs were taken with the RC-10 (B) camera, March 1976 at 1:15,000 scale. The black-and-white infrared photos were ratioed to the manuscript scale. They were used for graphic delineation of all detail and includes the MLLW and MHW lines.

Analytic aerotriangulation was adequately provided by the Washington Science Center in August 1976. Aerotriangulation operations included ruling the base manuscripts, determining ratio values for photographs and locating visible non-floating navigation aids and landmarks.

Compilation, based upon photo interpretation, was performed by the Coastal Mapping Unit at the Atlantic Marine Center December 1977. Compilation included the use of MHW and MLLW tide coordinated infrared photographs ratioed to the manuscript scale. Refer to the Compilation Report, Item #31 and NOS Form 76~36B for specific usage of the photography.

Project material was forwarded from AMC to PMC for field edit. Field edit was performed at PMC in conjunction with Hydrographic Survey OPR L-100-FA-78. The field edit material was lost and could not be verified at AMC during final review. The map was classified as a Class I map at PMC, but was reclassified as a Class III at AMC final review inspection.

Final review was performed at the Atlantic Marine Center August 1984. A Chart Maintenance Print was prepared and forwarded to the Marine Charts Branch.

This Descriptive Report contains all pertinent information used to compile this Final Class III map. The original base manuscript and all related data were forwarded to the Washington Science Center for final registration.

FIELD INSPECTION TP-00708

There was no field inspection prior to compilation. Field work accomplished was limited to the recovery and identification (premarking) of the horizontal control necessary for the aerotriangulation of the project and the monitoring of tide gages for the tide coordinated infrared photography.

1

Photogrammetric Plot Report Pt. Conception to Pt. Estero, California CM-7604 August 1976

Area Covered

The area covered by this report is the southwest coast of California from Pt. Conception to Pt. Estero. This area is covered by six 1:20,000 scale sheets:

TP-00706 TP-00710 TP-00713 thru TP-00716

Two 1:10,000 scale sheets:

TP-00711 TP-00712

Three 1:5,000 scale sheets:

TP-00707 thru TP-00709

Method

Four strips of color photography were bridged by analytic aerotriangulation methods. Three bridging strips were at a 1:60,000 scale and one strip at 1:30,000 scale photography.

The four strips were controlled by field identified control including some office identified control which was used as checks.

Common points were located on the bridging photography and the tide-controlled IR for ratio purposes. Ratios were ordered on August 11, 1976. In addition, common points were located on the bridging and compilation photography. The points read on the bridging strips are more than adequate for compilation purposes. Tie points were used in all four strips to insure an adequate junction of all strips during the adjustments. Sheets were ruled on the coradomat.

Adequacy of Control

Control checked well within map accuracy standards and is more than sufficient for its intended use at the varying manuscript scales.

Supplemental Data

USGS quadrangles were used to provide vertical control for the strip adjustments.

Photography

The coverage, overlap, and quality of the photography was adequate for the job.

Submitted by:

Brian F. Thornton

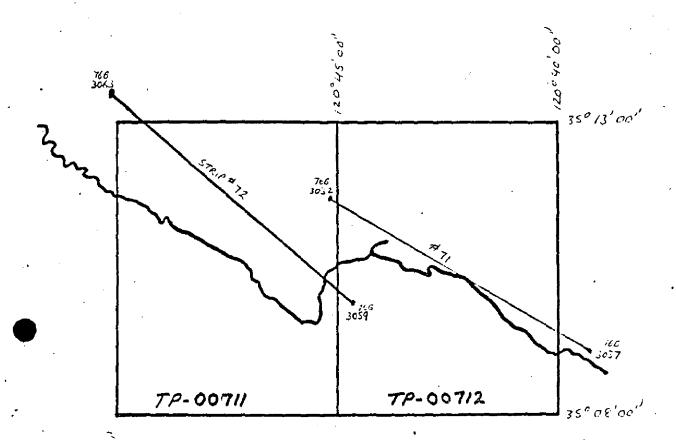
Approved and Forwarded:

Chief, Aerotriangulation Section

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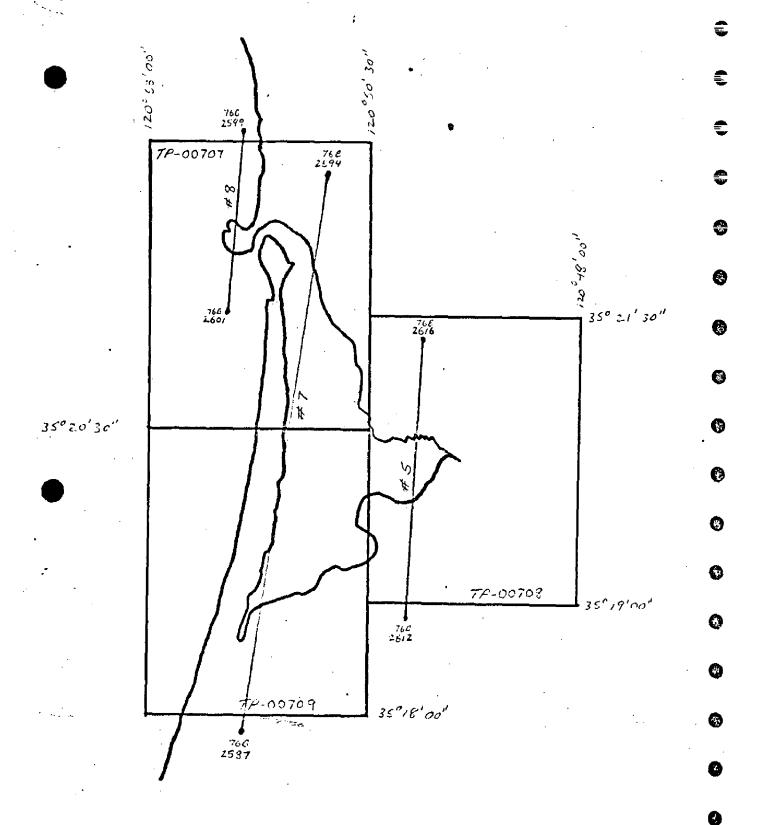
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COMPILATION PHOTOGRAPHY

FOR

1:10,000 SHEETS



COMPILATION PHOTOGRAPHY
FOR

1:5,000 SHEETS

Accuracy of Control Used In Strip Adjustment

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263/00		2.3	·······
689100		0.3	
69/100	0.6		
		0.2	
•		-0,j	
		0.7	
2.68/01	- 0,3	-0,6	
269100	0.6	-0.1	
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COMPILATION REPORT

TP-00708

31 - DELINEATION

Delineation was accomplished using stereo instrument and graphic compilation methods. Instrument compilation was used to delineate shoreline, scale bridging/compilation color photographs. Tide coordinated MHW infrared photographs were used to graphically compile the mean high water line. Tide coordinated MLW infrared ratio photographs were used to graphically compile the approximate mean lower low water line. Control for graphic delineation was provided by the instrument compilation of shoreline detail and common image points.

32 - CONTROL

Horizontal control was adequate. Refer to the Photogrammetric Plot Report dated August 1976.

33 - SUPPLEMENTAL DATA

None.

34 - CONTOURS AND DRAINAGE

Contours are not applicable to the project. Drainage was compiled by office interpretation of the photographs.

35 - SHORELINE AND ALONGSHORE DETAILS

The shoreline and alongshore detail compilation is described in item #31. All detail is compiled as of date of photography.

36 - OFFSHORE DETAILS

NONE.

37 - LANDMARKS AND AIDS

There are no landmarks or non-floating aids within the limits of this manuscript.

38 - CONTROL FOR FUTURE SURVEYS

None.

39 - JUNCTIONS

Refer to the Data Record Form 76-36B, Item #5.

40 - HORIZONTAL AND VERTICAL ACCURACY

Refer to Item #32 of this report.

46 - COMPARISON WITH EXISTING MAPS

The following U.S. Geological Survey Quadrangle was compared with the manuscript: Cayucos, CA, scale 1:62,500, dated 1951.

47 - COMPARISON WITH NAUTICAL CHARTS

A comparison has been made with the following NOS Charts: 18700, scale 1:216,116, dated July 3, 1976, llth edition; and 18703, scale 1:40,000 with 1:10,000 inset, dated December 27, 1975, 12th edition.

ITEMS TO BE APPLIED TO NAUTICAL CHARTS IMMEDIATELY

None.

ITEMSTO BE CARRIED FORWARD

None.

Submitted by,

Robert R. Kravitz

Cartographic Technician

November 1977

Approved,

Albert C. Rauck, Jr.

Chief, Coastal Mapping Section

GEOGRAPHIC NAMES

FINAL NAME SHEET

CM-7604 (Point Conception to Point Estero, California)

TP-00708

Baywood Park (locality)

Chorro Creek

Los Osos Creek

Morro Bay

Morro Bay (locality)

Approved by:

Charles E. Harrington

Chief Geographer

Nautical Charting Division

REVIEW REPORT TP-00708 SHORELINE

61 - GENERAL STATEMENT

See Summary included with this Descriptive Report.

62 - COMPARISON WITH REGISTERED TOPOGRAPHIC SURVEYS

Not applicable.

63 - COMPARISON WITH MAPS OF OTHER AGENCIES

A comparison was made with the following U.S.G.S. quadrangle: Cayucos, CA, scale 1:62,500, dated 1951.

64 - COMPARISON WITH CONTEMPORARY HYDROGRAPHIC SURVEYS

Hydrographic Survey H-9737, January-February 1978, 1:5,000 scale was used for comparison. This map compares well.

65 - COMPARISON WITH NAUTICAL CHARTS

A comparison was made with the following NOS Charts: 18703, scale 1:40,000 with 1:10,000 inset, dated June 11, 1983, 18th edition; and 18700, scale 1:216,116, dated Novembr 8, 1980, 13th edition.

A final Class III Chart Maintenance Print indicating all changes was prepared and forwarded to Marine Charts Branch.

66 - ADEQUACY OF RESULTS AND FUTURE SURVEYS

This map complies with the Project Instructions and meets the requirements for National Standards of Map Accuracy.

Submitted by,

James L. Byrd, Jr.

Jane J. Boyel, fr.

Final Reviewer

Approved for forwarding,

Billy H. Barnes $^{\mathcal{O}}$ Chief, Photogrammetric Section, AMC

Approved,

Chief, Photogrammetry Branch, Rockville

NAUTICAL CHART DIVISION

RECORD OF APPLICATION TO CHARTS

FILE WITH DESCRIPTIVE REPORT OF SURVEY NO.

INSTRUCTIONS

A basic hydrographic or topographic survey supersedes all information of like nature on the uncorrected charr 1. Letter all information.

2. In "Remarks" column cross out words that do not apply.

3. Give reasons for deviations, if any, from recommendations made under "Comparison with Charts" in the Rev

CHART	DATE	CARTOGRAPHER	REMARKS
			Full Part Before After Verification Review Inspection Signed Via
			Drawing No.
			Full Part Before After Verification Review Inspection Signed Via
			Drawing No.
			Full Part Before After Verification Review Inspection Signed Via
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FORM CAGS-8352 SUPERSEDES ALL EDITIONS OF FORM CAGS-978.

USCOMM- DC 4555-P45