NOAA FORM 76-35 (6-80)

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

DESCRIPTIVE REPORT

Map No.	TP-00443	Edition No.	O n e
Job No.	CM-7802		
Map Clas.	sification		
	FINÂL MAP		
Type of S			
ļ ''	Shoreline		
	LOCALIT	ſ	y
State			
	California		
General L	Locality		
	Monterey Bay		
Locality	Monterey Harbor		
	1978 TO 19	9 80	
	REGISTERED IN A	RCHIVES	
DATE			

NOAA FORM 76-36A U. S. DEPARTMENT OF COMMERCE (3-72) NATIONAL OCEANIC AND ATMOSPHERIC ADMIN	TYPE OF SURVEY	SURVEY TP. 00443
. The same and the	ORIGINAL	MAP EDITION NO. (1)
DESCRIPTIVE REPORT - DATA RECORD	RESURVEY	Map class Final Map
	REVISED	лов № СМ-7802
PHOTOGRAMMETRIC OFFICE	LAST PRECED	ING MAP EDITION
Coastal Mapping Division, AMC,	TYPE OF SURVEY	JOB PH
Norfolk, Virginia	DORIGINAL	MAP CLASS
OFFICER-IN-CHARGE	RESURVEY	SURVEY DATES:
	REVISED	19TO 19
Roy K. Matushige, CDR	<u>l</u>	_
1. OFFICE	2.	FIELD
Aerotriangulation Oct. 17, 1978	Control	April 4, 1978
Aerotriangulation oct. 17, 1970	Control	April 4, 1970
Office Jan. 10, 1979		
II. DATUMS		
1. HORIZONTAL: XX 1927 NORTH AMERICAN	OTHER (Specify)	
	OTHER (Specify)	
XX MEAN HIGH-WATER ☐ MEAN LOW-WATER		
2. VERTICAL: MEAN LOWER LOW-WATER		
MEAN SEA LEVEL		
3. MAP PROJECTION ;		GRID(S)
Lambert Conformal Conic	California	ZONE 4 .
5. SCALE	STATE	ZONE
III. HISTORY OF OFFICE OPERATIONS		<u> </u>
OPERATIONS	NAME	DATE
1. AEROTRIANGULATION BY	S. Solbeck	Jan. 1979
METHOD: Analytic LANDMARKS AND AIDS BY		Jan. 1979
2. CONTROL AND BRIDGE POINTS PLOTTED BY	S. Solbeck	Jan. 1979
метнор: Calcomp 748 снескер ву	D. Norman	Jan. 1979
3. STEREOSCOPIC INSTRUMENT PLANIMETRY BY	D. Butler	Feb. 1979
COMPILATION CHECKED BY	F. Margiotta	Feb. 1979
INSTRUMENT: Wild B-8 CONTOURS BY	N.A.	
SCALE: 1:10 000 CHECKED BY 4. MANUSCRIPT DELINEATION PLANIMETRY BY	N.A. D. Butler	Feb. 1979
CHECKED BY	L. Neterer, Jr.	Mar. 1979
CONTOURS BY	N.A.	
метнор: Smooth drafted checked by	N.A	
SCALE: 1:10,000 HYDRO SUPPORT DATA BY	D. Butler	Feb. 1979
CHECKED BY	L. Neterer, Jr.	Mar. 1979
5. OFFICE INSPECTION PRIOR TO FIELD EDIT BY	L. Neterer, Jr.	Mar. 1979
6. APPLICATION OF FIELD EDIT DATA CHECKED BY	G. Morris W. Richter	Aug. 1980 Oct. 1980
7. COMPILATION SECTION REVIEW BY	D. Butler	Feb. 1985
8. FINAL REVIEW BY	L. O. Neterer, Jr	
9. DATA FORWARDED TO PHOTOGRAMMETRIC BRANCH BY	L. O. Neterer, Jr	May 1985
10. DATA EXAMINED IN PHOTOGRAMMETRIC BRANCH BY	J. Schod	June 1985
I 11. MAP REGISTERED - COASTAL SURVEY SECTION BY	I E DADGHERKY	CFD 1096

(3-72)			NATIONAL OCEAN	C AND ATMOSE	PHERIC AD	
	CON	TP-00443 APILATION SOU	IRCES	N/	ITIONAL C	CEAN SURVEY
						-
1. COMPILATION PHOTOGRAPHY CAMERA(S) / To	cal length			т		
Wild R.C10 "B" is	152.74 mm)		IOTOGRAPHY END	<u></u>	E REFERE	INCE
TIDE STAGE REFERENCE		(C) COLOR		ZONE	- -	~~~
PREDICTED TIDES REFERENCE STATION RECORDS		(P) PANCHRO	MATIC	Pacif:	TG	X STANDARI
TIDE CONTROLLED PHOTOGRA		(I) INFRARED		120tl	n.	DAYLIGHT
NUMBER AND TYPE	DATE	TIME	SCALE		AGE OF T	l 1DE
78B (P) 2336 - 2339		14:05	1:30,000			M.L.L.W.
78B (P) 2345 - 2347	April 8,'78	14:20	1:30,000	2.5 ft.	above	M.L.L.W.
* 78B (P) 2354 - 2358	April 8,'78	14:41	1:20,000	2.2'ft.	above	M.L.L.W.
* 78B (P) 2364 - 2369	April 8,'78	14:55′	1:20,000	2.1 ft.	above	M.L.L.W.
* Hydro support				_		
REMARKS The tide gage used to	commute the	rtomo of tid	o of the pho	tomanha	ia ot N	Ionterest
The tide gage used to	Compute size s	stage of the	e or me buo	OSTAPHS	TO GU L	lombere y .
2. SOURCE OF MEAN HIGH-WATER	LINE:					
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The mean high water li	ne was compi.	red irom the	above liste	a panenro	патте І	notogra <u>p</u> r
,		٠				
3. SOURCE OF MEANDLOWANDER	MEAN LOWER LO	W-WATER LINE:				
None compiled.						
. CONTEMPORARY HYDROGRAPH	IC SURVEYS (List o	this those surveys to	hat are pources for n	hotodesammeteic	eveney inf	ormation)
	 		··		·	
SURVEY NUMBER DATE(S)	SURVEY COF	PY USED SUHVI	EY NUMBER DA	ATE(S)	SURVEY	COPY USED
- F. M. 11 11 11 11 11 11 11 11 11 11 11 11 11					!	
S. FINAL JUNCTIONS	AST	SOUTH		WEST		
No survey	No surve		No survey			urvey
REMARKS		-				· <u>-</u> -

NOAA FORM 76-36C (3-72)		TP-00443 History of Field		NIC AND ATMOSE	ARTMENT OF COMMERCE PIERIC ADMINISTRATION ITIONAL OCEAN SURVEY
I. X FIELD INSPE	CTION OPERA	ATION (PREMARKING) FIEL	D EDIT OPERATION	!	
	OPE	RATION		NAME	DATE
1. CHIEF OF FIELD					
the content of the			R. Melby		Sept. 1978
2. HORIZONTAL CO	NTROL	RECOVERED BY ESTABLISHED BY	R. Melby None	<u> </u>	Sept. 1978
Zi HORIZONTAL CO	NI HOUL	PRE-MARKED OR IDENTIFIED BY	L. Rigge	rg	Sept. 1978
		RECOVERED BY	None		
3. VERTICAL CON	TROL	ESTABLISHED BY	None		
		PRE-MARKED OR IDENTIFIED BY	None		
<u> </u>	RE	OVERED (Triangulation Stations) BY	None		
4. LANDMARKS AN	D	LOCATED (Field Methods) BY	None		
AIDS TO NAVIGA	TION	IDENTIFIED BY	None		
		TYPE OF INVESTIGATION			,
5. GEOGRAPHIC NA INVESTIGATION	AMES	COMPLETE			
INVESTIGATION		SPECIFIC NAMES ONLY			
		X NO INVESTIGATION			
6. PHOTO INSPECT		CLARIFICATION OF DETAILS BY	None		
7. BOUNDARIES AN	ID LIMITS	SURVEYED OR IDENTIFIED BY	Not appl	<u>lcable</u>	
1. HORIZONTAL CO	ONTROL IDEN	TIFIED	2. VERTICAL CO	NTROL IDENTIFE	ED
PHOTO NUMBER		STATION NAME	PHOTO NUMBER	STATIO	N DESIGNATION
78B(P)2345		4, 1964			
78B(P)2346	Mussel,				
78B(P)2338		(CDH), 1972	<u></u>		
3. PHOTO NUMBER	S (Clarification	n of details)			
	None	_			_
4. LANDMARKS AN	D AIDS TO NA	VIGATION IDENTIFIED			
	None				
PHOTO NUMBER		OBJECT NAME	PHOTO NUMBER	ОВ	JECT NAME
5. GEOGRAPHIC N	AMES: I	REPORT TO NONE	6. BOUNDARY AN	ID LIMITS:	REPORT (X) NONE
7. SUPPLEMENTAL					
u.	None				
8. OTHER FIELD R	ECORDS (Sket	ch books, etc. DO NOT list data submit	tted to the Geodesy D	livision)	
	3 forms	76-53			

NOAA FORM 76-36C U. S. DEPARTMENT OF COMMERCE NATIONAL OCEANIC AND ATMOSPHERIC ADMINISTRATION NATIONAL OCEAN SURVE TP-00443 HISTORY OF FIELD OPERATIONS XX FIELD EDIT OPERATION 1. THELD INSPECTION OPERATION OPERATION DATE 1. CHIEF OF FIELD PARTY D. Seidel Sept. 1979 RECOVERED BY R. Melby Sept. 1979 2. HORIZONTAL CONTROL ESTABLISHED BY None PRE-MARKED OR IDENTIFIED BY R. Melby Sept. 1979 RECOVERED BY None 3. VERTICAL CONTROL ESTABLISHED BY None PRE-MARKED OR IDENTIFIED BY None <u>None</u> RECOVERED (Triangulation Stations) BY 4. LANDMARKS AND LOCATED (Field Methods) BY None AIDS TO NAVIGATION IDENTIFIED BY None TYPE OF INVESTIGATION COMPLETE 5. GEOGRAPHIC NAMES SPECIFIC NAMES ONLY INVESTIGATION NO INVESTIGATION 6. PHOTO INSPECTION CLARIFICATION OF DETAILS BY None 7. BOUNDARIES AND LIMITS SURVEYED OR IDENTIFIED BY Not Applicable II. SOURCE DATA 1. HORIZONTAL CONTROL IDENTIFIED 2. VERTICAL CONTROL IDENTIFIED <u>None</u> PHOTO NUMBER PHOTO NUMBER STATION DESIGNATION STATION NAME 3. PHOTO NUMBERS (Clarification of details) None 4. LANDMARKS AND AIDS TO NAVIGATION IDENTIFIED <u>None</u> PHOTO NUMBER OBJECT NAME PHOTO NUMBER OBJECT NAME 5. GEOGRAPHIC NAMES: REPORT MONE 6. BOUNDARY AND LIMITS: T REPORT NONE 7. SUPPLEMENTAL MAPS AND PLANS None 8. OTHER FIELD RECORDS (Sketch books, etc. DO NOT list data submitted to the Geodesy Division) Fix positions & signal overlay, Field Edit Report, Fix Volume

Field Edit Ozalid (film) Field Edit Print (paper)

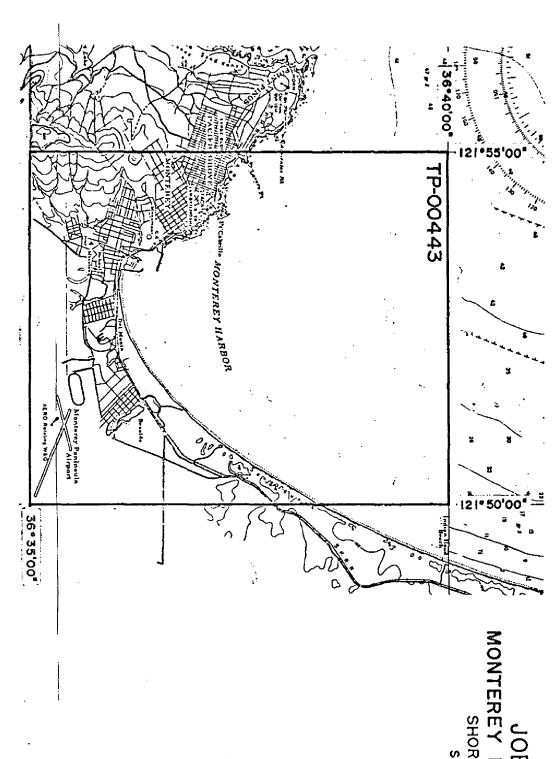
NOAA FORM 76-36 (3-72)	С		NATIONAL OCEA	NIC AND ATMOSPHERIC	
		TP-00443		NATIONA	AL OCEAN SURVEY
	· <u>-</u>	HISTORY OF FIELD	DPERATIONS		
I. [] FIELD INSP	ECTION OF	ERATION X FIELD	EDIT OPERATION		
		PERATION		NAME	DATE
1. CHIEF OF FIE	LD PARTY		G. Mills,	LCDR	Aug. 1980
		RECOVERED BY	G. Mills,	LCDR	Aug. 1980
2. HORIZONTAL	CONTROL	ESTABLISHED BY	None		
		PRE-MARKED OR IDENTIFIED BY	None		
		RECOVERED BY	None		
3. VERTICAL CO	NTROL	ESTABLISHED BY	None	<u> </u>	
		PRE-MARKED OR IDENTIFIED BY	None		
<u> </u>		RECOVERED (Triangulation Stations) By	None		
4. LANDMARKS A		LOCATED (Field Methods) BY	None_		
AIDS TO NAVIO	SATION	IDENTIFIED BY	None		
		TYPE OF INVESTIGATION			
5. GEOGRAPHIC	NAMES	COMPLETE BY			
INVESTIGATIO	N	SPECIFIC NAMES ONLY			
		X NO INVESTIGATION			
6. PHOTO INSPEC	TION	CLARIFICATION OF DETAILS BY	None		
7. BOUNDARIES	NO LIMITS	SURVEYED OR IDENTIFIED BY	Not appli	cable	
II. SOURCE DATA					
I. HORIZONTAL	CONTROL II	DENTIFIED None	2. VERTICAL COI	TROLIDENTIFIED N	one
PHOTO NUMBER		STATION NAME	PHOTO NUMBER	STATION DES	IGNATION
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		•			
)		
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3. PHOTO NUMBE	ERS (Clarific	Ţ.			
		None			
4. LANDMARKS A	ND AIDS TO	NAVIGATION IDENTIFIED			
ENGLINGING					
		None			
PHOTO NUMBER	T	OBJECT NAME	PHOTO NUMBER	OBJECTI	NAME
<u> </u>	 				
			}		
			{		
			j		
5. GEOGRAPHIC	NAMES:	REPORT K NONE	6. BOUNDARY AN	D LIMITS: REPOR	RT X NONE
7. SUPPLEMENT				on 1.	
		print of City of Monterey			and
		ection of USCG print for sm			
8. OTHER FIELD	RECORDS	Sketch books, etc. DO NOT list data submit	ted to the Geodesy D	lvision)	
.	_ ===				
Letter fro	om LCDR.	Mills dated 15 Aug. 1980.		•	

NOAA FORM 76-36D (3-72)

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

TP-00443

			RECO	RD OF SURVE	Y USE					
I. MANUSCRI	IPT COPIES								•	
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DA	TA COMPILED		DATE	ŔE	MARKS		MARINE	CHARTS	HYDRO SU	PPORT
	ation complete g field edit.	Ma	r. 1979	Class II	I Manusc	ript	Mar.	1979	Mar.	1979
I	edit applied. ation complete.	00	t. 1980	Class I	Manuscri	pt 	Jun	e 1985		
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I. REPOF	RTS TO MARINE CHART DE	VISIO	N, NAUTICAL	DATA BRANCH			 ,		<u> </u>	<u> </u>
NUMBER	CHART LETTER Number Assigned	F	DATE PRWARDED	1		REM	ARK\$			
3		Ju	ne 1985	Appropri this Des				attacl	ned wit	h
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	EPORT TO MARINE CHART		•							
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2. [1] C 3. [3] SO A	RIDGING PHOTOGRAPHS; ONTROL STATION IDENTI DURCE DATA (except for G CCOUNT FOR EXCEPTION ATA TO FEDERAL RECOR	FICA' eograf	TION CARDS;	FORM NO:	S 567 SUBMI	TTED BY	Y FIELD A	PARTIES.		
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SECOND	TP	(2)	РН •		!	☐ RE	VISED	RES	URVEY	-
EDITION	DATE OF PHOTOGRAPH	17	DATE OF FI	ELD EDIT] □n.	□ III.	MAP C		FINA	.L
<u>-</u>	SURVEY NUMBER		JOB NUMBER	₹			TYPE OF	_		
THIRD	TP	(3)	PH			∐ RE	VISED		URVEY	
EDITION	DATE OF PHOTOGRAPH	IY	DATE OF FII	ELO EDIT	n.	□ш.	MAP C		FINA	L
	SURVEY NUMBER		JOB NUMBER	₹			TYPE OF		-	
FOURTH	TP -	(4)	PH			L.J.REV	VISED		ÜRVĖY	
EDITION	DATE OF PHOTOGRAPH	łY.	DATE OF FII	ELD EDIT	П.,	П	MAP C	LASS	П	



JOB CM-7802
MONTEREY HARBOR, CALIFORNIA
SHORELINE MAPPING
SCALE 1-10,000

SUMMARY TO ACCOMPANY DESCRIPTIVE REPORT

TP-00443

This 1:10,000 scale shoreline map is the only map in the project CM-7802, Monterey Harbor, California.

This project encompasses Monterey Harbor from longitude 121^o51'00" west to longitude 121^o55'00".

Photographic coverage was provided in April 1978 using the "B" camera (focal length 152.74mm) with black-and-white panchromatic film at 1:30,000 for bridging and compilation and 1:20,000 scale for hydro support.

Field work prior to compilation consisted of photoidentification of horizontal control. It was accomplished in September 1978 and was done to meet the requirements for aerotriangulation.

Analytic aerotriangulation was performed at the Washington Science Center in January 1979.

Compilation was accomplished and hydrographic support photographs were prepared at the Atlantic Marine Center in March 1979.

The project was sent to the Pacific Marine Center in July 1979.

Field edit was done by the Naval Postgraduate School students and NOAA personnel from the ship DAVIDSON from August thru September 1979.

Additional field edit was accomplished in August of 1980. Field edit was applied at PMC during October 1980. Final Review was performed at the Atlantic Marine Center in May 1985.

This Descriptive Report contains all pertinent information used to compile this final map.

The original base map and all pertinent data were forwarded to the Washington Science Center for final registration.

FIELD INSPECTION

TP- ØØ443 .

There was no field inspection prior to compilation. Field work accomplished was limited to the recovery and identification of the horizontal control necessary for the aerotriangulation of the project.

Photogrammetric Plot Report Monterey Harbor, California

CM-7802 January 4, 1979

Area Covered

The area covered by this report is the immediate shoreline bounding and including Monterey Harbor, California.

The area is covered by one 1:10,000 scale manuscript (TP-00443).

Method

Two strips of 1:30,000 scale black and white panchromatic photography were bridged by analytic aerotriangulation methods. Field identified control was provided. Office identified control and tie points between the strips were used as a check.

Common points were dropped from the bridging photography to the 1:20,000 scale panchromatic compilation photography for ratio purposes.

Ratio prints of all photography have been oredered as requested.

The manuscript was plotted on the CALCOMP 748 plotter.

Adequacy of Control

The control proved adequate according to National Map Accuracy Standards.

Supplemental Data

USGS quads were used to provide vertical control for the strip adjustments. A reproduced portion of Nautical Chart 18685 was used to locate aids and landmarks.

Photography

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

Approved and Forwarded:

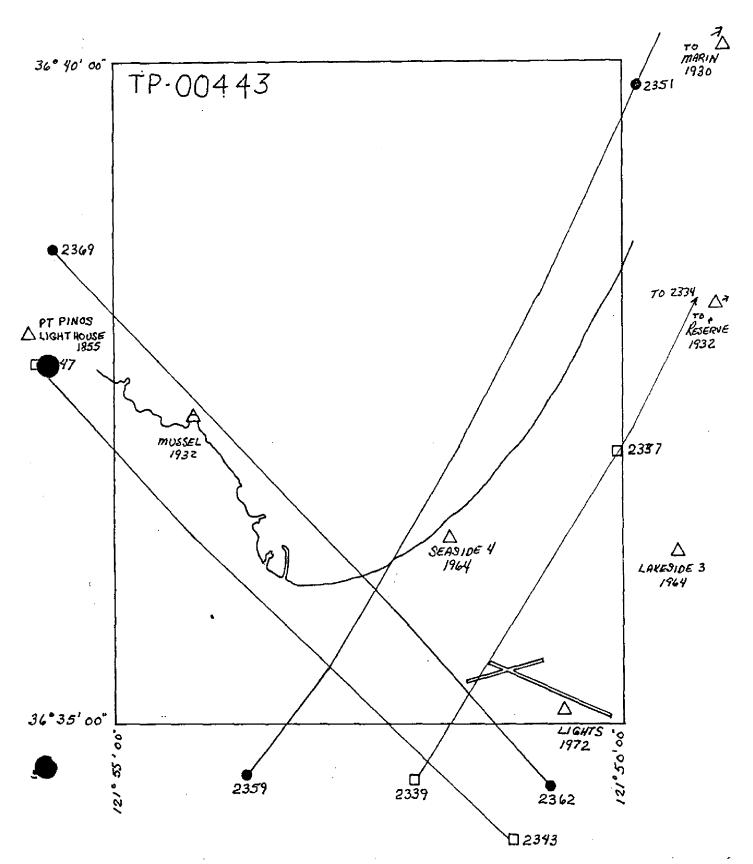
Don O. Norman

Chief, Aerotriangulation Section

MONTEREY HARBOR, CALIFORNIA CM 7802

78B(P) 1:30000 BRIDGING PHOTOGRAPHY

● 788(P) 1:20000 COMPILATION PHOTOGRAPHY



U.S. DEPARTMENT OF COMMERCE NATIONAL OCEANIC AND ATMOSPHERIC ADMINISTRATION A.M.C. DATE 22 Jan. 1979 DATE 22 Jan. 1979 DATE 22 Jan. 1979 Coastal Mapping Division, REMARKS 54.67765"~ 23.144596" 38.83281" 56.78903"~ 24.782" -48.453" 19.061" 01.280" / 11.628" 22.370" 30.679" 18.151" γ rongitude \$\phi\$ LATITUDE GEOGRAPHIC POSITION 531 361 37, 5 35 겊 36 53 361 38 셠 2 SUPERSEDES NOAA FORM 76-41, 2-71 EDITION WHICH IS OBSOLETE. HAND PLOTTING CHECKED BY

L. Neterer Jr. & D.Butler COMPUTATION CHECKED BY I. & D. Butler LISTING CHECKED BY D. & D. Butler L. 121° 121° 121° ૹૢ 121° 121° 36° 36° 121° 36 36° ૹૢ DESCRIPTIVE REPORT CONTROL RECORD 0 ~ 0 Φ. ⊕. ~ Φ. ~ Ф. ~ North American 1927 STATE California COORDINATES IN FEET ZONE ij ž **#** ۲ ä ä #f Ę, ž, * ĭ 15 £ ı, 'n ***** 3 뽔 ä £ 22 Jan. 179 22 Jan. '79 22 Jan. 179 AEROTRI-ANGULATION POINT NUMBER 346119 346100 338100 345116 CM-7802 SOURCE OF INFORMATION 361214 361214 361214 361214 361214 MONTEREY RADIO STATION ' KMBY MAST, 1962 MONTEREY PRESIDIO > LIGHTS (CDH), 1972 HAND PLOTTING BY

D. Butler

D. Butler Butler D. Butler STATION NAME MONTEREY HARBOR LIGHT 6, 1978 SEASIDE 4, 1964 MONUMENT, 1932 TP-00443 MUSSEL, 1932 NOAA FORM 76-41 COMPUTED BY LISTED BY

COMPILATION REPORT

TP-00443

31 - DELINEATION

Delineation was by instrument method using the Wild B-8 stereoplotter, and 1:30,000 black and white panchromatic photographs. The quality and coverage was adequate.

32 - CONTROL

Refer to the Photogrammetric Plot Report dated January 4, 1979. The placement, accuracy, and identification of the aerotriangulated control, which was furnished for the purpose of controlling the stereo models, was adequate for compilation.

33 - SUPPLEMENTAL DATA

None.

34 - CONTOURS AND DRAINAGE

Contours are not applicable to the project. Drainage was delineated by the Wild B-8 stereoplotter and supplemented by office stereoscopic interpretation of the ratio photographs.

35 - SHORELINE AND ALONGSHORE DETAILS

See form 76-36B, item 2 for delineation of the mean high water line. Alongshore details were delineated by the Wild B-8 stereoplotter, and supplemented by office stereoscopic interpretation of the ratio photographs which were controlled with pass points that were selected and dropped during the stereo instrument compilation of the shoreline and interior details.

36 - OFFSHORE DETAILS

None.

37 - LANDMARKS AND AIDS

There were 4 charted landmarks and 2 charted nonfloating aids to navigation within the mapping limits of this manuscript. All were located photogrammetrically.

38 - CONTROL FOR FUTURE SURVEYS

None.

COMPILATION REPORT (cont'd.)

TP-00443

39 - JUNCTIONS

Refer to the Compilation Sources form 76-36B, item 5.

40 - HORIZONTAL AND VERTICAL ACCURACY

Refer to the Photogrammetric Plot Report dated January 4, 1979, and item 32 of this Compilation Report.

46 - COMPARISON WITH EXISTING MAPS

A comparison was made with U.S. Geological Survey Quadrangles: Monterey, California and Seaside, California; scale 1:24,000; dated 1947, photorevised in 1968; and Marina, California; scale 1:24,000; dated 1947, photorevised in 1968 and 1974.

47 - COMPARISON WITH NAUTICAL CHARTS

A comparison was made with National Ocean Survey Chart No. 18685; scale 1:50,000; 23rd edition; dated march 18, 1978; with an inset of Monterey: Harbor at a scale of 1:10,000.

ITEMS TO BE APPLIED TO NAUTICAL CHARTS IMMEDIATELY

None.

ITEMS TO BE CARRIED FORWARD

None.

Submitted by:

David P. Butler

Cartographic Technician

Approved

Albert C. Rauck, Jr.

Chief, Coastal Mapping Section

ADDENDUM TO THE COMPILATION REPORT

TP-00443

FIELD EDIT

The data listed in section 8., item II of form 76-36C (Field Edit Operation) was collected by students at the Naval Postgraduate School in Monterey.

All fix positions are a mean value of the fix and the check fix.

George A. Morris
Cartographic Technician

GEOGRAPHIC NAMES

FINAL NAME SHEET

CM 7802 (Monterey Harbor, California)

<u>TP-0044</u>3

Del Monte

Del Monte Lake

El Estero (lake)

Laguna del Rey

Lovers Point

Monterey

Monterey Bay

Monterey Harbor

New Monterey

Pacific Grove

Point Alones

Point Cabrillo

Retreat

Seaside

Southern Pacific (RR)

Approved by:

Charles E. Harrington Chief Geographer

Nautical Charting Division

FIELD EDIT REPORT

TP 00443
Monterey Bay, California
NPS OC 4800
24 August - 3- September 1979

Note: This field edit project was planned and conducted by students at the Naval Postgraduate School, Monterey, CA. The field edit package is not complete. The field edit was allocatted a limited amount of the student's time due to concurrent class and thesis requirements. The work completed consists of the following:

Answers to discrepancy print questions

Check of compilation for up-to-date depiction of inshore structures and features

Delineation of rocks and foul areas exposed above MLLW and delineation of kelp areas.

51 METHODS - A seventeen foot skiff was supplied by the Naval Postgraduate School and moored at the U. S. Coast Guard Pier, Monterey. Supplies and Maintenance of the vessel were also obtained from the school

The field edit area commonly had breakers which prevented any near shore work. Therefore, the field edit was performed during periods when the tide was at least reasonably low and sea conditions reasonably safe.

All positions were obtained with sextants and consist of a fix plus a check angle. The control signals were photo picked where necessary. Signals from hydrographic survey DA 5-1-79 were used when available. The signal numbers from the hydrographic survey were maintained in the field edit data. All positional information was recorded in a sounding volume.

The coastline northwest of Monterey Harbor contains substantial extents of kelp and rocks. The procedure primarily consisted of delimiting the offshore boundaries of these foul areas with sextant positions. Any rock heights obtained were estimated visually if above the waterline and with a sounding pole when below the waterline. The rock heights and local time (120° W) was recorded in a sounding volume.

The photo picked control signals were transferred to the field edit sheet from the photos by radial plotting. The hydrographic control signals were hand plotted from the geographic positions listed in the DA 5-1-79 Descriptive Report. All the field edit positions were plotted with a three arm protractor on an overlay to accompany the field edit sheet. The foul limit lines and all rocks outside the foul limits were transferred from the position overlay to the field edit sheet.

52 ADEQUACY OF COMPILATION - The compiler was presumably handicapped by the breakers which were occurring when the photography was flown. A number of shoal areas outlined by the compiler were overly extended due to the wave action and the low water line was neglected. The compilation outlined house trailers and heavy construction equipment as permanent buildings.

53 MAP ACCURACY - The shoreline and onshore structures and features accurately depicted. The photography was recent and few changes have occurred. The accuracy of the onshore structures was confirmed by the location of photo picked signals on the corners of compiled buildings.

The offshore positions rarely correlated with compiled features because of the "foul with rocks" nature of the area. Numerous rocks north west of Monterey Harbor, compiled on the field edit sheet, were not verified with individual fixes. The offshore foul limits were delineated.

54 RECOMMENDATIONS - It is recommended that the sextant fixes logged in the sounding volume be logged and plotted by automated methods to serve as an additional check. Positions number 7 and 26 were "swingers". It is recommended that these positions be retained. The check fixes are good and the line of position from the swingers pass through the check fix positions.

55 MISCELLANEOUS - The Naval Postgraduate School has a continuing program which includes field work in Monterey Bay. This field edit package is submitted for compilation with the items listed in the introductory note completed. Any additional field work deemed necessary to completion of this manuscript should be referred to the NOAA Liason Officer, Code 68 Nr, Naval Postgraduate School, Monterey, CA.

Submitted by;

Dean R. Seidel' LCDR, NOAA

REVIEW REPORT SHORELINE

TP-00443

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 U.S.G.S. Quadrangles: Monterey, California, dated 1947, photorevised 1968, Marina, California, dated 1947, photorevised 1968 and 1974 Seaside, California, dated 1947, photorevised 1968 and photo-inspected 1974.

64 - COMPARISON WITH CONTEMPORARY HYDROGRAPHIC SURVEYS

A comparison made with a registered copy of hydrographic survey H-9809, scale 1:5,000, dated February through March 1979.

65 - COMPARISON WITH NAUTICAL CHARTS

A comparison was made with the following NOS Chart: 18685, dated July 23, 1983, 27th edition, scale 1:50,000.

66 - ADEQUACY OF RESULTS AND FUTURE SURVEYS

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

Submitted by

Lowell O. Neterer, JR.

Final Reviewer

May 24, 1985

Approved for forwarding,

Billy H. Barnes

Chief, Photogrammetric Section

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Rockville

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Rockville

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	DA-5-1-79	CM-7802	TP-004	143	North	America	an 1927		METHOD AND DA'	TE OF LOCATION	CHARTA
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	RESPONSIBLE DERSONNEL	BEBRONNEI	
TYPE OF ACTION	NAME	î	ORIGINATOR
OBJECTS INSPECTED FROM SEAWARD	D. Seidel, LCDR.		PHOTO FIELD PARTY HYDROGRAPHIC PARTY GEODETIC PARTY OTHER (Specify)
	D. Seidel, LCDR.	•	FIELD ACTIVITY REPRESENTATIVE
POST TONS DETERMINED AND/OR KENTTED	G. Morris, Carto	Cartographic Technician	OFFICE ACTIVITY REPRESENTATIVE
FORMS ORIGINATED BY QUALITY CONTROL AND REVIEW GROUP AND FINAL REVIEW ACTIVITIES			REVIEWER QUALITY CONTROL AND REVIEW GROUP REPRESENTATIVE
	INSTRUCTIONS FOR ENTRIES UNDER 'METHOD AND DATE OF LOCATION' (Consult Photogrammetric Instructions No. 64,	OR ENTRIES UNDER 'METHOD AND DATE OF LOCATION' (Consult Photogrammetric Instructions No. 64,	
OFFICE IDENTIFIED AND LOCATED OBJECTS Enter the number and date (including month,	ATED OBJECTS (including month,		numetric field positions** require method of location or verification,
day, and year) of the photograph used identify and locate the bject. EXAMPLE: 75E(C)6042 8-12-75	tograph used to bject.	date of field work ar graph used to locate EXAMPLE: P-8-V 8-12-75 74L(C)2982	date of field work and number of the photo- graph used to locate or identify the object. EXAMPLE: P-8-V 8-12-75 74L(C)2982
- Is	D OR VERIFIED lata by symbols as follows: - Photogrammetric s - Visually - Field identified - Theodolite	II. TRIANGULATION STATION RECOVERED When a landmark or ald which is angulation station is recovered Rec. with date of recovery. EXAMPLE: Triang. Rec. 8-12-75	ION STATION RECOVERED smark or ald which is also a tri-station is recovered, enter 'Triang. date of recovery. friang. Rec. 3-12-75
ction on sitions*	7 - Planetable 8 - Sextant require entry of method of of field work.	<pre>III. POSITION VERIFIED VISUALLY ON PHOTOGRAPH Enter 'V+Vis.' and date. EXAMPLE: V-Vis. 8-12-75</pre>	UALLY ON PHOTOGRAPH te.
EXAMPLE: 1-2-6-1, 8-12-75		**PHOTOGRAMMETRIC FIELD PC entirely, or in part, up	in part, upon control established
*FIELD POSITIONS are determined by field obser- vations based entirely upon ground survey methods.	ed by field obser- ground survey methods.	by photogrammetric methods.	ds.

NOAA FORM 76-40 (8-74)

SUPERSEDES NOAA FORM 76-40 (2-71) WHICH IS OBSOLETE, AND EXISTING STOCK SHOULD BE DESTROYED UPON RECEIPT OF REVISION.

ACTIVITY PARTY Y	ARTY	CTIVITY	QUALITY CONTROL & REVIEW GRP. COAST PILOT BRANCH	insible personnel)			CHARTS	AFFECTED			18685	7070	5000 52	18685									
ORIGINATING ACTIVITY HYDROGRAPHIC PARTY GEODETIC PARTY	PHOTO FIELD PARTY	(X) COMPILATION ACTIVITY	COAST PLOT BRANCH	(See reverse for responsible personnel)		E OF LOCATION	on reverse side)		FIELD	V-Vis.	Aug. 24, 1979	V-Vis.	Aug. 24, 1979					İ					i i
U.S. DEPARTMENT OF COMMERCE NATIONAL OCEANIC AND ATMOSPHERIC ADMINISTRATION KS FOR CHARTS		DATE	Sept.1980			METHOD AND DATE OF LOCATION	(See instructions on reverse side)		OFFICE	78B (P) 2367	April 8, 1978	78B (P) 2366	April 8, 1978	78B (P) 2364 April 8, 1978								·	
ATMOSPHER			Bay, Harbor	s landmarks.				LONGITUDE	D.P. Meters	54.678	1358.7	48.453	1204.2	07.10						,			
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	٠Г	(Field Part, Ship or Office)	P.M.C., Seattle,	1-1	JOB NUMBER	CM-7802		DESCRIPTION	(Record reason for defetion of landmark or aid to navigation. Show triangulation station names, where applicable, in parentheses)	(Monterey Radio St	KMBY Mast, 1962)	(Monterev Presidio Monument	WI OFFICE COTORIO	Rotating W & G									
NOAA FORM 76-40 (8-74) Replaces C&GS Form 567	C III O I COMO C CAMINA	X TO BE CHARTED	TO BE REVISED TO BE DELETED	The following objects	OPR PROJECT NO.	DA-5-1-79			CHARTING (Reco	RADIO	TOWER	MONTIMENT	\dashv	AERO	-								

S b iu →	2 - Traverse 6 - T 3 - Intersection 7 - P 4 - Resection 8 - S A. Field positions* requi	EW POSITION DETERMINED nter the applicable dat - Field P - Located Vis, - Verified Triangulation 5 -	OFFICE 1. OFFICE IDENTIFIED AND LOCATED OBJECTS Enter the number and date (including month, day, and year) of the photograph used to identify and locate the \bject. EXAMPLE: 75E(C)6042 8-12-75		FORMS ORIGINATED BY QUALITY CONTROL AND REVIEW GROUP AND FINAL REVIEW ACTIVITIES		ECALLIDAS DETERMINED AND/OR VERIFIED	OBJECTS INSPECTED FROM SEAWARD	TYPE OF ACTION	
**	6 - Theodolite 7 - Planetable 8 - Sextant Enter 'V+V EXAMPLE:	s as follows: tric	FIELD (INSTRUCTIONS FOR ENTRIES UNDER 'METHOD AND DATE OF		G. Morris, Cartographic Techn	D. Seidel, LCDR.	D. Seidel, LCDR.	NAME	RESPONSIBLE PERSONNEL
PHOTOGRAMMETRIC FIELD POSITIONS are dependent entirely, or in part, upon control established by photogrammetric methods.	TION VERIFIED VISUALLY ON PHOTOGRAPH - 'V+Vis.' and date. 8-12-75	TRIANGULATION STATION RECOVERED When a landmark or aid which is also a triang angulation station is recovered, enter 'Triang. Rec.' with date of recovery. EXAMPLE: Triang. Rec.: 8-12-75	Cont'd) Photogrammetric field positions** require Photogrammetric field positions** require entry of method of location or verification, date of field work and number of the photo- graph used to locate or identify the object. EXAMPLE: P-8-V 8-12-75 74L(C)2982	No. 64,	REPRESENTATIVE	Technician OFFICE ACTIVITY REPRESENTATIVE	FIELD ACTIVITY REPRESENTATIVE	PHOTO FIELD PARTY X HYDROGRAPHIC PARTY GEODETIC PARTY OTHER (Specify)	ORIGINATOR	

NOAA FORM 76-40 (8-74)

SUPERSEDES NOAA FORM 76-40 (2-71) WHICH IS OBSOLETE, AND EXISTING STOCK SHOULD BE DESTROYED UPON RECEIPT OF REVISION.

☆ U.S.GP0:1975-0-665-080/1155

CTIVITY	TOTTY A REVIEW GRP.	ible personnel)		CHARTS	AFFECTED		18685	18685								
ORIGINATING ACTIVITY WYDROGRAPHIC PARTY GEODETIC PARTY	COMPLATION ACTIVITY FINAL REVIEWER OPPLITY CONTROL & REVIEW GRP COAST PILOT BRANCH	(See reverse for responsible personnel)	E OF LOCATION	n reverse side)			Not visible Aug. 24, 1979									
U.S. DEPARTMENT OF COMMERCE NATIONAL OCEANIC AND ATMOSPHERIC ADMINISTRATION KS FOR CHARTS	Sept.1980		METHOD AND DATE OF LOCATION	(See instructions on reverse side)	10 C	j -	78B (P) 2368 April 8, 1978	(P) 2367 8, 1978								
S. DEPARTI	W Whore	seaward to determine their value as landmarks.			LONGITUDE	D.P. Meters	56.50 1101	- 0								
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TYPE OF ACTION OBJECTS INSPECTED FROM SEAWARD	RESPONSIBLE PERSONNEL NAME D. Seidel, LCDR.	ERSONNEL	ORIGINATOR OPHOTO FIELD PARTY WHYDROGRAPHIC PARTY GEODETIC PARTY OTHER (Specify)
FORMS ORIGINATED BY QUALITY CONTROL AND REVIEW GROUP AND FINAL REVIEW ACTIVITIES			REVIEWER QUALITY CONTROL AND REVIEW GROUP REPRESENTATIVE
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OFFICE IDENTIFIED AND LOCATED OBJECTS Enter the number and date (including month,	ED OBJECTS including month,	. " 5	metric field positions** require method of location or verification,
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NOAA FORM 76-40 (8-74)

SUPERSEDES NOAA FORM 76~40 (2~71) WHICH IS OBSOLETE, AND EXISTING STOCK SHOULD BE DESTROYED UPON RECEIPT OF REVISION.

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 chart

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

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