TP-00532

NOAA FORM 76-35 (3-76)

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

DESCRIPTIVE REPORT

Map No.	Edition No.
TP-00532	1
Job No.	
CM-7704	
Map Classification	
FINAL, FIELD EDITED MA	Æ
Type of Survey	·
SHORELINE	
LOCALIT	Y
State	<u> </u>
California	
General Locality	
San Francisco and San	Pablo Bays
Locality	
Alameda	
	·
1977 TO 19	000
17// 10 1/	80
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SECIETAL N. A.S.	euste.
REGISTRY IN AR	CHIVES
DATE	

+U. S. GOVERNMENT PRINTING OFFICE:1976-669-248

NOAA FORM 76-36A U. S. DEPARTMENT OF COMMERCE (3-72) NATIONAL OCEANIC AND ATMOSPHERIC ADMIN.	TYPE OF SURVEY	SURVEY TP-00532
The state of the s	M ORIGINAL	MAP EDITION NO. (1)
Decomptive behand a	∏ RESURVEY	7.
DESCRIPTIVE REPORT - DATA RECORD		
PUOTOCHAMMET PUC OSCION	REVISED	Joв Ж С <u>М</u> -7704
PHOTOGRAMMETRIC OFFICE	l 	ING MAP EDITION
Coastal Mapping Division, Norfolk, VA	TYPE OF SURVEY	JOB PH
OFFICER-IN-CHARGE	ORIGINAL RESURVEY	MAP CLASS SURVEY DATES:
D. M. I.I. CDD MOLI	REVISED	19TO 19
Roy Matsushige, CDR, NOAA	<u> </u>	
1. OFFICE	2.	FIELD
Aerotriangulation April 13, 1977	Control - Premar	king Feb. 7, 1977
Compilation Aug. 3, 1977 Compilation Amendment 1 April 20, 1978		
Compilation Amendment 1 April 20, 1978 Compilation Amendment 2 April 6, 1979		
Compilation Amendment 3 July 30, 1979		
Compilation July 2, 1981		
N PATIBLE		
II. DATUMS	OTHER (Specify)	<u></u>
1. HORIZONTAL: XX 1927 NORTH AMERICAN		
MEAN HIGH-WATER	OTHER (Specify)	
2. VERTICAL:		
MEAN SEA LEVEL		
3. MAP PROJECTION	4.	GRID(S)
Lambert Conformal	STATE California	ZONE 3
5. SCALE	STATE	ZONE
1:10,000		
III. HISTORY OF OFFICE OPERATIONS	· · · · - <u>· · · · · · · · · · · · · · ·</u>	
OPERATIONS .	NAME	DATE
I. AEROTRIANGULATION METHOD: Analytic Landmarks and aids by	R. Kelly	<u>July 1977</u>
2. CONTROL AND BRIDGE POINTS PLOTTED BY	S. Solbeck	July 1977
METHOD: Coradomat CHECKED BY	S. Solbeck	July 1977
3. STEREOSCOPIC INSTRUMENT PLANIMETRY BY	D. Butler	<i>Ju</i> ne 1978
COMPILATION CHECKED BY	J. Byrd	June 1978
INSTRUMENT: Wild B-8 CONTOURS BY SCALE: 1:15,000 CHECKED BY	NA NA	
4. MANUSCRIPT DELINEATION PLANIMETRY BY	D. Butler	July 1978
CHECKED BY	J. Roderick	Sept. 1978
сонтоинся ву метнор: Graphically Smooth Drafted снескер ву	NA	
HYDRO SUPPORT DATA BY	NA D. Butler	July 1978 _
SCALE: 1:10,000 CHECKED BY	J. Roderick	Sept. 1978
5. OFFICE INSPECTION PRIOR TO FIELD EDIT BY	J. Roderick	Sept. 1978
6. APPLICATION OF FIELD EDIT DATA	J. Minton	Nov. 1980
CHECKED BY	W. Richter	Dec. 1980
7. COMPILATION SECTION REVIEW BY 8. FINAL REVIEW BY	W. Richter J. Hancock	Dec. 1980 Feb. 1982
9. DATA FORWARDED TO PHOTOGRAMMETRIC BRANCH BY	J. Hancock	Feb. 1982
10. DATA EXAMINED IN PHOTOGRAMMETRIC BRANCH BY	R. Kelly	APR. 1982
11. MAP REGISTERED - COASTAL SURVEY SECTION NOAA FORM 76-36A SUPERSEDES FORM C&GS 181 SERIES	H. D. Welfe	MAR 1 0 1983
	Chief, Philis-NGEP.	O¿[[1972-769382/582 REG.#6
	Imanonii Unit	

NOAA FORM 76-36B

TP-00532

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

COMPILATION SOURCES

1. COMPILATION PHOTOGRAPHY					
CAMERA(S) Wild R. C. 10 "B" (B =	152.74 mm)		PHOTOGRAPHY GEND	TIME RE	FERENCE
TIDE STAGE REFERENCE PREDICTED TIDES REFERENCE STATION RECORDS TIDE CONTROLLED PHOTOGRAP	HA ¥	(C) COLOR (P) PANCHRO		Pacific MERIDIAN 120° W.	Matandard Daylight
NUMBER AND TYPE	DATE	TIME	SCALE	STAGE	OF TIDE
77B(P)2544 thru 2546 77B(I)2833, 2835* 77B(I)3101, 3103 and 3104* 77B(I)343I* 77B(P)3497 thru 3500** 77B(P)3509 thru 3512** 77B(P)3698 thru 3699**	Mar 4, 1977 Mar 5, 1977 Mar 10, 1977 Mar 18, 1977 Mar 18, 1977 Mar 18, 1977 Mar 18, 1977	10:43 11:27 13:37 11:06 11:24	1:30,000 1:30,000 1:30,000 1:30,000 1:30,000 1:30,000	Not determ 0.17 below 0.15 ft. a 0.37 below Not determ Not determ	MHW bove MLLW mHW ined

Photographs 77B(P)2544 thru 2546 were used for stereoscopic instrument compilation of the interior detail and the selection of pass points common to the hydro support and tide controlled infrared photography. **Hydro support photography.

2. SOURCE OF MEAN HIGH-WATER LINE:

The mean high water line was compiled graphically from the above listed tide coordinated infrared photography controlled with pass points selected and dropped during the stereo instrument compilation. Additions and modifications to the mean high water line may have resulted from the compilation of the field edit data listed on form 76-36C.

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

The mean lower low-water line was compiled graphically from the above listed tide coordinated infrared photography controlled with pass points selected and dropped during the stereo instrument compilation. Additions and modifications to the mean lower low water line may have resulted from the compilation of the field edit data listed on form 76-36C.

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
	н-9844	1979-1981	None; see Review Report, item 64	1		
ı	5. FINAL JUNCTIONS					
	NORTH TP-00529	EAST		SOUTH	WEST	

TP-00534

TP-00531

TP-00530 REMARKS

There are no shoreline junctions with TP-00531 or TP-00534. TP-00534 is 1:20,000 scale; all other maps are 1:10,000 scale.

TP-00533

XX FIELD INSPE	CTION OPER	ATION (Premarking) FIEL	D EDIT OPERATION			
	OPE	RATION		NAME		DATE
CHIEF OF FIELS	DPARTY		R. B. Melby		Feb.	197
		RECOVERED BY	R. B. Melby		Feb.	
HORIZONTAL CO	ONTROL	ESTABLISHED BY	R. B. Melby		Feb.	197
·		PRE-MARKED OR IDENTIFIED BY	L. L. Rigger	rs	Feb.	197
		RECOVERED BY	None			
VERTICAL CON	TROL	ESTABLISHED BY	None			
		PRE-MARKED OR IDENTIFIED BY	None		 	107
		COVERED (Triangulation Stations) BY	R. B. Melby		Feb.	197
LANDMARKS AN AIDS TO NAVIGA		LOCATED (Field Methods) BY	None	<u> </u>		
<u> </u>		TYPE OF INVESTIGATION	None			
GEOGRAPHIC N	AMES	COMPLETE			}	
INVESTIGATION		SPECIFIC NAMES ONLY				
		V NO INVESTIGATION			}	
. PHOTO INSPECT	FION	CLARIFICATION OF DETAILS BY	None			
. BOUNDARIES AN	D LIMITS	SURVEYED OR IDENTIFIED BY	Not Applical	ale		
SOURCE DATA	·······					
. HORIZONTAL C	ONTROL IDEN	ITIFIED	2. VERTICAL CON	NTROL IDENTIFIED		
			None			
HOTO NUMBER		STATION NAME	PHOTO NUMBER	STATION DI	ESIGNATIC	N .
7B(P)3511		NAS East Breckwater ght, 1953 (Sub Pt. 1)				
. PHOTO NUMBER	•	n of details)				
	None					
LANDMARKS AN	D AIDS TO NA	VIGATION IDENTIFIED				
	None					
HOTO NUMBER		OBJECT NAME	PHOTO NUMBER	OBJEC	TNAME	
				· 		
5. GEOGRAPHIC N	AMES:	REPORT X NONE	6. BOUNDARY AN	D LIMITS: REP	ORT 🏋	NONE
SUPPLEMENTA					<u> </u>	
	None					

	ESSA FORM 76-36c (2-70)		U.S. DEPART Environmental science servi Coast an	MENT OF COMMERCE SES ADMINISTRATION O GEODETIC SURVEY
		TP-00532 HISTORY OF FIELD (OPERATIONS	
	I. FIELD INSPECTION OPERATION	X FIEL	EDIT OPERATION	
	OPERATION		NAME	DATE
	1. CHIEF OF FIELD PARTY		D. R. Taylor, LCDR, NOAA	ø4/11/8ø
	2. HORIZONTAL CONTROL	RECOVERED BY	D. D. Smith, LtJG, NOAA D. D. Smith, LtJG, NOAA	Ø4/11/8Ø Ø4/11/8Ø
- 1	2 HOMEON AL COMPACE	EULKOEKINED DI	D. D. DELTOIS HOUSE HOAR	1
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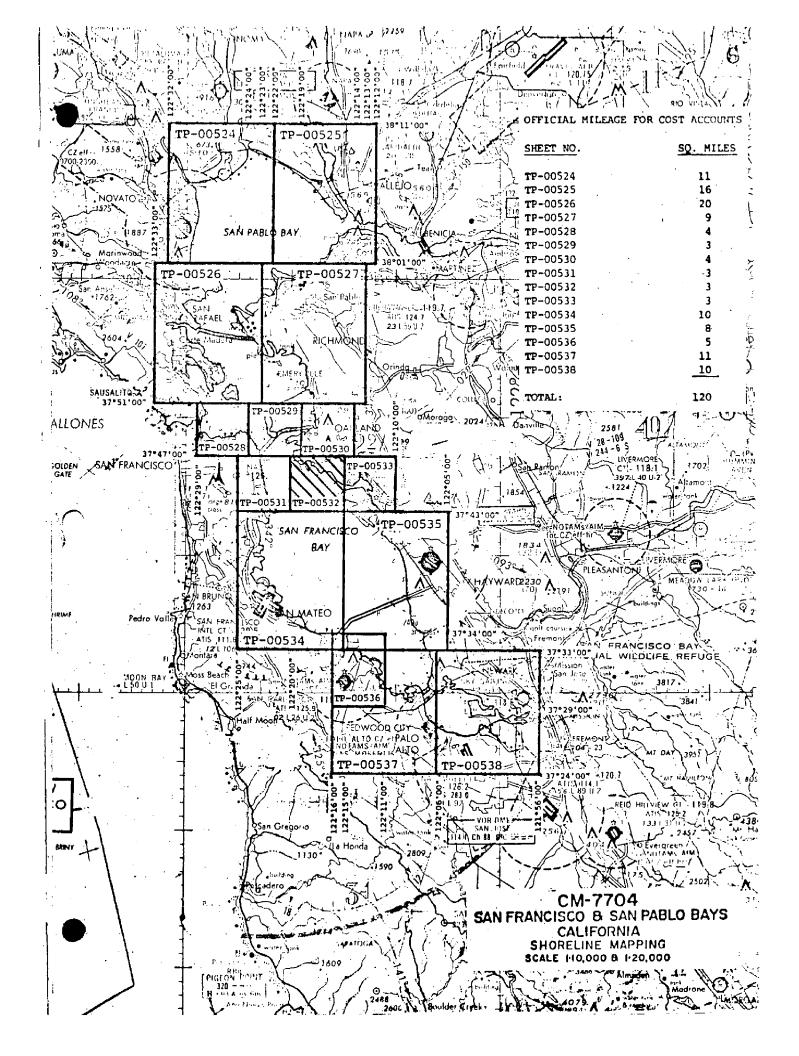
ESSA FORM 76-36c

NOAA FORM 76-36D (3-72)

TP-00532

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

L MANUSCRIPT COPIES COMPILATION STAGES DATE ACMPILED DATE COMPILATION COMPIEC DATE COMPILATION COMPIECE Pending field edit Sept. 1978 Class III Manuscript Sept. 1978 Sept. 1978 Field edit applied Nov. 1980 Class I Manuscript None Dec. 1980 Final Review Feb. 1982 Final Map Mar. 1982 Mar. 1982 Mar. 1982 Mar. 1982 Mar. 1982 Mar. 1982 Appropriate forms (76-40) are attached with this Descriptive Report; no forms were forwarded prior to final review. Appropriate forms (76-40) are attached with this Descriptive Report; no forms were forwarded prior to final review. 1. Deniboing Photographs: Mar. 1982 Duplicate Bridging Report; Mar. 1982 Appropriate forms (76-40) are attached with this Descriptive Report; no forms were forwarded prior to final review. 2. Appropriate forms (76-40) are attached with this Descriptive Report; no forms were forwarded prior to final review. 3. Mar. 1982 Appropriate forms (76-40) are attached with this Descriptive Report; no forms were forwarded prior to final review. 3. Mar. 1982 Appropriate forms (76-40) are attached with this Descriptive Report; no forms were forwarded prior to final review. 2. Descriptive Report; no forms were forwarded to the forms of the final review. 3. Mar. 1982 Appropriate forms (76-40) are attached with this Descriptive Report; no forms were forwarded to the forms of the final review. 3. Mar. 1982 Appropriate forms (76-40) are attached with this Description Descriptive Report; no forms are forms and final review. 4. Descriptions (final recipies of description Supplements of the final review) Appropriate forms of the final review and final review. 5. Descriptions (final recipies of description Supplements of the final review and final review and final review. 4. Descriptions (final recipies of description Supplements of the final review and final review and final review and final review and final review. 5. Descriptions (final recipies of description Supplements of the final review and final review and final review and f			RECO	ORD OF SURVE	Y USE		
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Compilation complete pending field edit Sept. 1978 Class III Manuscript Sept. 1978 Sep			· T · · · · · · · · · · · · · · · · · ·				
Pending field edit Sept. 1978 Class III Manuscript Sept. 1978 Sept. 1978 Field edit applied Nov. 1980 Class I Manuscript None Dec. 1980 Final Review Feb. 1982 Final Map Mar. 1982 Mar. 1982 Mar. 1982 Mar. 1982 Mar. 1982 Mar. 1982 Mar. 1982 Final Map Mar. 1982 Mar. 1982 Mar. 1982 Appropriate forms (76-40) are attached with December 1980 Mar. 1982 this Descriptive Report; no forms were forwarded prior to final review. 1. □ BRIOGING PHOTOGRAPHS: ☑ DUPLICATE BRIOGING REPORT: ☑ COMPUTER READOUTS. 2. ☑ CONTROL STATION IDENTIFICATION CARDS: ☑ FORM NOS MEZQUEBNITICE DEVITED PRIOR TESC. 2017 TO 000 Mar. 1982 III. FEDERAL RECORDS CENTER DATA *** 1. □ BRIOGING PHOTOGRAPHS: ☑ DUPLICATE BRIOGING REPORT: ☑ COMPUTER READOUTS. 2. ☑ CONTROL STATION IDENTIFICATION CARDS: ☑ FORM NOS MEZQUEBNITICE DEV FIELD PARTIES. 76-40 COMPUTER READOUTS. 2. ☑ CONTROL STATION IDENTIFICATION CARDS: ☑ FORM NOS MEZQUEBNITICE DEV FIELD PARTIES. 76-40 COMPUTER READOUTS. 2. ☑ CONTROL STATION IDENTIFICATION CARDS: ☑ FORM NOS MEZQUEBNITICE DEV FIELD PARTIES. 76-40 COMPUTER READOUTS. 2. ☑ CONTROL STATION IDENTIFICATION CARDS: ☑ FORM NOS MEZQUEBNITICE DEV FIELD PARTIES. 76-40 COMPUTER READOUTS. 2. ☑ CONTROL STATION IDENTIFICATION CARDS: ☑ FORM NOS MEZQUEBNITICE DEV FIELD PARTIES. 76-40 COMPUTER READOUTS. 2. ☑ CONTROL STATION IDENTIFICATION CARDS: ☑ FORM NOS MEZQUEBNITICE DEV FIELD PARTIES. 76-40 COMPUTER READOUTS. 2. ☑ CONTROL STATION IDENTIFICATION CARDS: ☑ FORM NOS MEZQUEBNITICE DEV FIELD PARTIES. 76-40 COMPUTER READOUTS. 2. ☑ CONTROL STATION IDENTIFICATION CARDS: ☑ FORM NOS MEZQUEBNITICE DEV FIELD PARTIES. 76-40 COMPUTER READOUTS. 2. ☑ CONTROL STATION IDENTIFICATION CARDS: ☑ FORM REPORTS FIELD PARTIES. 76-40 COMPUTER READOUTS. 2. ☑ CONTROL STATION IDENTIFICATION CARDS: ☑ FORM REPORTS FIELD PARTIES. 76-40 COMPUTER READOUTS. 2. ☑ CONTROL STATION IDENTIFICATION CARDS: ☑ FORM REPORTS FIELD PARTIES. 76-40 COMPUTER READOUTS. 2. ☑ CONTROL STATION IDENTIFICATION CARDS: ☑ FORM REPORTS FIELD PARTIES. 76-40 COMPUTER READOUTS. 2. ☑ CONTROL ST			DATE	RE	MARKS	MARINE CHARTS	HYDRO SUPPORT
Final Review Feb. 1982 Final Map Mar. 1982 Mar. 1982 ### LANDMARKS AND AIDS TO NAVIGATION REPORTS TO MARINE CHART DIVISION, NAUTICAL DATA BRANCH	_	-	Sept. 1978	Class III	Manuscript	Sept. 1978	Sept. 1978
II. LANDMARKS AND AIDS TO NAVIGATION 1. REPORTE TO MARINE CHART DIVISION, NAUTICAL DATA BRANCH NUMBER CHARTLETTER HUMBER ASSIGNED Mar. 1982 Appropriate forms (76-40) are attached with this Descriptive Report; no forms were forwarded prior to final review. Appropriate forms (76-40) are attached with this Descriptive Report; no forms were forwarded prior to final review. 1. REPORT TO AEROHAUTICAL CHART DIVISION, COAST PILOT BRANCH. DATE FORWARDED: 1. REPORT TO AEROHAUTICAL CHART DIVISION, AERONAUTICAL DATA SECTION. DATE FORWARDED: 1. REPORT TO AEROHAUTICAL CHART DIVISION, AERONAUTICAL DATA SECTION. DATE FORWARDED: 2. COUNTROL STATION IDENTIFICATION CARDS: 3. SECURE DATA (Section STATION IDENTIFICATION CARDS: 3. SECURE DATA (Section STATION IDENTIFICATION CARDS: 4. COUNTROL STATION IDENTIFICATION CARDS: 5. CM-7704. Data held for completion, is being forwarded to the Federal Record Center. 4. CATA TO FEDERAL RECORDS CENTER. DATE FORWARDED: 5. SECOND TP. COUNTROL STATION IT IS SECTION IN ADAP FORM 78-85. 1. SURVEY EDITIONS (1761s section shall be completed each time a new map edition is registered) 1. SURVEY NUMBER THE COUNTROL (3) PH. CHART PREVISED RESURVEY MAP CLASS 1. SURVEY NUMBER THE COUNTROL (3) PH. CHART PREVISED RESURVEY MAP CLASS 1. SURVEY NUMBER TO B NUMBER TYPE OF SURVEY MAP CLASS	Field ed	lit applied	Nov. 1980	Class I Ma	nuscript	None	Dec. 1980
1. REPORT TO MARINE CHART DIVISION, NAUTICAL DATA BRANCH NUMBER ASSIGNED 2. MAR. 1982 Appropriate forms (76-40) are attached with this Descriptive Report; no forms were forwarded prior to final review. 2. REPORT TO MARINE CHART DIVISION, COAST PILOT BRANCH. DATE FORWARDED: 3. REPORT TO AEROMAUTICAL CHART DIVISION, AEROMAUTICAL DATA SECTION. DATE FORWARDED: 111. FEDERAL RECORDS CENTER DATA ** 1. BRIDGING PHOTOGRAPHS; MD DUPLICATE BRIDGING REPORT; Computer READOUTS. 2. CONTROL STATION IDENTIFICATION CARDS: FORM NOS XROSUBMITTED BY FIELD PARTIES. 76-40 3. SOURCE DATA (except for Geographic Wanner Report) AS LISTED IN SECTION II NOAA FORM 76-18C. CONTROL STATION IDENTIFICATION. **PT-00530*, TP-00532*, Camputer READOUTS.** CONTROL STATION IDENTIFICATION. **PT-00530*, TP-00532*, Camputer READOUTS.** CONTROL STATION IDENTIFICATION CARDS: SOURCE DATA (except for Geographic Wanner Report) AS LISTED IN SECTION II NOAA FORM 76-18C. CONTROL STATION IDENTIFICATION. **PT-00530*, TP-00532*, Camputer READOUTS.** CONTROL STATION IDENTIFICATION CARDS: SOURCE DATA (except for Geographic Wanner Report) AS LISTED IN SECTION II NOAA FORM 76-18C. CONTROL STATION IDENTIFICATION CARDS: SOURCE DATA (except for Geographic Wanner Report) AS LISTED IN SECTION II NOAA FORM 76-18C. CONTROL STATION CONTROL STATION CARDS: SECTION II NOAA FORM 76-18C. AND SOURCE DATA (except for Geographic Wanner Report) AS LISTED IN SECTION II NOAA FORM 76-18C. CONTROL STATION CONTROL STATION CARDS: SECTION II NOAA FORM 76-18C. AND SOURCE DATA (except for Geographic Wanner Report) AS LISTED IN SECTION II NOAA FORM 76-18C. AND SOURCE DATA (except for Geographic Wanner Report) AS LISTED IN SECTION II NOAA FORM 76-18C. AND SOURCE DATA (except for Geographic Wanner Report) AS LISTED IN SECTION II NOAA FORM 76-18C. AND SOURCE DATA (except for Geographic Wanner Report) AS LISTED IN SECTION II NOAA FORM 76-18C. AND SOURCE DATA (except for Geographic Wanner Report) AS LISTED IN SECTION II NOAA FORM 76-18C. AND SOURCE DATA (except for Geographic Wanne	Final Re	eview	Feb. 1982	Final Map		Mar. 1982	Mar. 1982
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Pages Mar. 1982 this Descriptive Report; no forms were forwarded prior to final review. 2.	NUMBER				R	EMARK5	
Warded prior to final review. 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; M DUPLICATE GRIDGING REPORT; COMPUTER READOUTS. 2. CONTROL STATION IDENTIFICATION CARDS; M FORM NOS MOUNTED STATION IDENTIFICATION CARDS; M FORM NOS MOUNTED STATION IDENTIFICATION CARDS; M FORM NOS MOUNTED STATION IDENTIFICATION CARDS; COMPUTER READOUTS. 2. CONTROL STATION IDENTIFICATION CARDS; M FORM NOS MOUNTED STATION IN SOAR FORM 76-38C. AND 70-382. 2. SOURCE DATA (except for Geographic Names Report) AS LISTED IN SECTION III, NOAR FORM 76-38C. AND 76-382. 3. SOURCE DATA (except for Geographic Names Report) AS LISTED IN SECTION III, NOAR FORM 76-38C. AND 76-382. 4. DATA TO FEDERAL RECORDS CENTER, DATE FORWARDED: W. SURVEY EDITIONS Ithis section shell be completed each time a new map addition is registered) SURVEY NUMBER JOB NUMBER TOPE OF SURVEY MAP CLASS DITION DATE OF PHOTOGRAPHY DA	. –		Mar. 1982		·	•	
1. BRIDGING PHOTOGRAPHS; MUPLICATE BRIDGING REPORT; COMPUTER READOUTS. 2. CONTROL STATION IDENTIFICATION CARDS; FORM NOS SEXUSUBMITTED BY FIELD PARTIES. 76-40 3. SOURCE DATA (except for Geographic Names Report) AS LISTED IN SECTION II, NOAA FORM 76-36C. ACCOUNT FOR EXCEPTIONS: **TP-00530*, TP-00531*, TP-00532*, and TP-00533*, ACOMPLETES CM-7704*. Data held for completion, is being forwarded to the Federal Record Center. 4. DATA TO FEDERAL RECORDS CENTER. DATE FORWARDED: **SECTION** If NOAA FORM 76-36C. AND TP-00533*, ACOMPLETES CM-7704*. Data held for completion, is being forwarded to the Federal Record Center. 4. DATA TO FEDERAL RECORDS CENTER. DATE FORWARDED: **SECTION** If NOAA FORM 76-36C. AND TP-00533*, ACOMPLETES CM-7704*. DATA TO FEDERAL RECORDS CENTER. DATE FORWARDED: **SECTION** If NOAA FORM 76-36C. AND TP-00533*, ACOMPLETES CM-7704*. DATA TO FEDERAL RECORDS CENTER. DATE FORWARDED: **SECTION** If NOAA FORM 76-36C. AND TP-00533*, ACOMPLETES CM-7704*. DATA TO FEDERAL RECORDS CENTER. DATE FORWARDED: **SECTION** If NOAA FORM 76-36C. AND TP-00533*, ACOMPLETES CM-7704*. DATE OF FIELD EDIT **SECTION** IN THE POOR TO THE							
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SUMMARY TO ACCOMPANY DESCRIPTIVE REPORT

TP-00532

This 1:10,000 scale final shoreline map is one of fifteen maps, TP-00524 thru TP-00538 that comprise project CM-7704, San Francisco and San Pablo Bays, California. This project consists of eight 1:20,000 maps, six 1:10,000 maps featuring San Francisco Bay entrance and one 1:10,000 inset map of the Redwood Creek area.

The initial purpose of this project was to provide data in support of hydrographic operations beginning in the Fall of 1978. However, due to rapid cultural coast development, field activity has been temporarily delayed. Photogrammetry memo/instruction dated July 2, 1981, has reassigned this project, in its present stage, for final review and registration. Registration will include 10 Final Maps and 5 Final Class III Maps. Immediately afterwards, a Revision Survey using 1981 photography is scheduled to facilitate hydrography that has not been accomplished and to provide Nautical Charts with current shoreline information.

This final shoreline map corresponds geographically with portions of hydrographic surveys H-9844 (1979-81), H-9873 (1980-81) and H-9927 (1981). At the time of final review, processing of these hydrographic surveys had been deferred pending receipt of the final shoreline maps. A copy of this map was forwarded to the Hydrographic Surveys Division.

This Final Map is a 1:10,000 scale shoreline map that portrays a portion of San Francisco Bay from Alameda Naval Air Station to Bay Farm Island.

Field work prior to compilation was accomplished in March 1977; this involved the establishment of horizontal control in order to meet aero-triangulation requirements. During this period, ground support was provided for obtaining tide-coordinated photography and several of the project's navigational aids and landmarks for Charts were field determined.

Photo coverage was provided in March 1977 for aerotriangulation and compilation using panchromatic film with the "B" camera at 1:50,000 and 1:30,000 scales. Hydro support photography was taken using panchromatic film with the "B" camera at 1:30,000 scale. Tide coordinated black and white infrared photography at MHW and MLLW was supplied using the "B" camera at 1:40,000 and 1:30,000 scales. At the time of final review, the 1981 revision survey photography, at 1:40,000 scale, became available and was used to evaluate the existing Class I map.

Analytic aerotriangulation was adequately provided by the Washington Science Center in July 1977.

Compilation was performed at the Atlantic Marine Center in September 1978. The Class III manuscript was forwarded to the Pacific Marine Center for the combined field edit and hydrographic operation.

Field edit was performed in conjunction with hydrographic survey $\rm H\text{-}9844$ in April 1980 by personnel assigned to the Pacific Hydrographic Party.

Application of field edit was performed at the Pacific Marine Center in December 1980. Copies of the Class I map were released to the Hydrographic Verification Branch for smooth sheet application. However, due to reoccurring discrepancies with preceding Class I maps, processing of the corresponding hydrographic surveys have been deferred until receipt of this final map.

Final Review, involving a complete evaluation of all office and field activities, was performed at the Atlantic Marine Center in February 1982. Approved tide data was not available for determining offshorecobstruction heights at the time of field edit application. This data was acquired during final review and applied accordingly.

A Chart Maintenance Print was prepared during final review and forwarded to the Marine Charts Division. This final map will supersede the former Class III print previously submitted in September 1978. Only revisions to the former Class III map will be indicated on this final maintenance print as no Class I copy was forwarded to Marine Charts. Also a copy of the final map indicating all revisions will be forwarded to the Hydrographic Surveys Division.

The context of this Descriptive Report contains fall pertinent information used to compile this Final Map except for the field records used to establish horizontal control and locate the nonfloating aids to navigation. The horizontal control data was previously forwarded to the National Geodetic Survey and the navigational aid records were submitted with contemporary hydrographic survey H-9844. Listings of these features are attached with this report on NOAA forms 76-40 and 76-41.

The original base manuscript and all pertinent data was forwarded to the Washington Science Center for final registration and preparation for the 1981 Revision Survey.

FIELD INSPECTION TP-00532

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



U.S. DEPARTMENT OF COMMERCE National Oceanic and Atmospheric Administration NATIONAL OCEAN SURVEY

Pacific Marine Center

April 4, 1977

CPM17/RBM

TO:

C3415

Coastal Mapping

Ribl B. Welly

Melly_ 4/5/77

FROM:

Robert B. Melby €

Chief, PMC Photo Party

SUBJECT:

Field Operations Project CM-7704, San Francisco and San

Pablo Bays, California

Horizontal Control:

Twenty-five horizontal control stations were paneled for aerial photography as indicated on the project diagram that was furnished to the photo-field party. A majority of the stations were paneled by the sub-

C3415 Coastal Mapping April 4, 1977 Page 2

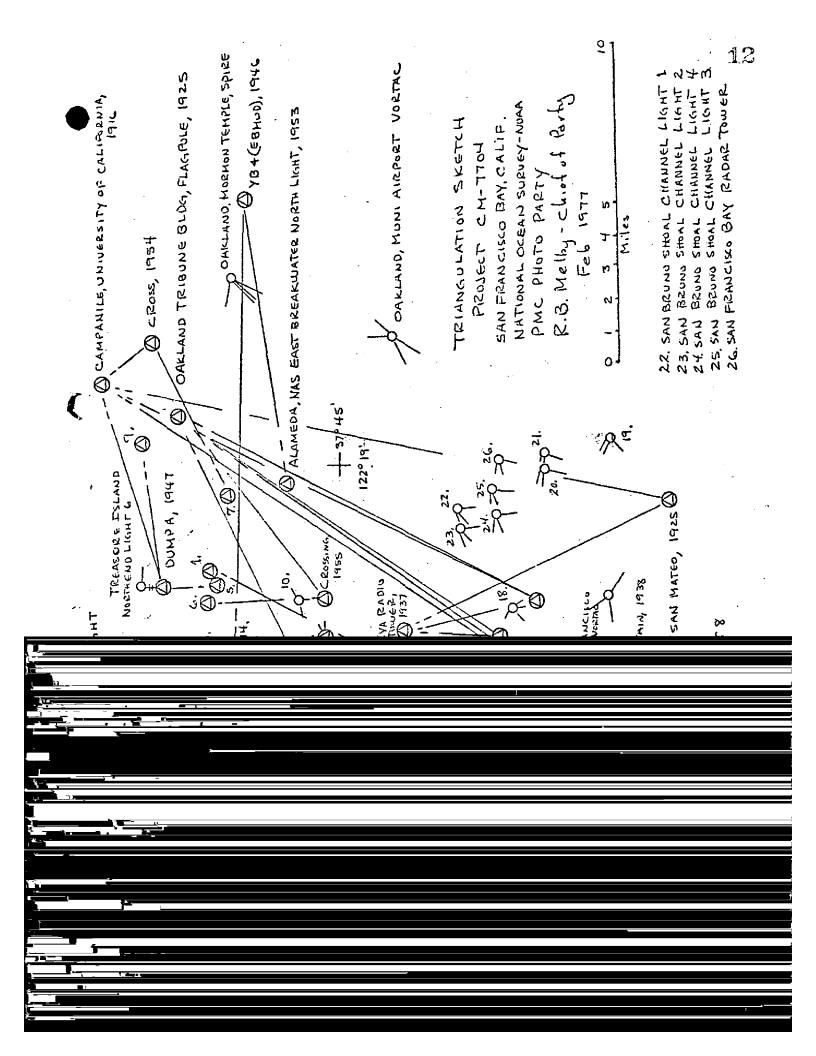
The coordinator would transmit time checks and receive tide staff readings of involved stations and filter and transmit to the aircraft the flight lines that were within the required tide ranges and maintain a summary of staff readings.

Because of the elevation of the coordination site a Motorola Walkie-Talkie was sufficient to maintain communications to all sites and the aircraft.

The operation was rather smooth as all observers were on station at the required time and no radio or transportation failures were experienced at the required times. The only difficulty encountered was an erratic tidal behavior during one series of projected favorable tides when during an unusual high pressure atmospheric condition the predicted tide range decreased by about 0.7 foot, causing stations to go out of range and greatly altering the tidal pattern.

Recommendations:

It is recommended that the field data, tidal predictions, etc., be furnished to the field units, with ample advance time to allow a thorough research and planning of the field phases of the project.



PHOTOGRAMMETRIC PLOT REPORT SAN FRANCISCO & SAN PABLO BAYS CALIFORNIA

Job CM-7704

July 22, 1977

21. Area Covered

This report covers eight 1:20,000 sheets, TP-00524, TP-00525, TP-00526, TP-00527, TP-00534, TP-00535, TP-00537, TP-00538, and seven 1:10,000 sheets TP-00528, TP-00529, TP-00530, TP-00531, TP-00532, TP-00533, and TP-00536 of San Francisco Bay and San Pablo Bay, California

22. Method

Seven strips of 1:50,000 scale panchromatic photography, taken with the "B" camera were bridged by analytic aerotriangulation methods and adjusted to ground on the California Zone 3. Common pass points were positioned between the 1:50,000 scale and 1:30,000 scale panchromatic photography, also taken with the "B" camera to provide horizontal control for compilation of the 1:10,000 and 1:20,000 scale maps.

Tide-coordinated supplemental photography, 1:30,000 and 1:40,000 scale MHW and MLLW were tied to the 1:50,000 scale bridging photography for shoreline compilation of 1:10,000 and 1:20,000 scale maps by means of positioning common points for ratio prints.

The 1:30,000 scale hydro support photography was also tied to 1:50,000 scale bridging photography by common points to determine the exact ratios. Tie points were used to augment datum between bridging strips. After running a strip adjustment on strip 5, it was found, for no apparent reason, that the control and tie points did not fit. This was resolved by running a block adjustment. Ruling of manuscripts and plotting of points was done on the Coradomat. A list was forwarded with this job, CM-7704, to AMC for selection of ratios to be ordered.

23. Adequacy of Control

The horizontal control provided was adequate except for Bench Mark H - 111, 1932 paneled substation, which did not hold in strips 5 and 7. The home station was plotted on a USGS quadrangle and did not fall in the area given in the description. All other control held within the accuracy required by National Standards of Maps at 1:10,000 and 1:20,000 scale.

24. Supplemental Data

Local shoreline and USGS quadrangles were used to provide elevations for vertical adjustments of bridges.

25. Photography

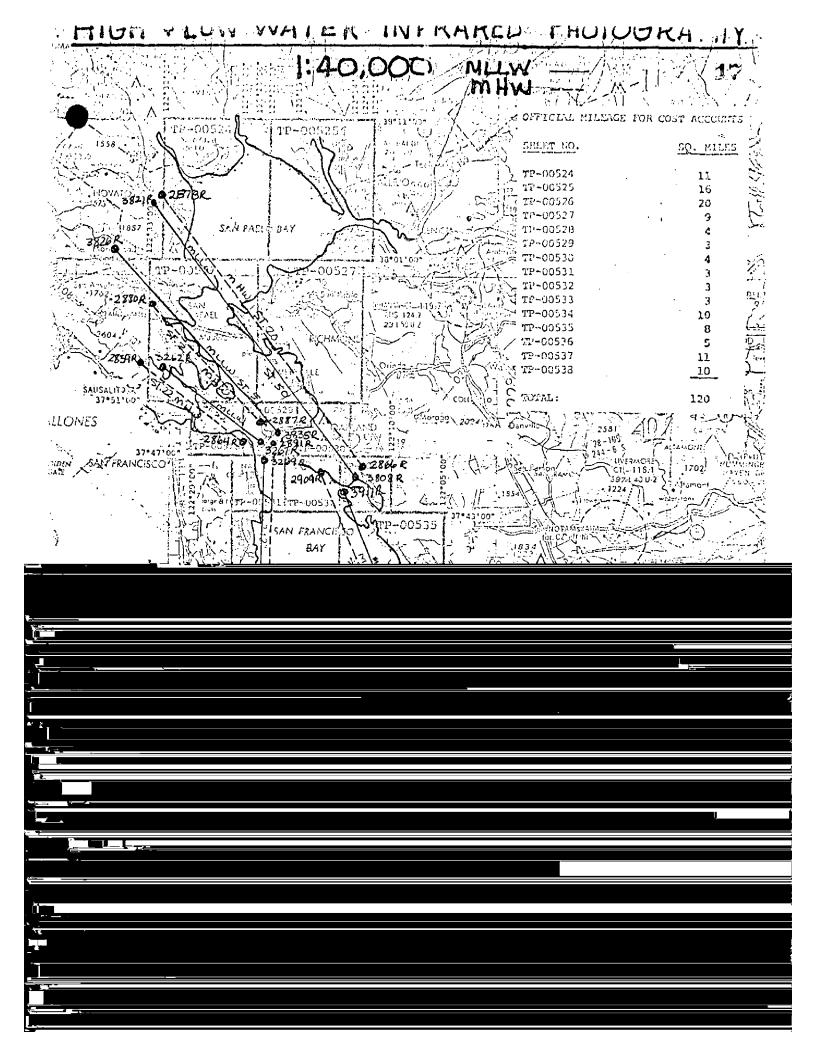
The photography was adequate as to placement of flight lines consistent quality, definition and absence of haze.

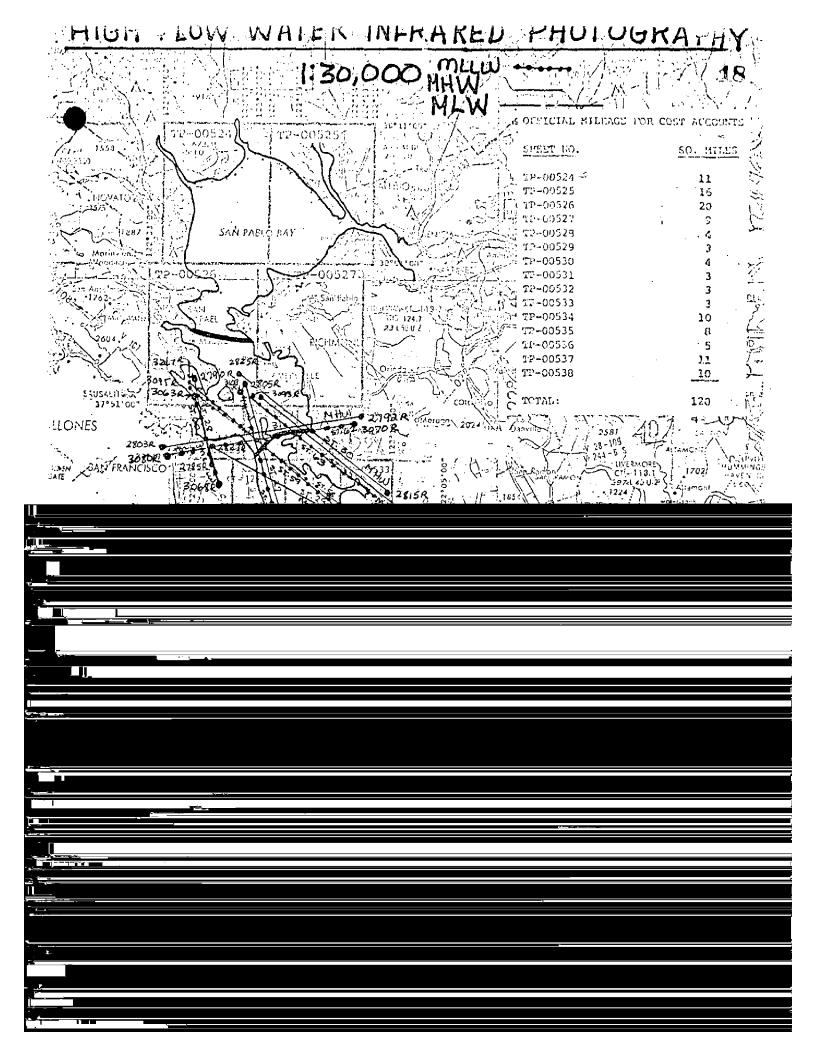
Submitted by:

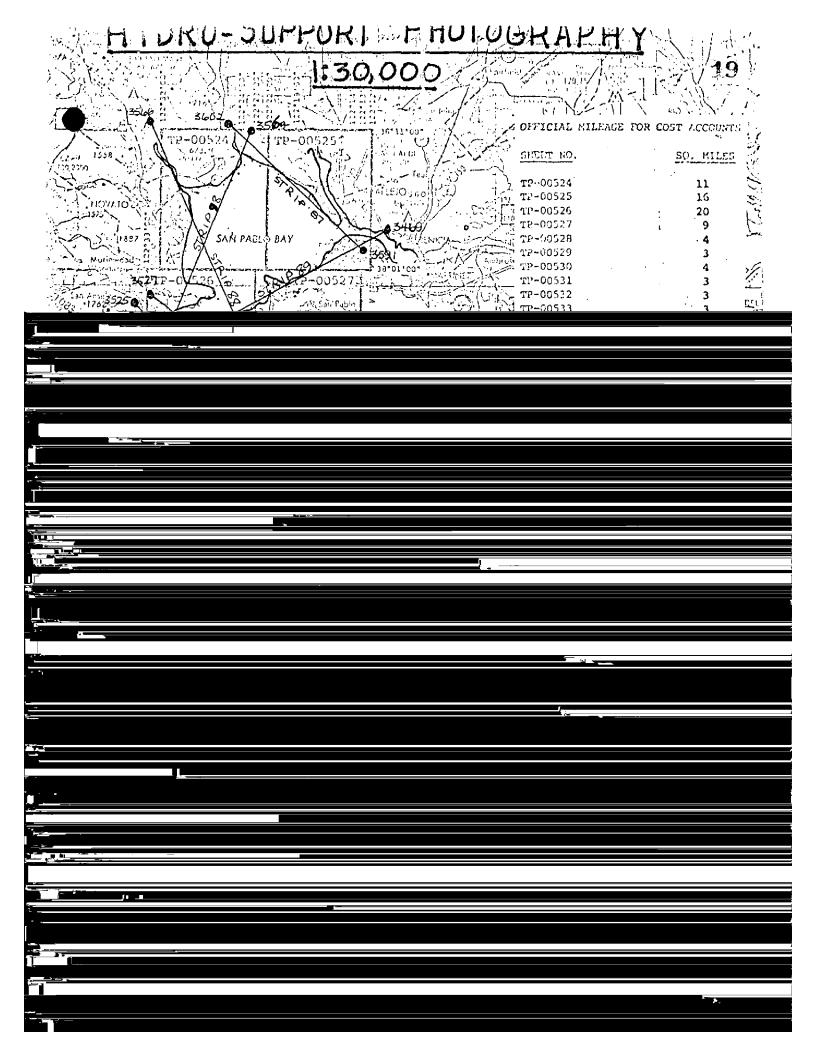
Robert B. Kelly DIAR ILAN Approved and Forwarded: 🕙

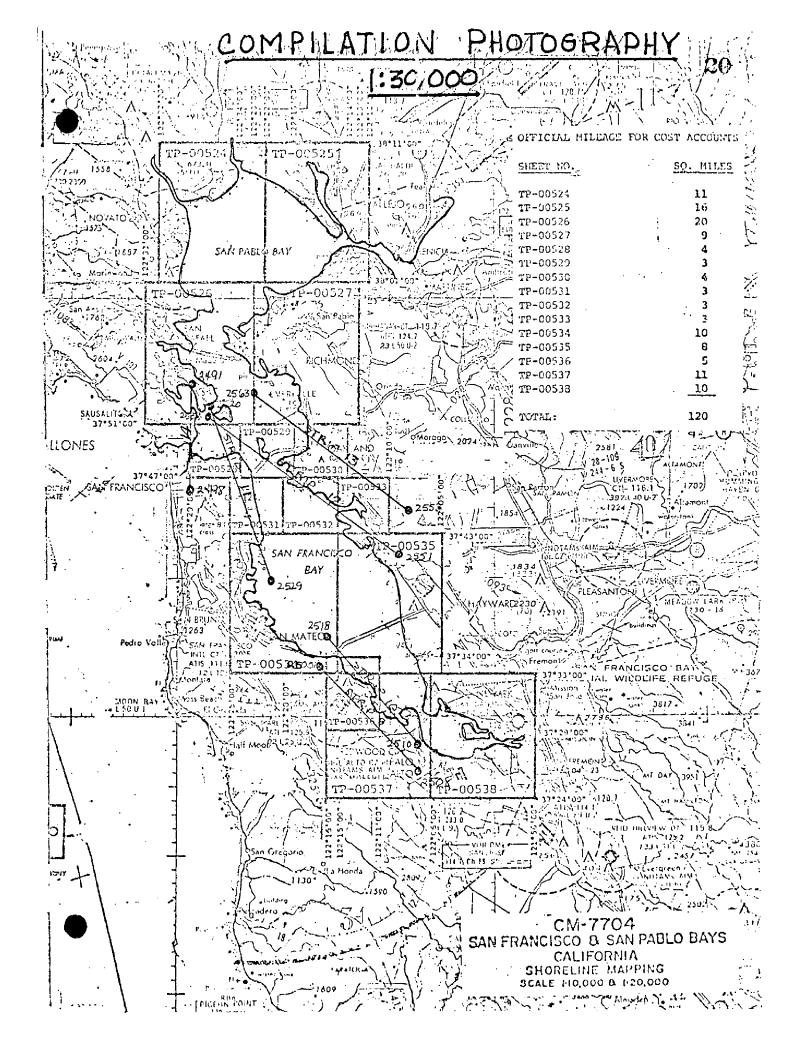
KEY TO NUMBERED CONTROL STATIONS USED IN ADJUSTMENT AND CLOSURES

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1 LAKEVILLE, SQUARE TANK ON HILL, 1951 TANK( 1.04,-3.77)
                                   PANEL( -.25, .23)
2 BUG (SLC), 1951 COULD NOT SEE
 3 SLAUGHTERHOUSE PT. 3, 1921
                                                       (-2.22, .52)
4 MARE ISLAND SOUTHEAST= ,1952
                                                        3.02, -.23)
 5 PINOLE HERCULES POWDER CO., TANK ,1947
                                                         .38, -.17)
 6 WILSON, 1852
                                                         .08, --10)
7 POINT PINOLE ATLAS DOCK, SHED E. GABLE, 1950 COULD NOT SEE
8 SAN PABLO RIDGE, 1897
                                                        ( 2.14,-1.21)
9 GROVE POINT 2, 1887
                                                         -.65,
10 PETALUMA CREEK, 1851
                                                         1.70,-
                                                                .24)
                                                        -2.08,
11 RICHARD, 1932
                                                                 .91
12 ALAMRDA N.A.S. E. BREAKWATER N. LT. 1953
                                                          .00,
                                                                 .00)
                                                         -.09,-
13 CROSSING, 1955
14 T I C9, 1947
                                                          .00.
                                                                 .00
15 CLARK, 1948
16 BARRY, 1932
                                                         ·3.36, -. 98)
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NOAA FORM 76-41 (6-75)				NATIONAL OCEANIC AN	U.S. DEPARTMENT OF COMMERCE NATIONAL OCEANIC AND ATMOSPHERIC ADMINISTRATION
	:	DESCRIPTIV	CRIPTIVE REPORT CONTROL RECORD		
MAP NO.	JOB NO.		GEODETIC DATUM	ORIGINATING ACTIVITY	TIVITY
TP-00532	CM-7704		North American 1927	· Photogrammetri	netric Br., P.M.C.
	SOURCE OF	AEROTRI-	COORDINATES IN FEET	10	Denorthree
STATION NAME	INFORMATION (Index)	POINT	zone 3	φ LATITUDE λ LONGITUDE	Front (Back)
ALAMEDA INTAKE LIGHT, 1980	Field Form		X	φ 37° 45' 35.118"	1082.7m (767.1m)
(Field Position)	76-40		h=	λ 122° 16' 19.304'',	472.5m (996.2m)
AIAMEDA N A S CHANNEL LIGHT	Field Form		=χ	\$ 37° 46' 36.634"r	1129.4m (720.4m)
(Field	76-40		≥ĥ	λ 122° 191 47,929"~	1172.9m (295.4m)
ALAMEDA N.A.S. CHANNEL LIGHT	Field Form		=χ	ф 37° 46' 24.347''	750.6m (1099.2m)
(Field	76-40		=ĥ	λ 122° 19' 44.619"	1092.0m (376.4m)
ALAMEDA N A S CHANNEL LIGHT	Field Form		-χ	φ 37° 46' 34.336"~	1058.6m (791.2m)
(Field Position			g.	λ 122° 19' 02.145",	52.5m (1415.9m)
ATAMEDA N A S CHANNET TICHT	Field Rorm		χ=	φ 37° 46' 21.696"~	668.9m (1180.9m)
(Field			=ĥ	λ 122° 19' 03.318"	81.2m (1387.2m)
ALAMEDA N.A.S. CHANNEL RANGE	100172		x=1,480,309.02	\$.37° 46' 26,616"	820.6m (1029.2m)
53		, , , , , , , , , , , , , , , , , , , ,	y= 468,880.07	λ 122° 17' 53.335"	1305.3m (163.1m)
ALAMEDA N.A.S. DAYBEACON 8,	Field Form		-χ	461	
1980 (Field Position)	76-40		=ĥ	λ 122° 18' 16.603"~	406.4m (1062.1m)
ALAMEDA N.A.S. EAST BREAKWATER	HR		$x = 1,477_{8}698.11$	φ 37° 46' 06.358"~	196.0m (1653.8m)
. ឡ	371221		y= 466,881.03	λ 122° 18' 25.368"	620.9m (847.6m)
ALAMEDA N.A.S. BAST BREAKWAN	4.5		=×	φ 37° 46' 14.939"	460.6m (1389.3m)
NORTH LIGHT, 1953 Sub Point Field Form	Pield Form 211	7.1.1 	y=	λ 122° 17' 34.330"	840.2m (628.3m)
ALAMEDA N.A.S. EAST BREAKWATER	ER ALL	ommen c	x = 1,477,669.02	461	78.9m (1770.9m)
SOUTH LIGHT, 1953	371221		y= 466,497.38	λ 122° 18' 25.638".	627.5m (.841.0m).
COMPUTED BY J.R. Minton		DATE 11/18/80	COMPUTATION CHECKED BY W. R.	Richter	DATE 12/2/80
LISTED BY J.R. Minton		P115/18/80	LISTING CHECKED BY W. R.	Richter	DATE 12/2/80
HAND PLOTTING BY J.R. Minton		DATE 11/18/80	ł	Richter	DATE 12/2/80
		SUPERSEDES NO	RSEDES NOAA FORM 76-41, 2-71 EDITION WHICH IS OBSOLETE	CH IS OBSOLETE.	Do. 1 of 2

Pg. 1 of 2

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(6–75)		DESCRIPTIV	SCRIPTIVE REPORT CONTROL RECORD		U.S. DEPARTMENT OF COMMERCE NATIONAL OCEANIC AND ATMOSPHERIC ADMINISTRATION.
MAP NO. TP-00532	JOB NO. CM-7704		GEODETIC DATUM North American 1927	ORIGINATING ACTIVITY Photogrammetric	\ \frac{\x}{2}
			COORDINATES IN FEET	GEOGRAPHIC POSITION	:
STATION NAME	SOURCE OF INFORMATION (Index)	AEROTRI- ANGULATION POINT NUMBER	srare California	\$ LATITUDE	Departures
TOSEPHS			40.2 40	A 270 AET AE 3015	
SQUARE WHITE CUPOLA, 1925	2/1771		464,	122° 15' 08.	203.2m (1265.4m)
BALLENA, 1979 (FIELD POSITIO	POSTTION		χ=	φ 37° 46' 01.554"<	47.9m (1801.9m)
	Field Form	n	zĥ.	λ 122° 16' 43.132" -	
BALLENA BAY LIGHT 1, 1980	Field Form		<i>-</i> χ	φ 37° 45' 49.066"~	1512.7m (337.1m)
(Field Position	76-40		=ĥ	λ 122° 16' 53.582~	1311.5m (157.1m)
A BAY	<u> </u>		χ-	φ 37° 45' 33.845"	1043.5m (806.4m)
TOWER, 1980 (Field Position	76-40		η=	λ 122° 16' 32.315"	791.0m (677.7m)
INA BAY REAR	RANGE MARKER FIRIT FORM		.X=	φ 37° 45' 53.263".	1642.lm (207.7m)
1980 (Field Positaon)	76-40		y= .	λ 122° 16' 20.306"	497.0m (971.6m)
DISK B, 1979	Field Form	i	-χ	φ 37° 44' 24.915"~	768.lm (1081.7m)
	76-45		y≈	λ 122° 15' 35.623".	872.2m (596.9m)
HOSPITAL, 1947	371221	213	x = 1,493,486.50	φ 37° 45' 46.418"	1431.1m (418.7m)
- 1		4 1	y= 464,563,61	λ 122° 15' 08.227"	201.4m (1267.2m)
	*Field		χ=	\$ 37° 46' 06.900"-	
EAST LIGHT, 1980	printout		<i>y</i> =	A 122° 18'-34.812"	
*ALAMEDA NAS WEST BREAKWATER	*Field		χ=	φ 37°. 46" 18,724"	
WEST LIGHT, 1980	printout		<i>ц</i> =	λ 1220, 181 59, 993"	
*Original 1953 NGS stations	redetermined	d during	χε	•	
Hydrographic survey H-9844	(1981).		ήα	Y	
COMPUTED BY J.R. Minton		DATE 11/18/80	COMPUTATION CHECKED BY RIC	Richter	DATE 12/2/80
LISTED BY J.R. Minton		Pf1918/80		Richter	DATE 12/2/00
HAND PLOTTING BY J.R. Minton		DATE 11/18/80	HAND PLOTTING CHECKED BY RIC	Richter	DATE 12/2/80
		SUPERSEDES NO	RSEDES NOAA FORM 76-41, 2-71 EDITION WHICH IS OBSOLETE		Po. 2 of 2

Pg. 2 of 2

COMPILATION REPORT

TP-00532

31. DELINEATION

Delineation was by instrument methods using the Wild B-8 stereoplotter. Compilation photography was adequate. The mean high water and the mean lower low water lines were compiled graphically from the tide coordinated infrared ratio photos indicated on form 76-36B.

32. CONTROL

Horizontal control was adequate. See the attached Photogrammetric Plot Report, dated July 22, 1977.

33. SUPPLEMENTAL DATA

None

CONTOURS AND DRAINAGE

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

35. SHORELINE AND ALONGSHORE DETAILS

Alongshore details were delineated by the Wild B-8 stereoplotter and by office stereoscopic interpretation of the ratioed photographs.

See form 76-36B, items 2 and 3 for delineation of the mean high water and mean lower low water lines. \circ

36. OFFSHORE DETAILS

No unusual problems.

37. LANDMARKS AND AIDS

Preliminary 76-40 forms consisting of 2 pages of Na \hat{v} igational Aids and 1 page of Landmarks for charts were prepared for field edit.

38. CONTROL FOR FUTURE SURVEYS

NONE

TP-00533

39. JUNCTIONS

See the attached form 76-36B, item 5 of the Descriptive Report concerning junctions.

40. HORIZONTAL AND VERTICAL ACCURACY

· See item #32.

46. COMPARISON WITH EXISTING MAPS

A comparison was made with the following 1:24,000 scale U.S. Geological Survey Quadrangles:

Oakland West, Calif., 1959, photorevised 1968 and 1973. Hunters Point, Calif., 1956, photorevised 1968.

47. COMPARISON WITH NAUTICAL CHARTS

A comparison was made with the following National Ocean Survey chart: No. 18650, scale 1:20,000, 32nd ed., July 3, 1976

ITEMS TO BE APPLIED TO NAUTICAL CHARTS IMMEDIATELY

None

ITEMS TO BE CARRIED FORWARD

None

Submitted by:

David Pl Butler

Cartographic Technician

July 28, 1978

Approved:

Albert C. Rauck, Jr.

Chief, Coastal Mapping Section

TP-00532

The field edit data listed on form 76-36C, Field Edit, was applied by the Photogrammetric Branch of the Pacific Marine Center rather than the original compilation activity. The edit was applied by standard methods utilizing approved tides data. The horizontal control report for H-9844, which is referenced in the field edit report, has not been forwarded to this activity as of this date, consequently the field positions listed on the final 76-40/41 forms were transcribed from the field edit 76-40s and not checked against the actual field geographic position list.

The field 76-40 position for Alameda Intake Light, 1980 differs slightly from the position on the signal tape provided with the edit data. The 76-40 position was listed on the final office forms.

Also, during the computation of departures for plotting new third order control, it became apparent the inverse distances listed on the Geodetic/Photogrammetric Position Comparison page of the Edit Report were incorrect. A copy with the corrected distances and an explanatory note has been inserted behind the original page in the Field Edit Report.

A number of Navy maintained "aids" are listed on the original office 76-40 even though they were not listed in the current Light List at the time of compilation. They were all deleted from the Light List between 1974 and 1977. They are currently plotted on the manuscript since they have third order positions and listed on the 76-41s only.

The field editor located a light - fix 0006 - on a pier on the east side of Fortmann Basin in BrooklymBasin South Channel. The editor did not indicate that the light should be entered as a new aid or list the light on the field form 76-40. Nor did the editor specify whether the light was privately maintained. After examining the Light Lists, I have assumed the light is not a maintained aid and not of Landmark significance. I have illustrated the light as a map feature and did not list it on the final 76-40.

The field editor verified ruins within Alameda N.A.S. Inner Basin in response to a question on the field edit ozalid. However, the ruins are not compiled on the manuscript or visible on the photographs. Consequently, the dashed line detailed on the manuscript is only an approximation of the ruins illustrated on 1:20,000 scale chart 18650. Although the editor identified objects in the foreshore area of the east side of Alameda N.A.S. Inner Basin as buttresses remaining from an old bridge, I have not compiled the features since they are inshore of the water line and are not of landmark value, and appear to constitute no hazard to navigation.

Addendum to the Compilation Report TP-00532

The original compilation activity incorrectly named Alameda N.A.S. East Breakwater North Light, 1953 Sub Point, as Alameda N.A.S. East Breakwater South Light, 1953 Sub Point.

The manuscript has been upgraded to class I status.

Submitted by:

James R. Minton

Cartographic Technician

James R. Minton

November 28, 1980

Contrary to the previous remark concerning obstruction heights, approved tide data was not available at the time of field edit application. This data was acquired during final review and applied accordingly.

The two groins at Lat. 37°45.5!, Long. 122°15.7' were delineated from field sketches submitted during field edit. The positions for these features are suspicious as their locations are based on references to questionable street patterns along the shore. These features were compiled as position approximate.

J. L. Hancock

Q. I. Harvork

Final Review

February 1982

IOAA FORM 75-74 7-75)	РНОТ		ric office review 2 - 00532	J.S. DEPARTMENT OF COMMERC NOA NATIONAL OCEAN SURVI
. PROJECTION AND GRIDS	2. TITLE		3. MANUSCRIPT NUMBERS	4. MANUSCRIPT SIZE
J.D.R.	J.D.R.		J.D.R.	J.D.R.
CONTROL STATIONS				
5. HORIZONTAL CONTROL ST THIRD-ORDER OR HIGHER	ATIONS OF ACCURACY	6. RECOVERAL OF LESS TH (Topographic	BLE HORIZONTAL STATIONS IAN THIRD-ORDER ACCURACY c stations)	7. PHOTO HYDRO STATIONS
J.D.R.		, , ,	None	None
BENCH MARKS	9. PLOTTING OF	SEXTANT	10. PHOTOGRAMMETRIC PLOT REPORT	11. DETAIL POINTS
None	None		J.D.R.	J.D.R.
ALONGSHORE AREAS (Nautica	1 Chart Data)		<u> </u>	
12. SHORELINE	13. LOW-WATER	LINE	14. ROCKS, SHOALS, ETC.	15, BRIDGES
J.D.R.	J.D.R.		J.D.R.	J.D.R.
6. AIDS TO NAVIGATION	17. LANDMARKS	-	18. OTHER ALONGSHORE PHYSICAL FEATURES	19. OTHER ALONGSHORE CULTURAL FEATURES
J.D.R.	J.D.K.		J.D.R.	J.D.R.
PHYSICAL FEATURES				
O. WATER FEATURES		21. NATURAL	GROUND COVER	22. PLANETABLE CONTOU
J.D.R.			None	None
3. STEREOSCOPIC INSTRUMENT CONTOURS	24. CONTOURS	N GENERAL	25. SPOT ELEVATIONS	26, OTHER PHYSICAL FEATURES
J.D.R.	None		None	J.D.R.
CULTURAL FEATURES				
27. ROADS	28. BUILDINGS		29. RAILROADS	30. OTHER CULTURAL FEATURES
J.D.R.	J.D.R.		J.D.R.	J.D.R:
BOUNDARIES	<u> </u>		<u> </u>	
11. BOUNDARY LINES			32. PUBLIC LAND LINES	,
Not applicable			Not applicable	
MISCELLANEOUS 3. GEOGRAPHIC NAMES		34. JUNCTION	<u> </u>	35, LEGIBILITY OF THE
				MANUSCRIPT
J.D.R.		J.D.R	•	J.D.R.
6. DISCREPANCY OVERLAY	37. DESCRIPTIV	E REPORT	38. FIELD INSPECTION PHOTOGRAPHS	39, FORMS
J.D.R.	J.D.R.		None	J.D.R.
O. REVIEWER			SUPERVISOR, REVIEW SECTION	ON OR UNIT
Joanne D. Roderick	Sept. 20,	1978	Albert C. Rauck	, Jr.
1. REMARKS (See attached she	et)			
TELD COMPLETION ADDITION		ONS TO THE	AANUSCRIPT	
2. Additions and correction script is now complete ex	s furnished by the cept as noted und	field completer item 43.	ion survey have been applied	to the manuscript. The manu-
COMPILER James R. M.	nto		SUPERVISOR	
James R. Mi Wlliam A. R			James W. Massey	
3. REMARKS	TOTAL !	<u></u>		

PHOTOGRAMMETRIC OFFICE PRE-HYDRO AND FIELD EDIT REVIEW

TP- 00532

PROJECTION AND GRIDS	TITLE	HORIZONTAL CONTROL	PHOTOGRAMMETRIC PLOT REPORT.
JR	JR	JR	JR
DETAIL POINTS AND PASS POINTS	PROCESSED RATIOS	AIDS TO NAVIGATION	LANDMARKS
JR ·	JR	JR	JR .
MEAN HIGH WATER LINE	LOW-WATER LINE	ROCKS, SHOALS, ETC.	ALONG SHORE AND OTHER PHYSICAL FEATURES
JR	JR	JR	JŘ
WATER FEATURES	ALONG SHORE AND OTHER CULTURAL FEATURES	BRIDGES	ROADS
JR	JR	JR	JR
BUILDINGS	RAILROADS	CONTOURS AND SPOT ELEVATIONS	GEOGRAPHIC NAMES
JR	JR	NA	JR
JUNCTIONS	LEGIBILITY OF THE MANUSCRIPT	COMPILATION REPORT	FIELD EDIT OZALID
JŔ	JR	JR	· JR
COMPARISON WITH NAUTICAL CHARTS	COMPARISON WITH PRIOR SURVEYS	COMPARISON WITH EXISTING MAPS	FIELD PRINTS AND OTHER COPIES
.TR	JR	JR	JR
REVIEWER :	DATE	SUPERVISOR	DATE
Joanne Roderi	ck Sept. 1978	A. C. Rauck	July 1978 :

PHOTOGRAMMETRIC OFFICE POST-HYDRO AND FIELD EDIT REVIEW

MANUSCRIPT NUMBERS	FORMAT STICK-UP	MANUSCRIPT SIZE	HORIZONTAL CONTROL
WR, JH	ЈН	JH	JH
PHOTO HYDRO STATIONS	PLOTTING OF SEXTANT FIXES	AIDS TO NAVIGATION	LANDMARKS
WR	WR, JH	WR, JH	WR, JH
MEAN HIGH WATER LINE	LOW-WATER LINE	ROCKS, SHOALS, ETC.	ALONG SHORE AND OTHER
WR, JH	JH	WR, JH	PHYSICAL FEATURES WR JH
WATER FEATURES	ALONG SHORE AND OTHER CULTURAL FEATURES	PIPELINES, CABLES, ETC.	BRIDGES
WR	WR, JH	WR, JH	JH ¹
ROADS .	BUILDINGS	RAILROADS	CONTOURS AND SPOT ELEVATIONS
JH	JĦ	JH	NA '
GEOGRAPHIC NAMES	JUNCTIONS	FIELD EDIT PHOTOGRAPHS	FIELD EDIT OZALID
JH	'JH '	WR, JH	WR, JH
GEOGRAPHIC FIX POSITIONS	FIELD FORMS	FIELD EDIT REPORT	APPROVED TIDES
WR, JH	WR, JH	WR, JH	JH (Feb. 1982)
CHART MAINTENANCE PRINT AND OTHER COPIES	PREPARATION FOR FINAL REVIEW	COMPILER	DATE
JH (Feb. 1982)	WR, JH	James R. Minton	November 1980
REVIEWER	DATE	SUPERVISOR	DATE
William A. Richte	er December 1980	James W. Massey	December 1980

REMARKS

A complete office review after the application of field edit was not performed prior to advancing the manuscript to a Class I map. Consequently, an extensive and thorough office review was accomplished during the final review. Heights for alongshore features were applied from approved tides during final review.

Jerry L. Hancock

Jeny J. Humort Final Review, Feb. 1982 FIELD EDIT REPORT

TP-00532 Scale 1:10,000

OPR-L123-PHP-80

BAY AREA SURVEYTEXPEDITION TOUCH
SAN FRANCISCO BAY
CALIFORNIA

PACIFIC HYDROGRAPHIC PARTY

DIRK R. TAYLOR, LCDR. NOAA
CHIEF OF PARTY

I. METHODS

Field edit for TP-00532 was conducted in accordance with chapter 11 of the Manual of Coastal Mapping Procedures by personnel of the Pacific Hydrographic Field Party. Shoreline inspection was accomplished from a 17' "Boston Whaler" at zero or negative stages of tide on April 11 (J.D. 102), 127 (J.D. 103), and 17. (J.D. 108), 1980. Compilation of the sheet was verified by direct inspection of the photography during field edit. Features which were not visible on the photography or had changed since the time of the photography were located by ground survey using sextant resection and measurements from photo-identifiable points. Additional position data collected during hydrographic survey H-9844 (using 3 electronic or visual linessof position) was used to locate uncompiled features and verify compiled features on TP-00532. Care was taken to assure that duplicate positions for the same feature were not submitted with field edit and hydrographic data. Changes, additions, and deletions to the sheet were noted on the field edit sheet, chronapaque photos 77B (P) 3510 and 77B (P) 3511, or in the field edit notebook. Compiled positions of all fixed aids to navigation were verified by ground survey. Fixed aids not located photogrammetrically during compilation were located geodetically to 3rd order, class I standards (see "Horizontal Control Report to Accompany Hydrographic Survey H-9844). Photopositions were replaced by geodetic positions (when available) on form 76-40. Landmarks were inspected from seaward and verified or revised as necessary on form 76-40. All elevations were recorded in feet and times were recorded in GMT (Zulu time) on this survey. Copies of triangulation recovery notes and station descriptions for the area covered by this survey were included with the data package. Originals were submitted with the "'Horizontal Control Report to Accompany Hydrographic Survey H-9844".

II. ADEQUACY AND COMPLETENESS OF COMPILATION?

Compilation of TP-00532 in general was complete and adequate. Most changes in compilation and answers to the compiler's questions are recorded on the field edit sheet or photos and are self-explanitory. The following items require further explanation:

The crib line pilings shown on chart 18649 off Bay Farm Island (Lat. 37 44' 20" N, Long. 122 15'30" W) and Alameda Island (Lat. 37 45' 10" N, Long. 122 16'00" W) were investigated during hydrographic survey H-9844 (see descriptive report for H-9844). no piles are visible in these areas at MLLW.

The Burn of the second of the

The submerged dolphin shown off Alameda Naval Air Station (Lat. 37 46'50" N, Long. 122 19' 45" W) was disproved by wire drag during hydrographic survey H-9844.

The floats shown at the north entrance to Ballena Bay Yacht Harbor were removed and replaced with 2 floating breakwater structures made of times; bound on rigidatoamablocks. The new breakwaters are plotted on the field edit sheet in red.

A standing pipe and wreck lying an the bottom in Ballena Bay were located during hydrographic survey H-9844 (see descriptive report). These positions were submitted with H-9844 and are plotted on TP-00532 in red to avoid duplication on the two surveys.

III. GEOGRAPHIC NAMES

The placement of the name "Ballena Bay" is incorrect as shown on the manuscript. The correct placement is indicated on the field edit sheet. All other geographic names on the manuscript are correct as shown.

IV. MANUSCRIPT ACCURACY

Work incidental to hydrographic survey H-9844 required that several photo-located features also be located geodetically providing a convenient check of the horizontal accuracy of the sheet. The following table compares 3rd order, class I geodetic positions and photo positions for the fixed aids to navigation located during the survey.

V. RECOMMENDATIONS

In an area changing as rapidly as the Oakland Inner Harbor it is recommended that manuscripts be field edited as soon after compilation as possible to reduce the amount of ground survey work required of the field edit team. It is also recommended that low water photos and matte copies of the photos be included as part of the field edit package. These items were not included with the data package for TP-00532.

VI. UNCHARTED DANGERS AND OBSTRUCTIONS

TO NAVIGATION

A 3' diameter concrete pipe located at the south entrance of the Ballena Bay yacht basin extends a considerable distance off the spit of land into the harbor entrance. The elevation of the pipe ranges from 3' above MLLW to 3' below MLLW. This outfall is a hazard to boats entering the yacht harbor and should be included on the chart.

SUBMITTED BY:

DOUGLAS D. SMITH, LTJG, NOAA

APPROVED AND FORWARDED BY:

Dirk R. Taylor, LCDR, NOAA CHIEF OF PARTY

Page 1 Page 1 WK TYPE-14.45.M-CODE-12.413.4UNDERGROUND MK TYPE-1.——.M-CODE-1.	*15*STATE CODE/COUNTY *22*MARKER TRANSP PACK *23*HGT OF TELESCOPE TYPEL CODE TYPEL CODE *26*CONDI- TRANSP PACK *27*HGT OF TELESCOPE TION CODE TINE HRS,, MIN, METERS	#HADOL, SBLOPE, V.V.G, Nnot. V.G. OTHER-THAN-MEASURED	
¥	- 25 - 25 - * *-	H-horizon	2
,			
	J.		

Page 2 STATION DESCRIPTION - ORIGINAL OR RECOVERY DESCRIPTIVE TEXT - CONTINUED
t-Robert-We-German-Newerial-State-Beach-Packe-The-
f_tbe_apex_of_tbs_U_sbaped_walkway_Lo_fc=bt
. Cypress - trees - known-as-the-Arthur-Fi-Streahlew
d.on.a-becwo-baylder-that-13-17Ft.=
40, of the station - The station 15,78Ft. 123.80 west of the western, nost -,
40.Curb_of_the_western_mest_paved_access_coad_along_the_central_parking_
40, lat-facelities_in_the. Beach. Pack
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REVIEW REPORT TP-00532 SHORELINE

61. GENERAL STATEMENT:

An extensive final review was performed for this final shoreline map. No major discrepancies were encountered; however, minor revisions were made during final review which will affect previously forwarded Class III and Class I information. For a more complete analysis of the office and field operations, refer to the Summary included in 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 1:24,000 scale U.S.G.S. quadrangles:

Oakland West, Calif., 1959, photorevised 1968 and 1973 Hunters Point, Calif., 1956, photorevised 1968

No significant differences were noted.

64. COMPARISON WITH CONTEMPORARY HYDROGRAPHIC SURVEYS:

This final shoreline map corresponds geographically with portions of hydrographic surveys H-9844 (1979-81), H-9873 (1980-81) and H-9927 (1981). No comparison was made as these hydrographic surveys have not been processed. Prior to final review, a Class I map copy was forwarded to the Hydrographic Verification Branch at PMC. However, due to reoccuring discrepancies with preceding Class I maps, processing of the hydrographic surveys have been deferred pending receipt of this final map.

The nonfloating aids to navigation delineated on this final shoreline map were field determined by 3rd order ground survey methods during the combined hydrographic survey/field edit operation. All field records for the preliminary positions listed on the attached 76-40 forms were submitted with hydrographic survey H-9844.

65. COMPARISON WITH NAUTICAL CHARTS:

A comparison was made with the following National Ocean Survey charts:

No. 18650, 36th edition, 1:20,000 scale, dated June 7, 1980 No. 18649, 48th edition, 1:40,000 scale, dated February 14, 1981

The following Lights were reported by the field editor as still existing but not in operation during field edit. Their positions are listed on the control record forms (76-41) attached with this descriptive report.

Alameda N.A.S. East Breakwater North Lt., 1953 Alameda N.A.S. East Breakwater South Lt., 1953 Alameda N.A.S. West Breakwater East Lt., 1953/1980 Alameda N.A.S. West Breakwater West Lt., 1953/1980 Alameda N.A.S. Channel Range Rear Light, 1953

Ballena Bay Rear Range Marker, 1980 was field determined as a new navigational aid during field edit. The field description does not describe the lights function, structure or relationship to a front range marker; consequently, its position was listed only on the 76-41 control form. A copy of the station description is attached with the Field Report within this Descriptive Report. In addition to this light, all original field records for the navigational aids on this map were submitted with contemporary hydrographic survey H-9844.

A Chart Maintenance Print was not submitted to the Marine Charts Division at the Class I stage; consequently, only revisions to the Class III map will be indicated on the Final Chart Maintenance Print.

66. ADEQUACY OF RESULTS AND FUTURE SURVEYS:

This Final Map and accompanying Descriptive Report represent revised data as a result of final review and supersedes all previous map classifications.

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

Submitted by:

Jerry L. Hancock Final Reviewer

Approved for forwarding:

Billy H. Barnes

Billy H. Barnes

Approved:

Chief, Photogrammetric Branch, Rockville

Chief, Photogrammetry Division

GEOGRAPHIC NAMES

FINAL NAME SHEET

CM-7704 (San Francisco and San Pablo Bays, California)
TP-00532

Alameda

Alameda Belt Line (RR)

Alameda Naval Air Station

Ballena Bay

Bay Farm Island

Encinal Basin

Fortmann Basin

Government Island

Oakland Inner Harbor

San Francisco Bay

Approved by:

Charles E. Harrington Chief Geographer, OA/C3x5

DISSEMINATION OF PROJECT MATERIAL CM-7704

San Francisco and San Pablo Bays

NATIONAL ARCHIVES/FEDERAL RECORD

PACKAGE (BOX)

Field Edit Ozalid(s)
Engineer Plan(s)
Field Sketch(es)
NOAA Forms 76-40
Master Station Lists
Fix Vol(s) (275)
NOAA Forms 76-41
Revision Survey Photographs
Field Edit Ratio Photographs
Plot Report(s) (Duplicate copy(ies)

Project Completion Report

BUREAU ARCHIVES

Registered Copy(ies) of Map(s)
Descriptive Report(s) of Map(s)

REPRODUCTION DIVISION

8x Reduction Negative(s) of Map(s)

OFFICE OF STAFF GEOGRAPHER

Geographer Name Standard(s)

MARINE CHART DIVISION

Chart Maintenance Print(s) of Map(s)

NOAA FORM 76-40	-40			NA	IONAL OCE	U.S	. DEPART!	U.S. DEPARTMENT OF COMMERCE NATIONAL OCEANIC AND ATMOSPHERIC ADMINISTRATION	ORIGINATING ACTIVITY	CTIVITY
Replaces C&GS Form 567.	Form 567.	NONFLOAT	NONFLOATING AIDS TREE KNIBBLARKS FOR CHARTS	IDIK ARKS	FOR CHA	RTS			GEODETIC PARTY	ARI 4
X TO BE CHARTED	тер	REPORTING UNIT	ST		LOCALITY			DATE		1017
TO BE REVISED) D	Photogrammetric I	Br., California		San Francisco		and San	San Pablb 11/18/89	TOUR TEVENER	L & REVIEW GRP
TO BE DELETED		٥ĺ	Wa.		Bays				COAST PILOT BRANCH	NCH
The following objects		HAVE XX HAVE NOT	been inspected from seaward to determine their value as landmarks	award to de	termine thei	r value as	landmarks.		(See reverse for responsible personnel)	ible personnel)
OPR PROJECT N			SURVEY NUMBER	DATUM						
		CM-77Ø4	TP-00532	North	American 1927	1927		METHOD AND DATE OF LOCATION	E OF LOCATION	
				i	POSITION	NO		(See instructions on reverse side)	on reverse side)	CHARTS
-		DESCRIPTION	-	LATITUDE	agn.	LONGITUDE	UDE			AFFECTED
CHARTING	(Record re-	Record resson for deletion of landmark or aid to navigation.	or aid to navigation.	,	"	, ,	"	OFFICE	FIELD	
	Show trian	Show triangulation station names, where applicable, in par	applicable, in parentheses,	,	D.M. Meters	`	D.P. Meters			
,			,		769.96		47.929	¥ *	F-2-6-I	18649
LIGHT	Alame(Field	Alameda N.A.S. Channel Field Position))	Light 3, 1980	37 46	1129.4	122 19	1172.9		Ø\1/11/8Ø	1865Ø
			ٔ ا		24.347	1		77B(P) 3512	F-2-6-L	18649
LIGHT	Alame(Field	Alameda N.A.S. Channel Field Position))	Channel Light μ , 1980	37 46	750.6	122 19	1,092.0	Mar.18, 1977	Ø4/11/8Ø	1865Ø
	:	1	1		34.336		02.145	77B(P) 3512	F-2-6-1	18649
LIGHT	\Alame(Field	Alameda N.A.S. Channel Field Position))	Light 5, 1980	3/ 1/10	1058.6	22 19	52.5	Mar. 18, 1977	Ø4/11/8Ø	18650
			ŀ		21.696	,			F-2-6-I	18649
LIGHT	(Alame Field	Alameda N.A.S. Channel Light Field Position)	Light 6, 198%	37 46	668.9	122 19	81.2		Ø4/11/8Ø	1865Ø
-					956.60	1	16.603	77B(P) 3511	F-2-6-L	18649
DAYBEACON	Alame Field	Alameda N.A.S. Daybeacon Field Position)	on 6, 198Ø	37 46	5 . 96£	22 18	1106.11	Mar. 18, 1977	Ø4/11/8Ø	1865Ø
	,	7 4 4 1 1 1 1		,)	119.066		53.582	77B(P) 351 Ø	F-3-6-I	18649
TUTCHIL	(Bealena i Position)	bay Light 1, 1)	уом (ттета	3(45	1512.7	91 22	1311.5	Mar. 16, 19//	04/11/60	1865 <i>0</i> 18652
		- - - -		\ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \	35.118		19.304		F-2-6-I	18649
THETT	(Alameda Posítion	Intake Light,	1900 (Freid	31 45	1082.7	22 16	767.1		Ø4/11/4Ø	18658
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Pg. 1 of 2

	NOAA FORM 76-40 (6-74)	*FIELD POSITIONS are vations based entir	A. Field position location and EXAMPLE: F-2	1 1 1		FIELD I. NEW POSITION DET Enter the applic F - Field	identify and loc EXAMPLE: 75E(C) 8-12-7		FORMS ORIGINATED BY QUALITY C AND REVIEW GROUP AND FINAL RE ACTIVITIES	POSITIONS DETERMINED AND/OR V	OBJECTS INSPECTED FROM SEAWA	TYPE OF ACTION	
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COMPILATION ACTIVITY

FINAL REVIEWER

COAST PILOT BRANCH (See reverse for responsible personnel) AFFECTED 186<u>4</u>9 1865ø 1865Ø 1865Ø 186<u>49</u> 1865ø 3 ORIGINATING ACTIVITY οŧ Pg. Triang. Rec. 04/11/80 METHOD AND DATE OF LOCATION 77B(P)351Ø F-3-6-L March 18, 1977 Ø4/11/8Ø Ø4/11/8Ø F-V-Vis. (See instructions on reverse side) FIELD · 5.7 Mar. 18, 1977 11/18/80 U.S. DEPARTMENT OF COMMERCE NATIONAL OCEANIC AND ATMOSPHERIC ADMINISTRATION 77B(P)3511 DATE OFFICE San Francisco and San 203.5 32, 315 122 18 32,61 D.P. Meters 791.8 determine their value as landmarks Ø8.3Ø 798 **LONGITUDE** 122 16 122 15 American 1927 KS FOR CHARTS Pablo Bays o **POSITION** 1043.5 LOCALITY 1430.2 D.M. Meters 33.815 16.39 56.08 1729 300 TIT

NOAA FORM 76-40 (8-74)	- Intel - Resec . Field locati EXAMPI D POSITI	FIELD FIELD Enter the application of the service of	OFFICE (. OFFICE [DENTIFIE] Enter the number day, and year) of identify and location and location and location and location are setting.	POSITIONS DETERMINED AND/OR VE FORMS ORIGINATED BY QUALITY CO AND REVIEW GROUP AND FINAL REV ACTIVITIES	TYPE OF ACTION OBJECTS INSPECTED FROM SEAWAR
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