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-00534	1
Job No.	
CM-7704	
Map Classification	
FINAL, FIELD EDITED	MAP
Type of Survey SHORELINE	
LOCALITY	,
State	
California	
General Locality	
San Francisco and San	n Pablo Bays
Locality	
Coyote Point	
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1977 TO 19	80
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REGISTRY IN ARC	THIAE2
DATE	

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

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NOAA FORM 76-36A (3-72) U. S. DEPARTMENT OF NATIONAL OCEANIC AND ATMOSPH	COMMERCE ERIC ADMIN.	TY	PE OF SURVEY	SURVEY	тр. 00534
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DESCRIPTIVE REPORT - DATA RECOR	`	_	REVISED		##CM-7704
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Roy K. Matsushige, CDR, NOAA	1		REVISED	19 TO 1	9
I. INSTRUCTIONS DATED					
1. OFFICE			·	2. FIELD	
Aerotriangulation April 13, 1977	7 -	— Сс	ontrol - Pre	marking Fe	ebruary 7, 1977
Compilation August 3, 1977	7 '				
Amendment 1 April 20, 1978	3.				
Amendment 2 April 6, 1979	1				
Amendment 3 July 30, 1979 Compilation July 2, 1981				,	
Compilation July 2, 1981					
II. VALUMS		THE	R (Specify)		
I. HORIZONTAL: XX 1927 NORTH AMERI	ICAN				
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2. VERTICAL: MEAN LOW-WATER					
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5. SCALE	s	STATE	:	ZONE	
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Chief, FU.S., G.R.O. 1972-769382/582 REG.#6

NOAA FORM 76-36B U. S. DEPARTMENT OF COMMERCE NATIONAL OCEANIC AND ATMOSPHERIC ADMINISTRATION NATIONAL OCEAN SURVEY TP-00534 ~ **COMPILATION SOURCES** 1. COMPILATION PHOTOGRAPHY CAMERA(S) TYPES OF PHOTOGRAPHY TIME REFERENCE Wild R. C. 10 "B" (B = 152.74 mm)LEGEND TIDE STAGE REFERENCE ZONE (C) COLOR PREDICTED TIDES Pacific XXSTANDARD (P) PANCHROMATIC X REFERENCE STATION RECORDS MERIDIAN DAYLIGHT (I) INFRARED TIDE CONTROLLED PHOTOGRAPHY 120th STAGE OF TIDE NUMBER AND TYPE DATE TIME SCALE 77B(P)2619-2621 Mar. 4,1977 13:36 1:50,000 Not computed Mar. 4,1977 14:32 77B(P)2673-2676 1:50,000 Not computed Mar. 18,1977 14:39 1:30,000 77B(P)3759-3764** Not computed 77B(P)3748-3751** Mar. 18,1977 14:23 1:30,000 Not computed 77B(I)3274-3282 alternate* Mar 11,1977 12:14 1:40,000 0.27 ft. below MLLW -77B(I)3939-3943* Mar. 29, 1977 14:39 1:40,000 0.03 ft. above MLLW-77B(I)2897, 2899, 2901* Mar. 5,1977 12:18 1:40,000 0.09 ft. above MHW-1:40,000 77B(I)2958-2966 alternateMar. 5,1977 12:54 0.13 ft. below MHW ~ REMARKS Photographs 77B(P)2619-2621 and 2673-2676 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:

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			OVERED BY	None			1 000	
VERTICAL CON	NTROL	ESTA!	BLISHED BY	None		-		
		PRE-MARKED OR IDE	NTIFIED BY	None				
.		ECOVERED (Triangulation	Stations) BY	R. Mëlby			Feb.	1977
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	·	X NO INVESTIGA	TION		<u> </u>			
PHOTO INSPEC	TION	CLARIFICATION OF	DETAILS BY	None			<u> </u>	
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HOTO NUMBER		OBJECT NAME		PHOTO NUMBER		OBJECT	NAME	
		REPORT XX	ONE	6. BOUNDARY AND	LIMITS:	REPOR	₹7 X	NONE
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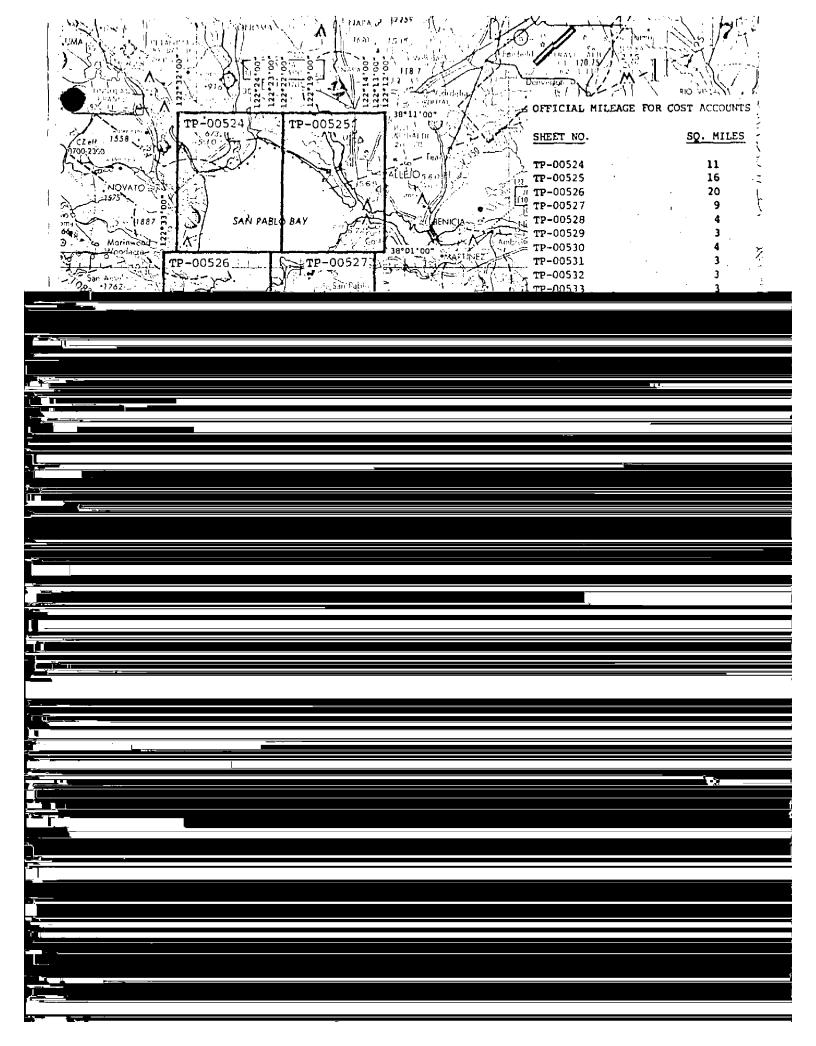
FIELD INSPECTION OPERATION		DOPERATIONS		ATIONAL OCEAN SUR
	XX FIE	LD EDIT OPERATION	(Supplements see item	ntal field edi #8)
OPERATION	······································		NAME	DATE
CHIEF OF FIELD PARTY		D. Taylor,	TOND NOAA	Jan. 198
	RECOVERED BY		ECDIX, NOAK	Jan. 190
HORIZONTAL CONTROL	ESTABLISHED BY			
PRE-MARKEC	OR IDENTIFIED BY			
	RECOVERED BY	None		
VERTICAL CONTROL	ESTABLISHED BY	None		
PRE-MARK EC	OR IDENTIFIED BY	None		
RECOVERED (Triar	gulation Stations) B	None		
LANDMARKS AND LOCATE	D (Fleid Methods) B	NT		
AIDS TO NAVIGATION	IDENTIFIED BY	Mana		
TYPE OF (NVESTIGATION			
GEOGRAPHIC NAMES COMPL	LETE Bi	,		
INVESTIGATION SPECI	FIC NAMES ONLY			
M no in	/ESTIGATION			
PHOTO INSPECTION CLARIFICAT	ION OF DETAILS BY	None		
BOUNDARIES AND LIMITS SURVEYED	OR IDENTIFIED BY	N.A.		
HORIZONTAL CONTROL IDENTIFIED None	,	2. VERTICAL CO None	T	
OTO NUMBER STATION NA	AME.	PHOTO NUMBER	STATIC	DESIGNATION
PHOTO NUMBERS (Clarification of details) None				
LANDMARKS AND AIDS TO NAVIGATION IDEN	ITIFIED			
None				
OTO NUMBER OBJECT NA	ME	PHOTO NUMBER	ОВ	JECT NAME
GEOGRAPHIC NAMES: REPORT	X NONE	6. BOUNDARY AN	ID LIMITS:	REPORT XXNONI

8. OTHER FIELD RECORDS (Sketch books, etc. DO NOT list data submitted to the Geodesy Division)

1 "Addendum to Field Edit Report" (claification remarks responsive to the original field edit).

NOTE: This is additional field edit information as requested by PMC concerning discrepancies associated with the original fied edit.

U. S. DEPARTMENT OF COMMERCE NATIONAL OCEANIC AND ATMOSPHERIC ADMINISTRATION NOAA FORM 76-36D (3-72) TP-00534 RECORD OF SURVEY USE MANUSCRIPT COPIES COMPILATION STAGES DATE MANUSCRIPT FORWARDED DATA COMPILED DATE MARINE CHARTS HYDRO SUPPORT REMARKS Compilation complete Oct. 1978 Class III manuscript Feb. 1979 Feb. 1979 pending field edit. Partial field edit March, 1981 *Class III manuscript March 1981 None applied. Final reviewed; supplemental field edit appliedApril 1982 Final Map April 1982 April 1982 and reviewed. *Manuscript was never advanced to a Class I Map prior to final review. See Review Report, item #61 for remarks. II. LANDMARKS AND AIDS TO NAVIGATION 1. REPORTS TO MARINE CHART DIVISION, NAUTICAL DATA BRANCH CHARTLETTER DATE NUMBER REMARKS NUMBER ASSIGNED FORWARDED Pages Appropriate forms (76-40) are attached with this Descriptive Report; no forms were



SUMMARY TO ACCOMPANY DESCRIPTIVE REPORT

TP-00534

This 1:20,000 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 shoreline map corresponds geographically with portions of hydrographic surveys H-9819 (1981) and H-9952 (1981). At the time of final review, processing of these surveys had been deferred pending receipt of the final shoreline maps. A copy of this final map was forwarded to the Hydrographic Surveys Division.

This final map is a 1:20,000 scale shoreline map that portrays the western coast of the southern part of San Francisco Bay from Candlestick Point to Little Coyote Point.

Field work prior to compilation was accomplished in March 1977; this involved the establishment of horizontal control in order to meet aerotriangulation 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 map:s

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

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

TP-00534

Field edit was performed in conjunction withehydrographic survey H-9819 in October 1980 by personnel assigned to the Pacific Hydrographic Party. Because of the combined operations, several navigational aids and various offshore features are referenced to hydrographic field data. Consequently, source data for these items were submitted with the hydrographic surveys.

Application of field edit was performed at the Pacific Marine Center in March 1981. However, additional field edit was requested and the map was forwarded to the Atlantic Marine Center for final review as a partial field edited ClassIII map.

Additional field edit data, submitted as clarification remarks to the original field edit, was forwarded to final review in February 1982.

Final review was performed at the Atlantic Marine Center in April 1982. The additional field edit data was applied and reviewed in accordance with the original field édit. Based on the review results, this map was advanced from a Class III classification to a final map.

A final Chart Maintenance Print was prepared during final review and forwarded to the Marine Charts Division. This information will supersede the previous Class III maintenance print submitted in February 1979.

Accopy of this final map was forwarded to the Hydrographic Surveys Division as a "Hydrographic Maintenance Print". This print will indicate all revisions and additions made to the previous Class III map(partial field edit applied). Accompanying this map copy will be a complete set of 76-40 forms for the landmarks and nonfloating aids to navigation.

This Descriptive Report contains all 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 anavigational aidsrecords were submitted with contemporary hydrographic survey H-9819. 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-00534

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

Robl. B. Welly 4/5/77

FROM:

Robert B. Melby√

Chief, PMC Photo Party

SUBJECT:

Field Operations Project CM-7704, San Francisco and San

Pablo Bays, California

<u>Horizontal Control:</u>

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. pt. method as the stations did not lend themselves to being paneled direct. Distances up to about 2 miles were determined to the sub. points (panels), utilizing a Ranger III, laser distance measuring instrument. It was rapid, accurate and unaffected by eletronic disturbances, normal to a high population and/or industrial area like the project encompassed.

Vandalism was a problem, in regard to panels, as several were disturbed and required relaying or substituting with photo identifiable points.

Several aids to navigation and landmarks for charts were located by third-order tirangulation intersection methods. The aids to navigation (lights) marking the channel through San Bruno shoal would have been difficult to positively photo-identify.

All photo-panels were removed after photography to verify their being in place at the required time and to maintain a "cleanup" policy. All panels were in place by March 1, 1977.

Tide Controlled Photography:

The South San Francisco Bay shoreline was photography and controlled by nine, preselected tide stations. With the aid of the Pacific Tide Party, California Boundary Project, all nine stations were manned at the same time. A coordination point was selected in the southeast section of the City of Oakland that was capable of direct F.M. radio communications with all the stations and the photo-mission aircraft.



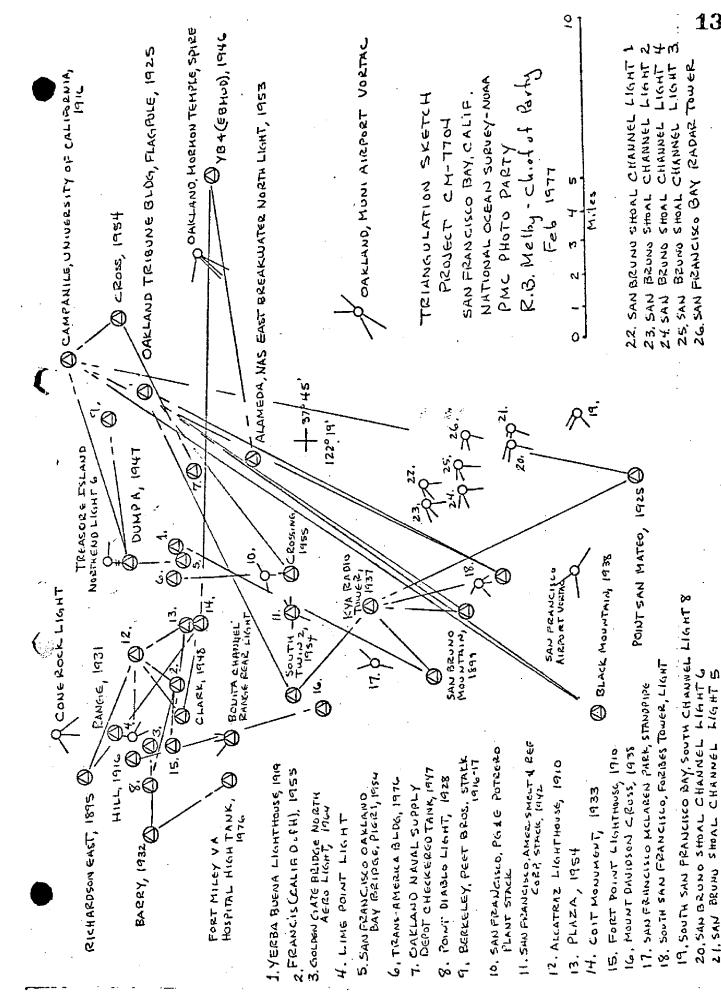


C3415 Coastal Mapping April 4, 1977 Page 2

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-

21. SAN BRUND SHOAL CHANNEL



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

Approved and Forwarded:

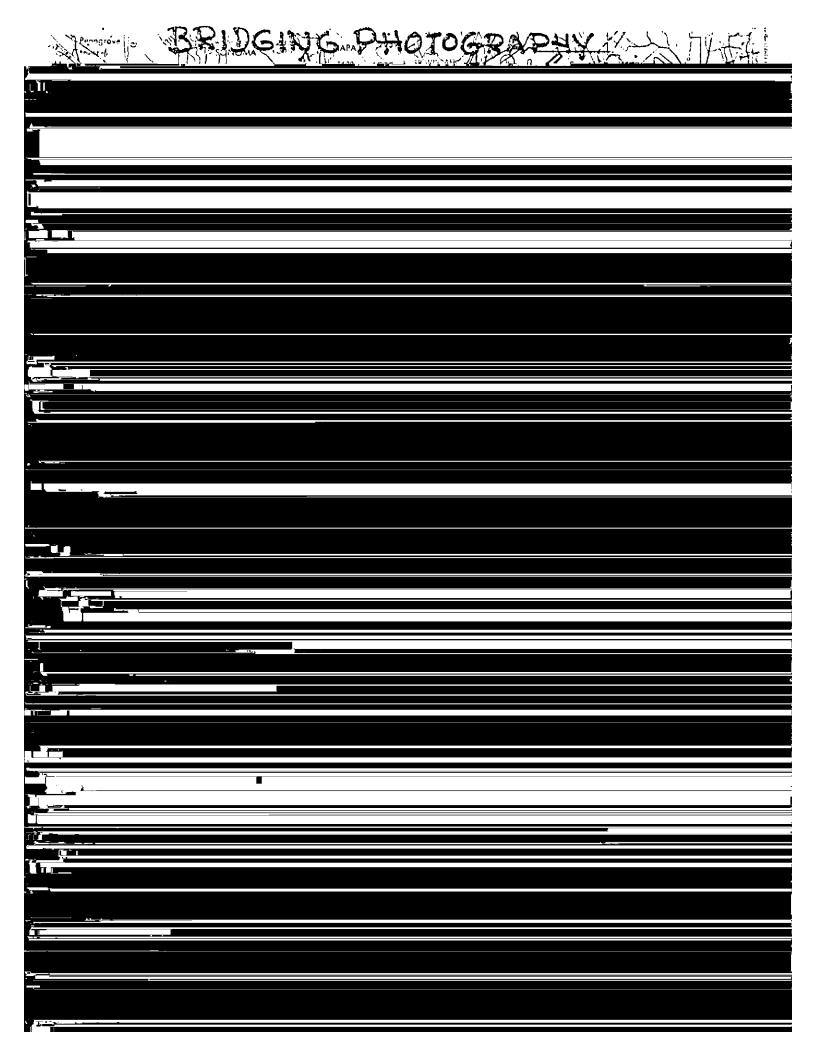
John D. Perrow, Jr

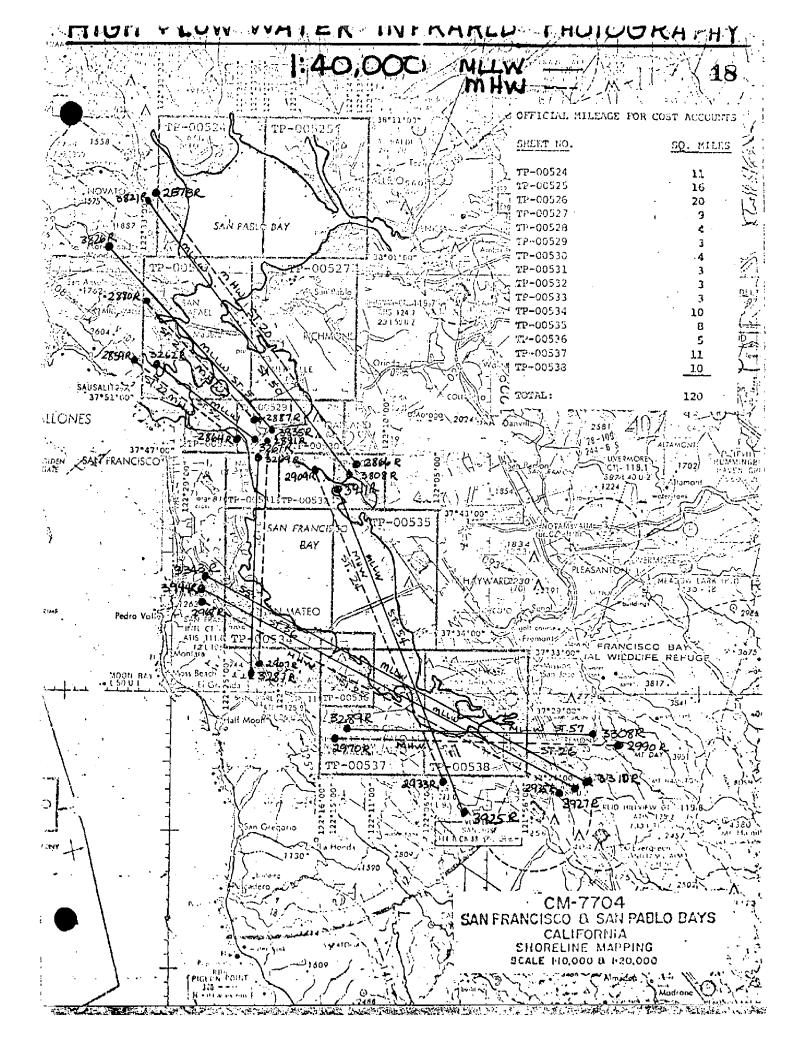
Chief, Aerotriangulation Section

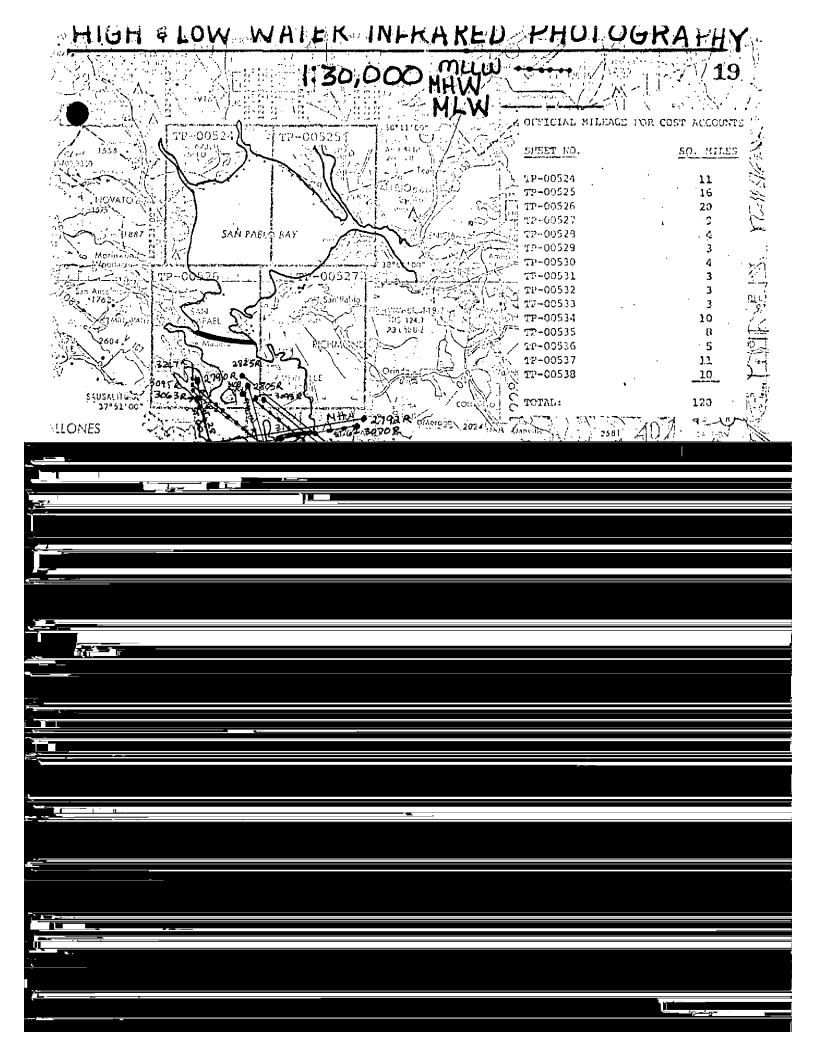
KEY TO NUMBERED CONTROL STATIONS USED IN ADJUSTMENT AND CLOSURES

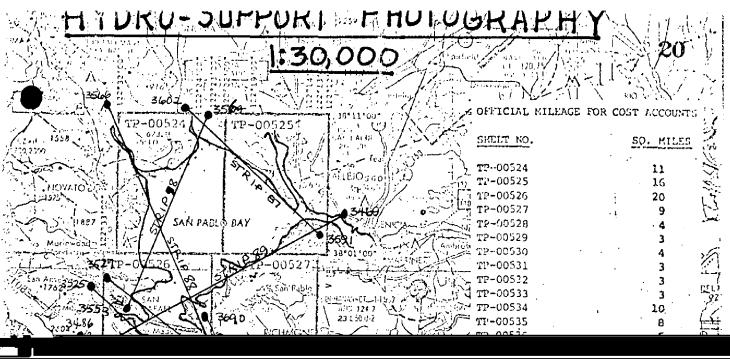
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1 LAKEVILLE, SQUARE TANK ON HILL, 1951 TANK( 1.04,-3.77)
                           PANEL( -.25, .23)
 2 BUG (SLC), 1951 COULD NOT SEE
 3 SLAUGHTERHOUSE PT. 3, 1921
                                                      -2.22, .52)
 4 MARE ISLAND SOUTHEAST= ,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)
                                                        -.65,
 9 GROVE POINT 2, 1887
10 PETALUMA CREEK, 1851
                                                        1.70, - .24
                                                        -2.08,
11 RICHARD, 1932
                                                                .91)
                                                          .00,
12 ALAMRDA N.A.S. E. BREAKWATER N. LT. 1953
                                                                .00
13 CROSSING, 1955 (SP. 1)
                                                         <del>-.0</del>9,-
                                                                .42
14 T I C9, 1947
                                                         .00,
                                                                .00
15 CLARK, 1948
                                                         .45,
                                                                .74)
16 BARRY, 1932
                                                        -3.36, -, 98)
17 SAN BRUNO MTN. (RADIO STA. KNBC MAST), 1899
                                                         .03,
                                                               .491
                                                          .04, - .19)
18 POINT SAN BRUNO, 1925
19 GUANO ISLAND, 1851
                                                       3.33 ,-1.50)
20 DUM, 1930
                                                       -1.31, 1.01)
21 RED HILL, 1851
                                                        - .05, .01)
22 SAN, 1947
                                                          .27,
                                                                .20)
23 BENCH MARK H 111, 1932 DID NOT FIT ADJUSTMENT
24 COFFIN 2, 1974
                                                          .07, - .02
25 BALDDPRAK (EBMUD),1946
                                                         .15, .02)
                                                        -1.04.- .52)
26 BUCK, 1949
27 MANZANITA (CADH), 1972
                                                        -1.01.-1.09
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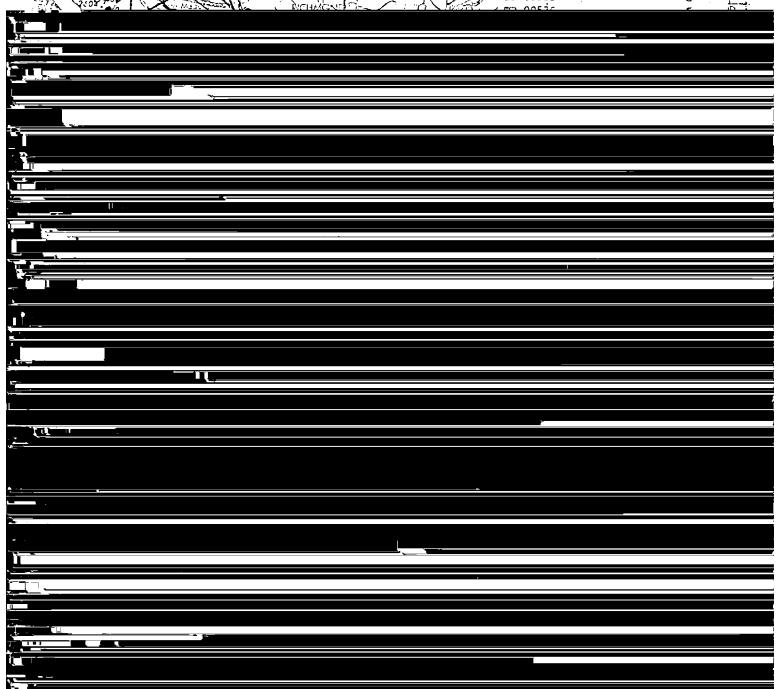
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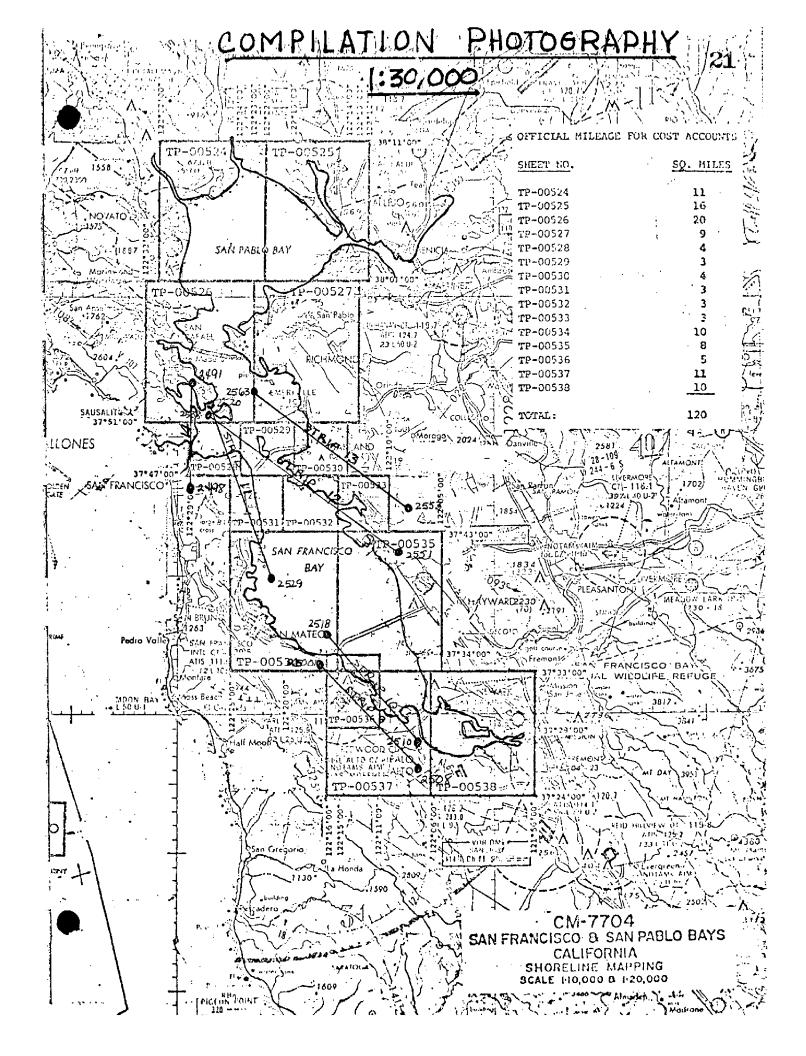


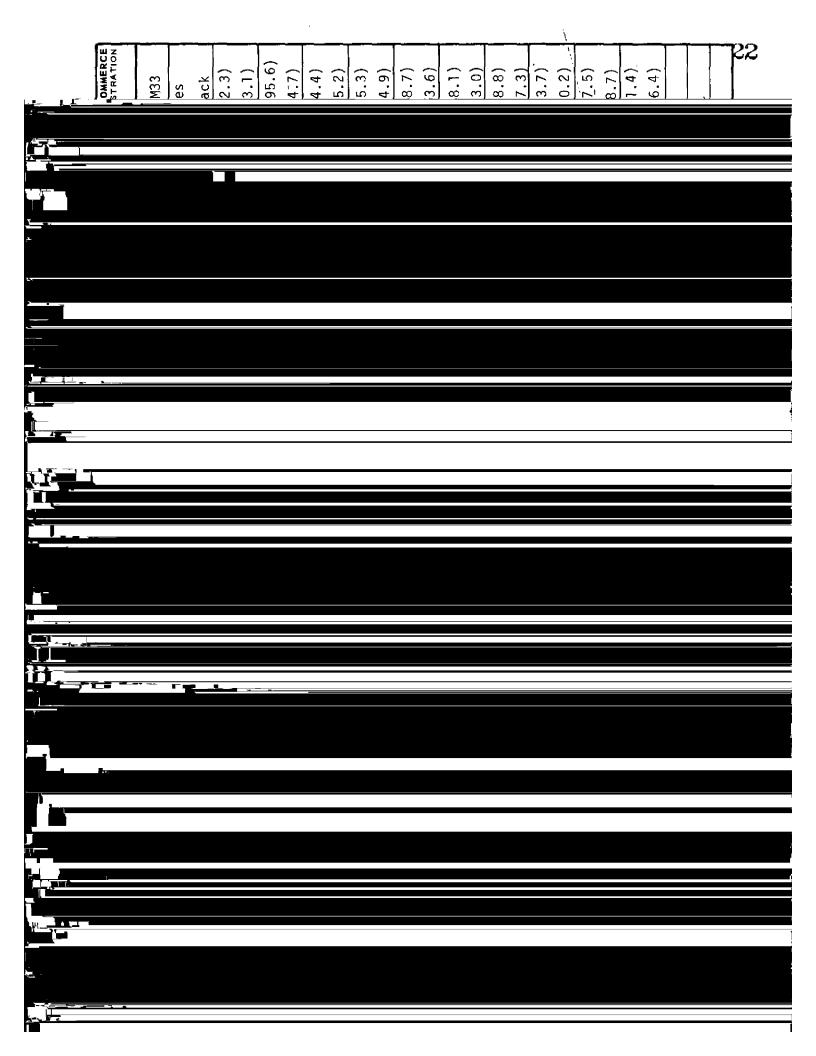












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NOAA FORM 76-41 (6-75)					U.S. DEPARTMENT OF COMMERCE NATIONAL OCEANIC AND ATMOSPHERIC ADMINISTRATION	DEPARTMENT Mospheric at	OF COMMERCE
		DESCRIPTIV	DESCRIPTIVE REPORT CONTROL RECORD				
MAP NO.	JOB NO.		GEODETIC DATUM	0	ORIGINATING ACTIVITY	ŢŶ	
TP-00534	CM-7704	704	N.A. 1927		PMC Photogrammetric	metric Br.	. CPM33
STATION NAME	SOURCE OF	AEROTRI- ANGULATION	coordinates in Feet state California	GEOGRAPHIC PC	: POSITION LATITUDE	Departures REMARKS	Ires
	(Index)	NUMBER	zone 3		LONGITUDE	Front -	Back
			x = 1,489,453.77	\$\phi\$34/22.546	546	695.1	(1154.7)
GUANO ISLAND, 1851	371221	673100	y= 395,459.75	λ122/15/42.240	240	1,036.5	(435.8)
GUANO ISLAND			x=1,489,537.69	\$ 37/34/21.	787~	671.7	(1178.1)
SUB PT	COMP	673101	y= 395,381.41	λ122/15/41.180	180	1010.5	(461.8
			x = 1,452,356.30	\$4/39.036	036~	1203.5	(646.3)
HILLSIDE, (T), 1938	371221	289	y≈ 397,851.71	λ122/23/23.	561 ~	578.1	(894.1)
			x= 1,452,192.39	\$4 37/42/58.177	177	1793.6	(56.2)
KYA-RADIO TOWER, 1937	371221	.	y≈ 448,348.72	λ122/23/38.	291~	937.8	(531.7)
			x=1,454,662.21	\$4 37/39/12.095	095	372.9	(1476.9)
POINT SAN BRUNO, 1925	371221	288	y= 425,428.03	λ122/23/01.817	817	44.5	(1426.2)
POINT SAN BRUNO			x=1,453,536.91	φ 37/38/19.	149 -	590.4	(1259.4)
SUB PT.	COMP	676101	y = 420,094.65	λ122/23/14.470	470	354.8	(1116.3)
		•	x = 1,473,182.17	\$\phi\$ 37/35/28.848	848	889.4	(960.4)
POINT SAN MATEO, 1925	371221	288	y = 402,478.01	λ 122/19/06.017		147.6	(1324.4)
EAST			x=1,448,251.08	\$ 37/40/30.	590 ~	943.1	(206.7)
TRANSMISSION TOWER, 1932	371221		y= 433,498.55	λ122/24/23.568	568	577.6	(892.8)
SAN BRUNO MOUNTAIN MIDDLE	1	į	x= 1,448,176.41	<pre>\$ 37/40/30.508</pre>	508	940.6	(909.2)
TRANSMISSION TOWER, 1932	371221	279	y= 433,491.78	λ122/24/24.495	495	600.3	(870.1)
SAN BRUND MOUNTAIN WEST			x = 1,448,119.94	φ 37/40/30.451	451	938.8	(911.0)
TRANSMISSION TOWER, 1932	371221		y= 433,487.16	λ122/24/25.196	.196	617.5	(852.9)
COMPUTED BY G. A. Morris		PA25/20/81	COMPUTATION CHECKED BY			DATE	
LISTED BY G. A. Morris		DA75/20/81	LISTING CHECKED BY G. HTANCA	Lat		DATE Anl	2861
HAND PLOTTING BY G. Morris		2/20/81	HAND PLOTTING CHECKED BY			DATE	
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(6-75)		DESCRIPTIV	CRIPTIVE REPORT CONTROL RECORD		NATIONAL OCEANIC AND ATMOSPHERIC ADMINISTRATION	MOSPHERIC AD	MINISTRATION
MAP NO.	1 JOB NO.		GEODETIC DATUM		ORIGINATING ACTIVITY	<u>}</u>	
TP-00534	CM-7704	,04	N.A. 1927		PMC Photogrammetric	netric Br.	CPM33
STATION NAME	SOURCE OF	AEROTRI-	COORDINATES IN FEET STATE CALIFORNIA	GEOGRAPHIC POSITION	POSITION LATITUDE	Departures REMARKS	ures
	(Yepul)	NOMBER	ZONE 3		LONGITUDE	Front	Back
SAN BRUNO SHOAL CHANNEL			x= 1,467,446.31	\$ 37/41/42.024	.024 ~	1295.6	(554.2)
LIGHT 2, 1977	371221	613	y = 440,340.51	λ122/20/26.522	.522	649.8	(820/2)
SAN BRUNO SHOAL CHANNEL			x=1,471,770.31	\$40/10.840	.840	334.2	(1515.6)
LIGHT 3, 1977	371221	614	y = 431,031.61	λ122/19/30.474	.474	746.8	(723.6)
SAN BRUND SHOAL CHANNEL			x=1,471,067.99	φ 37/40/08.334 ⁷	.334	256.9	(1592.9)
LIGHT 4, 1977.	371221	615	y≈ 430,791,80	λ122/19/39.150	.150	959.5	(511,0)
SAN BRIINO SHOAL CHANNE!	7		x=1,474,666.22	φ 37/38/35	.290	1088.0	(8.197)
LIGHT 6, 1977	3/1221	617	y=421,309.51	λ122/18/52.118	.118	7.277.7	(193.2)
SAN BRUNO SHOAL NORTH			x=1,475,452.	φ 37/41/11.47	.47	353.6	(1496.2)
DOLPHIN (DOL), 1955	371221	281	y= 437,093	λ122/18/46.	.15~	1130.8	(339.4)
SAN BRIIND SHOA! SOUTH			x= 1,480,704	φ 37/38/43.55	.55	1,342.6	(507.2)
DOLPHIN(PIL), 1955	371221	283	y= 422,029	λ122/17/37.23	.23	912.7	(558.2)
SAN FRANCISCO AIRPORT			x= 1,459,654	\$ 37/37/39.04	.04	1203367	(646.2)
SIGNAL(SIG), 1955	371221	586	y≈ 415,915	7122/21/57	.40	1407.5	(83.8)
SAN FRANCISCO BAY RADAR	1		x=1,478,466.45	\$ 37/39/46.614	.614	1437.1	(412.7)
TOWER, 1977	371221		y= 428,451.16	λ122/18/06.586	. 586	161.4	(1309.2)
SAN FRANCISCO BAY SOUTH			χ =	\$ 37/35/19.971~	-176.	615.7	(1234.1)
tion			y=	1122/16/07.022	.022	172.3	(1299.8)
	,	,	x= 1,481,711.88	\$ 37/36/17.794	.794	548.6	(1301.2)
CHANNEL LIGHI 8, 19//	371221	611	y = 407,264.91	122/17/21 κ	1.194	519.9	(621.9)
COMPUTED BY G. A. Morris		PAZ/520/81	COMPUTATION CHECKED BY	;		DATE	İ
LISTED BY G. A. Morris		P42/520/81	LISTING CHECKED BY O H	inch		DATE APP.	286/
HAND PLOTTING BY A. Morris		DATE 2/20/81	DATE HAND PLOTTING CHECKED BY THE 2/20/81			DATE	
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OF COMIN	-	CPM33	tures ARKs	- Back	(113.6)	(1425.6)	(572.8)	(1024.5)	(954.1)	(691.5)	(1282.6)	(402.6)	(1000.7)	(1400.3)	(1407.7)	(281.3)	(1203.9)	(246.5)	(1189.9)	(282.0)	(1042.2)	(280.3)	(1345.6)		1981	
U.S. DEPARTMENT OF COMMERCE		letric Br.	Departures REMARKS	Front -	1736.2	46.6	1276.9	447.7	895.7	780.9	567.2	1069.8	849.1	449.5	63.0	1568.5	566.6	1603.3	280.7	1567.8	428.3	1569.5	124.9	DATE	DATE April	DATE /
U.S. I	INATING ACTIVITY	Photogrammetric	- (n)	35		\			\		\			,		١	\	\	,	\		,	\			
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(6-75)		DESCRIPTIV	DESCRIPTIVE REPORT CONTROL RECORD		U.S. DETAKIMENT OF COMMERCE NATIONAL OCEANIC AND ATMOSPHERIC ADMINISTRATION
MAP NO.	JOB NO.		GEODETIC DATUM	ORIGINATING ACTIVITY	\L.
TP-00534	CM-7704	04	N.A. 1927	PMC Photogrammetric	mmetric Br. CPM33
NOTATION NAME	SOURCE OF	AEROTRI- ANGULATION	coordinates in Feet started California	GEOGRAPHIC POSITION	Departures
		POINT	zone 3		Front - Back
SOUTH SAN FRANCISCO YACHT			*X	\$ 37/39/53.631~	1653.4 (196.4)
HAKBUK LIGH A, 1980 (Unadi. Field Position)			y=	1122/22/24.070	(9.088) (880.6)
SOUTH SAN FRANCISCO YACHT			χε	\$ 37/39/52.110~	1606.5 (243.2)
HAKBUK LIGH 2, 1979 (Unadi, Field Position)			<i>y</i> =	λ122/22/05.186~	127.1 (1343.5)
SOUTH SAN FRANCISCO YACHT			χ=	\$4 37/39/52.355	1614.1 (235.7)
/ HARBOR LIGHT 2A, 1980 (Unadi. Field Position)			<i>ή=</i>	λ122/22/24,064~	589.8 (880.8)
SOUTH SAN FRANCISCO YACHT			-χ	ø 37/39/51.846~	4 (
HAKBUR Ligh 8, 1980 (Unadj. Field Position)			j=	1122/22/20.173	494.4 (976.1)
SOUTH SAN FRANCISCO YACHT			ኢ=	φ 37/39/51.879 [~]	1599.4 (250.4)
HARBOR LIGHT 9, 1980 (Unadi. Field Position)			y=	١٤2/22/22.858	560,2 (910.3)
			-χ	Ф.	
			=ĥ	γ	
			=χ	Φ	
			=ħ	γ	
			χ <i>=</i>	Ф	1
			η̂ε.	γ	
			χ=	Φ	
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			- <i>h</i>	ν.	,
COMPUTED BY G. A. Morris		2/20/81	COMPUTATION CHECKED BY		DATE
LISTED BY G. A. Morris		2/50/81		reser	DATE April 1982
HAND PLOTTING BY G. A. Morris		^{DATE} 2/20/81	HAND PLOTTING CHECKED BY		DATE/
		SUPERSEDES N	ERSEDES NOAA FORM 76-41, 2-71 EDITION WHICH IS OBSOLETE.	CH IS OBSOLETE.	26 5 of 5 g

7.

COMPILATION REPORT

TP-00534

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

34. CONTOURS AND DRAINAGE

Contours are not applicable to the project. Drainage was delinated 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 interpretation of the photographs.

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

36. OFFSHORE DETAILS

No unusual problems.

37. LANDMARKS AND AIDS

Preliminary 76-40 forms consisting of 3 pages of Navigational Aids and 1 page of Landmarks for charts were prepared for field edit.

38. CONTROL FOR FUTURE SURVEYS

None

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.

San Francisco South, Calif.; 1956, photorevised 1968 and 1973 San Mateo, Calif.; 1956, 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 charts: No. 18652; scale 1:80,000; 16th ed., March 26, 1977
No. 18651; scale 1:40,000; 27th ed., July 3, 1976.

ITEMS TO BE APPLIED TO NAUTICAL CHARTS IMMEDIATELY

None

ITEMS TO BE CARRIED FORWARD

None

Submitted by:

Joanne Roderick Cartographer

Date: November 9, 1978

ADDENDUM TO THE COMPILATION REPORT-FIELD EDIT

TP-00534

Field edit was performed by the Pacific Hydrographic Party in October 1980. This data was applied to the manuscript by the Photogrammetric Branch at the Pacific Marine Center in March 1981. However, a few minor discrepancies became apparent during the application of field edit and additional field data was requested. This delayed the progress for this map and its classification remained Class III. In preparation for registration of the project, this map was forwarded as a Class III map to final review at AMC.

During final review the additional field data became available and was evaluated along with the original field edit information. As a result, the original field edit data was reapplied in accordance with the additional descriptive data submitted. Since very little of the additional edit data was beneficial to this photogrammetric shoreline map, this product will reflect the 1980 original field edit date.

Several nonfloating navigational aids were located and submitted as part of the contemporary hydrographic survey. Positions on the 76-40 forms were not evaluated other than comparing them with the hydrographic horizontal control readouts.

For additional remarks concerning the field edit operations and application of field data see the Review Report, Item #61 and the Summary bound with this Descriptive Report.

Jerry L. Hancock Final Review April 1982

ADDITIONAL INFORMATION SUBMITTED AS PART OF FIELD EDIT FOR ADJOINING MAP TP-00535

The submerged pipeline delineated in the northeast portion of this map was added during the reapplication of field edit by final review. This information was submitted as part of the field edit package for adjoining map TP-00535. According to the July 1981 field edit report, construction for the new sewage outfall pipeline, known as the ORO LOMA Sanitation Project, has been completed. Graphic portrayal of this feature is based on the blueprint copy of the construction plans, "East Bay Discharge Authority" dated August 8, 1977, and conformation by the TP-00535 field edit report.

Jerry L. Hancock

ck MH

PHOTOGRAMMETRIC OFFICE PRE-HYDRO AND FIELD EDIT REVIEW

TP- 00534

PROJECTION AND GRIDS	TITLE	HORIZONTAL CONTROL	PHOTOGRAMMETRIC PLOT REPORT.
FM	FM	FM	FM
DETAIL POINTS AND PASS POINTS	PROCESSED RATIOS	AIDS TO NAVIGATION	LANDMARKS
FM	FM .	FM	FM
MEAN HIGH WATER LINE	LOW-WATER LINE	ROCKS, SHOALS, ETC.	ALONG SHORE AND OTHER
FM	FM	FM	PHYSICAL FEATURES FM
WATER FEATURES	ALONG SHORE AND OTHER CULTURAL FEATURES	BRIDGES	ROADS
FM	FM	FM	FM
BUILDINGS	RAILROADS	CONTOURS AND SPOT ELEVATIONS	GEOGRAPHIC NAMES
FM .	FM	NA	FM '
JUNCTIONS	LEGIBILITY OF THE MANUSCRIPT	COMPILATION REPORT	FIELD EDIT OZALID
FM	FM	FM	FM
COMPARISON WITH NAUTICAL CHARTS	COMPARISON WITH PRIOR SURVEYS	COMPARISON WITH EXISTING MAPS	FIELD PRINTS
. FM	FM	FM	AND OTHER COPIES FM
REVIEWER	DATE	SUPERVISOR	DATE
Frank Margiott	a December 1978	Albert Rauck	December 1978

REMARKS

PHOTOGRAMMETRIC OFFICE POST-HYDRO AND FIELD EDIT REVIEW

	Technical Arion in	T	Lucara va contro
MANUSCRIPT NUMBERS	FORMAT STICK-UP	MANUSCRIPT SIZE	HORIZONTAL CONTROL
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PHOTO HYDRO STATIONS	PLOTTING OF SEXTANT FIXES	AIDS TO NAVIGATION	LANDMARKS
Лŧ	JH	JH	JH
MEAN HIGH WATER LINE	LOW-WATER LINE	ROCKS, SHOALS, ETC.	ALONG SHORE AND OTHER
JH	JH	JН	PHYSICAL FEATURES JH
WATER FEATURES	ALONG SHORE AND OTHER	PIPELINES, CABLES, ETC.	BRIDGES
JH	JH	JH	JH
ROADS	BUILDINGS	RAILROADS	CONTOURS AND SPOT ELEVATIONS
JΉ	JH	JH	NA
GEOGRAPHIC NAMES	JUNCTIONS	FIELD EDIT PHOTOGRAPHS	FIELD EDIT OZALID
JH	JН	JH	JH
GEOGRAPHIC FIX POSITIONS	FIELD FORMS	FIELD EDIT REPORT	APPROVED TIDES
JH	JH	JH	JH.
CHART MAINTENANCE PRINT . AND OTHER COPIES	PREPARATION FOR FINAL REVIEW	COMPILER	DATE
JH (April 198	2) JH	George Morris (PM	C) February 1981
REVIEWER	DATE	SUPERVISOR Bell H. Bar	DATE
Jerry Hancock (AMC) April 1982		Billy Barnes (AMC) April 1982	

REMARKS

The initial application of field edit was accomplished at the Pacific Marine Center but was not reviewed due to discrepancies associated with the field edit data. During the final review "operation," all application of field data and a complete office review for this map was accomplished.

Jerry L. Hancock

Final Review, April 1982

FIELD EDIT REPORT

TP-00534

I. METHODS

Field edit for TP-00534 was conducted in accordance with Chapter 11 of the "Manual of Coastal Mapping Procedures" by personnel of the Pacific Hydrographic Party. Shoreline inspection was accomplished by walking (marsh areas north of San Francisco Airport), by truck in areas accessible by road, and a 17-foot Boston Whaler (NOAA 594), at tides that allowed close visual inspection of the areas of extensive mud flats and shoals.

Compilation of the sheet was verified by direct inspection of the photos during field edit. Features which were not visible on the photography or had changed since the time of photography were located by ground survey methods or depicted on engineering drawings accompanying this report. The area covered by drawings was verified as accurate by the field editor.

Positions on uncompiled features were obtained either by three-point sextant fixes with check angles or by three-point intersection methods utilizing a Wild T-2 theodolite, serial number 68721. Positions obtained by the intersection method have been compiled on a set of forms identifying the various stations occupied, the initial objects and their respective azimuths.

Changes, additions, and deletions were noted on the field edit sheet and chronopaque photographs NOS 18 Mar 3749, 3750, 3751, 3759, 3760, 3761, 3762, 3763, and 3764 all of which are 1:20,000 scale ratio prints. Fixed aids to navigation leading into South San Francisco Yacht Harbor and Coyote Point Yacht Harbor were located to third-order class I specifications by intersection.

Landmarks were inspected from seaward and verified or revised as necessary on Form 76-40. All elevations were recorded in feet at Greenwich Mean Time.

Copies of horizontal control station recovery notes and new station descriptions for the area covered by this survey are included with the data package.

II. ADEQUACY AND COMPLETENESS OF COMPILATION

Generally, the shoreline compilation of this manuscript was complete and adequate. Most changes to compilation made during field edit were due to changes in features (i.e., construction, natural erosion, etc.) since the 1977 photography.

Most of the shoreline detail is composed of filled or built up areas (Candlestick Point, James Lick Freeway north of Sierra Point, Sierra Point, Oyster Point, Oyster Point Marina (also named South San Francisco Yacht Harbor), San Francisco International Airport, Coyote Point Yacht Harbor), piers and bulkheads. The remaining shoreline is either riprap, dirt banks, or marsh with extensive mud flats in the foreshore areas.

Most changes to compilation made during field edit are self explanatory as recorded on the manuscript. The following items require further clarification:

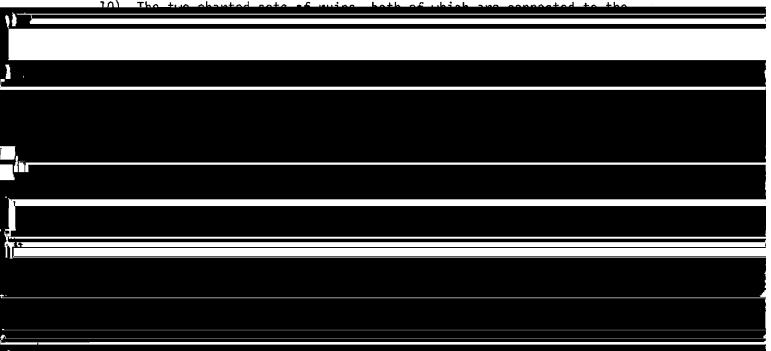
1) South San Francisco Yacht Harbor or Oyster Point Marina, as it is now called, has undergone extensive changes. Additional fill and new breakwaters have been added to the site. Berthing facilities were under construction at the time of field edit.

Refer to the final approved plans of the engineering drawings titled, "Oyster Point Marine/Park," sheets 2 thru 5 (by the architectural firm of Daniel, Mann, Johnson, & Mendenhall), accompanying this report for delineation of construction. (Note: This construction already appears on the latest edition of Charts 18651 and 18652, presumably from U.S. Army Corps of Engineers' sources).

The non-floating aids to navigation leading into South San Francisco Yacht Harbor were located by ground survey methods. These include the following items from Volume III, U.S. Coast Guard Light List: Nos. 669, 670, 670.10, 670.15, 670.20, 670.30. In addition, the daymarkers were located. These items have been added to NOAA Form 76-40 and corrected or newly computed field positions listed. (Note: Daymarker No. 6 at South San Francisco Yacht Harbor was destroyed just prior to the last set of observations from Sierra Point on October 15, 1980. Consequently, this daymarker was left out of final computations).

- 2) Coyote Point Yacht Harbor's non-floating aids to navigation were also located by ground survey methods. These include the following items from Volume III, U.S. Coast Guard Light List, 1980: Nos. 675, 676. The daymarkers were also located. See NOAA Form 76-40.
- 3) The following items shown on Chart 18651 are not present and should be deleted.
- a) Pole at Latitude 37°38'50"N, Longitude 122°23'05"W. (Area bares at low water).
- b) Pile at Latitude 37°38'40"N, Longitude 122°27'56"W. (Area bares at low water).
- c) Pole at Latitude 37°38'28"N, Longitude 122°27'56"W. (Area bares at low water).
- 4) Two piers are depicted on the manuscript, one about 530 meters southwest of San Francisco Airport Channel Light 1, and the second 460 meters southsouthwest of the same light. Visual inspection at low tide (1604Z, 6/15/80, J.D. 167) revealed no signs of even ruins of these piers at Latitude 37°37' 50.24"N, Longitude 122°21'50.00"W. The presence or absence of submerged ruins where the piers were located will be determined during hydrographic operations.
- 5) A stake shown at Latitude 37°37'15"N, Longitude 122°21'20"W was not visible at 1550Z on day 167, 1980. Further investigation will be conducted during hydrography.

- 6) A stake shown at Latitude 37°35'54"N, Longitude 122°20'45"W was not visible at 1624Z on day 225, 1980. Further investigations will be conducted during hydrography.
- 7) Sam Bruno Shoal Channel Light 1 (No. 663 in Light List) has been destroyed and replaced by a temporary lighted buoy (LNM #34, 1980).
- 8) San Bruno Shoal Channel Light 5 (No. 667 in Light List) has been destroyed and replaced by a temporary lighted buoy (LNM #01, 1980).
- 9) A charted duck blind at Latitude 37°35.8'N, Longitude 122°20.6'W was not visible between 1540Z and 1850Z on day 170, 1980. Considering that five other previously charted duck blinds in this area are now in ruins, it is recommended that this feature also be considered in ruins (submerged) until hydrographic operations can absolutely resolve the question.



northern of two San Francisco Airport approach light system piers, were not visible at 1600Z on day 167, 1980. The first set is at Latitude 37°36.7'N, Longitude 122°21.1'W. The second is about 190 meters to the northwest.

11) Two outfalls were located southwest of San Francisco Airport Channel Light 1. Ruins extend 20 meters offshore of the outfall identified on photograph 3760. See photograph 3761.

I. GEOGRAPHIC NAMES

The geographic names on the manuscript are adequate and accurate except for the following.

- 1). South San Francisco Yacht Harbor is now called Oyster Point Marina.
- 2) The "NW Gable" charted at the west end of the San Mateo Bridge at Latitude 37°34'22"N, Longitude 122°15'43"W is no longer present and should be deleted.

IV. MANUSCRIPT ACCURACY

South of Bayview Park is an area of piles in ruins (photo 3764). Near the midpoint of the stretch of shoreline paralleling the James Lick Freeway is a foul area shown on photo 3763. Further south is the shore end of a petroleum pipeline, fix #1003.

Photo 3762 is the source of numerous piles, dolphins, and wrecks in the inlet waterway west of Oyster Point.

Chart 18651 shows a sewer line at Latitude 37°39'24"N. Longitude 122°22' 30"W. Fix #1008 establishes the shore end of a set of ruins extending approximately 25 meters offshore and in the general direction of the charted sewer line. However, no visual sighting was actually made of the pipeline even at the onshore end.

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Submitted by:

Felipe L. Rosario

Pacific Hydrographic Party

Felipe L. Rosario

Approved and forwarded by:

Dirk R. Taylor

Dirk R. Taylor Dirk R. Taylor LCDR, NOAA

Chief, Pacific Hydrographic Party

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REVIEW REPORT TP-00534

SHORELINE

61. GENERAL STATEMENT:

Final review was performed at the Atlantic Marine Center in April 1982. For a schedule of the office and field operations, refer to the Summary contained in this Descriptive Report.

62. COMPARISON WITH REGISTERED TOPOGRAPHIC SURVEYS:

Not applicable.

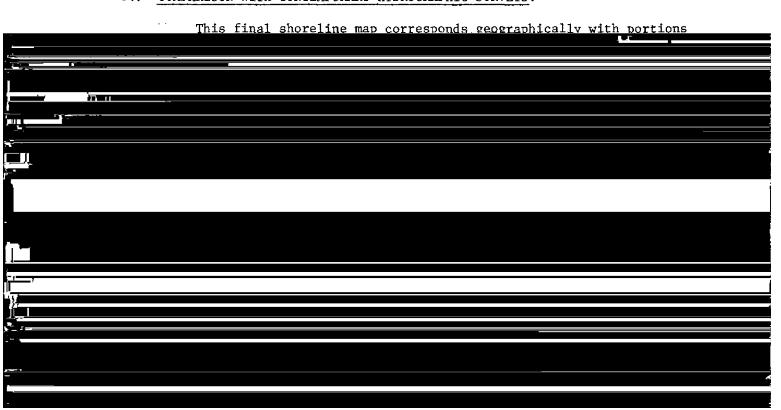
63. COMPARISON WITH MAPS OF OTHER AGENCIES:

A comparison was made with the following 1:24,000 scale U.S.G.S. quadrangles:

Hunters Point, Calif., 1956, photorevised 1968 San Francisco South, Calif., photorevised 1968 and 1973 San Mateo, Calif., 1956, photorevised 1968 and 1973

A significant discrepancy was noted on the San Francisco South, Calif. quadrangle. Two islets, the most easterly being very prominent, located just north of Oyster Point Marina entrance domnot exist. The pattern of breakwaters and ruins protecting the marina as indicated on this final map are the only features apparent in this area.

64. COMPARISON WITH CONTEMPORARY HYDROGRAPHIC SURVEYS:



65. COMPARISON WITH NAUTICAL CHARTS:

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

No. 18651, 32nd edition, 1:40,000 scale, dated August 1, 1981 No. 18652, 20th edition, 1:80,000 (1:20,000) scales, dated May 16, 1981.

The majority of nonfloating aids to navigation delineated on this final shoreline map were field determined by ground survey methods during the hydrographic survey operation. All field records for the preliminary positions listed on the attached 76-40 forms were submitted with hydrographic survey H-9819. No evaluation was performed for these aids during final review.

There are several important field remarks and recommendations addressed to the Marine Charts Division concerning various chartable features corresponding to this map. These remarks are located in the field edit report contained in this Descriptive Report.

Affinal Chart Maintenance Print for this map was prepared during final review and forwarded to Marine Charts. This information will supersede the previous Class III maintenance print submitted in February 1979 from the original compilation office at A.M.C. Remarks on the final Chart Maintenance Print will indicate discrepancies associated with the above listed charts.

66. ADEQUACY OF RESULTS AND FUTURE SURVEYS:

This final map and accompanying descriptive report represents 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: Jings. Hancock Jerry L. Hancock Final reviewer

Approved for forwarding:

Billy H. Barnes
Billy H. Barnes

Approve

Chief, Photogrammetric Branch, AMC

Chief, Photogrammetric Branch, Rockville

Chief, Photogrammetry Division

GEOGRAPHIC NAMES FINAL NAME SHEET

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

TP-00534

Bayshore
Brewer Island
Brisbane
Burlingame
Candlestick Point
Coyote Point
Coyote Point Yacht Harbor
Little Coyote Point
Milibrae
Mills Creek
Oyster Point
Point San Bruno

San Bruno
San Francisco Bay
San Francisco International Airport
San Mateo
San Mateo Creek
Seal Slough
Seaplane Harbor
Sierra Point
Southern Pacific (RR)
South San Francisco
Visitacion Point

Approved by:

- CharlesaE. Harringtona -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 /6-40 (8-74)	-40			FAN	TONAL OCE	U.S ANIC AND A	S. DEPARTM	U.S. DEPARTMENT OF COMMERCE NATIONAL OCEANIC AND ATMOSPHERIC ADMINISTRATION	ORIGINATING ACTIVITY	CTIVITY
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										1414
									Dage 1 of	7 7

Page, 1 of 7

	RESPONSIBLE PERSONNEL	PERSONNEL	
TYPE OF ACTION	NAME		ORIGINATOR
			THOTO FIELD PARTY
OBJECTS INSPECTED FROM SEAWARD			GEODETIC PARTY
	D. R. Taylor		OTHER (Specity)
7	D. R. Taylor		FIELD ACTIVITY REPRESENTATIVE
	G. A. Morris		OFFICE ACTIVITY REPRESENTATIVE
FORMS ORIGINATED BY QUALITY CONTROL	-		X REVIEWER
AND REVIEW GROUP AND FINAL REVIEW			QUALITY CONTROL AND REVIEW GROUP
ACTIVITIES	J. Hancock, Final Review	3/11/82	REPRESENTATIVE
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tion 7 -	Planetable	III. POSITION VERIFIED VISUALLY ON PHOTOGRAPH	UALLY ON PHOTOGRAPH
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vations based entirely upon ground survey methods.	ground survey methods.	by photogrammetric methods.	

NOAA FORM 75-40 (8-74)

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

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	G. A. Morris		OFFICE ACTIVITY REPRESENTATIVE
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FIELD I. NEW POSITION DETERMINED OR VERIFIED Enter the applicable data by symbols as F - Field P - Photogrammetric	s as follows:	TRIANGULATION STATION RECOVERED When a landmark or aid which is also a angulation station is recovered, enter	TRIANGULATION STATION RECOVERED When a landmark or aid which is also a tri- angulation station is recovered, enter 'Triang.
L - Located Vis		ec.' with date of re	ecovery.

NOAA FORM 78-40 (8-74)

*FIELD POSITIONS are determined by field obser-_vations based entirely upon ground survey methods.

location and date of field work. EXAMPLE: F-2-6-L

8-12-75

**PHOTOGRAMMETRIC FIELD POSITIONS are dependent

entirely, or in part, upon control established by photogrammetric methods.

III. POSITION VERIFIED VISUALLY ON PHOTOGRAPH

EXAMPLE:

Triang. Rec. 8-12-75

Enter 'V+Vis.' and date.

EXAMPLE: V-Vis. 8-12-75

Field positions* require entry of method of

8 - Sextant 7 - Planetable

intersection Traverse Triangulation Verified

5 - Field identified
6 - Theodolite

Resection

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

☆ U.S. GOVERNMENT PRINTING OFFICE: 1974-665-073/1030 Region 6

NOAA FORM 76-40	40					N.S.U	. DEPARTM	U.S. DEPARTMENT OF COMMERCE	ORIGINATING ACTIVITY	CTIVITY
8-74) Replaces C&GS Form 567.	.т. 567.	NONFLOATING AIDS	DS	L V	FOR CHARTS	RTS	TMOSPHER	IC ADMINIST RATION	HYDROGRAPHIC PARTY GEODETIC PARTY	IRTY
X TO BE CHARTED	TED REPORTING UNIT	Officel	STATE		LOCALITY			DATE	SCOMPLATION ACTIVITY	7.Y IVITY
]to BE REVISED]to BE DELETED		metric Br. 	California	œ	San Francisco Pablo Bays	sco	ánd San	2/20/81	OUALITY CONTROL & REVIEW GRP	AREVIEW GRP.
The following objects	ects H		been inspected from seaward to determine their value as landmarks	ward to det	termine their	value as	landmarks.		(See reverse for responsible personnel)	ible personnel)
OPR PROJECT NO.	NO. JOB NUMBER	SURVEY N	UMBER	DATUM	Γ					
123	CM-7704	 TP~00534	534	NA 192	27 POSITION	ž		METHOD AND DATE OF LOCATION (See instructions on reverse side)	TE OF LOCATION on reverse side)	CHARTS
	NO! FRIEDSEO	1		LATITUDE	1 1	LONGITUDE	UDE			AFFECTED
CHARTING NAME	(Record reason for deletion of landmark or aid to navigation. Show triangulation stationnames, where applicable, in parentheses)	ndmark or aid to n , where applicable	avigation. , in parentheses)	, ,	// D.M. Meters	,	// D.P. Meters	OFFICE	FIELD	
LIGHT	(San Bruno Shoal Ch	Channel Light	t 2, 1977)	37-41	42.024	122-20	26.522	77B(P)3764	Triang-Rec	,
		,	- 1		1295.6		649.8	3/18/77	8/6/80	18651
LIGHT	(San Bruno Shoal Ch	Channel Light	t 3, 1977)	37-40	10.840 334.2	122-19	30.474 746.8	77B(I)2899 3/5/77	Triang-Rec- 8/6/80	18651
LIGHT	(San Bruno Shoal Ch	Channel Light	t 4, 1977	37-40	08.334	122-19	39.150 959.5	77B(1)2899 3/5/77	Triang-Rec 8/6/80	18651
LIGHT	(San Bruno Shoal Ch	Channel Light	6, 1977)	37–38′	35.290 1088.0	122-18	52.118 1277.7	Beyond photo Coverage	Triang-Rec 8/6/80	18651
LIGHT	(South San Francisco Yacht Harbor 1, 1979 (Unadj. Field Position))	o Yacht Ha	rbor Light n))	37-39	50.908	122-22	05.098	77B(P)3762 3/18/77	F-3-6-L /	18651
LIGHT	(SOUTH SAN FRANCISCO YACHT HARBOR LIGHT 2, 1979 (Unadj. Field Position)	O YACHT HAI	RBOR LICHT n)	37–39	52.110	122-22	05.186 127.1	77B(P)3762 3/18/77	F-3-6-L 7	18651
LIGHT	(South San Francisco Yacht Harbo 8, 1980 (Unadj. Field Position))	to Yacht Harbon	rbor Light n))	37–39	51.846	122-22	20.173	,	F-3-6-L 10/15/80	18651
LIGHT	(South San Francisco Yacht Harbon 9, 1980 (Unadj. Field Position))	o Yacht Har 1d Position	Harbor Light ton))	37–39	51.879	122-22	22.858 ⁷ 560.2		F-3-6-L 10/15/80	18651
		•				J .				
	5 5 5 5							,		*****

	RESPONSIBLE PERSONNEL	DERSONNEL	
TYPE OF ACTION	NAKE		ORIGINATOR
			PHOTO FIELD PARTY
			XX HYDROGRAPHIC PARTY
OBJECTS INSPECTED FROM SEAWARD			GEODETIC PARTY
	D. R. Taylor		OTHER (Specify)
	D. R. Taylor	•	FIELD ACTIVITY REPRESENTATIVE
POST TONS DE LE RAMINED AND/ON VERMINED	G. A. Morris		OFFICE ACTIVITY REPRESENTATIVE
FORMS ORIGINATED BY QUALITY CONTROL			XX REVIEWER
AND REVIEW GROUP AND FINAL REVIEW			QUALITY CONTROL AND REVIEW GROUP
ACTIVITIES	J. Hancock, Final Review 3/11/82	/11/82	REPRESENTATIVE
	INSTRUCTIONS FOR ENTRIES UNDER METHOD AND DATE-OF	METHOD AND DATE OF LOCATION'	
OFFICE IDENTIFIED AND LOCATED OBJECTS	-	FIELD (Cont'd) B. Photogrammetric fie	Cont'd) Photogrammetric field positions** require
Enter the number and date (including month, day, and year) of the photograph used to	(including month,	entry of method of date of field work	method of location or verification, field work and number of the photo-
identify and locate the EXAMPLE: 75E(C)6042	the \bject.	~ E	to locate or identify the object. 3-8-V 3-12-75 741(C)2982
FIELD	N VERIFIED	II. TRIANGULATION STATION RECOVERED	RECOVERED
pplicable	data by symbols as follows: P - Photogrammetric	When a land angulation	landmark or aid which is also a tri- tion station is recovered, enter 'Triang.
L - Located Vis	- Visually	<pre>Rec. with date of recovery. EXAMPLE: Triang. Rec.</pre>	covery.
l - Triangulation 5 - 2 - Traverse 6 -	Field identified Theodolite	8-12-75	
ion <u>7</u> -	Planetable	III. POSITION VERIFIED VISUALLY ON PHOTOGRAPH	UALLY ON PHOTOGRAPH
4 - Resection 8 -	Sextant	<pre>Enter 'V+Vis.' and date. EXAMPLE: V-Vis.</pre>	re.
requ	re entry of method of	8-12-75	
EXAMPLE: F-2-6-L	3000		
8-12-75		entirely or in part, upon control establishe	in part, upon control established
*FIELD POSITIONS are determined by field obser-	ed by field obser-		ds.
vations based entirely upon ground survey methods.	ground survey methods.		

NOAA FORM 76-40 (8-74)

NOAA FORM 76-40 (8-74)	0		NAT	NATIONAL OCEANIC		. DEPARTM TMOSPHER	U.S. DEPARTMENT OF COMMERCE AND ATMOSPHERIC ADMINISTRATION	ORIGINATING ACTIVITY	CTIVITY
Replaces C&GS Form 567		NONFLOATING AIDS	_	FOR CHARTS				GEODETIC PARTY	
XXTO BE CHARTED	r	STATE		LOCALITY			DATE	COMPILATION ACTIVITY	, , , , , , , , , , , , , , , , , , ,
TO BE REVISED	ED PMC Photogrammetric	ric Br. California		San Francisco Pablo Bays		and San	12/20/81	PINAL REVIEWER QUALITY CONTROL & REVIEW GRP	REVIEW GRP
The following objects	٦٢	been inspec	word to det	ermine their	value as	andmarks.		(See reverse for responsible personnel)	ible personnel)
OPR PROJECT NO.		SURVEY NUMBER	DATUM		<u> </u>				
			NA 1927	7	i		METHOD AND DATE OF LOCATION	E OF LOCATION	
123	CM-7704	TP-00534		POSITION	No		(See instructions on reverse side)	on reverse side)	CHARTS
	DESCRIPTION	× o	LATITUDE		LONGITUDE	UDE			AFFECTED
NAME	(Record reason for deletion of landmark or aid to navigation.) Show triangulation atation names, where applicable, in parentheses	rrk or aid to navigation. se applicable, in parentheses)	`	// D.M. Meters	`	D.P. Meters	OFFICE	FIELD	
LIGHT	(South San Francisco Yacht Harbor Light 1A, 1980 (Unadj. Field Posi	Yacht Harbor . Field Position))	37–39	53.631 1653.4	122-22	24.070 589.9		F-3-6-L 7	18651
LIGHT	(South San Francisco Yacht Light 2A, 1980 (Unadj. Fiel	(acht Harbor Field Position)	37–39	52.355 1614.1	122-22	24.064 589.8		F-3-6-L 10/80	18651
LIGHT /	(San Francisco Bay Sou 8, 1977)	South Channel Light	37-36	17.794 548.6	122-17	$\frac{21.194}{519.9}$	77B(I)2962 [°] 3/5/77	Triang. Rec. 8/6/80	18981
DAYBEACON	San Francisco Airport Daybeacon Light List approx. position is	Daybeacon 1,NOTE:	37-37	50.24	122-21	50:00 1226	77B(P)3761 3/18/77	V-Vis : 6/15/80	18651
DAYBEACON	San Francisco Airport Daybeacon	Daybeacon 3	37-37	56.33 ² 1737	122-22	39.56 970	77B(P)3761 3/18/77	V-Vis 6/15/80	18651
LIGHT	(Coyote Point Yacht Harbor Light 1980 (Unadj. Field Position))	arbor Light 1, sition))	37–35	36.726 1132.2	122-18	41.302	77B(P)3750 ~ 3/18/77	F-3-6-L / 10/80	18651
LIGHT: C	(Coyote Point Yacht Harbor Light 1980 (Unadj. Field Position))	arbor Light 2, sition))	37–35	37.573 1158.4	122–18	43.025	77B(P)3750 / 3/18/77	F-3-6-L / 10/80	18651
DAYBEACON	(San Francisco Bay Sout) Daybeacon 8A, 1980 (Una South Channel Daybeacon	South Channel (Unadj. Field Pos.)) eacon 8A	37–35	19.97i 615.7	122–16	07.022 172.3		F-3-6-L ' 11/80	18651
		-			.				
									Mil

Pg. 4 of 7

I. NEW POSITION DETERMINED OR VERIFIED Enter the applicable data by symbols as follows: F - Field P - Photogrammetric L - Located Vis - Visually V - Verified 1 - Triangulation 5 - Field identified 2 - Traverse 6 - Theodolite 3 - Intersection 7 - Planetable 4 - Resection 8 - Sextant	FFICE IDENTIFIED AND LOCATED OBJECTS nter the number and date (including month, ay, and year) of the photograph used to dentify and locate the bject. XAMPLE: 75E(C)6042 8-12-75	FORMS ORIGINATED BY QUALITY CONTROL AND REVIEW GROUP AND FINAL REVIEW J. Hancock, Final Review, 3/11/82 ACTIVITIES INSTRUCTIONS FOR ENTRIES UNDER 'METHOD AND DATE O (Consult Photogrammetric Instructions No. 64.	f. D. R. Taylor G. A. Morris	OBJECTS INSPECTED FROM SEAWARD D. R. Taylor	TYPE OF ACTION NAME	RESPONSIBLE PERSONNEL
TRIANGULATION STATION RECOVERED When a landmark or aid which is also a triangulation station is recovered, enter 'Triang. Rec.' with date of recovery. EXAMPLE: Triang. Rec. 8-12-75 POSITION VERIFIED VISUALLY ON PHOTOGRAPH Enter 'V-Vis.' and date. EXAMPLE: V-Vis. 8-12-75	FIELD (Cont'd) 8. Photogrammetric field positions** require entry of method of location or verification, date of field work and number of the photograph used to locate or identify the object. EXAMPLE: P-8-V 8-12-75 74L(C)2982	/82 OD AND DATE OF LOCATION' REPRESENTATIVE REPRESENTATIVE	OFFICE ACTIVITY REPRESENTATIVE	☐ PHOTO FIELD PARTY ☐ HYDROGRAPHIC PARTY ☐ GEODETIC PARTY ☐ OTHER (Specify)	DRIGINATOR	ONNE I

NOAA FORM 75-40 (8-74)

SUPERSEDES NOAA FORM 70-40 (2-71) WHICH IS OBSOLETE, AND EXISTING STOCK SHOULD BE DESTROYED UPON RECEIPT OF REVISION.

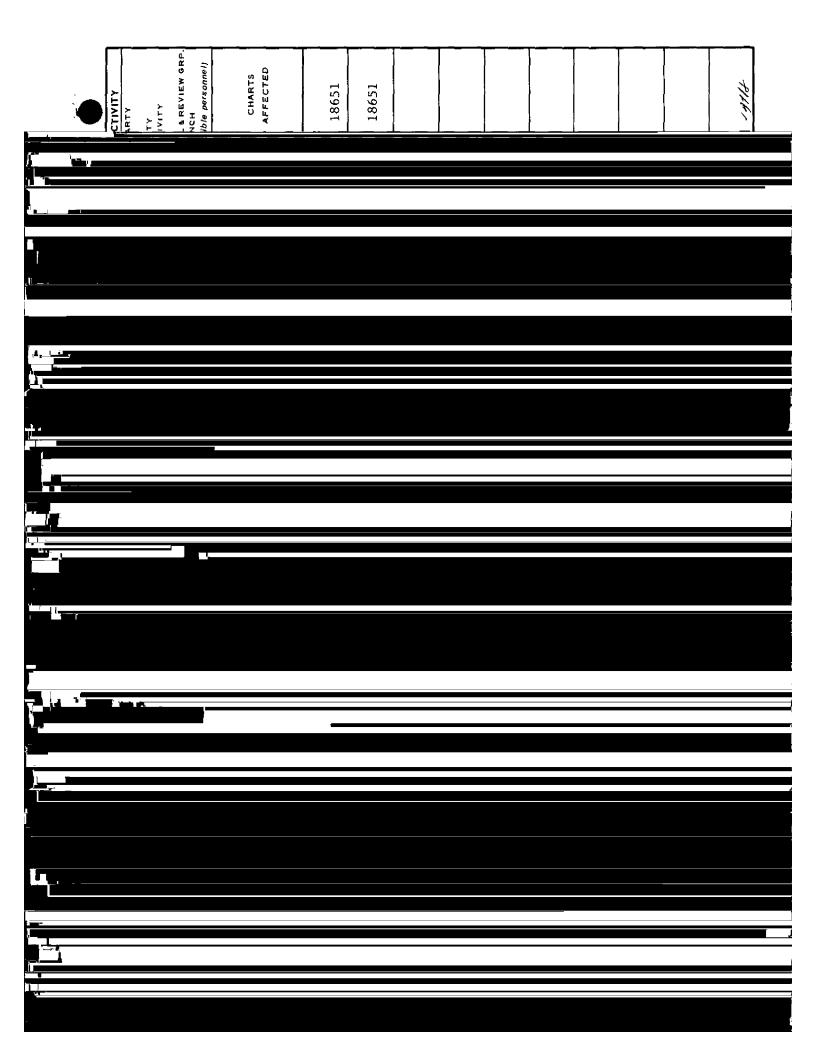
分 U.S.GPO:1975-0-665-080/1155

NOAA FORM 76-40	40		Y	IONAL OCEA	U.S.	DEPAKTME Imospheric	U.S. DEPARTMENT OF COMMERCE NATIONAL OF COMMERCE NATIONAL OCEANIC AND ATMOSPHERIC ADMINISTRATION	ORIGINATING ACTIVITY	CTIVITY
Replaces C&GS Form 567	m 567.	ING AIDS	•	FOR CHARTS	RTS			GEODETIC PARTY PHOTO FIELD PARTY	
X TO BE CHARTED	TED REPORTING UNIT	STATE		LOCALITY			DATE	COMPILATION ACTIVITY	V1TY
TO BE REVISED		Br.		San Fran	sco	and San	0/00/0	QUALITY CONTROL & REVIEW GRP	. & REVIEW GRP.
	Seattle, WA CPM3	Calliornia	1.3	Pablo bays	ave		16/07/51	(See reverse for responsible personne)	ible personnelt
The following objects	LICH NIMBER	Seen inspected from segward to determine their value as landmarks	Ward to de	rermine men	value as i	anamarks.			transport of the
			NA 1927				WETHOD AND DATE OF LOCATION	E OF LOCATION	
123	CM-7704	TP-00534		POSITION	28		(See instructions on reverse aids)	on reverse aide)	CHARTS
,	NO. TOLKSCRIPT.		LATITUDE	JQD.	LONGITUDE	UDE			AFFECTED
CHARTING	(Record reason for deletion of landmark or aid to navigation. Show triangulation station names, where applicable, in perentheses	or aid to navigation. applicable, in parentheses)	/ 0	// D.M. Meters	<u>1</u>	// D.P. Meters	OFFICE	FIELD	
*		leld methods							
	but mot iisted in u.s. coast Guard Light List. Recommended to be cha	Recommended to be charted.							
* DAYBEACON	(South San Francisco Yacht Harbor Daybeacon 4, 1980 (Unadj. Field Po	tht Harbor Field Pos.))	37-39	52.004 1603.3	122-22	11.453 280.7		F-3-6-L 10/80	18651
DAYBEACON	(South San Francisco Yacht Harbor	tht Harbor	700 10	50.877	<u> </u>	10.879		F-3-6-L	
	Daybeacon 3, 1980 (Unadj.	. Field Pos.))	37-39	1568.5	122-22	266.6		10/80	18651
DAYBEACON	(South San Francisco Yacht Harbor	tht Harbor	, 0	50.852	$\overline{}$	17.476		F-3-6-L	
	_	. Field Pos.))	37-39	1567.8	122-22	428.3		10/80	18651
*			100	1.1	_	45.128,		F-3-6-L	
DAYBEACON	(Coyote Point Yacht Harbor Daybea 1980 (Unadi. Field Position))	or Daybeacon 4,	37-35	1084.5	122-18 [I	1107.1		10/80	18651
*			•	34.234	$\overline{}$	43.483		F-3-6-L	
DAYBEACON	(Coyote Point Yacht Harbor Daybea 1980 (Unadi, Field Position))	or Daybeacon 3,	37-35	1055.4	122-18	1066.8		10/80	18651
* NOO AT DAY O	(Coyote Point Yacht Harb	or Daybeacon 6,	37-35	32.815	$122 - 18^{-4}$	47.243		F-3-6-L	
DAIDEACON	1980 (Unadj. Field Position))	- 1		1011.7	pa4	1159.0		10/80	18651
*	(Coyote Point Yacht Harbor Daybeacon	or Daybeacon 5,	-	31.821	7	45.587		F-3-6-L	
DAYBEACON	1980 (Unadj. Field Position)		37-35	981.07	_	1118.4		10/80	18651
DAYBEACON,	(Coyote Point Yacht Harbor	or Daybeacon 8.		30.362		49.394		F-3-6-L	
	1980 (Unadj. Field	((1	3/-35	936.0	122-18	1211.8	- [10/80	18651
, NAVBEACON	(Covote Point Vacht Harbor Daybeacon	or Davbeacon 7.		29.224		47.881		F-3-6-L	\
	1980 (Unadj. Field Position)		37-35	901.0	122-18	1174.7		10/80	18651 AUF
								•	

RESPONSIBLE	PERSONNEL	
NAM		ORIGINATOR
		HYDROGRAPHIC PARTY
D. R. Taylor		GEODETIC PARTY OTHER (Specify)
D. R. Taylor	7	FIELD ACTIVITY REPRESENTATIVE
G. A. Morris		OFFICE ACTIVITY REPRESENTATIVE
		XX REVIEWER OUALITY CONTROL AND REVIEW GROUP
J. Hancock, Final Review,	3/11/82	REPRESENTATIVE
VSTRUCTIONS FOR ENTRIES UNDER	METHOD AND DATE OF LOCATION	
tempor more market	ric instructions ivo. 04,	
ATED OBJECTS	(Cont'd) . Photogram	mmetric field positions** require
tograph used to	date of field work graph used to locat EXAMPLE: P-8-V	date of field work and number of the photo- graph used to locate or identify the object. EXAMPLE: P-8-V
	741(c)298	2
R VERIFIED by symbols as follows:	II. TRIANGULATION STATION When a landmark or all	also a
Visually		station is recovered, enter irlang. date of recovery. Triang. Rec.
ield identified	8-12-75	
lanetable	III. POSITION VERIFIED VIS	WALLY ON PHOTOGRAPH
		ite.
	8-12-75	
	**PHOTOGRAMMETRIC FIELD PC	SITIONS are dependent
	entirely, or in part, up	in part, upon control established
ed by field obser- ground survey methods.		ds.
	TYPE OF ACTION TYPE OF ACTION TYPE OF ACTION TYPE OF ACTION D. R. Taylor J. Hancock, Final Review, Intersect by Symbols as follows: F. Field b	Review, 3/11/82 Review, 3/11/82 Resource of Method and Date of Photogrammetric Instructions No. 64, FIELD (Cont'd) B. Photogram entry of date of f graph use EXAMPLE: When a land angulation Rec.' with EXAMPLE: Senter 'V-V'ENTERNAMETRI entirely, or in by photogramme by photogramme by photogramme by photogramme cods.

NOAA FORM 70-40 (8-74)

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



*FIELD Vation	> +w2-<	- 7 PE	OFFICE 1. OF En da	FORMS ORIGIN AND REVIEW G ACTIVITIES	OBJECTS INSP	
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NOAA FORM 76-40	-40			F 42	200 - 4NO - F4N	S.U.	. DEPARTM	OCEANIO AND ATMOSPHEDIO ADMINISTRATION	ORIGINATING ACTIVITY	CTIVITY
Replaces C&GS Form 567	т 567.	NONFLOA	NONFLOATING AIDS	-	FOR CHARTS	RTS			HYDROGRAPHIC PARTY GEODETIC PARTY PHOTO FIELD PARTY	ARTY 27.V
TO BE CHARTED		EPORTING UNIT	STATE		LOCALITY			DATE	CA COMPILATION ACTIVITY	\L
TO BE REVISED		FMC Photogrammetric			San Francisco		and San		FINAL REVIEWER	0 3 1 2 4
TO BE DELETED	İ	J	California	ia	Pablo Bays	ays		2/20/81	COAST PILOT BRANCH	LUZ
The following objects		HAVE V HAVE NOT	been inspected from seaward to determine their value as landmarks	ward to det	ermine thei	r value as	landmarks.		(See reverse for responsible personnel)	sible personnel)
OPR PROJECT			SURVEY NUMBER	DATUM						-
1		, (NA 1927				METHOD AND DATE OF LOCATION	TE OF LOCATION	
123	_	CM-7704	TP-00534		POSITION	NO.	_	(See instructions on reverse side)	on reverse side)	CHARTS
1		DESCRIPTION		LATITUDE	UDE	LONGITUDE	JOE			AFFECTED
CHARTING	Record reaso	(Record reason for defetion of landmark or aid to navigation. Show triangulation station names, where applicable, in parenti	Record reason for deletion of landmark or aid to navigation. Show triangulation station names, where applicable, in parentheses)	, ,	// D.M.Meters	, ,	D.P. Meters	OFFICE	FIELD	
* TH917		(San Bruno Shoal Channel Light 1 NGS Sta. #3091, Quad 371221; Lt. #663	nel Light 1, 1977) 371221; Lt. list	37-4Í	44.959~	122-20	18.062	77B(P)3764 ⁷ 3-18-77	Destroyed ~ 8-6-80	18651
*		(San Bruno Shoal Channel Light	nel Light 5, 1977)	37,38	37.615	122-18	43.286	Beyond photo	Destroyed	
LIGHT	#667	. #3903, quad 5		ac-/c		777		coverage	8-6-80	18651
	*Light!	*Light's destroyed, re NGS recovery förms 75	replaced by temporary t 75-82A for descriptive		noy's according remarks.	ding to	field	editor. See a	attached field	editors
								j 1		
LIGHT		South Channel Tower Light (San Mateo Bridge Transmission No. 18, 1955)	ght smission Tower	37 34	56,315 1736.1	122 15	01.900 [′]		Triang. Rec 8/6/80	18651
	**NGS SI	station recovered,	37122							
	#3070; #678 ha	#3070; field editor indicates #678 has been destroyed.	ndicates Nav. Aid ed.	·						-
						1				·
	-									
						-				
						I		:		
						-				
	_	•				1				
		•							; ;	TAME!

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FIELD POSITIONS are determined by field obser-	ction 7 - on 8 - sitions requestrate of	EW POSITION DETERMINED nter the applicable dat P - Field Vis - Located Vis - Verified - Triangulation 5 - Traverse 6 -	OFFICE IDENTIFIED AND LOCATED OBJECTS 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	F-0511 IONS DETERMINED AND/OR VERIFIED	OBJECTS INSPECTED FROM SEAWARD	TYPE OF ACTION	
**PHOTOGRAMMETR entirely, or by photogramm	method of EXAMPLE:	s as follows: tric tric Rec.' with EXAMPLE:	FIELD (Cont'd) B. Photogram entry of date of f graph use EXAMPLE:	INSTRUCTIONS FOR ENTRIES UNDER 'METHOD AND DATE OF (Consult Photogrammetric Instructions No. 64,	Har	D. R. Taylor G. A. Morris	D. R. Taylor	NAME.	RESPONSIBLE PERSONNEL
<pre>IC FIELD POSITIONS are dependent in part, upon control established etric methods.</pre>	ERIFIED VISUALLY ON PHOTOGRAPH is.' and date. V-Vis. 8-12-75	TRIANGULATION STATION RECOVERED When a landmark or aid which is also a tri- angulation station is recovered, enter 'Triang. Rec.' with date of recovery. EXAMPLE: Triang. Rec. 8-12-75	<pre>mmetric field positions*** require method of location or verification, field work and number of the photo- ed to locate or identify the object. P-8-V 8-12-75 74L(C)2982</pre>	LOCATION'	Q REVIEWER QUALITY CONTROL AND REVIEW GROUP REPRESENTATIVE	OFFICE ACTIVITY REPRESENTATIVE	PHOTO FIELD PARTY TY HYDROGRAPHIC PARTY GEODETIC PARTY OTHER (Specify)	ORIGINATOR	

NOAA FORM 76-40 (8-74)

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



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NAUTICAL CHART DIVISION

RECORD OF APPLICATION TO CHARTS

CH C WITH	DESCRIPTIVE	DEBART A	E CHOVEY NO	
FILE WITH	UESCRIPTIVE	REPORT O	F SURVET 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 Review.

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		
			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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