TP-00402

NOAA FORM 76-35

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

DESCRIPTIVE REPORT

Type of Survey Shoreline
Job No. PH-7107 Map No. TP-00402
Classification No. Final Edition No
Field Edited Map
LOCALITY
State California
General Locality . Dana Point to Point Vicente. Long Beach Breakwater Locality
,
· · · · · · · · · · · · · · · · · · ·
1972 TO 1975
REGISTRY IN ARCHIVES
DATE

☆ U.S. GOVERNMENT PRINTING OFFICE: 1974-762-901

NOAA FORM 76-36A U. S. DEPARTMENT OF COMMERCE	TYPE OF SURVEY	SURVEY TP. 00402
(3-72) NATIONAL OCEANIC AND ATMOSPHERIC ADMIN.	XX ORIGINAL	MAP EDITION NO. (1)
DESCRIPTIVE DEPORT DATA DECORD	☐ RESURVEY	MAP CLASS Final
DESCRIPTIVE REPORT - DATA RECORD		7107
	REVISED	JOB PH
PHOTOGRAMMETRIC OFFICE	LAST PRECEED	ING MAP EDITION
Coastal Mapping Division	TYPE OF SURVEY	JOB PH-
Norfolk, Va.	ORIGINAL ORIGINAL	MAP CLASS
	RESURVEY	SURVEY DATES:
Jeffrey G. Carlen, CDR	REVISED	19TO 19
I. INSTRUCTIONS DATED	<u> </u>	
1. OFFICE	2.	FIELD
Aerotriangulation Aug 17, 1971	Premarking	March 1, 1971
Compilation Nov. 5, 1971	Premarking	
Supplement 1 Oct. 9, 1973	Supplement I	Feb. 25, 1972
Amendment 1 . Oct.30, 1973		
Amend.1to Supp. 1 Jan.28, 1974		
·		
II. DATUMS	<u> </u>	<u></u>
1 HODITONTA	OTHER (Specify)	
1. HORIZONTAL: X 1927 NORTH AMERICAN		
X MEAN HIGH-WATER	OTHER (Specify)	
2. VERTICAL:		
MEAN LOWER LOW-WATER	,	
3. MAP PROJECTION		CRIDIC)
,	STATE 4.	GRID(S)
Polyconic	California	6
5. SCALE	STATE	ZONE
1:5,000	<u></u>	<u> </u>
III. HISTORY OF OFFICE OPERATIONS	<u></u>	
OPERATIONS	NAME	DATE
I. AEROTRIANGULATION BY METHOD: Apalytic LANDMARKS AND AIDS BY	I. D. Raborn	Sep 1973
	Allen	Sep 1973
2. CONTROL AND BRIDGE POINTS PLOTTED BY METHOD: Coradomat CHECKED BY	Allen	Sep 1973
3. STEREOSCOPIC INSTRUMENT PLANIMETRY BY	NA ATTEN	<u>JED 1717</u>
COMPILATION CHECKED BY	NA	
instrument: Wild B-8 contours by	NA	
SCALE: 1:7,500 CHECKED BY	NA	
4. MANUSCRIPT DELINEATION PLANIMETRY BY	C. Blood	Jul 1974
CHECKED BY	F. Margiotta	Jul 1974 ·
Smooth Drafted contours by	NA NA	
1:5,000 HYDRO SUPPORT DATA BY	NA C. Blood	Jul 1974
SCALE: CHECKED BY	F. Margiotta	Jul 1974
5. OFFICE INSPECTION PRIOR TO FIELD EDIT BY	F. Margiotta	Jul 1974
BY	D. Butler	Jul 1975
6. APPLICATION OF FIELD EDIT DATA CHECKED BY	R. Minton	May 1976
7. COMPILATION SECTION REVIEW BY	R. Minten	May 1976
8. FINAL REVIEW BY	A. Shands	Aug 1978
9. DATA FORWARDED TO PHOTOGRAMMETRIC BRANCH BY	A. Shands	Nov 1978
10. DATA EXAMINED IN PHOTOGRAMMETRIC BRANCH BY	AK. Huywood	Feb 1980
11. MAP REGISTERED - COASTAL SURVEY SECTION BY NOAA FORM 76-38A SUPERSEDES FORM C& GS 181 SERIES	E.L. DAUGHERTY	JUN 1980



(3-72)				TP-00	N N/02	ATIONAL OCE		ATMOSE		DMINISTRATION OCEAN SURVEY
			CO	MPILATIC		RCES			TIONAL	OOLAN JONE
1. COMPILATION PH	OTOGRAPHY	, <u>-</u> -		<u></u>					 	
CAMERA(S)				TYPE		OTOGRAPHY		TIM	E REFER	ENCE
Wild RC-8					LEGE	-ND	ZONE			1
PREDICTED TIDE				(C) CO		*		ific		STANDARD
REFERENCE STA	TION RECOF			l	NCHROM RARED	ATIC	MERIC			DAYLIGHY
X TIDE CONTROLLE	ED PHOTOGI	RAPHY		(1) 1197	RARED		120	th		
NUMBER AND	TYPE	_	DATE	TIM		SCALE		ST	AGE OF 1	TIDE
72L(C) 3144 72L(C) 3023~ 72L(I) 2837	3027	3/	24/72 24/72 124/72	09:3 08:3 11:	30	1:15,00 1:15,00 1:15,00	0 4.8	ft.	above above of ML	MLLW
							<u> </u>			
REMARKS										
3. SOURCE OF MEAN	listed	photo	graphs.			iled from	nthe ab	ove		
	The me	an low	er low w	ater li	ne was	delineat photograp		n the	above	
4. CONTEMPORARY	HYDROGRA	PHIC SUI	RVEYS (List o	only those s	urveys th	at are sources l	or photogra	mmetric	survey in	formation.)
SURVEY NUMBER	DATE(S)	<u> </u>	SURVEY CO	PY USED	SURVE	YNUMBER	DATE(S)		SURVE	Y COPY USED
5. FINAL JUNCTION	S									
NORTH TP-00395		EAST TP-	00401		SOUTH	No surv	ey	WEST	TP0040)3
REMARKS										

ONAL OCEANIC AND ATMOSPHERI	ENT OF COMMER IC ADMINISTRAT BAL OCEAN SURV
OPERATION	
NAME	DATE
D 11	
B. Melby	MAr 1972
B. Melby e	<u>Mar 1972</u>
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e	<u> </u>
<u>e</u>	
	1
RTICAL CONTROL IDENTIFIED	
None	
O NUMBER STATION DE	SIGN A TION
O NUMBER OBJECT	NAME
UNDARY AND LIMITS: REPO	RT X NONE
e Geodesy Division)	
đ	Geodesy Division)

	HISTORY OF FIELD	OPERATIONS		
I FIELD INSPECTION OP	ERATION X FIELS	EDIT OPERATION		
0	PERATION	NA NA	ME	DATE
I. CHIEF OF FIELD PARTY			derman, NOAA	Mar 1976
	RECOVERED BY		i, ENS Leigh	Mar 1976
2. HORIZONTAL CONTROL	ESTABLISHED BY	None		
	PRE-MARKED OR IDENTIFIED BY	None None		
3. VERTICAL CONTROL	ESTABLISHED BY	None		
•••••••••	PRE-MARKED OR IDENTIFIED BY	None		
	RECOVERED (Triangulation Stations) BY	None		<u> </u>
4. LANDMARKS AND	LOCATED (Field Methods) BY	LTJG Kosinsk	i, ENS Leigh	Mar 1976
AIDS TO NAVIGATION	IDENTIFIED BY	None		
	TYPE OF INVESTIGATION			
5. GEOGRAPHIC NAMES	COMPLETE			
INVESTIGATION	SPECIFIC NAMES ONLY	}		}
	X NO INVESTIGATION			
6. PHOTO INSPECTION	CLARIFICATION OF DETAILS BY	None		
7. BOUNDARIES AND LIMITS	SURVEYED OR IDENTIFIED BY	NA NA		
II. SOURCE DATA 1. HORIZONTAL CONTROL ID	ENTIFIED	2. VERTICAL CONT	BOL IDENTIFIED	
·			NOE IDENTIFIED	
None		None_		
PHOTO NUMBER	STATION NAME	PHOTO NUMBER	STATION DES	IGNATION
3. PHOTO NUMBERS (Clarifica	tion of details)			
None				
4. LANDMARKS AND AIDS TO	NAVIGATION IDENTIFIED			
None		T		-
PHOTO NUMBER	OBJECT NAME	PHOTO NUMBER	OBJECT	NAME
S. GEOGRAPHIC NAMES:	REPORT NONE	6. BOUNDARY AND	LIMITS: REPOR	RT 🗓 NONE
7. SUPPLEMENTAL MAPS AN		-		
None				
8. OTHER FIELD RECORDS (S	ketch books, etc. DO NOT list data submit	ted to the Geodesy Div	ision)	
	1 Report, OPR-411-FA-1976 s, OPR-411-FA-1976	; Field Edit O	zalid TP-00402	

NOAA FORM 76-36D (3-72)

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

TP-00402

		RECO	RD OF SURVE	Y USE		
I. MANUSCRI	PT COPIES					
<u> </u>		MPILATION STAGE	E\$			PT FORWARDED
DA	TA COMPILED	DATE	RE	MARKS	MARINE CHARTS	HYDRO SUPPORT
	tion complete field edit	Jul 1974	Class III	manuscript	8/2/74	8/2/74
	dit applied. tion complete.	Jul 1975	Class I ma	anuscript	6/7/76	
Final R	eview	Aug 1978	Fin	al	Nov 1978	
II. LANDMAI	RKS AND AIDS TO NAVIG	ATION				
	RTS TO MARINE CHART D		L DATA BRANCH	· · · · · · · · · · · · · · · · · · ·		
NUMBER	CHART LETTER NUMBER ASSIGNED	DATE FORWARDED		F	REMARKS	
. 2	<u></u>	5/24/76	Aids to be	e charted		
		-				
						
					<u> </u>	,
2 (7 0)	EPORT TO MARINE CHAR	T DUMBIN COAST	Leu et ppancu	D. T. T. T. D. W. D. C.	May 24, 197	76
2. RE 3. RE	EPORT TO MERONAUTICA	L CHART DIVISION	N, AERONAUTICAI	DATE FORWARD DATA SECTION	DATE FORWARDED:	
1. 🔀 🛭 2. 📆 c 3. 📆 sc A	RIDGING PHOTOGRAPHS: ONTROL STATION IDENT OURCE DATA (except for C CCOUNT FOR EXCEPTIO	X DUPLICATI FICATION CARDS, Geographic Names R NS: RDS CENTER. DA	eport) AS LISTED	IN SECTION 11, NO	AA FORM 76-36C.	
IV. SURVEY	SURVEY NUMBER	Shall be completed a		p edition is registe	TYPE OF SURVEY	·
SECOND	TP -	_ (2) PH				SURVEY
EDITION	DATE OF PHOTOGRAP		TELD EDIT		MAP CLASS	FINAL
Tuibe	SURVEY NUMBER	JOB NUMBE			TYPE OF SURVEY	SURVEY
THIRD EDITION	DATE OF PHOTOGRAP	(3) PH			MAP CLASS	- FINAL
	SURVEY NUMBER	JOB NUMBE	ER .		TYPE OF SURVEY	
FOURTH	TP				REVISED RES	ŮRVÉY
EDITION	DATE OF PHOTOGRAP	HY DATE OF F	TELD EDIT		MAP CLASS III. □IV. □V.	FINAL

SUMMARY TO ACCOMPANY

TP-00392 through TP-00403

Maps included in this summary comprise the northern portion of Project PH-7107. Each of them is 1:5,000 scale with the exception of TP-00392 which is 1:10,000 scale. They cover the coast of California from Anaheim Bay to Point Vicente. Each is a standard shoreline map, the purpose of which is to serve as support for contemporary hydrographic operations conducted in the area and to provide up-to-date shoreline for nautical chart construction.

The area is heavily populated with an accompanying high incidence of marine construction. Several major changes have occurred along the shoreline during the life of this survey due to construction.

Field operations prior to delineation consisted of the recovery and identification of horizontal control used for bridging and, also, leveling operations conducted in connection with the tide coordinated infrared photography which was used to delineate the mean lower low water line.

Bridging was done in the Rockville Office by analytic triangulation methods in September, 1973. Ratios were determined and ordered at that time.

Compilation was by Wild B-8 instrument method at the Atlantic Marine Center. Field edit was performed during the spring of 1975 and 1976. Edit data was applied to the maps at the Atlantic Marine Center.

Final Review was performed at the Atlantic Marine Center during the fall of 1978. The original base maps and all pertinent data was forwarded to the Rock-ville Office for reproduction and final registration.

FIELD INSPECTION

Field work prior to compilation was limited to the recovery and identification of horizontal and vertical control for use in the bridge and coordination of mean lower low water tide elevation. There was no clearification of photographic details.

PHOTOGRAMMETRIC PLOT REPORT
Part 2
Dana Point to Point Vicente
California
Job PH-7107,
September 1973

21. AREA COVERED

The area covered by this report is along the west coast of California. This area is covered by one 1:10,000 scale sheet TP-00397 and eleven 1:5,000 scale sheets TP-00392 thru TP-00396 and TP-00398 thru TP-00403.

22. METHOD

Two strips of 1:30,000 scale color photography were bridged by analytic aerotriangulation methods. Sketch #1 shows the flight line of the photography and the placement of the control used in this adjustment. The two strips were controlled by field identified a control paneled in 1972. Old control, which was office identified, was floated for checks. Ties were made between strips five and six. Strip number five was adjusted using 3 horizontal stations as control with one old station as a check. Strip number six was adjusted using 7 horizontal stations as control with 3 old stations as checks. Compilation points were located between strips #5 and #6 (1:30,000 scale photography) to control the 1:15,000 scale compilation photography, strips 10, 14, 15,19, 20, and 21. Common points were located between strip 5 and 6 and the hydro support photography (1:15,000), strips 29 and 30, to determine the ratio scale. Sketch #2 shows the flight lines of the compilation and hydro support photography. Common points were located between strip 6 and strips 11 and 12 to determine only the ratio scale.

Difficulty in adjusting the strips occurred in the area of Long Beach Red Band Steel Tank, 1920. Points in this area approached the limits for National Map Accuracy Standards. This is the result of trying to obtain 1:5,000 scale sheets from 1:30,000 scale photography with several models being very weak. (Less than 1/2 model) The lower altitude strips were not bridged because the points for bridging would only be as good as the high altitude bridges. No difficulty is expected in detailing the compilation (1:15,000 scale models) however, if difficulty is encountered in the weak area, there are numerous office identifiable stations which could be used to help set up the models.

One model (Photos 72L2894, 72L2895) was set in the B-8. The four compilation points were held. Two triangulation stations and one substation were used as checks. All three held within 0.1 mm.

Data for ruling projections were furnished to the Coradomat to be plotted on the California zones 6 and 7 coordinate system.

23. ADEQUACY OF CONTROL

The control was adequate.

24. SUPPLEMENTAL DATA

USGS quadrangles were used to provide vertical control for the adjustment.

25. PHOTOGRAPHY

The photography was adequate as to coverage, overlap and definition.

Respectfully submitted,

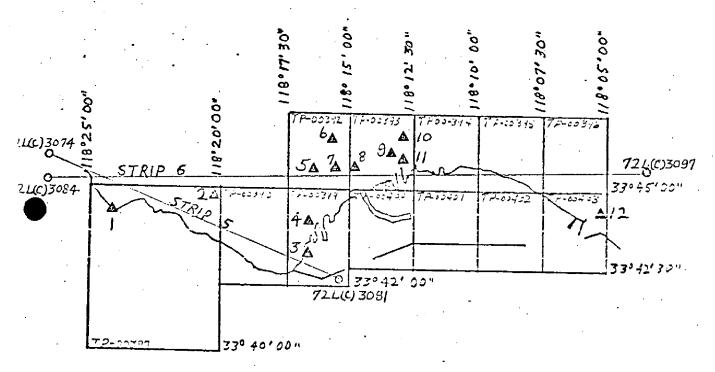
proved and forwarded:

Chief, Aerotriangulation Section

MOTES TO COMPILER

Strip number 13, which covers the breakwater, cannot be controlled or set in stereo instruments. This area must be compiled by field methods.

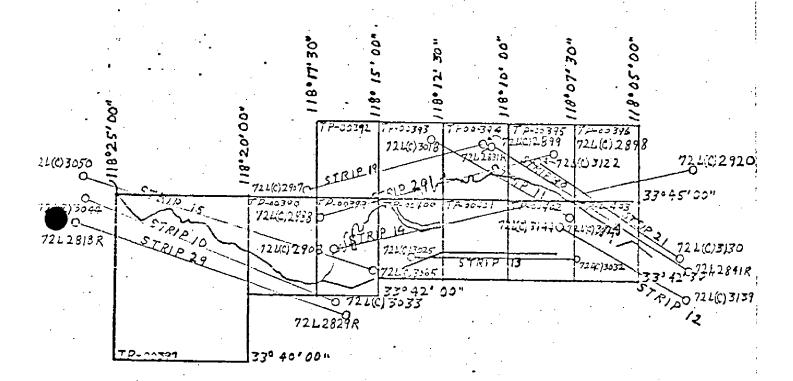
PHOTOGRAMMETRIC PLOT REPORT Part 2 Dana Point to Point Vicente California · Job PH-7107 August 1973



- 1. Vicente, 1951.
- Verdes, 1963, Sub pt.
- 3. Old, 1399, Sub pt.
- San Pedro Control Compress Co. Tank, 1933
- San Pedro Pacific Coast Borax Co. Stack, 1933 6.
- Wilmington, Smart & Final Co. Marehouse Tank, 1933
- 7. Medora 1972
- Wilmington Berth 176-177 Water Tank, 1933
- ٩. Long Beach Red Rand Steel Tank, 1920
- Long Beach Procter & Gamble Water Tank, 1933 10.
- Long Beach Red Band Steel Tank , 1920, Sub pt. 11.
- B.M. N 766, 1956, Sub pt.

PHOTOGRAMMETRIC PLOT REPORT
Part 2.

Dana Point to Point Vicente
California
Job PH-7107
August 1973



U.S. DEPARTMENT OF COMMERCE NATIONAL OCEANIC AND ATMOSPHERIC ADMINISTRATION (1127.6)(1284.7)BACK REMARKS DAT [0/18/73 Coastal Mapping Division FORWARD 721.0 260.1 DATE DATE 23.40 10.10 λ LONGITUDE GEOGRAPHIC POSITION 43 08 Gustafson 118 33 DESCRIPTIVE REPORT CONTROL RECORD ~ 0 ~ ~ • ⊕. 0-⊕. ↔ -0- φ. ↔ ~ • ~ \prec COMPUTATION CHECKED BY. R. HAND PLOTTING CHECKED BY STATE California COORDINATES IN FEET LISTING CHECKED BY GEODETIC DATUM 9 NA ZONE 3 ***** Ľ ä 'n, <u>*</u> 7 ĸ £ 'n ۲ n K ۳, ¥ 2 ¥ 2 <u>#</u> AEROTRI-ANGULATION POINT NUMBER PM/16/73 DATE Quad 331181 STA. 2074 SOURCE OF INFORMATION (Index) PH-7107 JOB NO. LONG BEACH BREAKWATER, EAST END LIGHT, 1953 RAuck, STATION NAME ပံ Ą TP-00402 HAND PLOTTING BY COMPUTED BY LISTED BY MAP NO.

9

SUPERSEDES NOAA FORM 76-41, 2-71 EDITION WHICH IS OBSOLETE.

COMPILATION REPORT

TP-00402

31. DELINEATION:

The offshore islands and breakwater were compiled by graphic methods. The mean high water line and the mean lower low water line were compiled by B-8 instrument methods.

32. CONTROL:

See the Photogrammetric Plot Report, Part II dated September, 1973.

33. SUPPLEMENTAL DATA:

None.

34. CONTOURS AND DRAINAGE:

Contours are not applicable to the project. There is no drainage.

35. SHORELINE AND ALONGSHORE DETAILS:

The mean high water line and all alongshore details were delineated by office interpretation of the photographs.

36. OFFSHORE DETAILS:

Coverage was sufficient to allow the delineation of Long Beach Break-water by graphic methods.

37. LANDMARKS AND AIDS:

Copies of Forms 76-40 were forwarded to the field editor for verification, location and/or deletion of charted objects.

38. CONTROL FOR FUTURE SURVEYS:

None.

39. JUNCTIONS:

See the Form 76-36b, item #5 concerning junctions.

40. HORIZONTAL AND VERTICAL ACCURACY:

No statement.

46. COMPARISON WITH EXISTING MAPS:

A comparison has been made with USGS Quadrangle Long Beach, CA, scale 1:24,000, dated 1964.

47. COMPARISON WITH NAUTICAL CHARTS:

A comparison has been made with Chart 5148, scale 1:18,000, 17the edition, dated February 24, 1973.

ITEMS TO BE APPLIED TO NAUTICAL CHARTS IMMEDIATELY

None.

ITEMS TO BE CARRIED FORWARD

None.

Submitted by:

Cartographic Technician

July 19, 1974

Approved:

albut c. Rauch. Jr. Albert C. Rauck, Jr.

Chief, Coastal Mapping Section, AMC

GEOGRAPHIC NAMES

FINAL NAME SHEET.

PH-7107, Dana Point to Point Vicente, California

TP-00402

Island Chaffee

Island Freeman

Pacific Ocean

San Pedro Bay

Approved by:

Charles E. Harrington, Chief Geographer

NOAA FORM /3-/4 (7-75)	РНО	TOGRAMMET TF	RIC OFFICE REVIEW	NATIONAL OCEAN SURVEY
1. PROJECTION AND GRIDS	2. TITLE		3. MANUSCRIPT NUMBERS	4. MANUSCRIPT SIZE
· FM	FM		FM	FM
CONTROL STATIONS	.1		<u> </u>	
5. HORIZONTAL CONTROL ST *THIRD-ORDER OR HIGHER	ATIONS OF	6. RECOVERA	BLE HORIZONTAL STATIONS	7. PHOTO HYDRO STATIONS
FM	-CCURACT	(Topographi	c stations)	' NA
F IVI 8. BENCH MARKS	T9. PLOTTING	OF SEXTANT	10. PHOTOGRAMMETRIC	11. DETAIL POINTS
	FIXES		PLOT REPORT	
NA ·	NA		FM	· FM
ALONGSHORE AREAS (Nautica	l Chart Data)			
12. SHORELINE	13. LOW-WATER	RLINE	14. ROCKS, SHOALS, ETC.	15. BRIDGES
FM	FM		FM	FM
16. AIDS TO NAVIGATION	17. LANDMARK	'S	18. OTHER ALONGSHORE PHYSICAL FEATURES	19. OTHER ALONGSHORE CULTURAL FEATURES
FM	FM	•	FM	FM
PHYSICAL FEATURES	1		1 171	1 11
20. WATER FEATURES		21. NATURAL	GROUND COVER	22. PLANETABLE CONTOURS
FM			NΑ	NA .
23. STEREOSCOPIC	24. CONTOURS	IN GENERAL	25. SPOT ELEVATIONS	2& OTHER PHYSICAL FEATURES
INSTRUMENT CONTOURS NA	, nt v		DE A	•
	NA		NA	FM
27. ROADS	28. BUILDINGS		29. RAILROADS	30. OTHER CULTURAL
EM	D.M.		Tine	FEATURES
FM .	FM		FM	FM
BOUNDARIES 31. BOUNDARY LINES			32. PUBLIC LAND LINES	
NA			NA	
MISCELLANEOUS				
33. GEOGRAPHIC NAMES		34. JUNCTION	5	35. LEGIBILITY OF THE MANUSCRIPT
FM		F	7 M	FM
36. DISCREPANCY OVERLAY	37. DESCRIPTI	VE REPORT	38. FIELD INSPECTION PHOTOGRAPHS	39. FORMS
FM	F	M	NA .	FM .
40. REVIEWER	<u> </u>	1,1		TION OR UNITS
Truck Mary	ett=		1 000	ench. J.
Frank Margi	otta —	7/74	Albert C. Rau	ck, Jr.
41. REMARKS (See attached she FIELD COMPLETION ADDITION		TIONS TO THE A	IANUSCRIPT	
42. Additions and corrections	s (umished by th	e field complet		d to the manuscript. The manu-
script is now complete ex	- TD		ISUPERVISOR IN	Day hA
David Butle Reviewer: A.L.S		/24/75 0/75	Albert C. Ro	uck, Jr.
43. REMARKS	handl		i iiiooro o. na	
	1 ++	0 a0 P4	.] 4 E44+ 0+	
See form 76-360	, треш	o oi Fie	eld Edit Operat	ions.

FIELD EDIT REPORT

Long Beach and Los Angeles Harbor

Field edit was completed by DAVIDSON during the month of April 1975 on the following seven manuscripts:

TP 00392	 -	ТP	00399
TP 00393	•	ŢΡ	00400
TP 00394	 •	TP	00401
		TP	00402

Field edit should be considered complete on these sheets with the exception of a small area on TP 00399 outside the Los Angeles Breakwater near Point Fermin. Heavy weather precluded proper verification of the ledge shown on the manuscript. The FAIRWEATHER is scheduled to conduct hydrography in that area in the fall of 1975 and plans to delineate this ledge using hydrographic methods. The office compilation of these manuscripts is very good. All questions have been answered and changes are shown in purple ink on the discrepancy ozalids and photographs.

Prior to conducting the field edit, DAVIDSON located many of the important landmarks and navigation aids within the harbor to 3rd order geodetic standards. The harbor area has experienced some horizontal shifting in recent years caused by the depletion of the underlying oil fields. Movements of as much as 3 meters were found. A copy of this report along with completed forms 76-40 giving new positions is included in the appendix. Many of the landmarks located by geodetic means were also listed on the forms 76-40 originated by AMC. References are noted on AMC's forms. In general, the photogrammetrically derived positions agreed quite well with DAVIDSON's horizontal control work.

Field Inspection

The photographs and discrepancy ozalids were taken into the field for verification. Our success at photo identification was poor, partly because of the inexperience of the officer conducting the field inspection and partly because pass points on the photographs obliterated many of the objects to be identified. Most positions were located by three point sextant fix with check angle. G.P.'s of both the fix and check fix were computed on the PDP 8e computer using the geodetic resection program RK-410. A listing of these verified G.P.s by fix number is included in the appendix. Each G.P. listed has been double checked and should be considered accurate. An abstract, by fix number, of the raw field data is also included for reference. It should be noted that not all the fixer listed apply to the field edit of these seven manuscripts. This list is a compilation of field edit fixes and other fixes relating to OPR-511 Chart Adequacy Survey field work - much of which overlap.

Many of the question asked of the field editor involved locating the shore ends of cable and pipe line crossings. In many cases, these shore ends were not visible because piers or other structures hid them. Those that could be located were. A manuscript was obtained from the Los Angeles Harbor Commission showing all utility and pipeline crossings in the Los Angeles half of the harbor. It is included with the data. It is recommended that the Long Beach Port authorities be contacted for a similar manuscript of the Long Beach half of the harbor.

Submitted

R. D. Hopkins. LCDR, NOAA Approved

R. D. Hopkini Sov. M. H. FLEMING CDR, NOAA MAP TP-00402

LONG BEACH BREAKWATER

MARCH 1976

Field work on map TP-00402 was completed by LTJG Gregory P. Kosinski, ENS J.D. Conrad, and ENS G.E. Leigh during March, 1976. The six range markers on the Long Beach Breakwater and four lighted markers on each of Islands Chaffee and Freeman were located. A turning point, RANGE T.P., was established by open traverse on the breakwater, from which open traverses were observed to each measured mile marker. To determine the position of each island light, either a short traverse was observed from a resected turning point set up near the marker, or a theodolite resection was performed. The field position of each aid to navigation is listed on form 76-40, attached. The fix data and form 76-40 as submitted by the NOAA Ship DAVIDSON in 1975 regarding the location of these aids to navigation is also attached.

It is recommended that the map be revised in accordance with the notes on the ozalids and the positions submitted. Refer to Horizontal Control Report, OPR-411-FA-76, for details of the field work.

Respectfully submitted:

Legory P. Kostwaki
Gregory P. Kosinski, LTJG, NOAA

VITY	ż	TY REVIEW GRP. 1	(jauuosied)			CHARTS	AFFECTED		1872.9 18751		,							142	
ORIGINATING ACTIVITY HYDROGRAPHIC PARTY GEODETIC PARTY	PHOTO FIELD PARTY	COMPILATION ACTIVITY FINAL REVIEWER QUALITY CONTROL & REVIEW GRP COAST PILOT BRANCH	(See reverse for responsible personnel)		E OF LOCATION	-	¥	FIELD	F-2-6-L 1976 1	=	#	= =	E E	E B	E 12	F-3-6-L April,1975			
U.S. DEPARTMENT OF COMMERCE NATIONAL OCEANIC AND ATMOSPHERIC ADMINISTRATION		рате Мау,1976			METHOD AND DATE OF LOCATION	(See instructions on reverse side)		OFFICE .											
S. DEPARTM ATMOSPHER		to. Ite	landmarks.				TUDE	D.P. Meters	018.14	11. 310	1063.6	17.147 441.5	17.142 141.3	53.277	53.275	10.10			
U. EANIC AND		Point t Vicer	seaward to determine their value as landmarks		27	NOI	LONGITUDE	/ 0	116 08		118 08	118 09	118 09	118 09	118 09	118 08			
FOR CH		Locatity Dana P	termine the		N.A.1927	POSITION	rube	D.M. Meters	23.541	23,303	718.0	23:482 723.5	23,335	23.614	23.256	23.40			
NA.		ija	award to de	DATUM			LATITUDE		33 43		33 43	33 43	33 43	33 43	33 43	33 43			
NONFLOATING AIDS OR LEADER WERE FOR CHARTS		StAte Div. California a.	en inspected from	SURVEY NUMBER	TP-00402			or aid to navigation. applicable, in perenthoses	Front Marker		ar n	Marker	=	Front Marker	Rear	r, Bast End			
NONFLOAT		REPORTING UNIT Field Park, Ship or Office) Coastal Mapping Div. A.M.C. Norfolk, Va.	VE NOT	Γ	Ph-7107		DESCRIPTION	(Record reason for defetion of landmark or aid to nevigation. Show triangulation station names, where applicable, in parentheses	ured Wile Range Fr		, " Rear	Half Mile Range Front Marker	" " Rear	Mile Range	1 RA	Long Beach Breakwater Light,1953)			
6-40	S Form 567.						,	Record re	Measured		=	Half	=	Measured	=	(Long Light			
NOAA FORM 76-40	Replaces C&GS Form 567	XTO BE CHARTED TO BE REVISED TO BE DELETED	The following	OPR PROJECT NO.	1,1,1			CHARTING	MARKER		MARKER	MARKER	MARKER	MARKER	MARKER	LIGHT	•		

					1		4.11	
(8-74)			FAX	NATIONAL OCEANIC AND ATMOSPHERIC ADMINISTRATION	T MOSPHERIC	ADMINISTRATION	HYDROGRAPHIC PARTY	ACIIVII T PARTY
Replaces C&GS Form 567		TING AIL	MARKS	FOR CHARTS			GEODETIC PARTY PHOTO FIELD PARTY	± *
XXTO BE CHARTED		STATE		Locatity Dana Point to		DATE May,1976	COMPILATION ACTIVITY	IVITY
TO BE DELETED	Coastal Mapping A.M.C. Norfolk	ya. Caillornia	T a	Point Vicente			OUALITY CONTROL'S REVIEW GRP.	L & REVIEW GRP. NCH
The following objects	HAVE [X] HAVE NOT	been inspected	ward to det	from seaward to determine their value as landmarks.	landmarks.		(See reverse for responsible personnel)	ible personnel)
OPR PROJECT N	40. JOB NUMBER Ph-7107	SURVEY NUMBER TP-00102	WOLVO,	N.A.1927	:	METHOD AND DATE OF LOCATION	E OF LOCATION	
				POSITION		(See instructions on reverse side)	on reverse side)	CHARTS
CHABTING	DESCRIPTION	NO.	LATITUDE	UDE LONGITUDE	JOD.	a 0 1 4 4 6 6	G	AFFECTED.
NAME	(Necord reason for deferrences and for nevigation.) Show triangulation station names, where applicable, in parentheses)	rk or aid to nevigation. Sre applicable, in parentheses)	, ,	D.M. Merers	D.P. Meters	1		
	ISLAND FREEMAN MARKERS	KERS						,
- MARKER	Lighted		77 EE.	32.990 118 09	36.747		F-4-6-L March, 1976	18749 18751
· MARKER	Lighted, with Horn Fog	og Signal	33 14	23.916 118 09 736.9	39.472		.F-2-6-L March,1976	= =
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	ISLAND OHAFFER MARKERS	ERS.			, , , , , , , , , , , , , , , , , , ,			
MARKER	Ĺighted		33 44	26.689 522.3 118 08	14.707		.F-2-6-L March,1976	=
MARKER	Lighted		गुग ६६	21.776 118 08 670.9	13.938		H II	11
MARKER	Lighted, with Horn Fog	Fog Signal	33 44	19.991 615.9 118 08	19.708		# ,	н н
MARKER	Lighted	,	33 44	24.732 762.7	23.022		F-4-6-L March, 1976	14b

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REVIEW REPORT TP-00402

SHORELINE

September 5, 1978

61. GENERAL STATEMENT:

See Summary, page 6 of this Descriptive Report.

This map was edited in April, 1975 and March, 1976. The location of markers by sextant during the 1975 edit was inadequate. All markers shown on the map were relocated in 1976 by traverse.

62. COMPARISON WITH REGISTERED TOPOGRAPHIC SURVEYS:

Not applicable.

63. COMPARISON WITH MAPS OF OTHER AGENCIES:

Not applicable.

64. COMPARISON WITH CONTEMPORARY HYDROGRAPHIC SURVEYS:

Comparison was made with a copy of Final Verified Smooth Sheets H-9673 (FA-5-4-77) and H-9674 (FA-5-5-77). There are no differences among common details.

65. COMPARISON WITH NAUTICAL CHARTS:

Comparison was made with Charts 18749, 1:18,000 scale, 21st edition, dated March 26, 1977 and 18751, 1:12,000 scale, 24th edition, dated March 18, 1978.

The position of Islands Freeman and Chaffee as shown on the charts is slightly different from that shown on the map. Piles and ramps mapped on the north sidegof each of the islands and the mean lower low water line shown at the northeast corner of the map are not shown on the chart.

66. ADEQUACY OF RESULTS AND FUTURE SURVEYS:

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

Submitted by:

A. L. Shands

Final Reviewer

a.L. Shand

Approved for forwarding:

Chief, Photogrammetric Branch, AMC

Approved:

Chief, Photogrammetric Branch

Chief, Coastal Mapping Division

RECORD OF APPLICATION TO CHARTS

FILE WITH DESCRIPTIVE REPORT OF SURVEY NO.

INSTRUCTIONS

A basic hydrographic or topographic survey supersedes all information of like nature on the uncorrected 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 Revi

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