TP-00408

NOAA FORM 76-35

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

DESCRIPTIVE REPORT

Type	of SurveySHQE	RELINE					
Job N	oPH+7107	Map No IB-00408					
Class	ification No. Final	Edition No1					
	Field Edited Map)					
	LOCALIT	Υ					
State .		•••••					
General Locality Dana Point to Point Vicente							
	Locality Upper Newport Bay						
· • • • • • • • • • • • • • • • • • • •							
	19 ₇₁ TO	19 74					
	REGISTRY IN ARCHIVES						
DATE		. , , , , , , , , , , , , , , , , , , ,					

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

NOAA FORM 76-36A U. S. DEPARTMENT OF COMMERCE (3-72) NATIONAL OCEANIC AND ATMOSPHERIC ADMIN.	TYPE OF SURVEY	SURVEY TP. 00408
	ORIGINAL	MAP EDITION NO. (1)
DESCRIPTIVE REPORT - DATA RECORD	RESURVEY	MAP CLASS Final
	REVISED	јов Рн- <u>7107</u>
PHOTOGRAMMETRIC OFFICE	LAST PRECEEDI	NG MAP EDITION
Coastal Mapping Division, Atlantic Marine	TYPE OF SURVEY	JOB PH-
Genter, Norfolk, Virginia	ORIGINAL	MAP CLASS
OFFICER-IN-CHARGE	□ RESURVEY	SURVEY DATES:
	REVISED	19TO 19
Jeffrey G. Carlen, Cdr		1310 13
I. INSTRUCTIONS DATED		
1. OFFICE	2, 1	TIELD
4 47 4074	Post of the second	Manak 1 1071
Aerotriangulation Aug 17, 1971	Premarking	March 1, 1971
Compilation Nov 05, 1971	Premarking	E-1 25 1072
Supplement Oct 09, 1973	Supplement 1	February 25, 1972
Amendment 1 Oct 30, 1973	1	
Amend. 1 to Supp. 1 Jan 28, 1974		
II. DATUMS		
1. HORIZONTAL: (X) 1927 NORTH AMERICAN	OTHER (Specity)	
	OTHER (Specify)	
MEAN HIGH-WATER MEAN LOW-WATER		
2. VERTICAL: X MEAN LOWER LOW-WATER	i	
MEAN SEA LEVEL		
3. MAP PROJECTION	4. 9	R(D(S)
	STATE	ZONE
Polyconic	California	6
5. SCALE	STATE	ZONE
1:5,000		
III. HISTORY OF OFFICE OPERATIONS		
OPERATIONS	NAME	DATE
I. AEROTRIANGULATION BY	D. Brant	Nov 1971
METHOD: Analytic LANDMARKS AND AIDS BY		
2. CONTROL AND BRIDGE POINTS PLOTTED BY	D. Phillips	Oct 1971
METHOD: Coradomat CHECKED BY	D. Phillips	Oct 1971
3. STEREOSCOPIC INSTRUMENT PLANIMETRY BY	L. O. Neterer	Dec 1971
COMPILATION CHECKED BY	A. L. Shands	Dec 1971
INSTRUMENT: Wild B-8 CONTOURS BY	NA	
SCALE: 1:7,500 CHECKED BY	NA	
4. MANUSCRIPT DELINEATION PLANIMETRY BY	C. E. Blood	Jan 1972
CHECKED BY	B. Wilson	Jan 1972
метнор: Smooth drafted сомтоить ву	NA NA	
CHECKED BY	NA DI DI I	D. 4074
scale: 1:5,000 HYDRO SUPPORT DATA BY	C. E. Blood	Dec 1971
CHECKED BY	B. Wilson	Jan 1972 Jan 1972
5. OFFICE INSPECTION PRIOR TO FIELD EDIT BY	B. Wilson	Mar 1972
6. APPLICATION OF FIELD EDIT DATA CHECKED BY	I. Perkinson F. Margiotta	Jul 1975
7. COMPILATION SECTION REVIEW BY	F. Margiotta	Jul 1975
8. FINAL REVIEW BY	A. L. Shands	Aug 1978
9. DATA FORWARDED TO PHOTOGRAMMETRIC BRANCH BY	A. L. Shands	Nov 1978
10. DATA EXAMINED IN PHOTOGRAMMETRIC BRANCH BY	A. K. Haywood	Feb 1980
11. MAP REGISTERED - COASTAL SURVEY SECTION BY	F.L. DAUGHERTY	JUN 1980

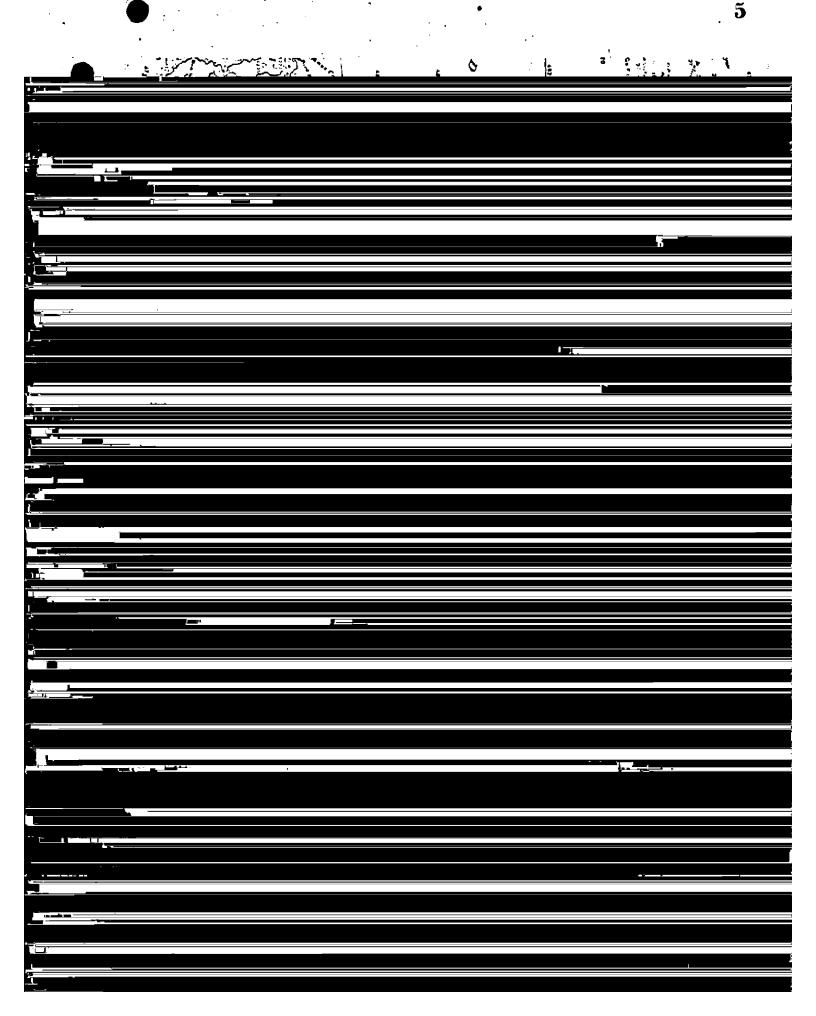
			NATIONAL OCEA	NIC AND ATMOSPH	TMENT OF COMMERC ERIC ADMINISTRATIO IONAL OCEAN SURVE
	CO	MPILATION	SOURCES	NAI	IONAL OCEAN SURVE
1. COMPILATION PHOTOGRAPHY					
CAMERA(S) Wild RC-8 "L"	<u></u> :	TYPES	OF PHOTOGRAPHY LEGEND	TIME	REFERENCE
WITC RO-0 L. TIDE STAGE REFERENCE A PREDICTED TIDES REFERENCE STATION RECORDS TIDE CONTROLLED PHOTOGRA		(C) COLO (P) PANC (I) INFR	HROMATIC	ZONE Pacific MERIDIAN 120th	(X)STANDAR
NUMBER AND TYPE	DATE	TIME	SCALE	STAG	E OF TIDE
71L(C) 1617&1618 *71L(I) 2006-2009	3/5/71 3/6/71	13:26 15:16	1:15,000 1:15,000	0.2 ft. (*-0.2 ft.	
2. SOURCE OF MEAN HIGH-WATER The MHWL was compile	ed from offi	ce interpr	retation of th	e above liste	ed compliation
		hetograph	J'A.L.S.		
3. SOURCE OF MEAN LOW-WATER	OR MEAN LOWER L	OW-WATER LII	NE:	· · · · · · · · · · · · · · · · · · ·	
3. SOURCE OF MEAN LOW-WATER *The MLLWL was compil graphy.				linated infra	red photo-
*The MLLWL was compil graphy.	led from the	above lis	ted tide coord		
*The MLLWL was compil graphy. 4. CONTEMPORARY HYDROGRAPH	led from the	above lis	ted tide coord	or photogrammetric su	
*The MLLWL was compil graphy. 4. CONTEMPORARY HYDROGRAPH SURVEY NUMBER DATE(S) 5. FINAL JUNCTIONS	led from the	above lis	ted tide coord	or photogrammetric su	nvey information.)

" FIEED INSFECTI	ON OPERATION X FIELD	D EDIT OPERATION		
	OPERATION		NAME	DATE
1. CHIEF OF FIELD PA	RTY	CDD C	D 1	
	RECOVERED BY	CDR C. A.	R personnel	Sept 19
2. HORIZONTAL CONT	ROL ESTABLISHED BY		R personnel	Sept 19
	PRE-MARKED OR IDENTIFIED BY	None		
	RECOVERED BY	None		
3. VERTICAL CONTROL		None_		
	PRE-MARKED OR IDENTIFIED BY	None		
4	RECOVERED (Trlangulation Stations) BY	None	·····	
4. LANDMARKS AND AIDS TO NAVIGATIO	LOCATED (Field Methods) BY	None		
	TYPE OF INVESTIGATION	None		
5. GEOGRAPHIC NAMES				
INVESTIGATION	SPECIFIC NAMES ONLY			
	NO INVESTIGATION			
6. PHOTO INSPECTION	CLARIFICATION OF DETAILS BY	LTJG A. D.	Anderson	Sept 19
7. BOUNDARIES AND L	IMITS SURVEYED OR IDENTIFIED BY	NA		
II. SOURCE DATA				
1. HORIZONTAL CONTI	ROL IDENTIFIED	2. VERTICAL COI	TROL IDENTIFIED	
<u>None</u>		Non	<u>e. </u>	
PHOTO NUMBER	STATION NAME	PHOTO NUMBER	STATION DE	SIGNATION
			· · · · · · · · · · · · · · · · · · ·	
3, PHOTO NUMBERS (C	larification of details)			
None				
4. LANDMARKS AND AL	DS TO NAVIGATION IDENTIFIED			
None				
				
PHOTO NUMBER	CRICETNING	DUOTE		

NOAA FORM 76-36D (3-72)

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

RECORD OF SURVEY USE						
I. MANUSC	RIPT COPIES					
	co	MPILATION STA	GES		DATE MANUSCR	IPT FORWARDED
	DATA COMPILED	DATE	RE	MARKS	MARINE CHARTS	HYDRO SUPPORT
-	lation complete ng field edit	Feb 1972	Class III	Manuscript	None	Feb 3, 1972
	l edit applied. lation complete	Mar/30/75	Class I m	anuscript	Jun/7/76	,
Final	Review	Aug 1978	Final		Nov 1978	
	ARKS AND AIDS TO NAVIGA					
), REPORTS TO MARINE CHART DIVISION, NAUTICAL DATA BRANCH						
NUMBER	CHART LETTER NUMBER ASSIGNED	DATE FORWARDED	<u> </u>		REMARK\$	
			_			
						}
2. REPORT TO MARINE CHART DIVISION, COAST PILOT BRANCH. DATE FORWARDED: 3. REPORT TO AERONAUTICAL CHART DIVISION, AERONAUTICAL DATA SECTION. DATE FORWARDED:						
3. REPORT TO AERONAUTICAL CHART DIVISION, AERONAUTICAL DATA SECTION. DATE FORWARDED:						
1. BRIDGING PHOTOGRAPHS; DUPLICATE BRIDGING REPORT; COMPUTER READOUTS. CONTROL STATION IDENTIFICATION CARDS; FORM NOS 567 SUBMITTED BY FIELD PARTIES. SOURCE DATA (except for Geographic Names Report) AS LISTED IN SECTION 11, NOAA FORM 76-36C.						
ىما ٠٠	ACCOUNT FOR EXCEPTION	is:				
4.	DATA TO FEDERAL RECO	ROS CENTER. D	ATE FORWARDED:	·	<u>.</u>	_
IV. SURVE	Y EDITIONS (This section s	hall be completed	d each time a new ma	p edition is regist	ered)	
escous	SURVEY NUMBER	JOB NUM (2) PH	BER		TYPE OF SURVEY	SURVEY
SECOND EDITION	DATE OF PHOTOGRAP		FIELD EDIT		MAP CLASS	_
	SURVEY NUMBER	JOB NUM	0.60	☐ II. ☐	TYPE OF SURVEY	FINAL
THIRD	TP	(3) PH		· 🗖		SURVEY
EDITION	DATE OF PHOTOGRAPH		FIELD EDIT		MAP CLASS	}
				<u> </u>	jii. □iv. □v.	FINAL
	SURVEY NUMBER	JOB NUM	BER		TYPE OF SURVEY	
FOURTH	DATE OF PHOTOGRAPH		FIELD EDIT	"	REVISED RES	JŪR VĖY
EDITION				On. 🗆	III. DEV. DV.	FINAL



SUMMARY TO ACCOMPANY

TP-00404 through TP-00415

Maps included in this summary comprise roughly the southern half of Project PH-7107. Maps TP-00406 through TP-00411 are 1:5,000 scale. TP-00404, TP-00405 and TP-00412 through TP-00415 are 1:10,000 scale.

These maps cover the mainland coast of California from Dana Point northward to Huntington Beach. Each map is a standard shoreline map the purpose, of which, is to provide shoreline in support of contemporary hydrographic operations and for nautical chart construction.

The shoreline is composed primarily of sand. Large amounts are deposited from runoff during the winter and spring rains. Much of the sand is then eroded during the dry months. This cycle of erosion and deposition causes the shoreline to meander in and out. As a result, the mean high water line throughout the entire area is constantly changing.

Field operations prior to compilation consisted of the recovery and identification of horizontal control used in the bridge and leveling operations used to establish the mean lower low water datum in connection with the tide coordinated infrared photography.

The job was bridged in two parts. Bridging for this part of the job was done at the Rockville Office in November, 1971. All ratios were determined and photographs were ordered at that time.

All maps were compiled at the Atlantic Marine Center in January and February, 1972. Field edit was accomplished in October, 1974.

Field edit application and Final Review was performed at the Atlantic Marine Center. All pertinent data was forwarded to the Rockville Office for reproduction and final registration.

Field Report
Project PH-7107

Dana Point to Point Vicente, California
Shoreline Mapping
February - March 1971

The field work pertaining to this project consisted of premarking horizontal control stations prior to aerial photography and furnishing tidal observations necessary for tide control photography.

Horizontal Control:

The horizontal control requirements consisted of paneling preselected triangulation stations. The panels were the conventional, white, opaque polyethylene plastic, cut to the specifications as required for 1:30,000 scale photography.

Form 152, Control Station Identification cards will be submitted for each station paneled. All of the panels are in open areas and shadows or cliffs should not be a problem. Panel array No. 1 was used exclusively, although in some instances, the length or position of the rays were altered to conform to the existing terrain.

Tide Observations:

At Newport Bay, three existing tidal bench marks were tied by spirit levels to the stop on the portable tide staff, of the operating tide gage. The values agreed favorably with the results as determined by a party from the San Francisco Field Office on 2 February 1971. Staff reading of 3.18 feet equals 0.00 feet mean lower low water.

The shaff was and a least one have aview to during and and

PHOTOGRAMMETRIC PLOT REPORT
Part 1
Dana Point to Point Vicente
California
Job PH-7107
November 1971

21. Area Covered

The area covered by this report is along the west coast of California. Control was extended for the shoreline compilation of the following maps:

1:5,000 scale	1:10,000 scale
TP-00406 TP-00407 TP-00408 TP-00409 TP-00410	TP-00404 TP-00405 TP-00412 TP-00413 TP-00414
TP-00411	TP-00415

22. Method

Strip #1 (1:30,000 scale photography) was bridged using analytical aerotriangulation methods. Sketch #1 shows the flight line of the photography and the placement of the control used in the adjustment. Compilation points were located between Strip #1 and Strips #2, #3 and #4 (1:15,000 scale photography) to control the 1:5,000 scale compilation. Compilation points were also located between Strip #1 and Strip #5 (1:30,000 scale photography) where coverage from Strip #1 was not sufficient to control the 1:10,000 scale compilation. Sketch #2 shows the flight lines of the photography. Common points were located between Strip #1 and the 1:15,000 scale and 1:20,000 scale photography in order to determine the ratio scale for the hydro support photography. Natural objects such as tanks, stacks, etc. were located for hydro support parties during bridging. All data for ruling projections and plotting points for the compilation office were furnished to the Coradomat to be plotted on the California zone 6 coordinate system.

23. Adequacy of Control

Horizontal control was premarked and was adequate for bridging.

24. Supplemental Data

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

25. Photography

The following 1:30,000 scale RC-8 color photography was used in bridging Strip #1:

71-L(C)-1653 thru 1674

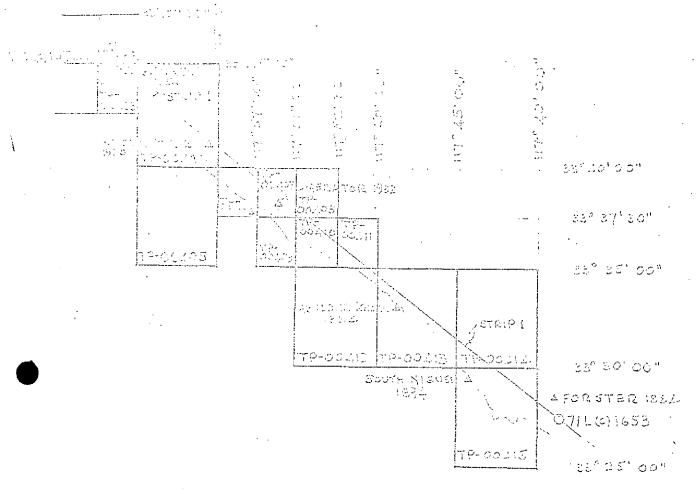
The definition and quality of photography was adequate.

Submitted by:

Donald M. Brant

Approved by:

Henry/P/ Eichert, Chief Aerotriangulation Section



A CONTROL USED IN ADJUSTMENT O HBOLODO SCALE PROTECZAFRY

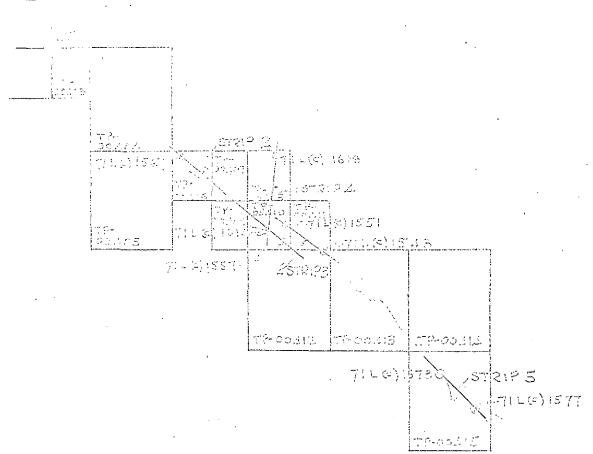
JOBPH - 7:07

DANA POINT TO POINT VICENTE

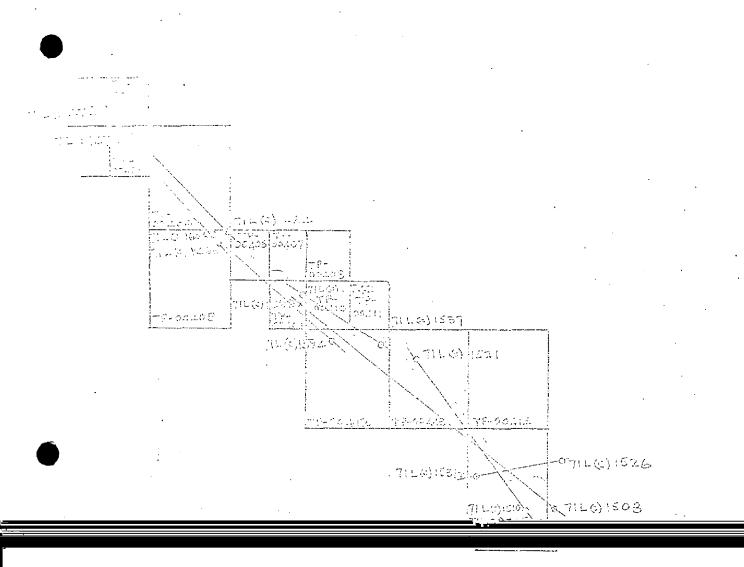
CALIFORNIA

SHORELIME MAPPING

SCALE MOROS & MEDOS



MARMIR OTORY CCO, 314 0 O 1150,000 PHOTO GRAPHY



o (1)E,000 come Hyono cappion Photography
Pirzojodo scace Hybno dos onat Protography

DATE	HAND PLOTTING CHECKED BY	DATE
SUPERSEDES NO	3 NOAA FORM 76-41, 2-71 EDITION WHICH IS OBSOLETE.	9

NOAA FORM 76-41 (6-75)		DESCRIPTION	PESCEPTIVE DEBOOT CONTROL	U.S. DEPARTMENT OF COMMERCE NATIONAL OCEANIC AND ATMOSPHERIC ADMINISTRATION	J.S. DEPARTMENT O ATMOSPHERIC ADM	FCOMMERCE
MAP NO.	JOB NO.	ZESCINI III	GEODETIC DATUM		ORIGINATING ACTIVITY COASTAL	Mappine
TP-00408	PH-7107		NA 1927	Division, N		0 11
STATION NAME	SOURCE OF	AEROTRI- ANGULATION	COORDINATES IN FEET STATE CAlifornia	GEOGRAPHIC POSITION	REMARKS	3KS
	(Index)	POINT	zone 6	λ LONGITUDE	FORWARD	BACK
	721126		=χ	ф 33 39 30.482	939.1	909.5
MAKE, 1928	1079		g=	λ 117 52 40.125	1033.8	512.1
			<i>-</i> χ	Ф		
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			h=	γ		
			=χ	φ		
	-		y=	γ		
			χε	ф		
			η=	γ		
			=χ	•		
			-ĥ	γ		
			#χ	ф		-
			y=	γ		
			χ=	0		
			y=	λ		
			χ=	Φ.		
			η=	γ		
			<i>χ</i> =	Ф		
			y=			
COMPUTED BY A. C. Rauck		P27/5/71	COMPUTATION CHECKED BY T. J	. Bulfer	DATE 12/14/71	/71
LISTED BY		DATE	LISTING CHECKED BY		DATE	
HAND PLOTTING BY		DATE	HAND PLOTTING CHECKED BY		DATE	
		SUPERSEDES N	SUPERSEDES NOAA FORM 76-41, 2-71 EDITION WHICH IS OBSOLETE	H IS OBSOLETE.		!

COMPILATION REPORT

TP-00408

31. DELINEATION:

There was no field inspection prior to $\boldsymbol{\cdot}$ compilation.

32. CONTROL:

See Photogrammetric Plot Report, Part 1, dated November 1971.

33. SUPPLEMENTAL DATA:

None.

34. CONTOURS AND DRAINAGE:

Contours are inapplicable.

Drainage has been delineated from office interpretation of the photographs.

35. SHORELINE AND ALONGSHORE DETAILS:

The mean high water line and foreshore areas were delineated from office interpretation of the photographs.

The low water line was delineated with the infrared photography taken at mean lower low water.

36. OFFSHORE DETAILS:

None.

37. LANDMARKS AND AIDS:

None.

38. CONTROL FOR FUTURE SURVEYS:

No statement.

39. JUNCTIONS:

None.

See form 76-36b.

40. HORIZONTAL AND VERTICAL ACCURACY:

No statement.

46. COMPARISON WITH EXISTING MAPS:

Comparison has been made with USGS Quadrangle Newport Beach, Calif., scale 1:24,000, dated 1965.

47. COMPARISON WITH NAUTICAL CHARTS:

Comparison has been made with Chart No 5108, 11th edition, dated February 27, 1971, scale 1:10,000.

ITEMS TO BE APPLIED TO NAUTICAL CHARTS IMMEDIATELY:

TO BE CARRIED FORWARD:

None.

Submitted by:

C. E. Blood Jan. 3, 1972

Approved:

Albert C. Rauck, Jr.
Chief, Coastal Mapping Section, AMC

GEOGRAPHIC NAMES

FINAL NAME SHEET

PH-7107, Dana Point to Point Vicente, California

TP-00408

Big Canyon
Santa Ana Heights
The Narrows
Upper Newport Bay

Approved by:

Charles E. Harrington, C3x8 Chief Geographer

IOAA FORM 75-74 7-75)	DUAT			U.S. DEPARTMENT OF COMMERC NO. NATIONAL OCEAN SURV
	PHOT		RIC OFFICE REVIEW	12
		1 7	°- 00408	12
PROJECTION AND GRIDS	2 TITLE		3. MANUSCRIPT NUMBERS	4. MANUSCRIPT SIZE
BW	BW		BW	BW
CONTROL STATIONS			·	
S HORIZONTAL CONTROL ST THIRD-ORDER OR HIGHER	ATIONS OF	6. RECOVERA	BLE HORIZONTAL STATIONS IAN THIRD-ORDER ACCURAC	7. PHOTO HYDRO STATIONS
BW	1	(Topographic	stations) NA	NA
BENCH MARKS	9. PLOTTING OF	SEXTANT	10. PHOTOGRAMMETRIC PLOT REPORT	II. DETAIL POINTS
NA	FIXES NA	Α .	BW	BW
	<u></u>	·	<u> </u>	
LONGSHORE AREAS (Nautica 2. SHORELINE	13. LOW-WATER	LINE	14. ROCKS, SHOALS, ETC.	15. BRIDGES
BW	BW		BW	NA
6. AIDS TO NAVIGATION	17. LANDMARKS		18. OTHER ALONGSHORE PHYSICAL FEATURES	19. OTHER ALONGSHORE CULTURAL FEATURES
BW	BW		BW	BW .
HYSICAL FEATURES	1	 	<u> </u>	
. WATER FEATURES		21. NATURAL	GROUND COVER	22. PLANETABLE CONTOU
ВW			N A	NA
S. STEREOSCOPIC	24. CONTOURS	N GENERAL	25. SPOT ELEVATIONS	26. OTHER PHYSICAL FEATURES
NA	NA		NA .	BW
ULTURAL FEATURES	<u> </u>		<u>. L </u>	
7. ROADS	28. BUILDINGS		29. RAILROADS	30. OTHER CULTURAL FEATURES
. BW	в₩	-	NA	BW
OUNDARIES				
I. BOUNDARY LINES			32. PUBLIC LAND LINES	BT A
NA		 	<u> </u>	NA .
ISCELLANEOUS 3. GEOGRAPHIC NAMES		34 JUNCTION	5	35. LEGIBILITY OF THE
			•	MANUSCRIPT
BW			BW	BW
S. DISCREPANCY OVERLAY	37. DESCRIPTIVE	E REPORT	38. FIELD INSPECTION PHOTOGRAPHS	39. FORMS
BW	BW	•	NA	BW
D. REVIEWER & R.	work of FOR	2	SUPERVISOR, REVIEW SEC	TION OR UNIT
B. Wilson	1/14	•	A. C. Rauck	Jr.
· · · · · · · · · · · · · · · · · · ·		, , <u>_</u>	1 11. 0. 11.	
REMARKS (See attached sheeled COMPLETION ADDITION		ONS TO THE H	ANUSCRIPT	***************************************
	fumished by the	field complet		ed to the manuscript. The manu-
OMPILER Cortains	510		SUPERVISOR	Da ho
I. Perkinso: Reviewer: F. Ma	•		Albert C.	Ranch, Jr.
	rgiotta 7	, , ,	TIPELC C. L	lauck, UI.
// // // // // // // // // // // // //	1			
Ciald Edit annl	ied from.			
Field Edit appl See Form 76-36c	rea rrom,			

1

FIELD EDIT REPORT

Map TP-00408 Newport Bay Newport Beach, California September, 1974

Field Edit of map TP-00408 was accomplished by LTJG Alan Anderson and LTJG Andrew Snella during September 1974. Inspection was done from skiffs, on foot and from motor vehicle when required.

METHOD

Field photographs and a copy of the field edit ozalid were examined in the field. The mean high water line was verified by visual comparison of the shore and the ozalid in the field. Several discrepancies were noted on the ozalid. Fixes and height information were not needed as the ozalid was very accurate. All times are based on Greenwich Mean Time.

ADEQUACY OF COMPILATION

Compilation of this map is good. Field inspection of this map is complete.

RECOMMENDATIONS

It is recommended that this map be revised in accordance with the notes on the ozalid and the fix information be accepted as an advance manuscript.

Respectfully submitted,

alan D. anderson

Alan D. Anderson LTJG, NOAA

Approved and forwarded:

Freddie L. Jeffries CDR, NOAA

Comdg., NOAA Ship FAIRWEATHER

REVIEW REPORT TP-00408

SHORELINE

August 1, 1978

61. GENERAL STATEMENT:

See Summary, page 6 of this Descriptive Report.

62. COMPARISON WITH REGISTERED TOPOGRAPHIC SURVEYS:

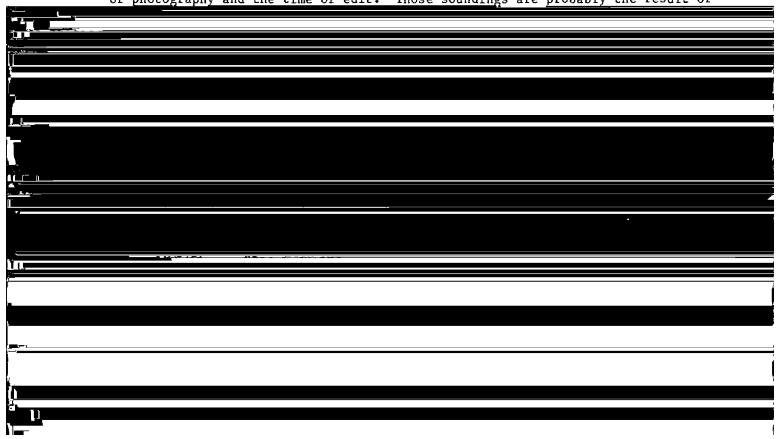
Not applicable.

63. COMPARISON WITH MAPS OF OTHER AGENCIES:

Not applicable.

64. COMAPARISON WITH CONTEMPORARY HYDROGRAPHIC SURVEYS:

Comparison was made with a copy of Final Verified Smooth Sheet H-9471 (FA-5-2-74). In several instances soundings above the mean lower low water datum are shown slightly seaward of the mean lower low water line represented on the map. The field editor indicates that some deposition did occur between the time of photography and the time of edit. Those soundings are probably the result of



Approved for forwarding:

Bill & Barn

Chief, Photogrammetric Branch, AMC

Approved:

Chief, Photogrammetric Branch

Chief, Coastal Mapping Division