

TP-00415

TP-00415

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-00415
Classification No. ... Final Edition No. ... 1
Field Edited Map

LOCALITY

State ... California
General Locality ... Dana Point to Point Vicente
Locality ... Dana Point Harbor

1971 TO 1974

REGISTRY IN ARCHIVES

DATE

NOAA FORM 76-36A (3-72)		U. S. DEPARTMENT OF COMMERCE NATIONAL OCEANIC AND ATMOSPHERIC ADMIN.					
DESCRIPTIVE REPORT - DATA RECORD		<table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 50%;"> TYPE OF SURVEY <input checked="" type="checkbox"/> ORIGINAL <input type="checkbox"/> RESURVEY <input type="checkbox"/> REVISED </td> <td style="width: 50%;"> SURVEY TP-00415 MAP EDITION NO. (1) MAP CLASS Final JOB PH-7107 </td> </tr> </table>		TYPE OF SURVEY <input checked="" type="checkbox"/> ORIGINAL <input type="checkbox"/> RESURVEY <input type="checkbox"/> REVISED	SURVEY TP-00415 MAP EDITION NO. (1) MAP CLASS Final JOB PH-7107		
TYPE OF SURVEY <input checked="" type="checkbox"/> ORIGINAL <input type="checkbox"/> RESURVEY <input type="checkbox"/> REVISED	SURVEY TP-00415 MAP EDITION NO. (1) MAP CLASS Final JOB PH-7107						
PHOTOGRAMMETRIC OFFICE Coastal Mapping Division Norfolk, Va.		<table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td colspan="2" style="text-align: center;"> LAST PRECEDING MAP EDITION </td> </tr> <tr> <td style="width: 50%;"> TYPE OF SURVEY <input type="checkbox"/> ORIGINAL <input type="checkbox"/> RESURVEY <input type="checkbox"/> REVISED </td> <td style="width: 50%;"> JOB PH- MAP CLASS SURVEY DATES: 19__ TO 19__ </td> </tr> </table>		LAST PRECEDING MAP EDITION		TYPE OF SURVEY <input type="checkbox"/> ORIGINAL <input type="checkbox"/> RESURVEY <input type="checkbox"/> REVISED	JOB PH- MAP CLASS SURVEY DATES: 19__ TO 19__
LAST PRECEDING MAP EDITION							
TYPE OF SURVEY <input type="checkbox"/> ORIGINAL <input type="checkbox"/> RESURVEY <input type="checkbox"/> REVISED	JOB PH- MAP CLASS SURVEY DATES: 19__ TO 19__						
OFFICER-IN-CHARGE Jeffrey G. Carlen							
I. INSTRUCTIONS DATED							
1. OFFICE		2. FIELD					
Compilation November 5, 1971 Supplement 1 October 9, 1973 Amendment 1 October 30, 1973 Amend. 1 to Supp. 1 January 28, 1974 Aerotriangulation August 17, 1971		Premarking March 1, 1971 Premarking Supplement I Feb. 25, 1972					
II. DATUMS							
1. HORIZONTAL: <input checked="" type="checkbox"/> 1927 NORTH AMERICAN		OTHER (Specify)					
2. VERTICAL: <input checked="" type="checkbox"/> MEAN HIGH-WATER <input type="checkbox"/> MEAN LOW-WATER <input checked="" type="checkbox"/> MEAN LOWER LOW-WATER <input type="checkbox"/> MEAN SEA LEVEL		OTHER (Specify)					
3. MAP PROJECTION Polyconic		4. GRID(S) <table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 50%;">STATE California</td> <td style="width: 50%;">ZONE 6</td> </tr> </table>		STATE California	ZONE 6		
STATE California	ZONE 6						
5. SCALE 1:10,000		STATE ZONE					
III. HISTORY OF OFFICE OPERATIONS							
OPERATIONS		NAME	DATE				
1. AEROTRIANGULATION BY METHOD: Analytical LANDMARKS AND AIDS BY		D. Brant	Nov 1971				
2. CONTROL AND BRIDGE POINTS PLOTTED BY METHOD: Coradomat CHECKED BY		D. Phillips D. Phillips	Oct 1971 Oct 1971				
3. STEREOSCOPIC INSTRUMENT PLANIMETRY BY COMPILATION CHECKED BY INSTRUMENT: Wild B-8 SCALE: 1:15,000 CONTOURS BY CHECKED BY		L. O. Neterer A. L. Shands NA NA	Nov 1971 Nov 1971				
4. MANUSCRIPT DELINEATION PLANIMETRY BY CHECKED BY METHOD: Smooth Drafted SCALE: 1:10,000 CONTOURS BY CHECKED BY HYDRO SUPPORT DATA BY CHECKED BY		R. Pate A. L. Shands NA NA R. Pate A. L. Shands	Dec 1971 Dec 1971 Dec 1971 Dec 1971				
5. OFFICE INSPECTION PRIOR TO FIELD EDIT BY		A. L. Shands	Dec 1971				
6. APPLICATION OF FIELD EDIT DATA BY CHECKED BY		S. Kumer & J. Roderick 8/75 R. R. White	Jul 1972 Jul 1972				
7. COMPILATION SECTION REVIEW BY		R. R. White	Jul 1972				
8. FINAL REVIEW BY		A. L. Shands	Jul 1978				
9. DATA FORWARDED TO PHOTOGRAMMETRIC BRANCH BY		A. L. Shands	Nov 1978				
10. DATA EXAMINED IN PHOTOGRAMMETRIC BRANCH BY		A. K. Heywood	Feb 1980				
11. MAP REGISTERED - COASTAL SURVEY SECTION BY		E. L. DAUGHERTY	JUN 1980				

NOAA FORM 76-36B
(3-72)U. S. DEPARTMENT OF COMMERCE
NATIONAL OCEANIC AND ATMOSPHERIC ADMINISTRATION
NATIONAL OCEAN SURVEY

TP-00415

COMPILATION SOURCES

1. COMPILATION PHOTOGRAPHY

CAMERA(S)

Wild RC-8 "L"

TYPES OF PHOTOGRAPHY
LEGEND

TIME REFERENCE

TIDE STAGE REFERENCE

☒ PREDICTED TIDES☐ REFERENCE STATION RECORDS☒ TIDE CONTROLLED PHOTOGRAPHY

(C) COLOR

(P) PANCHROMATIC

(I) INFRARED

ZONE

Pacific

☒ STANDARD

MERIDIAN

120th

☐ DAYLIGHT

NUMBER AND TYPE	DATE	TIME	SCALE	STAGE OF TIDE
71L(C) 1502 - 1507	3/5/71	10:21 STD	1:20,000	0.1 ft. above MLLW
71L(C) 1511 - 1515	3/5/71	10:21 STD	1:20,000	0.3 ft. above MLLW
71L(C) 1528	3/5/71	10:33 STD	1:20,00	0.0 ft. above MLLW
*71L(I) 2201 - 2204	3/7/71	15:00 STD	1:20,000	+0.2 ft. of MLLW
72 L(I) 2412-2414	3/23/72	12:53	1:20,000	0.1 ft. above MLLW

REMARKS

REF. STA.-San Diego, California

SUB. STA.-San Clemente, California

mean range
4.1 ft.

3.7 ft.

2. SOURCE OF MEAN HIGH-WATER LINE:

The MHWL was compiled from office interpretation of the above listed compilation photography. In the area of overlap with T-11864(2), the MHWL was mapped from 72L 2412 ~~thru~~ ^{see item 5 below} 2414 ~~thru~~ on T-11864(2) and transferred to TP-00415. 72L 2412 ~~thru~~ 2414 are the latest photographs of the area.

A.L.S.

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

*The MLLWL was compiled from tide coordinated infrared photography.

4. CONTEMPORARY HYDROGRAPHIC SURVEYS (List only those surveys that are sources for photogrammetric survey information.)

SURVEY NUMBER	DATE(S)	SURVEY COPY USED	SURVEY NUMBER	DATE(S)	SURVEY COPY USED

5. FINAL JUNCTIONS

NORTH	EAST	SOUTH	WEST
TP-00414	T-11864(2) PH-6702	No survey	No survey

REMARKS

01' 15" overlap between this sheet and sheet to the east

NOAA FORM 76-36C
(3-72)U. S. DEPARTMENT OF COMMERCE
NATIONAL OCEANIC AND ATMOSPHERIC ADMINISTRATION
NATIONAL OCEAN SURVEY

TP-00415

HISTORY OF FIELD OPERATIONS

I. ☒ FIELD INSPECTION OPERATION☐ FIELD EDIT OPERATION

OPERATION	NAME	DATE
1. CHIEF OF FIELD PARTY	R. B. Melby	Feb/Mar '71
2. HORIZONTAL CONTROL	R. B. Melby	Feb/Mar '71
RECOVERED BY	None	
ESTABLISHED BY	None	
PRE-MARKED OR IDENTIFIED BY	P. T. W.	Feb 1971
3. VERTICAL CONTROL	None	
RECOVERED BY	None	
ESTABLISHED BY	None	
PRE-MARKED OR IDENTIFIED BY	None	
4. LANDMARKS AND AIDS TO NAVIGATION	None	
RECOVERED (Triangulation Stations) BY	None	
LOCATED (Field Methods) BY	None	
IDENTIFIED BY	None	
5. GEOGRAPHIC NAMES INVESTIGATION	TYPE OF INVESTIGATION <input type="checkbox"/> COMPLETE <input type="checkbox"/> SPECIFIC NAMES ONLY <input checked="" type="checkbox"/> NO INVESTIGATION	
6. PHOTO INSPECTION	CLARIFICATION OF DETAILS BY	None
7. BOUNDARIES AND LIMITS	SURVEYED OR IDENTIFIED BY	NA

II. SOURCE DATA

1. HORIZONTAL CONTROL IDENTIFIED		2. VERTICAL CONTROL IDENTIFIED	
		None	
PHOTO NUMBER	STATION NAME	PHOTO NUMBER	STATION DESIGNATION
71L(C) 1657	SOUTH MIGUEL, 1884		
3. PHOTO NUMBERS (Clarification of details)			
None			
4. LANDMARKS AND AIDS TO NAVIGATION IDENTIFIED			
None			
PHOTO NUMBER	OBJECT NAME	PHOTO NUMBER	OBJECT NAME
5. GEOGRAPHIC NAMES: <input type="checkbox"/> REPORT <input type="checkbox"/> NONE		6. BOUNDARY AND LIMITS: <input type="checkbox"/> REPORT <input type="checkbox"/> NONE	
7. SUPPLEMENTAL MAPS AND PLANS			
None			
8. OTHER FIELD RECORDS (Sketch books, etc. DO NOT list data submitted to the Geodesy Division)			
1-Form 152			

NOAA FORM 76-36C
(3-72)

TP-00415

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HISTORY OF FIELD OPERATIONS

I. ☐ FIELD INSPECTION OPERATION☒ FIELD EDIT OPERATION

OPERATION	NAME	DATE	
1. CHIEF OF FIELD PARTY	CDR C. A. Burroughs	Oct 1974	
2. HORIZONTAL CONTROL	RECOVERED BY FAIRWEATHER personnel	Oct 1974	
	ESTABLISHED BY FAIRWEATHER personnel	Oct 1974	
	PRE-MARKED OR IDENTIFIED BY None		
3. VERTICAL CONTROL	RECOVERED BY None		
	ESTABLISHED BY None		
	PRE-MARKED OR IDENTIFIED BY None		
4. LANDMARKS AND AIDS TO NAVIGATION	RECOVERED (Triangulation Stations) BY FAIRWEATHER personnel	Oct 1974	
	LOCATED (Field Methods) BY FAIRWEATHER personnel	Oct 1974	
	IDENTIFIED BY FAIRWEATHER personnel	Oct 1974	
5. GEOGRAPHIC NAMES INVESTIGATION	TYPE OF INVESTIGATION <input type="checkbox"/> COMPLETE <input type="checkbox"/> SPECIFIC NAMES ONLY <input type="checkbox"/> NO INVESTIGATION		
6. PHOTO INSPECTION	CLARIFICATION OF DETAILS BY LTJG John Murphy	Oct 1974	
7. BOUNDARIES AND LIMITS	SURVEYED OR IDENTIFIED BY NA		
II. SOURCE DATA			
1. HORIZONTAL CONTROL IDENTIFIED		2. VERTICAL CONTROL IDENTIFIED	
None		None	
PHOTO NUMBER	STATION NAME	PHOTO NUMBER	STATION DESIGNATION
3. PHOTO NUMBERS (Clarification of details)			
71L(C) 150 ⁵ 1 -150 ¹² 7 , 71L(C) 151 ⁴ 1 -1515 & 71L(C) 1528			
4. LANDMARKS AND AIDS TO NAVIGATION IDENTIFIED			
None			
PHOTO NUMBER	OBJECT NAME	PHOTO NUMBER	OBJECT NAME
5. GEOGRAPHIC NAMES: <input type="checkbox"/> REPORT <input checked="" type="checkbox"/> NONE		6. BOUNDARY AND LIMITS: <input type="checkbox"/> REPORT <input checked="" type="checkbox"/> NONE	
7. SUPPLEMENTAL MAPS AND PLANS			
None			
8. OTHER FIELD RECORDS (Sketch books, etc. DO NOT list data submitted to the Geodesy Division)			
Map TP-00415 (Field Edit copy); and Field Edit Report, OPR-411-FA-74 , Map TP-00415 A.L.S.			

SOUNDINGS IN FATHOMS AT MEAN LOWER LOW WATER

NOTE B

Navigation regulations are published in Chapter 2, Coast Pilot 7 or subsequent yearly supplements and are available to Mariners at the office of the District Engineer, Corps of Engineers in Los Angeles, Calif. Anchorage Regulations may be obtained at the office of the Commander, 11th Coast Guard District, San Diego, Calif. Refer to section numbers shown with area designation.

NOTE C

Times of submarine transits will be published in the Eleventh Coast Guard District Bulletin (California) Local Notice to Mariners. Soundings are requested not to be submerged objects across transits in use.

CAUTION
Temporary changes or defects in data in this chart are indicated in this sheet.
See Notice to Mariners.

LOCAL

• D 11th
• D 11th
• D 11th

Official Mileage for Cost Accounts

Sheet No. Sq. Miles

TP-00392	2
TP-00393	4
TP-00394	2
TP-00395	1
TP-00396	1
TP-00397	3
TP-00398	1
TP-00399	4
TP-00400	2
TP-00401	1
TP-00402	1
TP-00403	1
TP-00404	3
TP-00405	2

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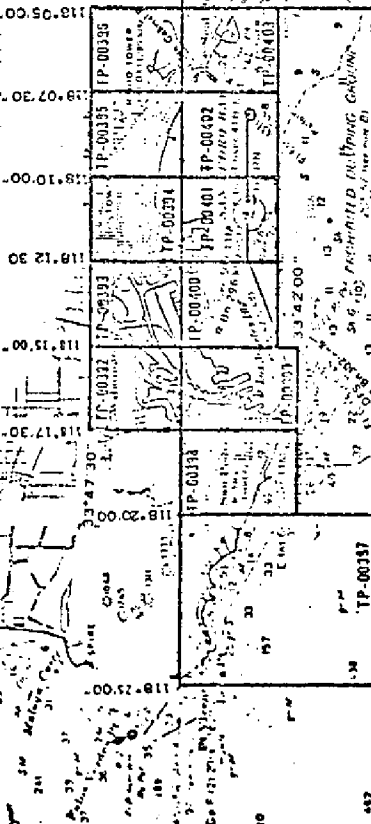
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422

LOMAN LINEAR INTERPOLATOR



JOB PH-7107
DANA POINT TO POINT VICENTE
CALIFORNIA
SHORELINE MAPPING
SCALE 1:50,000 & 1:100,000

Total 45

TP-00405

TP-00407

TP-00408

TP-00409

TP-00410

TP-00411

TP-00412

TP-00413

TP-00414

TP-00415

TP-00416

TP-00417

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TP-00626

TP-00627

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.

PHOTOGRAMMETRIC PLOT REPORT
Part 1
Dana Point to Point Vicente
California
Job FH-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:

<u>1:5,000 scale</u>	<u>1:10,000 scale</u>
TP-00406	TP-00404
TP-00407	TP-00405
TP-00408	TP-00412
TP-00409	TP-00413
TP-00410	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.

2

24. Supplemental Data

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

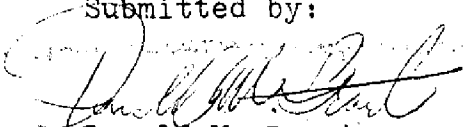
25. Photography

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

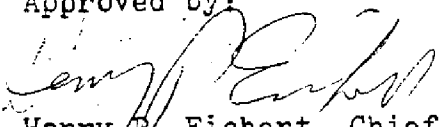
71-L(C)-1653 thru 1674

The definition and quality of photography was adequate.

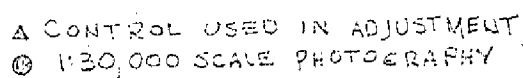
Submitted by:


Donald M. Brant

Approved by:


Henry P. Eichert, Chief
Aerotriangulation Section

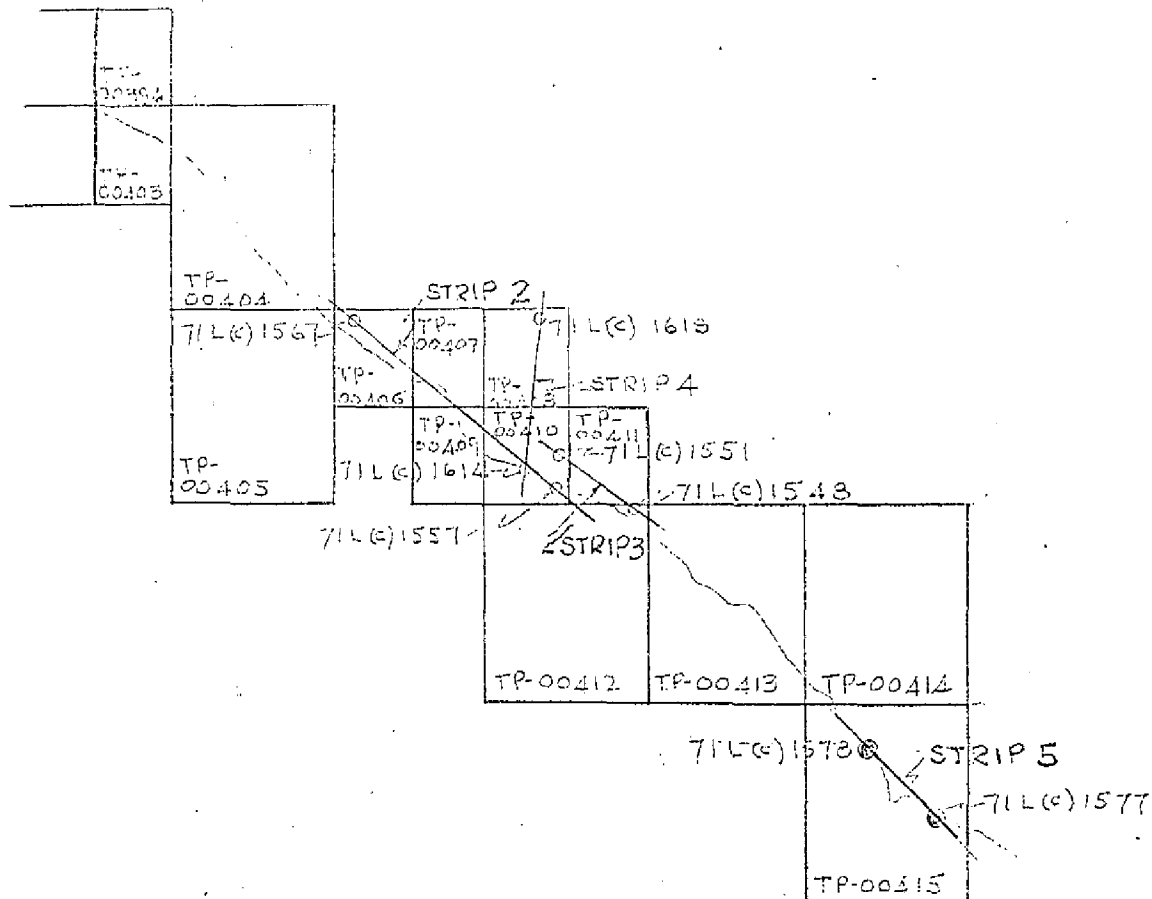
8c



JOB PH - 7107
DANA POINT TO POINT VICENTE
CALIFORNIA
SHORELINE MAPPING
SCALE 1:10,000 & 1:5,000

Sketch #2

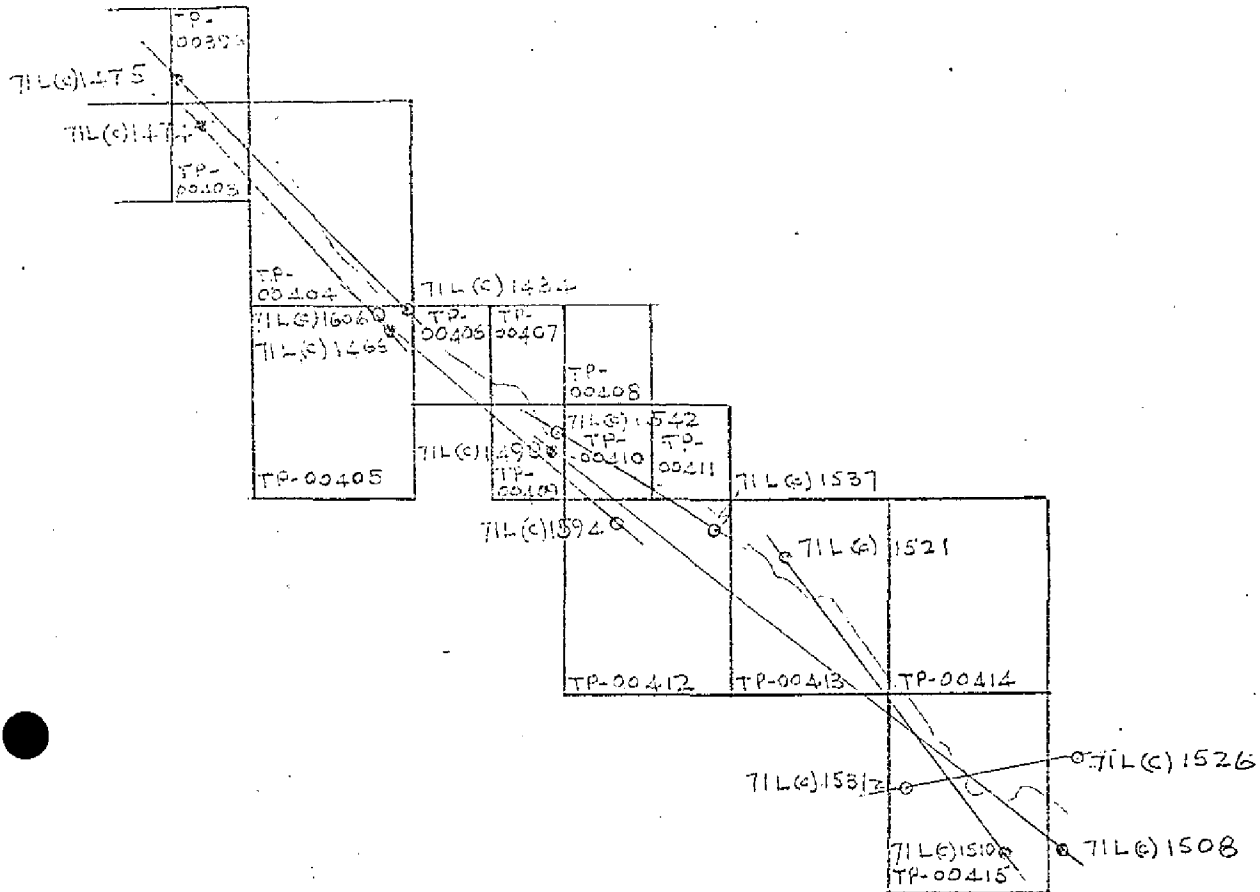
8.d



o 1:15,000 PHOTOGRAPHY

© 1:150,000 PHOTOGRAPHY

Sketch #3. 8°



○ 1:15,000 SCALE HYDRO SUPPORT PHOTOGRAPHY
 ○ 1:20,000 SCALE HYDRO SUPPORT PHOTOGRAPHY

DESCRIPTIVE REPORT CONTROL RECORD

MAP NO. TP-00415	JOB NO. PH-7107	SOURCE OF INFORMATION (Index)	AEROTRI- ANGULATION POINT NUMBER	GEODETIC DATUM NA 1927		COORDINATES IN FEET STATE California ZONE 6		GEOGRAPHIC POSITION ϕ LATITUDE λ LONGITUDE		ORIGINATING ACTIVITY Coastal Mapping Division, Norfolk, Va.	
				X=	Y=	X=	Y=	ϕ	λ	FORWARD	BACK
DANA POINT, 1884	331174 1008			X=		ϕ	33 27 51.097			1574.2 (274.3)	
				Y=		λ	117 42 30.169			779.1 (770.3)	
HOUSE CHIMNEY, NORTH OF MUSSEL COVE, 1933	331174 1038			X=		ϕ	33 29 56.342			1735.8 (112.7)	
				Y=		λ	117 44 32.501			838.9 (709.8)	
SOUTH NIGUEL, 1884	331174 1023			X=		ϕ	33 29 51.221			1578.0 (270.5)	
				Y=		λ	117 43 58.038			1498.1 (50.6)	
MUSSEL COVE 2, 1933	331174 1015			X=		ϕ	33 29 19.386			597.2 (1251.3)	
				Y=		λ	117 44 11.356			293.2 (1255.7)	
HOUSE WHITE TOWER, EAST OF MUSSEL COVE, 1933	331174 1039			X=		ϕ	33 29 33.481			1031.5 (817.0)	
				Y=		λ	117 44 12.052			311.1 (1237.8)	
SAN JUAN ROCKS, HIGHEST ROCK OF GROUP, 1933	331174 1047			X=		ϕ	33 27 25.609			789.0 (1059.5)	
				Y=		λ	117 42 46.085			1190.1 (359.4)	
DOHENEY, 1933	331174 1009			X=		ϕ	33 27 35.716			1100.3 (748.2)	
				Y=		λ	117 40 20.874			539.1 (1010.3)	
				X=		ϕ					
				Y=		λ					
				X=		ϕ					
				Y=		λ					
				X=		ϕ					
				Y=		λ					
				X=		ϕ					
				Y=		λ					
COMPUTED BY R. J. Pate			P276/71	COMPUTATION CHECKED BY F. P. Margiotta						DATE 12/6/71	
LISTED BY				LISTING CHECKED BY						DATE	
HAND PLOTTING BY				HAND PLOTTING CHECKED BY						DATE	

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

COMPILATION REPORT

TP-00415

31. DELINEATION:

The Wild B-8 Plotter was used. Photograph coverage was adequate. There was no field inspection prior to 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 shown 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 taken from infrared photography flown at mean lower low water.

The shore line from long. $117^{\circ}40'00''$ to long. $117^{\circ}41'15''$ is not in agreement with T-11864 RS 842 due to differences in photography and time.

36. OFFSHORE DETAILS:

None.

37. LANDMARKS AND AIDS:

Compilation office prepared work copies of Forms 76-40 were forwarded to the field editor for verification, location and/or deletion.

38. CONTROL FOR FUTURE SURVEYS:

No statement.

39. JUNCTIONS:

See form 76-36b.

40. HORIZONTAL AND VERTICAL ACCURACY:

No statement.

46. COMPARISON WITH EXISTING MAPS:

Comparison was made with USGS Quadrangle Dana Point, California, scale 1:24,000, dated 1968.

47. COMPARISON WITH NAUTICAL CHARTS:

Comparison was made with Chart No. 5142, 9th edition, scale 1:80,000, dated April 1971.

ITEMS TO BE APPLIED TO NAUTICAL CHARTS IMMEDIATELY:

None.

ITEMS TO BE CARRIED FORWARD:

None.

Submitted by:

Albert C. Rauck, Jr. For
R. J. Pate
Cartographic Tech.
December 8, 1971

Approved:

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

ADDENDUM TO THE COMPILATION REPORT

TP-00415

FIELD EDIT

Field edit data provided was adequate, but coverage of the area was incomplete. A second investigation was made in October, 1974, and the new edit was applied:

1.) The field editor noted that triangulation station Green Water Tank North-East of Dana Point, 1933 was destroyed and that the position for a new tank nearby was included in the horizontal control report for the project. This report could not be located, nor could a 76-40 form. The station was removed from the sheet.

2.) The field editor noted that a rock not located in the previous field edit was found with a wire drag, but no data was included with this information. He refers to Descriptive Report FA-10-1-74 OPR-411-1974, but this report was not available.

3.) In the Rockville office in March, 1977, discrepancies were found in the overlap area with T-11864 (2)-the maps did not junction properly. The maps were returned to the AMC, the error was corrected, and the maps were returned to Rockville on March 18, 1977. See Form 76-36b. ^{of} this report.

Joanne Roderick

June 16, 1978

GEOGRAPHIC NAMES

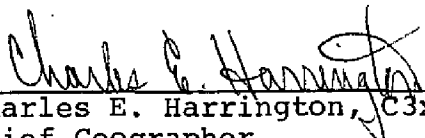
FINAL NAME SHEET

PH-7107, Dana Point to Point Vicente, California

TP-00415

Atchison Topeka and Santa Fe (RR)	Pacific Ocean
Capistrano Beach (locality)	Salt Creek
Capistrano Bight	San Juan Anchorage
Dana Cove	San Juan Creek
Dana Point	San Juan Rock
Dana Point (locality)	Serra
Dana Point Harbor	South Laguna
Gulf of Santa Catalina	Three Arch Bay (locality)
Mussel Cove	

Approved by:


Charles E. Harrington, JC3x8
Chief Geographer

NOAA FORM 75-74 (7-75)		U.S. DEPARTMENT OF COMMERCE NOAA NATIONAL OCEAN SURVEY	
PHOTOGRAMMETRIC OFFICE REVIEW TP - 00415			
1. PROJECTION AND GRIDS ALS	2. TITLE ALS	3. MANUSCRIPT NUMBERS ALS	4. MANUSCRIPT SIZE ALS
CONTROL STATIONS			
5. HORIZONTAL CONTROL STATIONS OF THIRD-ORDER OR HIGHER ACCURACY ALS	6. RECOVERABLE HORIZONTAL STATIONS OF LESS THAN THIRD-ORDER ACCURACY (Topographic stations) NA		7. PHOTO HYDRO STATIONS ALS
8. BENCH MARKS NA	9. PLOTTING OF SEXTANT FIXES NA	10. PHOTOGRAMMETRIC PLOT REPORT ALS	11. DETAIL POINTS ALS
ALONGSHORE AREAS (Nautical Chart Data)			
12. SHORELINE ALS	13. LOW-WATER LINE ALS	14. ROCKS, SHOALS, ETC. ALS	15. BRIDGES ALS
16. AIDS TO NAVIGATION ALS	17. LANDMARKS ALS	18. OTHER ALONGSHORE PHYSICAL FEATURES ALS	19. OTHER ALONGSHORE CULTURAL FEATURES ALS
PHYSICAL FEATURES			
20. WATER FEATURES ALS		21. NATURAL GROUND COVER NA	22. PLANETABLE CONTOURS NA
23. STEREOSCOPIC INSTRUMENT CONTOURS NA	24. CONTOURS IN GENERAL NA	25. SPOT ELEVATIONS NA	26. OTHER PHYSICAL FEATURES ALS
CULTURAL FEATURES			
27. ROADS ALS	28. BUILDINGS ALS	29. RAILROADS ALS	30. OTHER CULTURAL FEATURES ALS
BOUNDARIES			
31. BOUNDARY LINES NA		32. PUBLIC LAND LINES NA	
MISCELLANEOUS			
33. GEOGRAPHIC NAMES ALS		34. JUNCTIONS ALS	35. LEGIBILITY OF THE MANUSCRIPT ALS
36. DISCREPANCY OVERLAY ALS	37. DESCRIPTIVE REPORT ALS	38. FIELD INSPECTION PHOTOGRAPHS NA	39. FORMS ALS
40. REVIEWER <i>A. L. Shands</i> A. L. Shands		SUPERVISOR, REVIEW SECTION OR UNIT <i>Albert C. Rauck, Jr.</i> Albert C. Rauck, Jr.	
41. REMARKS (See attached sheet)			
FIELD COMPLETION ADDITIONS AND CORRECTIONS TO THE MANUSCRIPT			
42. Additions and corrections furnished by the field completion survey have been applied to the manuscript. The manuscript is now complete except as noted under item 43.			
COMPILER <i>J. F. Boderick</i> J. F. Boderick 8/75, S. Kumer 7/72, F. Margotta 8/75		SUPERVISOR <i>Albert C. Rauck, Jr.</i> Albert C. Rauck, Jr.	
Reviewed by: R.R. White 7/10/72			
43. REMARKS Field Edit Applied From: Field Edit Ozalid Field photos 71L(C) 1505 & 71L(C) 1515 Field edit re-applied 7/24/75, JDR field edit ozalid photos 71L(C) 1514, 1513, 1512			
SEE FORM 76-36C, ITEM #8			

FIELD EDIT REPORT
DANA POINT TO HUNTINGTON BEACH, CALIFORNIA
OPR 411
FALL 1974

INTRODUCTION

Field edit reports are attached for the following maps:

TP-00406	TP-00407	TP-00408	TP-00409	TP-00410
TP-00411	TP-00412	TP-00413	TP-00414	TP-00415

Copies of the field edit ozalids were taken to the field. In some cases only matte ratio prints were available for field use. These are usually very grainy and hard to handle due to paper stiffness and curl. They are far less valuable than the cronapaques or color cronapaques for field use. It is recommended that two copies, one processed and one unprocessed, of color cronapaque photographs be furnished to the ships for future projects. Sextant fixes, where necessary, were plotted on the film ozalids and transferred to the field edit ozalids. Height data for all rocks and shoreline is either written directly on the field edit ozalids, or referenced by fix number to the attached data sheets. Sextant fixes were transferred to boatsheets FA-5-1-74 and FA-5-2-74.

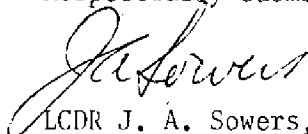
Notes were made in violet on the ozalids, with deletions in green and signal information in orange. All times are based on GMT.

Compilation of the maps is generally very good. Due to the small tide range (approx. 6 ft.), tide state for the aerial photography was relatively unimportant. All discrepancies on the manuscripts are noted. Throughout most of this area the shoreline is composed of regular, sandy beach. There is a bi-annual cycle of sand movement in this area making the establishment of the MHW the field editor's best judgement. During the winter months the sand migrates to seaward causing the MHW to move shoreward. During the spring and summer months sand is re-deposited to cause the MHW to move seaward.

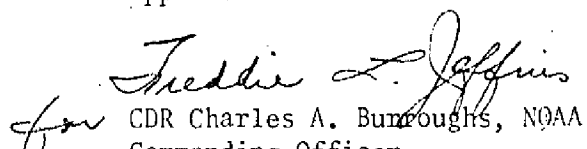
In some areas of manuscript discrepancy or where questions were asked of the field editor, photographs were taken to clarify the point in question. Feedback from personnel using these reports on the value of this practice would be appreciated.

It is recommended that the maps be revised in accordance with the notes on the ozalids and on the attached sheets before acceptance as advanced manuscripts. Field inspection of these maps is complete.

Respectfully submitted:


LCDR J. A. Sowers, NOAA

Approved and forwarded:


for CDR Charles A. Bunnoughs, NOAA
Commanding Officer
NOAA Ship FAIRWEATHER (MSS-20)

FIELD EDIT REPORT

MAP TP-00415

DANA POINT HARBOR, CALIFORNIA

OCTOBER 1974

Field edit of map TP-00415 was accomplished by Ltjg John Murphy during October 1974. Inspection was done from shore and in a skiff when surf conditions allowed.

METHOD

Field photographs and a copy of the field edit ozalid were examined in the field. Due to the excellent quality of the field photographs furnished, all positions are photogrammetric fixes. Positions are numbered on the ozalid and referenced to the photographs by these numbers. Position descriptions are also written on the backs of the photographs. The mean high water line was verified by visual comparison of the shore and the ozalid in the field. Annual sand movement in this area causes rocks and ledges to be exposed for part of the year and be partially covered with sand during the rest of the year. All times are based on GMT.


ADEQUACY OF COMPILATION

Compilation of this map is good. Field edit location of details compare well with photogrammetric location.

RECOMMENDATIONS

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

Respectfully submitted:



John Murphy
LTJG, NOAA

[illegible]

[illegible]

REVIEW REPORT
TP-00415

SHORELINE

61. GENERAL STATEMENT:

See Summary page 6 of this descriptive report.

The shoreline east of longitude 117° 41' 20" was traced from map T-11864(2). See Form 76-36B, page 2 of this descriptive report. This was done in order to affect a junction between this project and project PH-6702. None of the data used to compile that part of the shoreline was available at AMC during final review. It was noted by the field editor that the shoreline in the area is subject to change due to the seasonal erosion and deposition of sand.

The field editor indicated the existence of a new landmark water tank 150 ft. west of "Green Water Tank N.E. of Dana Point, 1933", which was destroyed. The Form 76-40 referred to by him on the field edit was never submitted to the compilation office (AMC). That form went directly to the Marine Chart Division and the data was applied to the affected chart.

The field editor also noted the existence of a submerged rock near the entrance to Dana Point Harbor. Data concerning its position and height was not submitted to the compilation office. It is contained in Descriptive Report FA-10-1-74, OPR-411-1974. The rock is not shown on the map.

Field edit was performed on this map in March, 1972 and October, 1974.

62. COMPARISON WITH REGISTERED TOPOGRAPHIC SURVEYS:

No comparison was made.

63. COMPARISON WITH MAPS OF OTHER AGENCIES:

No detailed comparison was made.

64. COMPARISON WITH CONTEMPORARY HYDROGRAPHIC SURVEYS:

Comparison was made with a copy of Verified Smoothsheets H-9274 (RA-5-1-72), H-9468 (FA-10-2-74) and H-9467 (FA-10-1-74). The mean high water line and mean lower low water line east of longitude 117° 41' 20" do not agree. The shoreline, shown on the map in that area was traced from T-11864(2) (PH-6702) which overlaps this map. See paragraph 61. These changes were made after the application of field edit but prior to final review. The Marine Surveys Division has been notified.

A statement by the field editor on the ozalid indicates that he was not able to locate the submerged ruins shown on the smoothsheet at latitude $33^{\circ}27.5'$, longitude $117^{\circ}40.3'$. These are not visible on the photos and are not shown on the map. Also the sewer outfall located east of the entrance to Dana Point Harbor is not visible on the photography and was not mapped.

Field edit was performed in two stages, March, 1972 and October, 1974. Different copies of "Class I maps" were forwarded to the Processing Division, PMC, in February, 1974 and August, 1975. None of the field edit data contained on the later copy was applied to H-9468. Consequently, the map shows rock heights, ledge and foul areas west of longitude $117^{\circ}43'00''$ that are not shown on H-9468. The Marine Surveys Division has been notified about these differences.

65. COMPARISON WITH NAUTICAL CHARTS:

Comparison was made with Chart 18746, 17th edition, dated March 19, 1977, scale 1:80,000, inset scale 1:20,000. Rocks awash charted at latitude $33^{\circ}27.3'$, longitude $117^{\circ}41.3'$ and latitude $33^{\circ}28.0'$, longitude $117^{\circ}43.0'$, two bare rocks just west of Sand Juan Rock, and the sewer line east of Dana Point Harbor are not visible on the photographs and were not mapped.

66. ADEQUACY OF RESULTS AND FUTURE SURVEYS:

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

Submitted by:

A. L. Shands

A. L. Shands
Final Reviewer
July 12, 1978

Approved for forwarding:

Bell H. Barnum

for Chief, Photogrammetric Branch, AMC

Approved:

John D. Perrow Jr.
Chief, Photogrammetric Branch

A. K. Thompson
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 Review.

[illegible]