

TP 00926

TP 00926

NOAA FORM 76-35 (3-76) U.S. DEPARTMENT OF COMMERCE NATIONAL OCEANIC AND ATMOSPHERIC ADMINISTRATION NATIONAL OCEAN SURVEY	
DESCRIPTIVE REPORT	
<i>Map No.</i> TP-00926	<i>Edition No.</i> 1
<i>Job No.</i> CM-7509	
<i>Map Classification</i> FINAL FIELD EDITED MAP	
<i>Type of Survey</i> SHORELINE	
LOCALITY	
<i>State</i> CALIFORNIA	
<i>General Locality</i> PORT HUENEME TO POINT CONCEPTION	
<i>Locality</i> VENTURA MARINA	
19 75 TO 19 77	
REGISTRY IN ARCHIVES	
DATE	

NOAA FORM 76-36A (3-72)		U. S. DEPARTMENT OF COMMERCE NATIONAL OCEANIC AND ATMOSPHERIC ADMIN.		TYPE OF SURVEY		SURVEY TP. 00926	
DESCRIPTIVE REPORT - DATA RECORD				☒ ORIGINAL		MAP EDITION NO. (1)	
				☐ RESURVEY		MAP CLASS FINAL	
				☐ REVISED		JOB PH CM-7509	
PHOTOGRAMMETRIC OFFICE				LAST PRECEDING MAP EDITION			
Coastal Mapping Unit, Norfolk, VA				TYPE OF SURVEY		JOB PH.	
OFFICER-IN-CHARGE				☐ ORIGINAL		MAP CLASS	
Jeffrey G. Carlen, CDR				☐ RESURVEY		SURVEY DATES:	
				☐ REVISED		19__ TO 19__	
I. INSTRUCTIONS DATED							
1. OFFICE				2. FIELD			
Aerotriangulation June 9, 1976				Premarking August 11, 1975			
Compilation June 8, 1976				Premarking-Supp.I January 7, 1976			
Amendment I July 21, 1976							
Amendment II Oct. 29, 1976							
Review and Registration Memo July 10, 1976							
Review and Registration Memo Oct. 24, 1983							
II. DATUMS							
1. HORIZONTAL: ☒ 1927 NORTH AMERICAN				OTHER (Specify)			
2. VERTICAL: ☒ MEAN HIGH-WATER ☐ MEAN LOW-WATER ☒ MEAN LOWER LOW-WATER ☐ MEAN SEA LEVEL				OTHER (Specify)			
3. MAP PROJECTION				4. GRID(S)			
Lambert Conformal Conic				STATE California		ZONE 5	
5. SCALE 1:10,000				STATE		ZONE	
III. HISTORY OF OFFICE OPERATIONS							
OPERATIONS				NAME		DATE	
1. AEROTRIANGULATION BY				S. Solbeck		June 1976	
METHOD: Analytic LANDMARKS AND AIDS BY							
2. CONTROL AND BRIDGE POINTS PLOTTED BY				H. Jones		July 1976	
METHOD: Coradomat CHECKED BY				H. Jones		July 1976	
3. STEREOSCOPIC INSTRUMENT PLANIMETRY BY				C. Blood		Oct. 1976	
COMPILATION CHECKED BY				J. Byrd, L. Neterer, Jr.		Oct. 1976	
INSTRUMENT: Wild B-8 CONTOURS BY				N.A.			
SCALE: 1:10,000 CHECKED BY				N.A.			
4. MANUSCRIPT DELINEATION PLANIMETRY BY				J. Hancock		Nov. 1976	
CHECKED BY				F. Margiotta		Nov. 1976	
METHOD: Smooth drafted and CONTOURS BY				N.A.			
graphic CHECKED BY				N.A.			
SCALE: 1:10,000 HYDRO SUPPORT DATA BY				J. Hancock		Nov. 1976	
CHECKED BY				F. Margiotta		Nov. 1976	
5. OFFICE INSPECTION PRIOR TO FIELD EDIT BY				F. Margiotta		Nov. 1976	
6. APPLICATION OF FIELD EDIT DATA BY				J. Roderick		July 1978	
CHECKED BY				L. Neterer, Jr.		Sept. 1978	
7. COMPILATION SECTION REVIEW BY				L. Neterer, Jr.		Sept. 1978	
8. FINAL REVIEW FINAL MAP BY				J. Hancock		Jan. 1984	
9. DATA FORWARDED TO PHOTOGRAMMETRIC BRANCH BY				J. Hancock		Jan. 1984	
10. DATA EXAMINED IN PHOTOGRAMMETRIC BRANCH BY				G Fromm		Feb. 1984	
11. MAP REGISTERED - COASTAL SURVEY SECTION BY				R. Thompson		May 1984	

TP-00926
COMPILATION SOURCES

1. COMPILATION PHOTOGRAPHY

CAMERA(S) "B"=152.74mm; "Z"=153.14mm
Wild RC-10 "B" and "Z"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
75 Z(C) 7899 - 7901#	Oct. 7, 1975	11:58	1:30,000	0.8 ft. above M.H.W.
76 B(I) 2788 - 2790*	Mar. 15, 1976	10:04	1:30,000	±0.2 ft. of M.H.W.
76 B(I) 2315 - 2316**	Mar. 12, 1976	14:43	1:30,000	±0.2 ft. of M.L.L.W.
76 B(I) 2322	Mar. 12, 1976	14:50	1:30,000	±0.2 ft. of M.L.L.W.
				Mean Range = 4.6 ft.

REMARKS #Bridge and compilation photography based on predicted tides.

*Tide coordinated infrared hydro support photography at M.H.W.

**Tide coordinated infrared hydro support photography at M.L.L.W.

2. SOURCE OF MEAN HIGH-WATER LINE:

*The M.H.W. line was compiled graphically from the tide coordinated infrared ratio photographs.

M.H.W. PHOTOS

2788 - 2790

RATIO VALUE

2.975

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

**The M.L.L.W. line was compiled graphically from the tide coordinated infrared ratio photographs.

M.L.L.W. PHOTOS

2315 - 2316

2322

RATIO VALUE

2.975

2.971

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-00925	CM-7404 TP-00777 1:10,000	No Survey	No Survey

REMARKS

TP-00926

HISTORY OF FIELD OPERATIONS

I. ☒ FIELD INSPECTION OPERATION (Premarking) ☐ FIELD EDIT OPERATION

OPERATION	NAME	DATE
1. CHIEF OF FIELD PARTY	R. Melby	Sept. 1975
2. HORIZONTAL CONTROL	RECOVERED BY R. Melby	Sept. 1975
	ESTABLISHED BY R. Melby	Sept. 1975
	PRE-MARKED OR IDENTIFIED BY R. Melby, L. Riggers	Sept. 1975
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 None	
	LOCATED (Field Methods) BY None	
	IDENTIFIED BY None	
5. GEOGRAPHIC NAMES INVESTIGATION	TYPE OF INVESTIGATION ☐ COMPLETE ☐ SPECIFIC NAMES ONLY ☒ NO INVESTIGATION	
6. PHOTO INSPECTION	CLARIFICATION OF DETAILS BY None	
7. BOUNDARIES AND LIMITS	SURVEYED OR IDENTIFIED BY N.A.	

II. SOURCE DATA

1. HORIZONTAL CONTROL IDENTIFIED PREMARKED

2. VERTICAL CONTROL IDENTIFIED

None

PHOTO NUMBER	STATION NAME	PHOTO NUMBER	STATION DESIGNATION
75Z(C) 7999	TEAL 2, 1959 (Sub.Pt. paneled)		
75Z(C) 7901	SANDY 3, 1959 (Paneled direct)		

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: ☐ REPORT ☒ NONE6. BOUNDARY AND LIMITS: ☐ REPORT ☒ NONE

7. SUPPLEMENTAL MAPS AND PLANS

None

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

2 Forms 76-53, 2 C&GS Forms 277 (Tide level Vols.) for project

TP-00926

HISTORY OF FIELD OPERATIONS

I. ☐ FIELD INSPECTION OPERATION☒ FIELD EDIT OPERATION

OPERATION	NAME	DATE
1. CHIEF OF FIELD PARTY	J. Randal	Oct. - Dec. 1977
2. HORIZONTAL CONTROL	RECOVERED BY S. Miller	Oct. 1977
	ESTABLISHED BY None	
	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 S. Miller	Oct. 1977
	LOCATED (Field Methods) BY *M. Molchan, S. Miller	Oct-Dec 1977
	IDENTIFIED BY *M. Molchan, S. Miller	Oct-Dec 1977
5. GEOGRAPHIC NAMES INVESTIGATION	TYPE OF INVESTIGATION ☐ COMPLETE ☐ SPECIFIC NAMES ONLY ☒ NO INVESTIGATION	
6. PHOTO INSPECTION	CLARIFICATION OF DETAILS BY M. Molchan	Oct. 1977
7. BOUNDARIES AND LIMITS	SURVEYED OR IDENTIFIED BY N/A.	

II. SOURCE DATA

1. HORIZONTAL CONTROL IDENTIFIED

None

2. VERTICAL CONTROL IDENTIFIED

None

PHOTO NUMBER	STATION NAME	PHOTO NUMBER	STATION DESIGNATION

3. PHOTO NUMBERS (Clarification of details)

76 B(I) 2789 (1:10,000 ratio)

4. LANDMARKS AND AIDS TO NAVIGATION IDENTIFIED

*Four navigational aids located by field methods and identified on Ratio Photo 76 B(I) 2789. Field observations submitted with hydrographic data.

PHOTO NUMBER	OBJECT NAME	PHOTO NUMBER	OBJECT NAME
76 B(I)2789	VENTURA MARINA BREAKWATER NORTH LIGHT	76 B(I)2789	VENTURA MARINA NORTH JETTY LIGHT 7
76 B(I)2789	VENTURA MARINA BREAKWATER SOUTH LIGHT 3		
76 B(I)2789	VENTURA MARINA SOUTH JETTY LIGHT 6		

5. GEOGRAPHIC NAMES: ☐ REPORT ☒ NONE6. BOUNDARY AND LIMITS: ☐ REPORT ☒ NONE

7. SUPPLEMENTAL MAPS AND PLANS

Figure IC - Offshore Marine Pipeline at Mandalay Beach
Figure 1 - Standard Oil Sewer Pipeline

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

1 Film Field Edit Print, 2 Forms 76-40, 1 Field Edit Report,
1 Page Unadjusted Field Geographic Positions

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

TP-00926

HISTORY OF FIELD OPERATIONS

1. ☐ FIELD INSPECTION OPERATION☒ FIELD EDIT OPERATION

OPERATION	NAME	DATE
1. CHIEF OF FIELD PARTY	B. Williams	Feb. - Mar. 1978
2. HORIZONTAL CONTROL	RECOVERED BY B. Williams	Feb-Mar 1978
	ESTABLISHED BY None	
	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 J. P. Quinlan	Feb. 1978
	LOCATED (Field Methods) BY None	
	IDENTIFIED BY None	
5. GEOGRAPHIC NAMES INVESTIGATION	TYPE OF INVESTIGATION ☐ COMPLETE ☐ SPECIFIC NAMES ONLY ☒ NO INVESTIGATION	
6. PHOTO INSPECTION	CLARIFICATION OF DETAILS BY None	
7. BOUNDARIES AND LIMITS	SURVEYED OR IDENTIFIED BY N.A.	

II. SOURCE DATA

1. HORIZONTAL CONTROL IDENTIFIED

None

2. VERTICAL CONTROL IDENTIFIED

None

PHOTO NUMBER

STATION NAME

PHOTO NUMBER

STATION DESIGNATION

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:

☐ REPORT☒ NONE

6. BOUNDARY AND LIMITS:

☐ REPORT☒ NONE

7. SUPPLEMENTAL MAPS AND PLANS

None

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

1 - Film Field Edit Print

1 C&GS Form 275 (Hor. Vol.)

11 - Field Edit Report

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

TP-00926

RECORD OF SURVEY USE

I. MANUSCRIPT COPIES

COMPILATION STAGES			DATE MANUSCRIPT FORWARDED	
DATA COMPILED	DATE	REMARKS	MARINE CHARTS	HYDRO SUPPORT
Compilation complete pending field edit	Nov. 1976	Class III manuscript Superseded	Nov. 1976	Nov. 1976
Field edit applied. Compilation complete.	Sept. 1978	Class I manuscript	Sept. 1978	Sept. 1978
Final Review	Jan. 1984	Final Map	Feb. 1984	Feb 1984

II. LANDMARKS AND AIDS TO NAVIGATION

1. REPORTS TO MARINE CHART DIVISION, NAUTICAL DATA BRANCH

PAGES NUMBER	CHART LETTER NUMBER ASSIGNED	DATE FORWARDED	REMARKS
.1		Sept. 1978	Landmark to be charted
1		Sept. 1978	Aids to navigation to be charted
2		Feb. 1984	Landmarks and Aids for charts (positions remain as previously submitted)

2. ☐ REPORT TO MARINE CHART DIVISION, COAST PILOT BRANCH. DATE FORWARDED: _____3. ☐ REPORT TO AERONAUTICAL CHART DIVISION, AERONAUTICAL DATA SECTION. DATE FORWARDED: _____

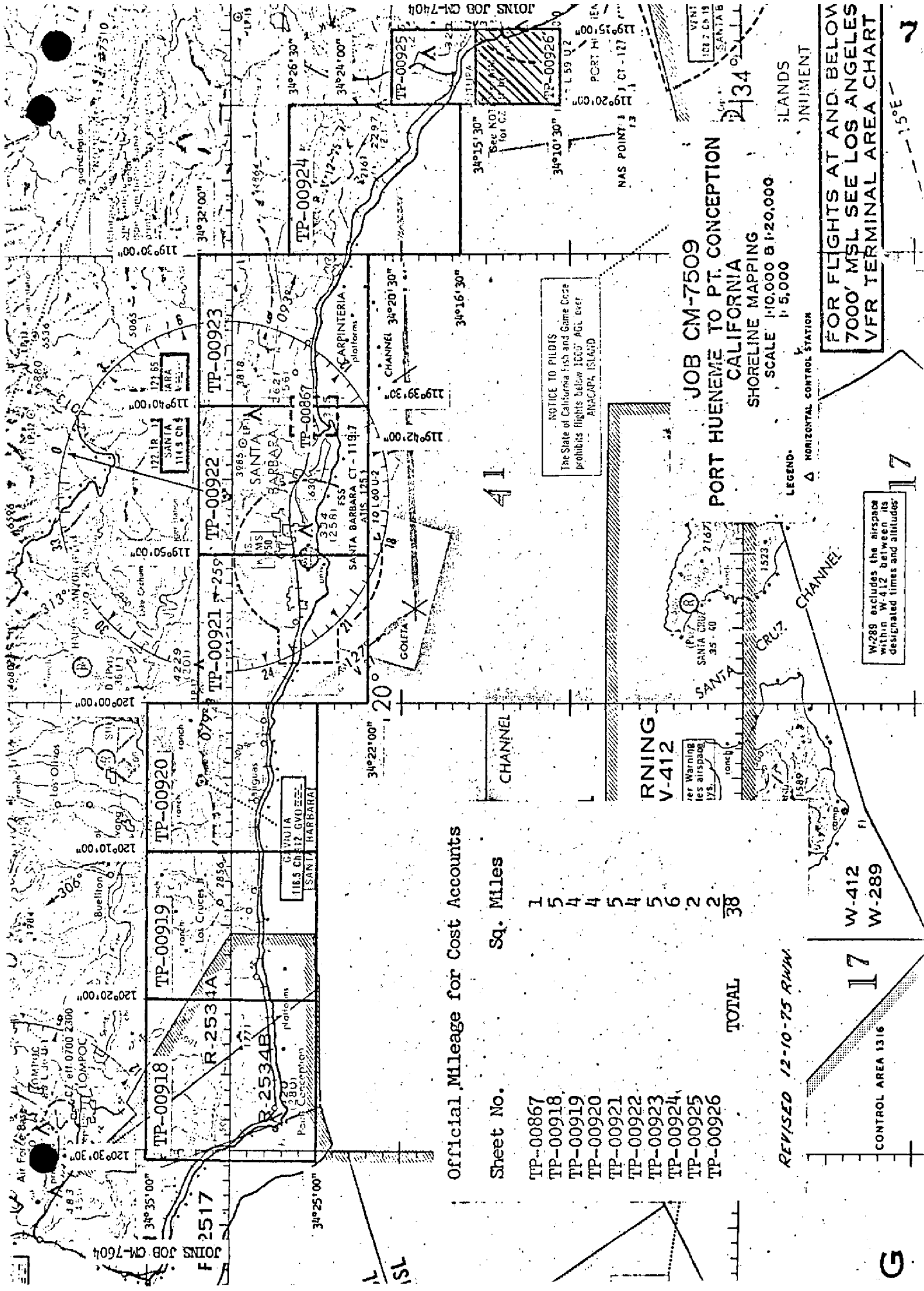
III. FEDERAL RECORDS CENTER DATA

1. ☒ BRIDGING PHOTOGRAPHS; ☒ DUPLICATE BRIDGING REPORT; ☒ COMPUTER READOUTS.
 2. ☒ CONTROL STATION IDENTIFICATION CARDS; ☒ FORM NOS ⁷⁶⁻⁴⁹~~367~~ SUBMITTED BY FIELD PARTIES.
 3. ☒ SOURCE DATA (except for Geographic Names Report) AS LISTED IN SECTION II, NOAA FORM 76-36C.
 ACCOUNT FOR EXCEPTIONS: _____

4. ☐ DATA TO FEDERAL RECORDS CENTER. DATE FORWARDED: March 1984

IV. SURVEY EDITIONS (This section shall be completed each time a new map edition is registered)

SECOND EDITION	SURVEY NUMBER TP - _____ (2)	JOB NUMBER PH - _____	TYPE OF SURVEY ☐ REVISED ☐ RESURVEY MAP CLASS ☐ II. ☐ III. ☐ IV. ☐ V. ☐ FINAL
	DATE OF PHOTOGRAPHY	DATE OF FIELD EDIT	
THIRD EDITION	SURVEY NUMBER TP - _____ (3)	JOB NUMBER PH - _____	TYPE OF SURVEY ☐ REVISED ☐ RESURVEY MAP CLASS ☐ II. ☐ III. ☐ IV. ☐ V. ☐ FINAL
	DATE OF PHOTOGRAPHY	DATE OF FIELD EDIT	
FOURTH EDITION	SURVEY NUMBER TP - _____ (4)	JOB NUMBER PH - _____	TYPE OF SURVEY ☐ REVISED ☐ RESURVEY MAP CLASS ☐ II. ☐ III. ☐ IV. ☐ V. ☐ FINAL
	DATE OF PHOTOGRAPHY	DATE OF FIELD EDIT	



Official Mileage for Cost Accounts

Sheet No. Sq. Miles

TP-00867	1
TP-00918	5
TP-00919	4
TP-00920	4
TP-00921	5
TP-00922	4
TP-00923	5
TP-00924	6
TP-00925	2
TP-00926	2
TOTAL	38

REVISED 12-10-75 RHN

W-412
W-289

CONTROL AREA 1316

JOB CM-7509
PORT HUENEME TO PT. CONCEPTION
CALIFORNIA
SHORELINE MAPPING
SCALE 1:10,000 & 1:20,000
LANDS
INUMENT

FOR FLIGHTS AT AND BELOW
7000' MSL SEE LOS ANGELES
VFR TERMINAL AREA CHART

LEGEND:

△ HORIZONTAL CONTROL STATION

W-289 excludes the airspace
within W-412 between
designated times and altitudes

NOTICE TO PILOTS
The State of California Fish and Game Code
prohibits flights below 1000' AGL over
ANACAPA ISLAND

G

17

15°E

SUMMARY TO ACCOMPANY
DESCRIPTIVE REPORT

TP-00926

This 1:10,000 scale final shoreline map is one of ten maps that comprise project CM-7509, Port Hueneme to Point Conception, California. The project consists of seven 1:20,000 scale maps (TP-00918 thru TP-00924), two 1:10,000 scale maps (TP-00925 and TP-00926), and one 1:5,000 scale inset map (TP-00867).

The purpose of this project was to furnish shoreline support data for hydrographic operations and to provide current charting information for nautical chart maintenance.

This final field edited map defines the southeast limit for the project. Shoreline coverage extends from Ventura Marina to Mandalay Beach. A small portion of shoreline was delineated beyond the eastern map limit at Mandalay Beach in order to junction with adjoining project CM-7404.

Field work prior to compilation was accomplished in October 1975 and March 1976. This involved the establishment of horizontal control by premarking methods in order to meet aerotriangulation requirements. In addition, ground support was provided to assist in obtaining MHW and MLLW tide coordinated photography.

Photo coverage for the project was adequately provided by natural color and tide coordinated black and white photography. The bridging/ compilation photographs consisted of 7 flight strips taken at scales of 1:15,000, 1:30,000 and 1:60,000 with natural color film. Four strips were taken with the "Z" camera in October 1975 and three strips were taken with the "B" camera in March 1976. Tide coordinated MHW infrared photographs were taken in October 1975 with the "E" camera and in March 1976 with the "B" camera. Tide coordinated MLLW infrared photographs were taken in March 1976 with the "B" camera. All tide coordinated photography was taken at 1:15,000 and 1:30,000 scales.

Analytic aerotriangulation was adequately provided by the Washington Science Center in June 1976. Aerotriangulation activity also included ruling the base manuscripts and determining ratio values of the photos necessary for graphic compilation.

Compilation, based upon photo interpretation, was performed by the Coastal Mapping Section at the Atlantic Marine Center in November 1976. Class III data was forwarded to the Pacific Marine Center for proposed field edit and hydrographic activity.

SUMMARY REPORT TP-00926

Field edit was accomplished in conjunction with hydrographic survey H-9725 and H-9741. South of Lat. $34^{\circ}14.4'$, field edit was performed in October 1977 by personnel attached to NOAA Ship RAINIER. The remaining portion of this map, which features Ventura Marina, was edited in February 1978 by personnel from the NOAA Ship FAIRWEATHER.

Final Review was performed at the Atlantic Marine Center in January 1984. A Chart Maintenance Print was prepared and forwarded to the Marine Chart Branch. Also, a "Notes to Hydrographer" was prepared and forwarded to the Hydrographic Survey Branch for their records.

This Descriptive Report contains all pertinent information used to compile this Final shoreline map. The original base manuscript and all pertinent data were forwarded to the Washington Science Center for final registration.

FIELD INSPECTION

TP-00926

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

Photogrammetric Plot Report
Port Hueneme to Point Conception, California
CM-7509
June 1976

21. Area Covered

The area covered by this report is the southern California shoreline from Point Conception to the norther part of Port Hueneme. This area is covered by seven, 1:20,000 scale sheets (TP-00918 through TP-00924), two 1:10,000 scale sheets (TP-00925 and TP-00926), and one 1:5,000 scale sheet (TP-00867).

22. Method

Seven strips of color photography (one 1:60,000, five 1:30,000, one 1:15,000) were bridged by analytic aerotriangulation methods.

Common points were located on the bridging photography and all photography being used for ratio purposes. Tie points were used on all bridging photography to ensure adequate junctioning during the strip adjustment. Ratio prints were ordered. The T-sheet manuscripts were plotted on the Coradomat.

23. Adequacy of Control

The control proved adequate except one station, (RATA, 1975) which had an excessive error in the "X" direction and could not be rectified. With all other control being good, the station was dropped from the adjustment.

One strip of bridging photography (752(C)7858 through 7865) proved difficult to measure due to poor overlap and excessive swing in the flight line.

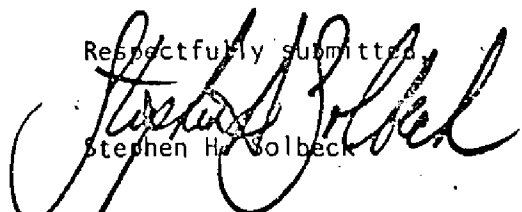
24. Supplemental Data

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

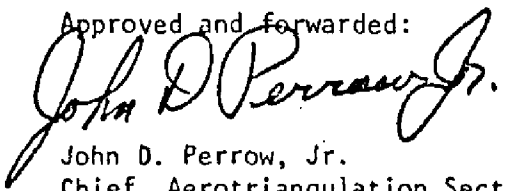
25. Photography

The coverage, overlap, and quality of the photography, in general, was adequate for the job.

Respectfully submitted,


Stephen H. Volbeck

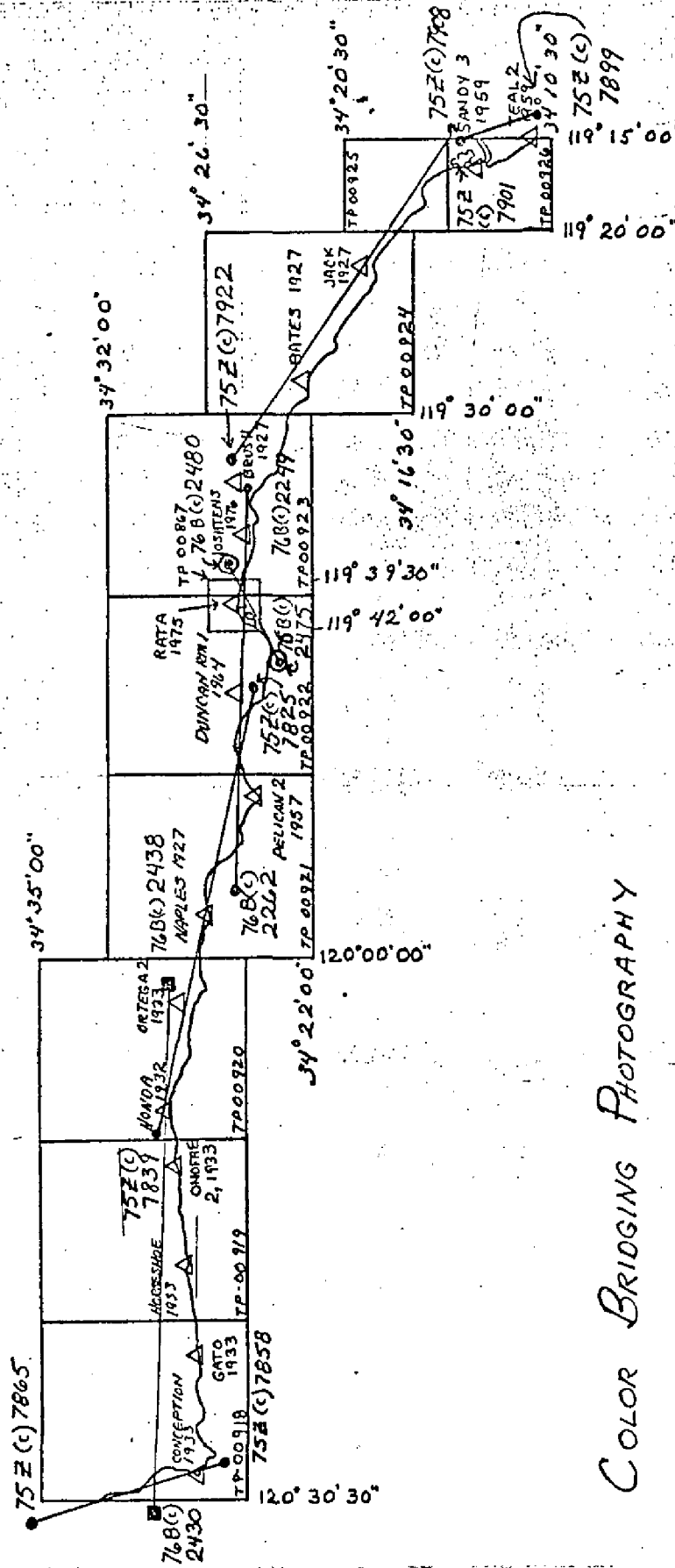
Approved and forwarded:


John D. Perrow, Jr.
Chief, Aerotriangulation Section

POST HUMAN ME TO PUNT CONCEPTION, CALIF.

7509

HEROTRIANGULATION SKETCH



COLOR BRIDGING PHOTOGRAPHY

- 1:60000
 ● 1:30000
 ◎ 1:15000

LIST OF ACCURACY OF CONTROL USE IN THE STRIP ADJUSTMENT

	POINT	X error (ft)	Y error (ft)
STRIP #1	899101 (TEAL 2, 1959) (SUB PT)	+ .001	- .001
	901100 (SANDY 3) (1959)	- .000	+ .001
STRIP #2	900801 (TO STRIP #1)	+ .059	- .154
	900802 (TO STRIP #1)	+ .932	- 1.286
	900803 (TO STRIP #1)	- .020	- 1.005
	901100 (SANDY 3) (1959)	+ .069	- .300
	914100 (JACK) (1927)	- .434	+ 1.064
	918100 (BATES) (1927)	+ .622	- .887
	922101 (BRUSH, 1927) (SUB PT)	- .220	+ .400
STRIP #3	921801 (TO STRIP #2)	- 1.380	+ .047
	921802 (TO STRIP #2)	- .611	- .902
	922101 (BRUSH, 1927) (SUB PT)	+ 1.056	+ 1.589
	251100 (JOSHTEENS, 1976)	- 1.891	- 2.649
	477110 (STEPHENS WHARF) (LT #4, 1975)	- 1.991	+ .075
	478101 (RATA 1975) (SUB PT)	- 21.316	+ .050
	254110 (JEFFERSON SCHOOL) (TOWER, 1933)	- 4.615	- 8.326
	255110 (SANTA BARBARA MISSION) (SOUTH TOWER, 1862)	- 2.027	+ 2.520
	255111 (ST ANTHONY'S SEMINARY) (CROSS ON CORNER, 1927)	+ 1.472	- 1.647
	256101 (DUNCAN REFERENCE) (MARK #1, 1964)	+ 1.096	+ 1.054
	258110 (KTMS NORTH RADIO) (TOWER 1938)	+ .280	+ .424
	258111 (KTMS SOUTH RADIO) (TOWER 1938)	+ 1.077	+ .079
	259101 (PELICAN 2, 1957) (SUB PT)	- .520	- .771

Pt. Hueneme to Pt. Conception

CM-7509

August 1976

. Supplement to Photogrammetric Plot Report

The final strip of CM-7509 was tied into Job CM-7604 well within National Map Accuracy Standards. The final manuscript (TP-00918) was plotted on the coradomat and forwarded. All ratio prints pertaining to this manuscript have been ordered.

COMPILATION REPORT

TP-00926

31 - DELINEATION

Delineation was accomplished using stereo instrument and graphic compilation methods. The 1:30,000 scale color photography was set on the Wild B-8 stereoplotter. The interior details and alongshore features were delineated at this time. Points common to the 1:10,000 infrared ratio photographs were selected and positioned to allow the graphic compilation of the mean high and mean lower low water lines.

All photographs used to compile this map were adequate and are listed on NOAA Form 76-36B.

To the east of this map limit (Long. 119°15.0') is detail compiled which joins with project CM-7404, map TP-00777. Since the map limit for TP-00777 did not extend north (Lat. 34°12.0') enough to complete a junction, shoreline detail was delineated on this map.

32 - CONTROL

Horizontal control was adequate. Refer to the attached Photogrammetric Plot Report dated June 1976.

33 - SUPPLEMENTAL DATA

A comparison was made with H.S. 5419, 5420, T.S. 4824, 4847, dated 1933 for the purpose of calling attention to the hydrographer items to be investigated.

34 - CONTOURS AND DRAINAGE

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

35 - SHORELINE AND ALONGSHORE DETAILS

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

The mean high and mean lower low water lines were graphically delineated from the infrared ratio photographs.

36 - OFFSHORE DETAILS

No unusual problems.

37 - LANDMARKS AND AIDS

Within the limits of the manuscript, there were four charted aids, which were located photogrammetrically and one charted landmark, which was triangulation.

38 - CONTROL FOR FUTURE SURVEYS

None.

39 - JUNCTIONS

Refer to Data Record Form 76-36B, item #5 of the Descriptive Report.

40 - HORIZONTAL AND VERTICAL ACCURACY

See Item Number 32.

46 - COMPARISON WITH EXISTING MAPS

A comparison has been made with the following U.S. Geological Survey Quadrangle: Oxnard, CA, scale 1:24,000, dated 1949 and photorevised 1967.

47 - COMPARISON WITH NAUTICAL CHARTS

A comparison has been made with the following National Ocean Survey charts: No. 18720, scale 1:232,188, dated September 6, 1975, 18th edition; and, No. 18725, scale 1:50,000, dated November 1, 1975, 14th edition.

ITEMS TO BE APPLIED TO NAUTICAL CHARTS IMMEDIATELY

None.

ITEMS TO BE CARRIED FORWARD

None.

Submitted by,

J. Hancock

J. Hancock

Cartographer

November 1976

Approved,

James L. Byrd, Jr. for
Albert C. Rauck, Jr.
Chief, Coastal Mapping Unit

ADDENDUM TO THE COMPILATION REPORT

TP-00926

Field edit was accomplished in two segments by separate field parties. North of Lat. 39°14.4', field edit was performed in February 1978 by personnel aboard NOAA Ship FAIRWEATHER. The southern portion of the map was field edited in October 1977 by personnel aboard NOAA Ship RAINIER.

An individual field report and field edit print was submitted by each field unit. The field edit was adequate.

FIELD EDIT REPORT

TP-00926

JOB CM-7509

OPR-411-RA-77

Port Hueneme to Point Conception, California

Mandalay Beach to Ventura Marina

1 FIELD UNIT

OCTOBER 26-30, 1977

(JD 290 - 294)

51 METHODS

All shoreline delineated on TP-00926 was verified on foot. Greenwich Mean Time (local time + 8 hours) was used to reference the heights of shoreline features. Black and white photograph 76B(1)2786 and Master Field Edit Ozalid TP-00926 include shoreline and topographic notes using colors with the following acceptable meanings: violet - verification of features, red - additions or revisions of features, green - deletion of features.

Field edit was not completed in the vicinity of Ventura Harbor bounded by Lat. $34^{\circ} 14' 22''\text{N}$ to $34^{\circ} 15' 30''\text{N}$ (the northernmost edge of the T-sheet) and Lon. $119^{\circ} 15' 18''\text{W}$ to $119^{\circ} 16' 24''\text{W}$. The harbor is to be surveyed at a scale of 1:5000. Materials for field edit were not provided at the needed scale and therefore must be conducted concurrently with hydrographic survey operations.

52 ADEQUACY OF COMPILATION

The compilation of manuscript TP-00926 is complete and adequate. Compilation of MHWL was excellent requiring no changes. For further information refer to Hydrographic Descriptive Report, H-9725, RA-20-1-77.

53 MAP ACCURACY

There are two charted pipelines on TP-00926. The charted location of the northernmost pipeline, located offshore of Ventura Harbor, was verified by Union Oil officials at their Ventura office. The southernmost pipeline and its adjacent features are shown in Figure 2. This diagram was furnished by Mandalay Steam Station and is included in the separates following the text. Hydrography was also run in this area. The diagram mentioned above aided the hydrographer in locating the pipeline, anchor buoys, and hose end, however, the hydrographer's Geographic Positions on these features differed slightly from those positions on the diagram. For more accurate positioning on the pipeline and its adjacent features refer to H-9725.

An additional uncharted sewer pipeline owned by Standard Oil was located at an approximate latitude of $34^{\circ} 13' 07''\text{N}$. The sewerline extends approximately 100 feet seaward of the Mean High Water Line in a direction parallel to GONZALES ROAD and is drawn on the T-sheet. Refer to Figure 1 (furnished by Standard Oil) for more accurate positioning. This pipeline is not visible at Mean Lower Low Water.

The shoreline surrounding the Santa Clara River mouth was inspected at both extreme high and low tides. At MLLW the river is impounded by a sand spit. This same area was inspected at high tide during a period of unusually large swell (10'-15'). Waves were breaking and washing over the entire spit from Lat. $34^{\circ} 13' 54''\text{N}$ to Lat. $34^{\circ} 14' 18''\text{N}$. There is a depression centered on the sand spit which allowed water to flow freely from the river to the ocean at

high tide.(refer to photo 2789). The spit is subject to frequent change.

The RAINIER's horizontal control officer geodetically located four navigational lights in Ventura Marina Entrance. The geographic positions of these lights are included in the 76-40 form following the text of this report.

54 RECOMMENDATIONS

None.

Respectfully submitted,

Lewis G. Sapine, LCDR, NOAA
Operations Officer

for Marianne Molchan, LT(jg)
Field Edit Officer

Approved by:

James P. Randall
James P. Randall, Capt., NOAA
Commanding Officer

Field Edit Report
Ventura, California
TP-00926

GENERAL

This report covers the portion of topographic manuscript TP-00926 in and immediately surrounding Ventura Marina and Ventura Keys north of latitude $34^{\circ} 14' 23''$. Field work is complete for this portion.

The beach area outside Ventura Marina is generally sandy with some scattered rocks and slopes regularly. The entrance to the marina is to be dredged in the near future. The marina is rather open but will soon be more congested as new piers and structures are added. The keys are lined with private dwellings and small piers, new ones being continually added.

METHOD

Field edit was performed by LTJG Robert Crowell and ENS Mark Finke during the months of February and March, 1978. Work was done from shore and from an inflatable skiff.

Copies of the field edit ozalids and photographs were examined in the field. General features and details were verified by visual comparison of the photographs and the areas concerned.

Only 4 fixes were taken to locate the ends of new piers in the marina. Positions were determined from taped distances and sextant angles. No signals were used. All fix information is included in the data volume.

ADEQUACY OF COMPILATION

Office compilation was generally satisfactory in the area concerned, though several areas labelled as bulkheads were only rip rap. In addition, the submerged obstruction at $34^{\circ} 14' 27''$, $119^{\circ} 16' 00''$, which was supposedly taken from the chart, is not depicted on the chart. It is a 0.2 fathom sounding, the symbol for zero being mistaken for a symbol for a submerged object.

MANUSCRIPT ACCURACY

The positions of stations SANDY 3 1959, BENCH MARK VS84 1959 and QUAY 1978 compared well with surrounding features.

NAVIGATIONAL AIDS

Both lights on the outer breakwater were damaged in storms immediately prior to work covered by this report. Repairs are intended and it is possible that the lights will not be replaced in exactly the positions determined previously. In addition, the numbers indicated for the lights on the manuscript are incorrect. Changes are noted.

MISCELLANEOUS

The possible islet between the outer breakwater and the north jetty was not seen to bare. However, a shoal does exist there and might bare at very low tides. No sounding lines were run in the area to delineate the shoal limits. However, very rough limits are drawn on the ozalid.

The dispositions of the wrecks and submerged obstructions located offshore are dealt with in the hydrographic descriptive report for survey H-9741, performed concurrently with field edit.

Nearly all the piers in the southern area of the marina have finger piers attached. None are shown on the ozalid due to the small scale of the ozalid and the sheer number of fingers. They are from 9 to 12 meters long. Information on which piers have fingers and their number is included in the data volume.

RECOMMENDATIONS

It is recommended that the portion of the manuscript covered by this report be revised as noted on the mylar field edit ozalid.

Several new piers and structures are planned for the marina in the immediate future. It is recommended that field edit be done in the next 1 or 2 years. No extensive effort will be required for the new structures.

Submitted by



Robert B. Crowell
LTJG, NOAA

Approved by



Bruce I. Williams
Commanding Officer
NOAA Ship Fairweather

REVIEW REPORT TP-00926

SHORELINE

61. GENERAL STATEMENT

Refer to the Summary included in this Descriptive Report.

62. COMPARISON WITH REGISTERED TOPOGRAPHIC SURVEYS

None.

63. COMPARISON WITH MAPS OF OTHER AGENCIES

A comparison was made with the following U.S.G.S. 1:24,000 scale quadrangles: Ventura, CA, dated 1951 and photorevised 1967; and, Oxnard, CA, dated 1949 and photorevised 1967.

64. COMPARISON WITH CONTEMPORARY HYDROGRAPHIC SURVEYS

A comparison with contemporary hydrographic surveys H-9725 and H-9741 was not accomplished. Two field edit reports indicate that this shoreline map was field edited in conjunction with both hydrographic surveys.

A final map copy designated "Notes to Hydrographer" was prepared to relay shoreline source data that may be applicable to the hydrographic surveys.

65. COMPARISON WITH NAUTICAL CHARTS

A comparison was made with the following NOS Charts: 18725, 1:50,000 scale, 19th edition, dated July 10, 1982; and 18720, 1:232,188 scale, 24th edition, dated June 5, 1982.

66. ADEQUACY OF RESULTS AND FUTURE SURVEYS

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

Submitted by,

Ferry L. Hancock
Ferry L. Hancock
Final Reviewer

Approved for forwarding,

Billy H. Barnes
Billy H. Barnes
Chief, Photogrammetric Section, AMC

Approved,

George H. Bacon
Chief, Photogrammetric Section, Rockville

George H. Bacon
Chief, Photogrammetry
Branch

November 23, 1983

GEOGRAPHIC NAMES

FINAL NAME SHEET

CM-7509 (Point Hueneme to Point Conception, California)

TP-00926

McGrath Lake

Mandalay Beach

Pacific Ocean

Santa Barbara Channel

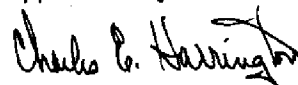
Santa Clara River

Ventura

Ventura Keys

Ventura Marina

Approved by:



Charles E. Harrington
Chief Geographer
Nautical Charting Division

RESPONSIBLE PERSONNEL	
TYPE OF ACTION	NAME
OBJECTS INSPECTED FROM SEAWARD	M. Molchan
POSITIONS DETERMINED AND/OR VERIFIED	M. Molchan
	J. Roderick
	J. Hancock, January 1984
FORMS ORIGINATED BY QUALITY CONTROL AND REVIEW GROUP AND FINAL REVIEW ACTIVITIES	☐ PHOTO FIELD PARTY ☐ HYDROGRAPHIC PARTY ☐ GEODETIC PARTY ☐ OTHER (Specify)
INSTRUCTIONS FOR ENTRIES UNDER 'METHOD AND DATE OF LOCATION'	
(Consult Photogrammetric Instructions No. 64.)	
OFFICE I. OFFICE IDENTIFIED AND LOCATED OBJECTS Enter the number and date (including month, day, and year) of the photograph used to identify and locate the object. EXAMPLE: 75E(C)6042 8-12-75	FIELD (Cont'd) B. 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
FIELD I. NEW POSITION DETERMINED OR VERIFIED Enter the applicable data by symbols as follows: F - Field L - Located V - Verified 1 - Triangulation 2 - Traverse 3 - Intersection 4 - Resection 5 - Field Identified 6 - Theodolite 7 - Planetable 8 - Sextant A. Field positions* require entry of method of location and date of field work. EXAMPLE: F-2-6-L 8-12-75	III. 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 III. POSITION VERIFIED VISUALLY ON PHOTOGRAPH Enter 'V-Vis.' and date. EXAMPLE: V-Vis. 8-12-75
**FIELD POSITIONS are determined by field observations based entirely upon ground survey methods. **PHOTOGRAMMETRIC FIELD POSITIONS are dependent entirely, or in part, upon control established by photogrammetric methods.	

NOAA FORM 76-40 (8-74) Replaces C&GS Form 567.										U.S. DEPARTMENT OF COMMERCE NATIONAL OCEANIC AND ATMOSPHERIC ADMINISTRATION									
NONFLOATING AIDS OR LANDMARKS FOR CHARTS										ORIGINATING ACTIVITY									
TO BE CHARTED ☐ TO BE REVISED ☐ TO BE DELETED		REPORTING UNIT (Field Party, Ship or Office) Coastal Mapping Unit, AMC, Norfolk, VA		STATE California		LOCALITY Port Hueneme to Point Conception		DATE July 10, 1978		☐ HYDROGRAPHIC PARTY ☐ GEODETIC PARTY ☐ PHOTO FIELD PARTY ☒ COMPILATION ACTIVITY ☐ FINAL REVIEWER ☐ QUALITY CONTROL & REVIEW GRP. ☐ COAST PILOT BRANCH (See reverse for responsible personnel)									
OPR PROJECT NO. 411		JOB NUMBER CM-7509		SURVEY NUMBER TP-00926		DATUM N.A. 1927		METHOD AND DATE OF LOCATION (See instructions on reverse side)		CHARTS AFFECTED									
CHARTING NAME		DESCRIPTION (Record reason for deletion of landmark or aid to navigation. Show triangulation station names, where applicable, in parentheses.)		LATITUDE ° / ' "		LONGITUDE ° / ' "		OFFICE		FIELD									
LIGHT	*Ventura Marina Breakwater North Light	34 15	0.698	119 16	21.567	551.8	76 B(I) 2788 Mar. 15, 1976	18720 18725											
LIGHT	Ventura Marina Breakwater South Light 3	34 14	46.890	119 16	18.364	469.9	"	"											
LIGHT	Ventura South Jetty Light 6	34 14	46.369	119 16	09.509	243.3	"	"											
LIGHT	Ventura North Jetty Light 7	34 14	52.018	119 16	13.395	342.8	"	"											
	(Light positions were visually verified by another field unit in March 1978; however, the editor indicated that both breakwater lights were slightly damaged by a recent storm).																		
	*No longer charted- January 1984.																		

RESPONSIBLE PERSONNEL	
TYPE OF ACTION	NAME
OBJECTS INSPECTED FROM SEAWARD	J. Quinlan
POSITIONS DETERMINED AND/OR VERIFIED	J. Quinlan
	J. Roderick
FORMS ORIGINATED BY QUALITY CONTROL AND REVIEW GROUP AND FINAL REVIEW ACTIVITIES	J. Hancock, January 1984
INSTRUCTIONS FOR ENTRIES UNDER 'METHOD AND DATE OF LOCATION'	
(Consult Photogrammetric Instructions No. 64.)	
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FIELD 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 A. Field positions* require entry of method of location and date of field work. EXAMPLE: F-2-6-L 8-12-75	III. POSITION VERIFIED VISUALLY ON PHOTOGRAPH 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 **PHOTOGRAMMETRIC FIELD POSITIONS are dependent entirely, or in part, upon control established by photogrammetric methods.
*FIELD POSITIONS are determined by field observations based entirely upon ground survey methods.	

