TP-00610

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-7112 Map No.TP-00610					
Classification No. Final Edition No1 Field Edited Map					
LOCALITY					
State California					
General Locality Santa Catalina Island					
$L_{ocality}$ Empire Landing					
19 72 TO 19 75					
REGISTRY IN ARCHIVES					
DATE					

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

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NOAA FORM 76-36A U. S. DEPARTMENT OF COMMERCE (3-72) NATIONAL OCEANIC AND ATMOSPHERIC ADMIN.	TYPE OF SURVEY	SURVEY TP.00610
	44 ORIGINAL	MAP EDITION NO. (1)
DESCRIPTIVE DEPORT DATA DECORD	RESURVEY	MAP CLASS FIELD EDITED
DESCRIPTIVE REPORT - DATA RECORD	_	
	REVISED	јов Рн - <u>7//2</u>
PHOTOGRAMMETRIC OFFICE	LAST PRECEED	ING MAP EDITION
Coastal Mapping Division, Rockville, Md.	TYPE OF SURVEY	JOB PH
OFFICER-IN-CHARGE	ORIGINAL RESURVEY	MAP CLASS
	REVISED	19TO 19
James Collins, Commander		
I. INSTRUCTIONS DATED 3. OFFICE	2	FIELD
	4.	, ,
Aerotriangulation - August 1972	February	1972
Compilation		
Amendment I - January 1974 Amendment II - February 1974		
restuary 1974		
II. DATUMS		
1. HORIZONTAL: 👗 1927 NORTH AMERICAN	OTHER (Specify)	
<u> </u>	OTHER (Specify)	
MEAN HIGH-WATER		
2. VERTICAL: MEAN LOWER LOW-WATER		
MEAN SEA LEVEL		
3. MAP PROJECTION		SRID(S)
Polyconic	STATE	ZONE
5. SCALE	California	ZONE
1:20,000		
III. HISTORY OF OFFICE OPERATIONS		
OPERATIONS	NAME	DATE
I. AEROTRIANGULATION BY METHOD: Analytic Landmarks and aids by	I. O. Raborn	12/73
METHOD: ANALYTIC LANDMARKS AND AIDS BY 2. CONTROL AND BRIDGE POINTS PLOTTED BY	D. Phillips	12/73
METHOD: Coradomat CHECKED BY		137.3
3. STEREOSCOPIC INSTRUMENT PLANIMETRY BY	S. Solbeck	5/74
COMPILATION CHECKED BY	P. Dempsey	5/74
INSTRUMENT: Wild B-8 CONTOURS BY	Inapplicable	
scale: 1:15,000 CHECKED BY 4. MANUSCRIPT DELINEATION PLANIMETRY BY	Inapplicable	
4. MANUSCRIPT DELINEATION PLANIMETRY BY CHECKED BY	S. Solbeck P. Dempsey	6/74
CONTOURS BY	Inapplicable	
METHOD: CHECKED BY	Inapplicable	
SCALE: 1:20,000 HYDRO SUPPORT DATA BY	S. Solbeck	6/74
CHECKED BY	J. P. Battley, Jr J. P. Battley, Jr	
5. OFFICE INSPECTION PRIOR TO FIELD EDIT BY	F. Wright	6/76
6. APPLICATION OF FIELD EDIT DATA CHECKED BY		
7. COMPILATION SECTION REVIEW BY		
8. FINAL REVIEW BY	J. B. Phillips	8/76
9. DATA FORWARDED TO PHOTOGRAMMETRIC BRANCH BY	İ	
10. DATA EXAMINED IN PHOTOGRAMMETRIC BRANCH BY	5. Blankenbaker	9/16

NOAA FORM 76-36B (3-72)	co	TP-00610		NIC AND ATMOSPHER	MENT OF COMMERC RIC ADMINISTRATIO NAL OCEAN SURVE
1. COMPILATION PHOTOGRAPHY					
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TIDE STAGE REFERENCE	<u></u>	╡		ZONE	
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72L(I)-2774 - 2781	3/24/72	11:04	1:30,000	+0.2 ft. of	
72L(I)-2811 (with TP-0		11.01	1.30,000	10.2 10. 01	1.171714
72D(1)-2011 (WIEN 1F-0	3/24/72	1	1.20 000		
701 /11 2702		}	1:30,000	1	
72L(I)-2783	3/24/72	1	1:30,000	1	
72L-2693 - 2699	3/24/72		1:15,000		
72L - 2672	3/24/72		1:30,000		
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REMARKS					
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2. SOURCE OF MEAN HIGH-WATE	R LINE:				
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4. CONTEMPORARY	HYDROGRAI	PHIC SURVEYS (List only th	ose surveys that are source	es for photogre	mmetric survey information.)
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5. FINAL JUNCTION	\$				
NORTH TP-00612	1:5,000	EAST	SOUTH		WEST
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REMARKS					

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		HISTORY OF FIE	LD OPERATIONS	·	<u></u>
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		RECOVERED	D. KINGELD	۱۵	3/72
. VERTICAL CONTR	OL	ESTABLISHED			
		PRE-MARKED OR IDENTIFIED			
			37	16	
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AIDS TO NAVIGAT	ON	IDENTIFIED			
··········		TYPE OF INVESTIGATION	<u>-: -: -: -: -: -: -: -: -: -: -: -: -: -</u>		
. GEOGRAPHIC NAM	ES	COMPLETE		,	
INVESTIGATION		SPECIFIC NAMES ONLY	BY		1
		XX NO INVESTIGATION			<u>. </u>
S. PHOTO INSPECTIO	N	CLARIFICATION OF DETAILS	вч		,
, BOUNDARIES AND		SURVEYED OR IDENTIFIED	T1:1:	le	
I. SOURCE DATA					
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4. LANDMARKS AND	AIDS TO NAVIO	SKITON TOENTIFIED			
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. OTHER FIELD REC	ORUS (Sketch				
. OTHER FIELD REC	ORDS (Sketch)				



NOAA FORM 76-36C (3-72)		TP-00610		NIC AND ATMOSPHE	MENT OF COMMERCE RIC ADMINISTRATION DNAL OCEAN SURVEY
I. FIELD INSPEC	TION OPERA		D EDIT OPERATION		
,	OPE	RATION	 	NAME	DATE
			 	TANKE .	DATE
. CHIEF OF FIELD	PARTY		C. K. Town	send, Cdr.	3/75
2. HORIZONTAL CO	NT BOL	RECOVERED BY ESTABLISHED BY			
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		RECOVERED BY			
3. VERTICAL CONT	ROL	ESTABLISHED BY			
		PRE-MARKED OR IDENTIFIED BY			
 ,	REC	OVERED (Triangulation Stations) BY			
4. LANDMARKS AND AIDS TO NAVIGAT		LOCATED (Field Methods) BY	K. Andreer		3/75
AIDS TO HAVIGAT		IDENTIFIED BY	K. Andreer	i, Ens.	3/75
		TYPE OF INVESTIGATION COMPLETE			
5. GEOGRAPHIC NAM INVESTIGATION	MES	SPECIFIC NAMES ONLY			
		NO INVESTIGATION			
6. PHOTO INSPECTI	ON	CLARIFICATION OF DETAILS BY	K. Andreer	, Ens.	3/75
7. BOUNDARIES AND	LIMITS	SURVEYED OR IDENTIFIED BY			
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3. PHOTO NUMBERS 72L2692-2700 72L2672	(Clarification	of details)			
4. LANDMARKS AND	AIDS TO NA	VIGATION IDENTIFIED		÷	
PHOTO NUMBER		OBJECT NAME	PHOTO NUMBER	OBJEC	T NAME
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7. SUPPLEMENTAL			14.		
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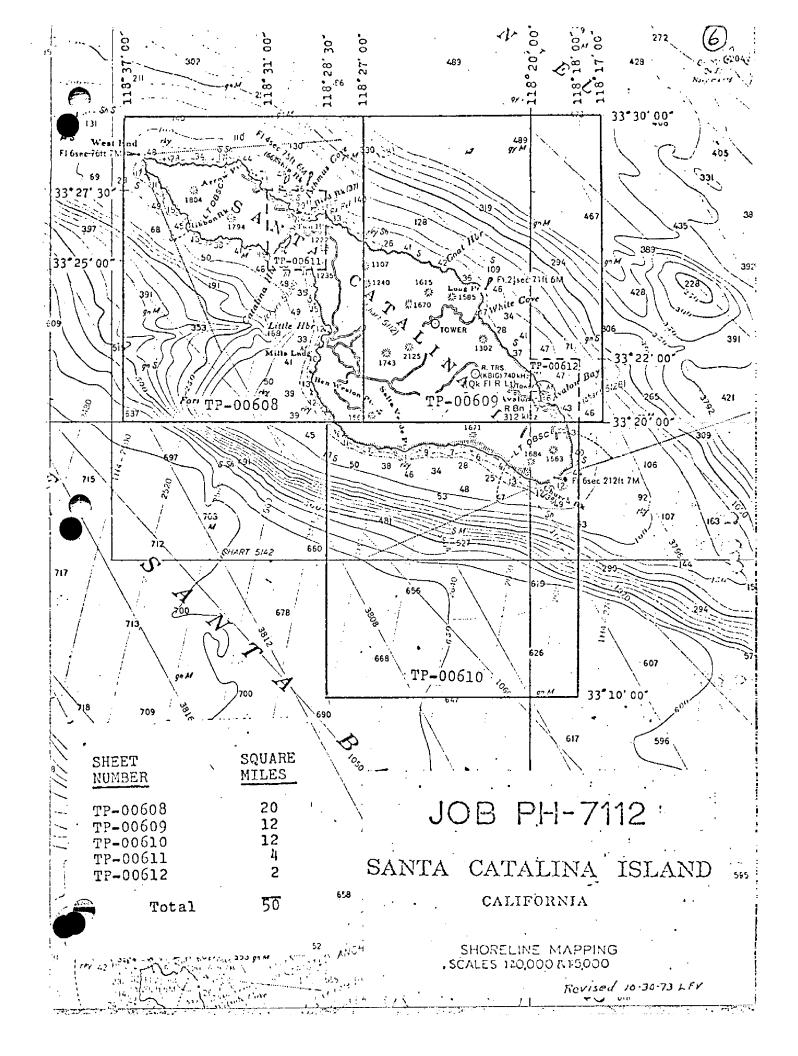
NOAA	FORM	76-36D
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(3-72)

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

TP-00610

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FOURTH	TP	(4) PH	- <u></u>			REV	ISED R	ESÛRVÊY	
EDITION	DATE OF PHOTOGRAP	HY DATE	DATE OF FIELD EDIT		 □	□	MAP CLASS	- DEINAL	



Summary PH-7112

TP-CO6/O is one of 5 shoreline maps in job PH-7112 compiled for use in contemporary hydrographic survey and nautical charting operations.

Field work, prior to compilation, consisted of the recovery and premarking of horizontal control.

The manuscript was compiled using the Wild B-8 stereoplotter with 1:30,000 scale color photography. Infrared photography was used to graphically compile the mean lower low water line. Cronaflex positives and ozalids of the manuscript were forwarded for the use of the field editor and for the preparation of the hydrographer's boat sheets. Accompanying these were specially prepared ratio photographs to aid in the location of hydrographic signals.

Field edit was accomplished during Spring and Fall 1975

Final review was accomplished at the Rockville, Maryland office in Aug. 1976.

A stable base positive copy of the map and a Descriptive Report will be registered in the NOS Archives.

FIELD INSPECTION

TP- 006/0

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

PHOTOGRAMMETRIC PLOT REPORT Santa Catalina Island California Job PH-7112 December 1973

21. AREA COVERED

The area covered by this report pertains to Santa Catalina Island of California. The island is covered by three 1:20,000 scale sheets, TP-00608, TP-00609, TP-00610, and two 1:5,000 scale sheets TP-00611, and TP-00612.

22. METHOD

Three strips of 1:30,000 scale color photography and three strips of 1:15,000 scale color photography were bridged by analytic aerotriangulation methods. Sketch number 1 shows the flight lines of the photography and the placement of the control used in the adjustment. The three strips of 1:30,000 scale color photography were controlled by field identified control paneled in 1972. The three strips of 1:15,000 scale color photography were controlled by common points from the 1:30,000 scale color photography. Ties were made between all bridging strips. Common points were located between the bridging photography and the infrared photography to determine the ratio scale. In addition, common points were located on the hydro support color photography to determine the ratio scale. Sketch number 2 shows the flight lines of the hydro-support photography.

Data for ruling projections were furnished to the Coradomat to be plotted on the California Zone 6 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 overlap and definition.

Respectfully submitted,

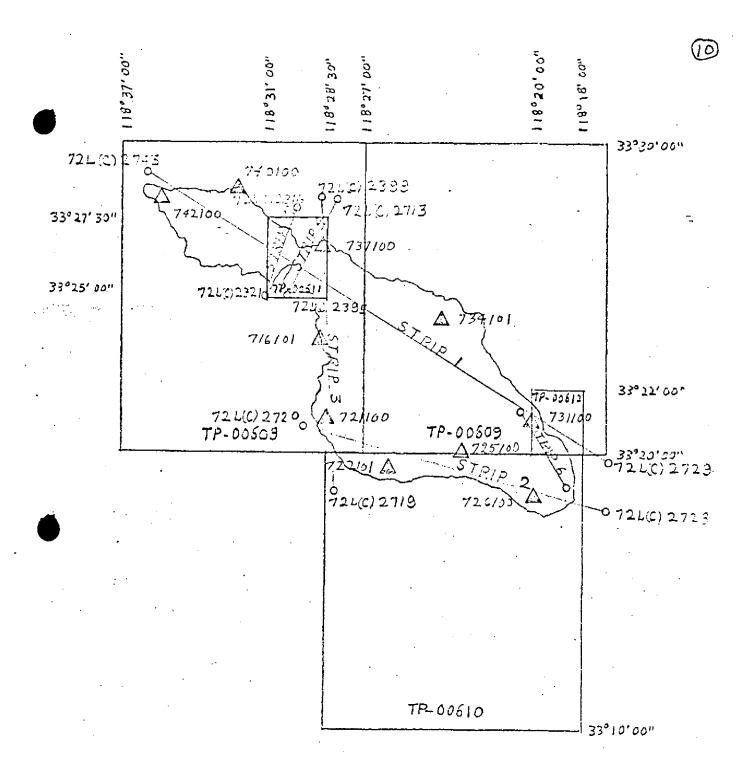
Juy O Raham Iver O. Raborn

Approved and Forwarded:

John D. Perrow, Jr.

Chief Acceptain Support No. 1

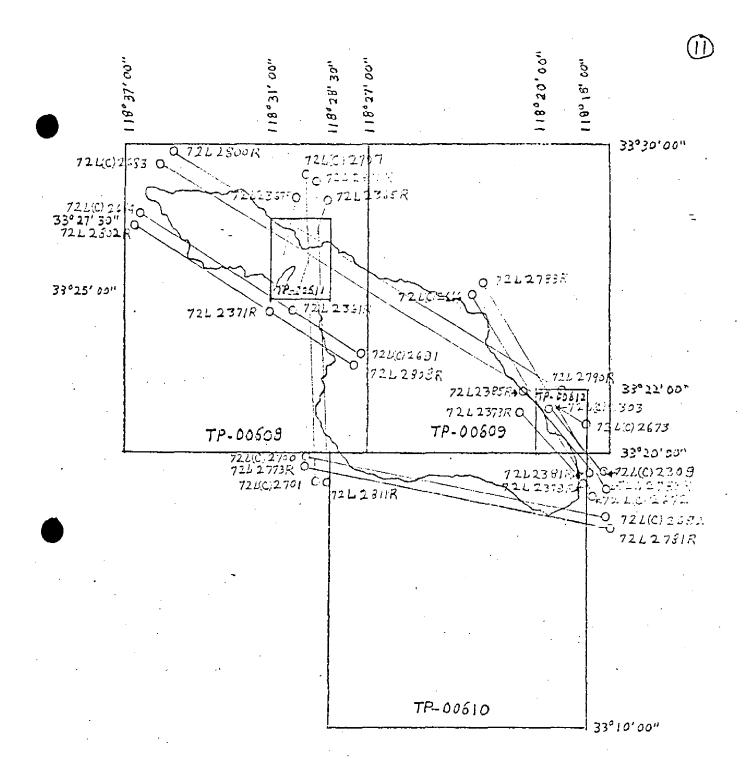
Chief, Aerotriangulation Section



JOB PH-7112

SANTA CATALINA ISLAND

CALIFORNIA



JOB PH-7112

SANTA CATALINA ISLAND

CALIFORNIA

Compilation Report TP-00610 Scale 1:20,000

June 1974

31. Delineation

Delineation was by the Wild B-8 stereoplotter using color photography taken in March 1972. Points common to the photography to be used for photo-hydro support and the MLLW photography were dropped on the B-8 and pricked on cronapaque black-and-white ratio prints of the color flown for photo-hydro support. Compiled features were roads, drainage features, landmarks (culture and physical) and the tops of bluffs considered to be of landmark value.

32. Control

See the attached Photogrammetric Plot Report, dated December 1973.

33. Supplemental Data - None

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

Delineation was by the Wild B-8 stereoplotter and office interpretation of the 1972 color photographs.

The MHW lin e was compiled using the same methods. The eastern most shoreline (from Jewfish Point to Seal Rocks) was not covered adequately by the above color photographs and was compiled graphically. Some alongshore rocks were deleted due to the large number of rocks to avoid confusion.

The MLLW line was compiled graphically from tide-coordinated, infrared photography.

36. Offshore Details

No unusual problems were encountered.

37. Landmarks and Aids

One aid to navigation was located and plotted by the Wild B-8 stereoplotter. Other aids or landmarks will be located during field edit.

38. Control for Future Surveys - None

39. Junctions

See the attached Form 76-36b, item #5 of the Descriptive Report concerning junctions.

40. Horizontal and Vertical Accuracy

This map complies with the National Standard of Accuracy.

- 41. thru 45. Inapplicable
- 46. Comparison with Existing Maps

All work was compared to the existing 7.5 minute quads:

- (a) Santa Catalina East, California 1:24,000 1943
- (b) Santa Catalina South, California 1:24,000 1943
- 47. Comparison with Nautical Charts

All work was compared with the existing National Ocean Survey chart 5112, 5th Edition, October 7, 1972, during the B-8 compilation. This chart, originally printed at 1:40,000 scale, was enlarged to 1:20,000 scale for this purpose.

The tops of bluffs were also compared to this chart, but many were deleted because the project instructions called for vertical bluffs only.

Submitted by:

Stephen H. Solbeck

Approved and Forwarded by:

Chief, Coastal Mapping Section

Jeter P. Battley Ir

FIELD EDIT REPORT OPR-411-RA-1975 SPRING

SANTA CATALINA ISLAND

CALIFORNIA

TP-00608 thru TP-00612

NOAA Ship RAINIER

CDR Charles K. Townsend

Commanding



INTRODUCTION

The field edit of the spring project, OPR-411-RA-75, Santa Catalina Island, was started on Feb. 25, 1975 and complete on March 13, 1975. The maps were compiled without field inspection pior to compilation, therefore, a complete and thorough field edit was done. Work was carried out on shore and water.

Field edit was started at the east end of the island continued up the north side to the west end. Only the northeast side of the island was field edited.

All deletions, additions and corrections to be applied to the manuscript appear on the T-sheets. All questions on the field edit ozalids were answered on the T-sheets. The T-sheet is an index of all field edit work performed. All field edit notes on the T-sheets that are violet are items verified, those in red ink are changes. All notes on the T-sheet which are identified on the photographs, include the description, height and the photo number that it was located on. All other information is on the photographs, written in violet ink.

For a listing of photographs used, refer to the Separates following the text. Height data on all rocks are estimated. Times were referenced to 0 Longitude.

ADEQUACY OF COMPILATION

The compilation of the manuscripts were adequate and complete.

Compilation of MHWL and MLLW were excellent. There were a few minor

discrepancies, and these are noted in the Shoreline Summaries. All rocks and offshore features are labeled on the T-sheet, and where-ever possible, verified on the photographs.

SHORELINE SUMMARIES

TP-00610

Field edit was started at the east end of Santa Catalina Island. Everything NE of 33 21' 10"N, 118 18' 48"W was field edited, while nothing was done SW of that point.

TP-00609

At 33 21' 10"N, 118 19' 39"W to 33 21' 22"N, 118 19' 47"W there is a change to the shoreline as compiled due to construction.

Refer to TP-00612 for further information.

The microwave tower located on the compiled manuscript as 33 21' 23.9"N, 118 21' 30.6"W, is not in the correct position. A copy of a letter from the Pacific Telephone and Telegraph Co. which gives the correct position of this tower to the nearest second, is included in the seperates which follow the text. This new position is 33 21' 00"N, 118 21' 05"W.

A wreck, located in the vicinity of 33 23' 50"N, 118 22' 00"W, was searched for but not found. However, the search method was wire dragging in an area foul with kelp. It would have been very easy to have missed the wreck, thus this search was not adequate.

TP-00608

The shoreline of Ship Rock on this T-sheet was used for the final smooth sheet. It's exact shape was difficult to determine due to the

triangulation symbol of Bird Rock 1875, covering the shoreline.

Along the coast from Lion's Head to Arrow Point, there are several submerged rocks, usually 2' to 6' under, about 30 yds. off the beach.

Ship Rock Light was located by measuring it's distances from the Bird Rock 1875 triangulation station and its reference marks. Sextant angles were used as a check of its position. Refer to the Separates following the text for the computations of the position of this light.

West End Light was verified but not located. The field edit ended at the tip of the west end of Santa Catalina Island, 33° 28' 44"N, 118° 36' 23"W.

TP-00611

There are floating docks connected to the pier in Isthmus cove according to the compiled manuscript. These can be changed to the end of *the pier and lengthened, depending on the need during the summer.

In Fisherman Cove, there is a railway located at 33° 26' 40"N, 118° 28' 58"W. The pier shown on the T-Sheet in this cove has been verified, but does not appear on Chart 5128. This pier should be charted.

The foul area next to Ship Rock should be delineated from the 1:5000 photographs. It is shown on photo 72L2398.

The "Chimney Stack" in Cherry Cove should be re-named to "Tower".

It is actually a lifeguard stand.

TP-00612

The shoreline from 33° 21' 11"N, 118° 19' 40"W to 33° 21' 22"N,

(8)

118 19' 48"W, has changed completely since the 1972 photographs were taken and the shoreline was compiled. This area is under construction by the Balboa Bay Island Club, of Newport Beach, CA. They are building condominiums, and are filling in the coastline with dirt. Since the shoreline will be continuously changing until the construction is finished, an accurate location of the coastline was not compiled by the field editor. It is recommended that plans be obtained from the Balboa Bay Island Club for landscaping or that new photographs be taken when the construction is finished.

Pier ruins do exist at the end of the pier at 33 21' 03"N.

There are nets located from 118 19' 25"W to 118 19' 35"W, just north of the Casino, during the summer only. This is a scuba diving area.

Also nets and swim lines are located about 30 yds off the beach in Descanso Bay. These are located in Avalon Bay, also, from about 33 20' 35"N to 33 20' 43"N. Platforms are continuously changing positions throughout the Bay area.

The small dock on Cabrillo Mole Penninsula no longer exists.

There are pier ruins where it did stand (pilings:).

The Avalon Bay Marker, R. Bcn., is located at the top of the Casino. The Avalon Bay Lights 1 and 2, were located by both theodolites and tellurometers. Refer to both the Separates following the text and the Geodetic Control Report, OPR-411-RA-75, for further information.

ADDITIONAL INFORMATION

Photo identified signals used for visual hydrography are circled in violet ink on the two 1:5000 T-sheets (TP-00611 and TP-00612) and on all photographs in which they appear. Each signal is identified with its signal number (either a 200 or 300 number). All 100 series signals are triangulation stations.

On the RA-5-2-75 boatsheet, TP-00611, one signal has two signal numbers (#243/303). Due to problems in the software of the visual hydro programs, RK171 and RK174. The digital sextant could not accept an input of any signal number which had its last two digits larger than 39. Thus signal numbers are from 200-239, 300-320, with the exception of signal number 243/303.

All 200 and 300 signal are photo located except for #318, 319 and 320. These were located by means of sextant angles to triangulation stations. Refer to the seperates following the text for the computation of the location of these signals.

The computation of Ship Rock Light can also be found in the Separates that follow the text.

RECOMMENDATIONS

There were two problems involving the signal control on the T-sheet TP-00612 (boatsheet RA-5-1-75). It was extremely difficult to locate enough photo identifiable objects for signals using the black and white photographs that were provided. It is recommended that if a 1:5000 boatsheet is to be done using visual methods, color photographs be supplied instead of or in addition to the black and white, so that objects can be more easily identified, thus obtaining

stronger control.

Also it is recommended that several photographs which include the boundary limits of a 1:5000 survey and some area beyond these limits, are sent to the field editor. Near the NW edge of the RA-5-2-75 boatsheet, signals 318, 319 and 320 had to be located by hydro methods since there wasn't enough photo support in this area.

DATA PROCESSING

The computations for the signals and the positions of the lights were done on the ship's PDP8/e computer and the Wang 700 Series.

Advanced Programing Calculator. The following programs were used for the computations that are included in the Separates that follow the text.

Program	Description		
RK 301	Visual Station Table Maker (VISTA) Ver: 12 Aug. 1974		
RK 407	Geodetic Direct & Inverse Comp Ver: 10 Nov. 1972		
RK 409	Geodetic Utility Package Ver: 5 Sept. 1973		
Focal Scaling Program	Author: R.A. Schiro 13 Aug. 1973		

Wang Intersection

Wang Resection

Respectfully submitted,

Theyer, A. A. drum

Kathryn A. Andreen

ENS. NOAA

MANUSCRIPT-PHOTO INDEX

 T-SHEET
 PHOTOS

 TP-00608
 72L2677-2682

 TP-00609
 72L2666-2671

 TP-00610
 72L2672

 TP-00611
 72L2316-2318

 72L2396-2398

72L2303-2307

TP-00612

THE PACIFIC TELEPHONE AND TELEGRAPH COMPANY

Avalon, California February 26,1975

Commander Charles Townsend MSS 21 NOAA Rainier



Dear Sir:

The attached copy of an FCC document indicates the location of our transmitting tower at Dakin Peak. Catalina Island, 2 mi. WNW of Avalon.

Lat. 33 21' 00'' N and Long. 118 21' 05'' W is the recorded location

The flashing red beacon light atop the tower is in operation 24 hours a day and is located 1792 feet AMSL.

. Corrections to existing charts may be in order.

Sincerely,

Stan Royle

Equipment Supervisor
Pacific Telephone Company
Box 496
Avalon, Calif 90704

I. co
72)xo
3. CH ENG
4. NAV
OFLD OPR_BLK-
6. ELECT
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APPROVAL SHEET,

FIELD EDIT

OPR-411-RA-1975

The field work and data were examined daily in the field. Standard procedures were observed in accordance with the Hydrographic Manual, PMC OPORDER, the Topographic Manual and Photogrammetry Instructions.

The T-sheets and the accompanying records have been examined by me and are considered complete and adequate for charting purposes and are approved.

Charles K. Townsend

CDR. NOAA

FIELD EDIT REPORT

OPR-411-RA-1975-FALL

SANTA CATALINA ISLAND

CALIFORNIA

TP-00608 thru TP-00611

NOAA Ship RAINIER

CDR. Charles K. Townsend

Commanding



INTRODUCTION

The field edit for the fall project, OPR-411-RA-75, Santa Catalina Island, was started on Sept. 14 (J.D. 257) and finished on Oct. 15, 1975 (J.D. 288). Since the maps were compiled without field inspection prior to compilation, a complete and thorough field edit was carried out on land and water.

Field edit began in Catalina Harbor, (TP-00611, 1:5000 T-sheet) and was then extended throughout the southwest side of the island.

Junctions were made with the RAINIER's spring project (OPR-411-RA-75) field edit at both the west and east ends.

All deletions additions and corrections to be applied to the manuscript appear on the master T-sheets. All questions on the field edit ozalids were answered on the master T-sheets. The master T-sheet is an index of all field edit work performed. All field edit notes on the T-sheets that are in violet ink are items verified, those in red ink are changes. All notes on the T-sheets which are identified on the photographs, include the description, height and the photo number that they were located on. All other information is on the photographs, written in violet ink. All field edit notes on the smooth RA-5-3-75 boatsheets which are verified are in black ink, changes that are photo-located are in violet ink, changes to the manuscript (not photo-located) are in red, and unverified item are in blue ink. (Note: All field edit information for the chart adequacy survey, RA-40-1-75, smooth boatsheet, can be found on the master index T-sheets TP-00608,

TP-00610, TP-00611 and the photograph 72L2319, 1:5000.)

For a listing of photographs used, refer to the Separates following the text. Height data on all rocks are estimated, plus or minus 1/4 ft. Times were referenced to 0° Longitude.

ADEQUACY OF COMPILATION

The compilation of the manuscripts were adequate and complete. Compilation of the MHWL and the MLLW were excellent. There were many discrepancies between the photo compiled T-sheets and the 1:20,000 chart (NOAA #18757; C&GS 5112) blow-up, concerning the shoreline. In all cases, it was found that the T-sheets were compiled correctly. All rocks and offshore features are labeled on the T-sheet, and wherever possible, verified on the photographs.

SHORELINE SUMMARIES

TP-00608

Field edit started on this T-sheet at the west end of Santa Catalina Island, junctioning with OPR-411-RA-75-SPRING field edit, and continued southeastward.

The huge rock in Iron Bound Cove, 33° 26' 40"N, 118° 34' 16"W, was thoroughly searched for since something could be seen in the photographs, for that area. However, nothing could be found.

Between 33° 25' 45"N, 118° 32' 13"W and the point 33° 25' 05"N 118° 29' 12"W, field edit was transferred to the 1:5000 manuscript TP-00611. Also the photo 72L2319 (1:500 scale) contains some

field edit information which did not fall within the limits of TP-00611, and were not scaled down to fit the 1:20,000 T-sheet TP-00608.

A new geographic name should be added to the chart, "Shark Harbor". It is the harbor that is located at approximately 33° 23' 00"N, 118° 28' 20"W. "Little Harbor" should be changed to the cove north of "Shark Harbor", located at 33° 23' 10"N, 118° 28' 25"W.

West End Light (33° 28' 42.826"N, 118° 36' 17.546"W) was located by using sextant angles between the Light and Eagle Rock, taken from a hydro launch with Raydist control positioning. Refer to the Horizontal Control Report, OPR-411-RA-75-FALL, for specific details on the procedures used.

TP-00611

There are large discrepancies around Catalin Head and on the southeastern limit of the T-sheet, with minor ones throughout the rest of the area, between the Chart blow-up and the T-sheet. The T-sheet was found to be correct.

The field edit using the 1:5000 photographs was carried out beyond the western limit of the T-sheet. This field edit was not scaled off to the 1:20,000 manuscripts, but was left on the photo 72L2319. This information needs to be processed and added to the master T-sheet (TP-00608) and the smooth boatsheets.

The question of pier ruins at 33° 25' 55"N, 118° 30' 27"W, is

actually an airplane ramp. Air Catalina Airlines flys floatplanes in and out of the harbor twice daily, 0830 and 1630 local time.

No evidence could be found of any pier ruins at 33° 25° 55"N, 118° 30° 24"W. The only things found in this area were several submerged rocks, which divers verified.

A gravel ramp for boats is located at 33° 26' 08"N, 118° 30' 07"W.

A new pier was constructed after the T-sheet was compiled. Its approximate location (33° 25' 58"N, 118° 30' 07"W) is noted on the T-sheet.

At Ballast Point, a seasonal floating pier was added onto the existing pier (refer to the T-sheet).

The platform located at 33° 25' 44"N, 118° 30' 22"W, is seasonal and did not exist at the time of the survey.

All kelp areas were delivered properly. Additions to foul areas with rocks are noted on the T-sheet.

TP-00610

One area of rocks and boulders (33° 19′ 08″N, 118° 26′ 31″W), as compiled on the T-sheet, was searched for and not found. This area could be identified easily on the photographs, however when investigated at low water, nothing could be found.

Another small area of rocks on the manuscripts (33° 19' 07"N, 118° 25' 52"W) was also searched for and not found. This area was thick with kelp, but the field editors could not find anything.

Local fishermen were also contacted, they had not found anything in that area, either.

The position for Catalina Island East End Light is correct as compiled. The field editor was unable to measure off the Light's position for a revised 76-40, Nonfloating Aids to Navigation. It is recommended that CAM 521 complete a new 76-40.

ADDITIONAL INFORMATION

Photo identified signals used for visual hydrography are circled in violet ink on the 1:5000 T-sheet, TP-00611, and on all photographs in which they appear. Each signal is identified with its signal number (a 400 number.) All other signal numbers indicate other control locating methods.

NOTE: The field edit for the Long Beach area, OPR-411-RA-75-FALL, (boatsheet RA-10-2-75) was not accomplished by the personnel of the RAINIER. Refer to the Chart Adequacy Survey, OPR-511-DA-75, Report, for field edit on this boatsheet.

DATA PROCESSING

The computations for the positions of signals were done on the Ship's PDP 8/e computer and the Wang 700 Series Advanced Programing Calculator. The following programs were used for the computations that are included in the Separates that follow the text.

Program

Description

RK 301

Visual Station Table Maker (VISTA)

Ver: 12 Aug. 1974

Focal Scaling Program

Author: RA Schiro 13 Aug. 1973

RECOMMENDATIONS

As seen in this project and in many other projects, there has been a lack of good quality photographs. Perhaps the cost of photographs that are needed for photo-picking signals should be compared to the cost of locating signals by horizontal control, since the photographs received by this ship are about 60% effective. The experience the field editor has for photo-picking signals is usually quite limited, thus extremely good quality photos are needed to locate signals within the limits set by the Hydro Manual.

Photo signals east of Pin Rock on the 1:5000 visual survey (RA-5-3-75), were impossible to pick. The photographs were out of focus and were covered with the glare from the sun off the water, i.e., 72L2319. Also there were not enough photo coverage at the edges of the survey limits, for good intersections of positioning rays. The photographs have also been only black and white, not the color originals, which cuts the effectiveness by a considerable amount.

This problem has been mentioned before, many times and nothing has resulted. So it is recommended that if good photographs can

not be taken for the purpose of photo-picking signals by personnel on board the ships, then do not expect them to be used for that purpose or send an expert into the field to support the ships.

Respectfully submitted,

Kathryn Andreen, Ltjg. NOAA

Manuscript-Photo Index

T-Sheet	<u>Photographs</u>
TP-00608	72L2681-91 72L2701-06
TP-00610 ·	72L2692-2700
TP-00611	72 L2317-20 72 L2395-97

Approval Sheet

Field Edit

OPR-411-RA-1975-FALL

The field, work and data were examined daily in the field.

Standard procedures were observed in accordance with the Hydrographic Manual, PMC OPORDER, the Topographic Manual and Photogrammetry Instructions.

The T-sheets and accompanying records have been examined by me and are considered complete and adequate for charting purposes and are approved.

Charles K. Townsend

CDR. NOAA

REVIEW REPORT TP-00610 Shoreline Survey August 1976

61. General Statement

The final review of job maps consisted of: (1) an edit, including a general check of the field edit data and its application; (2) the completion and assembly of the Descriptive Reports and related records.

A careful comparison was made during compilation with published charts, enlarged where applicable to the manuscript scale, and with USGS quadrangles. Significant discrepancies were called to the attention of the field editor. For this reason no comparison was made during this review with other sources.

The hydrographic survey boat sheets are in the PMC. Class I manuscript copies were recently forwarded for use in smooth sheet processing. Much of the lettering and rock awash symbols had been shown smaller than the minimum size required for obtaining a good, reproduced copy. During this final review it was necessary to edit extensively. Copies of the final maps will be forwarded to the PMC.

The field editor stated that much difficulty in identification was encountered due to the poor quality of the photography. The location of rocks in the field was in excess of what was needed to depict the foreshore area at this scale. The compiler had difficulty with correctly identifying and placing on the manuscript some of the foreshore rock information. Foul limit lines were shown around such areas.

The compiler has shown a rock awash in Silver Canyon Landing. No rock is shown in this area on the published chart. Since the field editor did not comment on this object, its existence is uncertain. This will be called to the attention of Marine Charts on the Chart Maintenance Print.

62. Comparison with Registered Topographic Surveys

See item 61.

63. Comparison with Maps of Other Agencies

See item 61.

64. Comparison with Contemporary Hydrographic Survey

See item 61.

65. Comparison with Nautical Charts

See item 61.

66. Adequacy of Results and Future Surveys

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

Submitted by:

J. B. Phillips

Approved and Forwarded:

D. plantitoth

for A.K. Heywood

Chief, Photogrammetric Branch

Chief, coastal Mapping Division

June 11, 1974

GEOGRAPHIC NAMES

FINAL NAME SHEETS

PH-7112 (Santa Catalina Island, Calif.)

TP-00610

Binnacle Rock
*Catalina Island East End Light
China Point
Church Rock
East Mountain
East Peak Jewfish Point
Outer Santa Barbara Passage
Palisades
Renton Mine
Salta Verde Point
San Pedro Channel
Santa Catalina Island
Seal Rocks
Silver Canyon
Silver Canyon

*An identifiable feature, not a geographic name.

Prepared by:

C.E. Harrington Staff Geographer

| HYDROGRAPHIC PARTY
| GEODETIC PARTY
| PHOTO FIELD PARTY
| COMPILATION ACTIVITY
| HALL REVIEWER
| MOUALITY CONTROL & REVIEW GRP.
| COAST PILOT BRANCH 5142 5142 5142-SC 38 AFFECTED CHARTS ORIGINATING ACTIVITY March 1975 METHOD AND DATE OF LOCATION (See Instructions on reverse side) Figu v - vis 1972 U.S. DEPARTMENT OF COMMERCE NATIONAL OCEANIC AND ATMOSPHERIC ADMINISTRATION UNIT 9/ OFFICE Aug. 24 March 72L2727 118 18 1550.0 been inspected from seaward to determine their value as landmarks.

| SURVEY NUMBER | DATUM D.P. Meters 59.91 LONGITUDE Rockville POSITION LOCALITY J.M. Meters N.A. 1927 216.0 7.01 LATITUDE 18 33 Maryland DESCRIPTION . (Record reason for deletion of lendmark or aid to navigation. Show triengulation station names, where applicable, in parentheses) TP-00610 REPORTING UNIT (Field Party, Ship or Office) Santa Catalina Island East End Light Quality Control The following objects HAVE X HAVE NOT OPE PROJECT NO. PH-7112 Replaces C&GS Form 567, OPR-411-RA-75 X TO BE CHARTED TO BE DELETED TO BE REVISED NOAA FORM 76-40 (8-74) CHARTING Light

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DESCRIPTIVE REPORT CONTROL RECORD

LGS- 164)

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1/11/74

DATE

Checked by F. R. Gustafson

DATE 1/9/74

C.Rauck, Jr.

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OMPUTED BY

RECORD OF APPLICATION TO CHARTS

FILE WITH DESCRIPTIVE REPORT OF SURVEY NO. TP-00610

INSTRUCTIONS

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

1. Letter all information.

2. In "Remarks" column cross out words that do not apply.

3. Give reasons for deviations, if any, from recommendations made under "Comparison with Charts" in the Review.

CHART	DATE	CARTOGRAPHER	REMARKS
8757	8-13-81	D. C. Larson	Full Part Before After Verification Review Inspection Signed Via
	8-17-81-1		Drawing No. 16
18746	8-14-81	D.C. Larson	Full Part Before After Verification Review Inspection Signed Via
	8-17-81-1		Drawing No. 3 6
18740	8-14-81	10. C. dassa	Full Part Before After Verification Review Inspection Signed Via
	8-17-BI A		Drawing No. 47 Mo can
			Full Part Before After Verification Review Inspection Signed Via
			Drawing No.
			Full Part Before After Verification Review Inspection Signed Via
	7/74647 51-1420-90		Drawing No.
	Nutra Agranda		Full Part Before After Verification Review Inspection Signed Via
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