

TP-00612

TP-00612

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-00612
Classification No. Final	Edition No. 1
Field Edited Map	
LOCALITY	
State California	
General Locality .. Santa Catalina Island	
Locality Avalon Bay	
<hr/> 1972 TO 1975 <hr/>	
REGISTRY IN ARCHIVES	
DATE	

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

18759 ✓
18757 ✓
18745 ✓

NOAA FORM 76-36A (3-72)		U. S. DEPARTMENT OF COMMERCE NATIONAL OCEANIC AND ATMOSPHERIC ADMIN.	
DESCRIPTIVE REPORT - DATA RECORD		TYPE OF SURVEY <input checked="" type="checkbox"/> ORIGINAL <input type="checkbox"/> RESURVEY <input type="checkbox"/> REVISED	
PHOTOGRAMMETRIC OFFICE <i>Coastal Mapping Div. Rockville, Md.</i>		SURVEY TP-00612 MAP EDITION NO. 1 MAP CLASS Field Edited JOB PH-7112	
OFFICER-IN-CHARGE <i>James Collins, Commander</i>		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__	
I. INSTRUCTIONS DATED			
1. OFFICE		2. FIELD	
Aerotriangulation - Aug. 1972 Compilation - Nov. 1973 Amendment I - Jan. 1974 Amendment II - Feb. 1974		Feb. 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) STATE California ZONE 6 STATE _____ ZONE _____	
5. SCALE 1:5,000			
III. HISTORY OF OFFICE OPERATIONS			
OPERATIONS		NAME	DATE
1. AEROTRIANGULATION BY METHOD: Analytic LANDMARKS AND AIDS BY		I. O. Raborn	12/73
2. CONTROL AND BRIDGE POINTS PLOTTED BY METHOD: Coradomat CHECKED BY		D. Phillips	12/73
3. STEREOSCOPIC INSTRUMENT PLANIMETRY BY COMPILATION CHECKED BY INSTRUMENT: Wild B-8 CONTOURS BY SCALE: 1:7,500 CHECKED BY		G. Fromm & Solbeck Inapplicable Inapplicable	4/74
4. MANUSCRIPT DELINEATION PLANIMETRY BY CHECKED BY METHOD: CONTOURS BY CHECKED BY SCALE: 1:5,000 HYDRO SUPPORT DATA BY CHECKED BY		R. Rich Inapplicable Inapplicable R. Rich	5/74 6/74
5. OFFICE INSPECTION PRIOR TO FIELD EDIT BY		J. Battley	7/74
6. APPLICATION OF FIELD EDIT DATA BY CHECKED BY		J. Battley Not checked	3/76
7. COMPILATION SECTION REVIEW BY			
8. FINAL REVIEW BY		J. B. Phillips	8/76
9. DATA FORWARDED TO PHOTOGRAMMETRIC BRANCH BY			
10. DATA EXAMINED IN PHOTOGRAMMETRIC BRANCH BY		S. Blankenbaker	9/76
11. MAP REGISTERED - COASTAL SURVEY SECTION BY		E. Cator	11/76

TP-00612
COMPILATION SOURCES

I. COMPILATION PHOTOGRAPHY

CAMERA(S) Wild RC-8 "L"	TYPES OF PHOTOGRAPHY LEGEND (C) COLOR (P) PANCHROMATIC (I) INFRARED	TIME REFERENCE	
TIDE STAGE REFERENCE <input checked="" type="checkbox"/> PREDICTED TIDES <input type="checkbox"/> REFERENCE STATION RECORDS <input checked="" type="checkbox"/> TIDE CONTROLLED PHOTOGRAPHY		ZONE 8th	<input checked="" type="checkbox"/> STANDARD <input type="checkbox"/> DAYLIGHT
		MERIDIAN 120th	

	NUMBER AND TYPE	DATE	TIME	SCALE	STAGE OF TIDE
**	72L(C) 2304 - 2307	3/23/72	09:45	1:15,000	0.6 ft. above MLLW
	72L(C) 2310 - 2315	3/23/72	09:45	1:15,000	0.6 ft. above MLLW
*	72L(I) 2383 - 2385	3/23/72	11:03	1:15,000	+0.2 ft. of MLLW

REMARKS

* Tide controlled photography ** Photo-hydro support photography

2. SOURCE OF MEAN HIGH-WATER LINE:

The mean high water line was delineated from the above listed photographs, 72L(C)2310 thru 2315 using the Wild B-8 stereoplotter.

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

* The mean lower low water line was compiled from the infrared photographs listed above, which are tide controlled 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
	No junction of detail	TP-00610 1:20,000	

REMARKS Final junctions consist of matching to the details of TP-00609, on the north, and west. This compilation lies within the limits of TP-00609 (1:20,000).

TP-00612

HISTORY OF FIELD OPERATIONS

I. ☒ FIELD INSPECTION OPERATION☐ FIELD EDIT OPERATION

OPERATION	NAME	DATE
1. CHIEF OF FIELD PARTY	R. Melby	3/72
2. HORIZONTAL CONTROL	RECOVERED BY ESTABLISHED BY PRE-MARKED OR IDENTIFIED BY	R. Melby None L. Riggers
		3/72
3. VERTICAL CONTROL	RECOVERED BY ESTABLISHED BY PRE-MARKED OR IDENTIFIED BY	Inapplicable Inapplicable Inapplicable
4. LANDMARKS AND AIDS TO NAVIGATION	RECOVERED (Triangulation Stations) BY LOCATED (Field Methods) BY IDENTIFIED BY	None None 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	
7. BOUNDARIES AND LIMITS	SURVEYED OR IDENTIFIED BY	Inapplicable

II. SOURCE DATA

1. HORIZONTAL CONTROL IDENTIFIED

2. VERTICAL CONTROL IDENTIFIED
Inapplicable

PHOTO NUMBER	STATION NAME	PHOTO NUMBER	STATION DESIGNATION

3. PHOTO NUMBERS (Clarification of details)

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

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

4

NOAA FORM 76-36C
(3-72)

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

TP-00612
HISTORY OF FIELD OPERATIONS

I. ☐ FIELD INSPECTION OPERATION

☒ FIELD EDIT OPERATION

OPERATION	NAME	DATE
1. CHIEF OF FIELD PARTY	C. K. Townsend, Cdr.	3/75
2. HORIZONTAL CONTROL	RECOVERED BY	
	ESTABLISHED BY	
	PRE-MARKED OR IDENTIFIED BY	
3. VERTICAL CONTROL	RECOVERED BY	
	ESTABLISHED BY	
	PRE-MARKED OR IDENTIFIED BY	
4. LANDMARKS AND AIDS TO NAVIGATION	RECOVERED (Triangulation Stations) BY	
	LOCATED (Field Methods) BY	K. Andreen, Ens., NOAA 3/75
	IDENTIFIED BY	K. Andreen, Ens., NOAA 3/75
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	K. Andreen, Ens., NOAA 3/75
7. BOUNDARIES AND LIMITS	SURVEYED OR IDENTIFIED BY	

II. SOURCE DATA

1. HORIZONTAL CONTROL IDENTIFIED

2. VERTICAL CONTROL IDENTIFIED

PHOTO NUMBER	STATION NAME	PHOTO NUMBER	STATION DESIGNATION

3. PHOTO NUMBERS (Clarification of details)

72-L-2303-2307

4. LANDMARKS AND AIDS TO NAVIGATION IDENTIFIED

2 aids located by field methods.

PHOTO NUMBER	OBJECT NAME	PHOTO NUMBER	OBJECT NAME

5. GEOGRAPHIC NAMES: ☐ REPORT ☐ NONE

6. BOUNDARY AND LIMITS: ☐ REPORT ☐ NONE

7. SUPPLEMENTAL MAPS AND PLANS

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

Cronaflex copy of T-sheet, labeled, Master Index, containing field information.

TP-00612
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	June 1974	Class III manuscript		
Application of field edit	March 1976	Class I manuscript		3/22/76 PMC

II. LANDMARKS AND AIDS TO NAVIGATION

1. REPORTS TO MARINE CHART DIVISION, NAUTICAL DATA BRANCH

NUMBER	CHART LETTER NUMBER ASSIGNED	DATE FORWARDED	REMARKS
3	Aids	9-03-76	Forms 76-40
8	Ldmks.	9-03-76	Forms 76-40

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

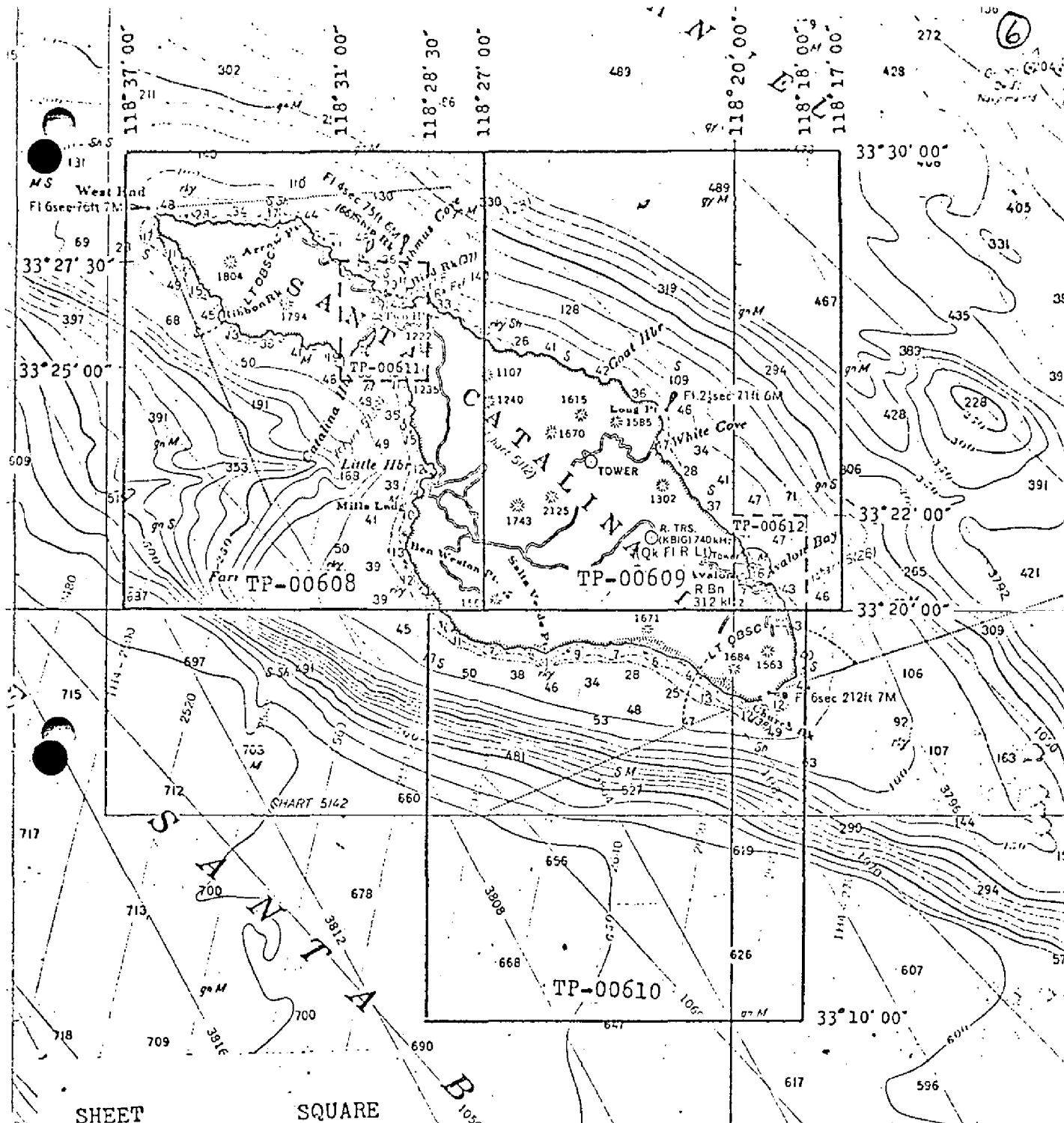
III. FEDERAL RECORDS CENTER DATA

1. ☒ BRIDGING PHOTOGRAPHS; ☒ DUPLICATE BRIDGING REPORT; ☒ COMPUTER READOUTS.
2. ☒ CONTROL STATION IDENTIFICATION CARDS; ☒ FORM NOS 76-38
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: _____

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 <input type="checkbox"/> REVISED <input type="checkbox"/> RESURVEY	
	DATE OF PHOTOGRAPHY	DATE OF FIELD EDIT	MAP CLASS <input type="checkbox"/> II. <input type="checkbox"/> III. <input type="checkbox"/> IV. <input type="checkbox"/> V. <input type="checkbox"/> FINAL	
THIRD EDITION	SURVEY NUMBER TP - _____ (3)	JOB NUMBER PH - _____	TYPE OF SURVEY <input type="checkbox"/> REVISED <input type="checkbox"/> RESURVEY	
	DATE OF PHOTOGRAPHY	DATE OF FIELD EDIT	MAP CLASS <input type="checkbox"/> II. <input type="checkbox"/> III. <input type="checkbox"/> IV. <input type="checkbox"/> V. <input type="checkbox"/> FINAL	
FOURTH EDITION	SURVEY NUMBER TP - _____ (4)	JOB NUMBER PH - _____	TYPE OF SURVEY <input type="checkbox"/> REVISED <input type="checkbox"/> RESURVEY	
	DATE OF PHOTOGRAPHY	DATE OF FIELD EDIT	MAP CLASS <input type="checkbox"/> II. <input type="checkbox"/> III. <input type="checkbox"/> IV. <input type="checkbox"/> V. <input type="checkbox"/> FINAL	



SHEET
NUMBER

SQUARE
MILES

TP-00608
TP-00609
TP-00610
TP-00611
TP-00612

20
12
12
4
2

Total

50

JOB PH-7112

SANTA CATALINA ISLAND

CALIFORNIA

SHORELINE MAPPING
SCALES 120,000 & 15,000

Revised 10-30-73 LFW

Summary PH-7112

TP-00612 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 pre-marking 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 of 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- 00612

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 aerotriangulation 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

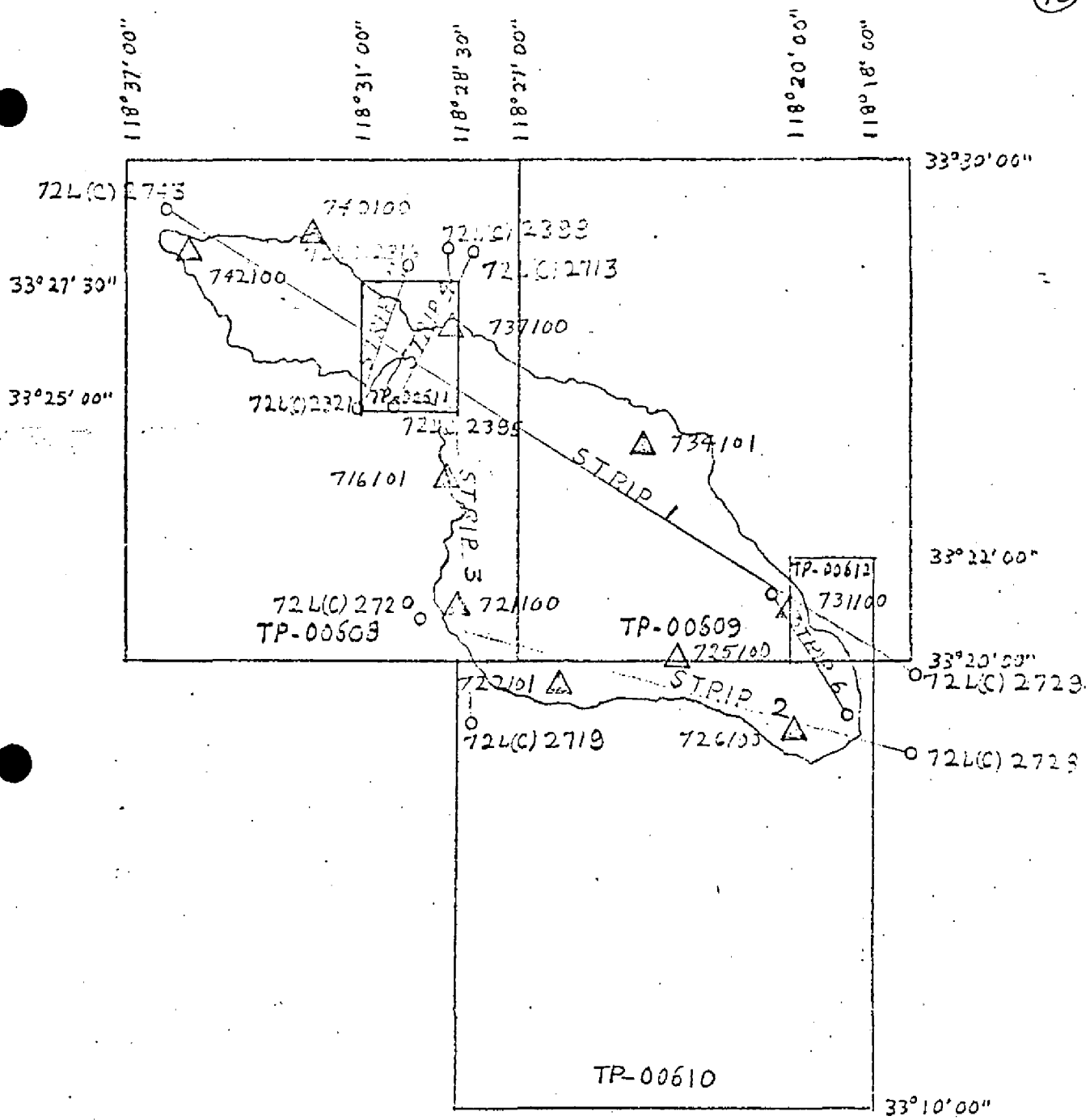
The photography was adequate as to overlap and definition.

Respectfully submitted,

Ivey O. Raborn
Ivey O. Raborn

Approved and Forwarded:

John D. Perrow, Jr.
John D. Perrow, Jr.
Chief, Aerotriangulation Section

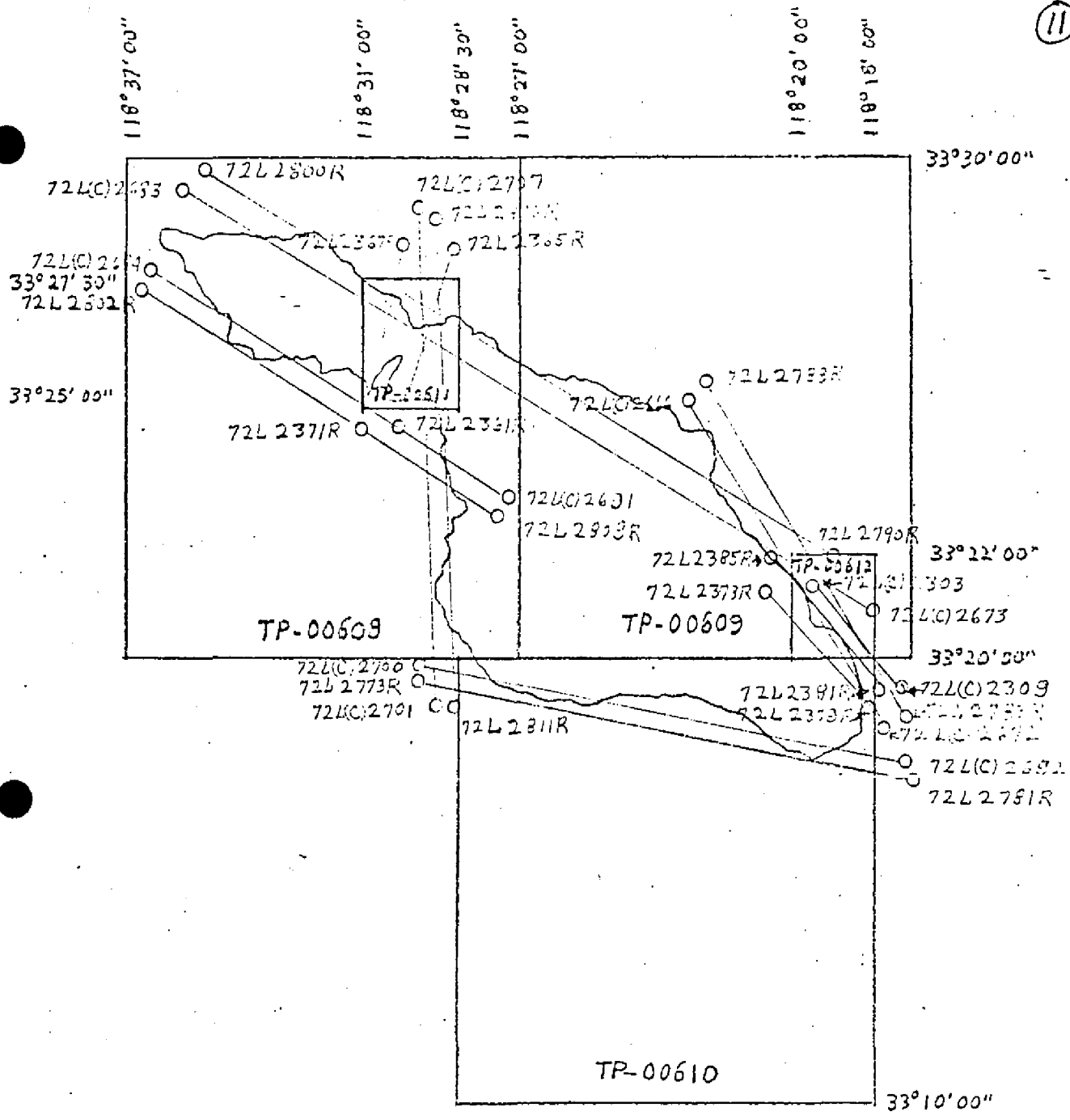


JOB PH-7112

SANTA CATALINA ISLAND
CALIFORNIA

SKETCH # 1

11



JOB PH-7112

SANTA CATALINA ISLAND
CALIFORNIA

SKETCH # 2

Compilation Report
TP-00612
Scale 1:5,000

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 infrared 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 inshore were roads, landmark buildings, landmarks and the top of bluffs considered of landmark value. This manuscript was reduced to 1:20,000 scale and applied to TP-00609.

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

Alongshore details were delineated by the Wild B-8 stereoplotter and by office interpretation of the 1972 color photographs.

The mean high water line was delineated from the 1972 color photographs. The mean lower low water line was delineated graphically from ratio tide-coordinated, infrared photographs.

36. Offshore Details

There were no offshore details compiled.

37. Landmarks and Aids

Copies of Form 76-40 for three (3) nonfloating aids to navigation and four (4) landmarks were prepared for field edit.

38. Control for Future Surveys - None

39. Junctions

See the attached Form 76-36B, item 5 of 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 quad: Santa Catalina East, California 1:24,000 scale, 1943.

47. Comparison with Nautical Charts

All work was compared to the existing nautical chart: C&GS 5128, 7th Edition, dated April 10, 1971. The chart was originally published at 1:10,000 scale but was enlarged to 1:5,000 for this purpose.

Submitted by:

Ronald Rich
Ronald Rich

Approved by:

John P. Bartley Jr.

Chief, Coastal Mapping Section

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 prior 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 wherever 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 separates 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 fogged 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, $33^{\circ} 28' 44''\text{N}$, $118^{\circ} 36' 23''\text{W}$.

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 $33^{\circ} 26' 40''\text{N}$, $118^{\circ} 28' 58''\text{W}$. 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 $33^{\circ} 21' 11''\text{N}$, $118^{\circ} 19' 40''\text{W}$ to $33^{\circ} 21' 22''\text{N}$,

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 separates 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.

<u>Program</u>	<u>Description</u>
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,

Kathryn A. Andreen

Kathryn A. Andreen
ENS. NOAA

MANUSCRIPT-PHOTO INDEX

T-SHEET

TP-00608

TP-00609

TP-00610

TP-00611

TP-00612

PHOTOS

72L2677-2682

72L2685

72L2666-2671

72L2673-2677 & 2707

72L2672

72L2316-2318

72L2396-2398

72L2303-2307

THE PACIFIC TELEPHONE AND TELEGRAPH COMPANY

Avalon, California
February 26, 1975

Commander Charles Townsend
MSS 21
NOAA Rainier



Dear Sir:

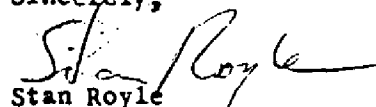
The attached copy of an FCC document indicates the location of our transmitting tower at Dakin Peak, Catalina Island, 2 mi. WNW of Avalon.

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

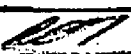
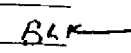
The flashing red beacon light atop the tower is in operation 24 hours a day and is located 1792 feet AMSL.

Corrections to existing charts may be in order.

Sincerely,


Stan Royle

Equipment Supervisor
Pacific Telephone Company
Box 496
Avalon, Calif 90704

1. CO	
2. XO	
3. CH ENG	
4. NAV	
5. FLD OPR	
6. ELECT	
7. SH OFF	
8. W. R.	
9. FIELD EDIT	

AT TO POINT MICROWAVE

RADIO STATION LICENSE

(Nature of service)

Fixed

COMMON CARRIER

(Class of Station)

THE PACIFIC TELEPHONE AND TELEGRAPH COMPANY

Subject to the provisions of the Communications Act of 1934, subsequent acts, and treaties, and all regulations before or hereafter made by this Commission, and further subject to the conditions and requirements set forth in license, the licensee hereof is hereby authorized to use and operate the radio transmitting facilities herein described for radio communication for the term beginning July 27, 1961, ending February 1, 1966. (U. S. eastern standard time)

Peak ORIGINAL POSTED AT

NW of Avalon, (Los Angeles, California), Lat. 33 21 00 N. Long. 118 21 05 W.
(Location of station)

(Location of authorized control point)

125 West Fifth Street, San Pedro, California.
(Location of main center)

TRANSMITTING EQUIPMENT

FREQUENCIES (Mc)	POINTS OF COMMUNICATION AND DISTANCE IN KILOMETERS	DEGREES OF AZIMUTH OF CENTRE OF MAIN LOBE OF RADIATION WITH RESPECT TO TRUE NORTH	
		DEGREES	MINUTE
		06	59
		204	29

Continued use of 928.5 & 929.5 Mc and REL transmitters is authorized until September 1, 1961 only. *Wanted to 11-24-61 per telegram REL EQ REMOVED. (when)*
Upon notice from the Commission, the use of the frequency diversity shall be forthwith terminated without hearing if, in the discretion of the Commission, such action is warranted.

NUMBER OF TRANSMITTERS	MANUFACTURER AND TYPE	EMISSION	AUTHORIZED POWER (Watts) OUTPUT
(4)	Collins, type 552A-6	FO, 11E00F2, 15000F3, 15000F4, 15000F9	0.1

Construction Marking Specifications in accordance with Paragraphs 1, 3, 11 and 21 of Form 715. *1792 11-24-61*

Operation of this Station is governed by Part 11 of the Commission's Rules.

This license is issued on the licensee's representation that the statements contained in licensee's application are true and that the undertakings therein contained, so far as they are binding on the licensee, will be carried out in good faith. The licensee shall, during the term of this license, render such service as will serve the public interest, convenience, or necessity to the full extent of the privileges herein conferred.

This license shall not vest in the licensee any right in the use of the frequencies designated in the license beyond the term hereof, nor in any other manner than authorized hereunder. The licensee nor the right granted hereunder shall be sold or otherwise transferred in violation of the Communications Act of 1934. This license is subject to the right of use or control by the Federal Communications Commission.

By Direction of the
FEDERAL COMMUNICATIONS COMMISSION

BY GRANT July 27, 1961

Ben F. Waples

PHOTOSTATIC COPY

Acting

Secretary.

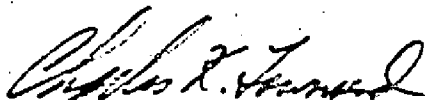
APPROVAL SHEET

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

March 15, 1976

PH-7112 Santa Catalina Island, California TP-00612

Notes on Application of Field Edit:

The shoreline area under construction, outlined in the field edit report, could only be shown as an unsurveyed or approximate MHWL until new photography can be scheduled for the area.

All landmarks located during compilation that were verified of landmark value during field edit, were not given elevations as per photogrammetric instructions.

The "Master Index" field edit cronaflex and the boatsheet referenced all offshore data (rocks and reefs) to February 25, 1975. The photos covering this area reference the same rocks, (at the same time) to the 24th of February, 1975. In conversation with Lt. J.G. Kathryn A. Andreen, it was established that the correct date was February 25, 1975. All vertical datums were thus references to 2/25/75.

All rocks not previously located but indicated by field edit were added to the manuscript.

"White Rock" is identified as two different rocks between the field "Master Index" cronaflex and photo number 72L2304. The cronaflex position was labeled, but should be verified.

In establishing the vertical datum for foreshore rocks, the following procedure was used:

All field references were to Greenwich Time; all staff readings were local time, (120W). Eight hours were thus subtracted from the field references, the height recorded applied and properly referenced to MLLW or MHW.

Jeter P. Battley Jr.
J. Battley, Jr.
Chief, Coastal Mapping
Section

REVIEW REPORT TP-00612
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.

Refer the page 25, paragraph 5, Notes on Application of Field Edit, dated March 15, 1976.

The position indicated on the master index by the field editor and the position indicated on photograph 72-L-2304 constitute two different positions for "White Rock." The hydrographic survey smooth sheet shows "White Rock" in the position as shown on all prior charts and surveys. This position is not the same as the two other positions indicated by the field editor. The final reviewer has moved the name on the T-sheet to agree with the placement on the hydrographic survey.

62. Comparison with Registered Topographic Surveys

See item 61.

63. Comparison with Maps of Other Agencies

See item 61.

64. Comparison with Contemporary Hydrographic Surveys

H-9496 1:5,000 1975

Comparison was made with this hydrographic survey. Coverage is from approximate 33°20'15" latitude north to 33°21'15".

The surveys are in agreement. Refer to item 61 of this report.

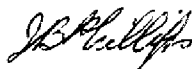
65. Comparison with Nautical Charts

See item 61.

66. Adequacy of Results and Future Surveys

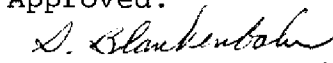
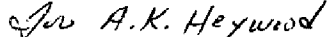
This map meets the National Standards of Map Accuracy and complies with Bureau requirements.

Submitted by:

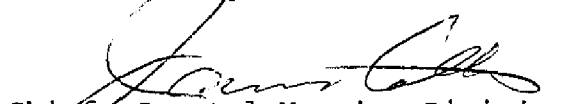


J. B. Phillips

Approved:

Chief, Photogrammetric Branch


Chief, Coastal Mapping Division

June 11, 1974

GEOGRAPHIC NAMES

FINAL NAME SHEETS

PH-7112 (Santa Catalina Island, Calif.)

TP-00612

Abalone Point
Avalon
Avalon Bay — CABRILLO PENINSULA
Casino Point
Descanso Bay
Hamilton Beach — LOVERS COVE
Pebbly Beach
San Pedro Channel
Santa Catalina Island
White Rock

Prepared by:

C. E. Harrington
C. E. Harrington
Staff Geographer

NOAA FORM 75-40
(8-74)

Replaces C&GS Form 567.

☒ TO BE CHARTED
☐ TO BE REVISED
☐ TO BE DELETEDREPORTING UNIT
(If field Party, Ship or Office)

Quality Control

Maryland

Rockville

DATE

Aug. 1976

LOCALITY

Rockville

STATE

Maryland

N.A. 1927

D.M. Meters

16.587

33 20

511.0

118 18

1409.8

54.513

23 March 1972

72L2306

V - VIS

2-25-75

5128

5112

5142

5142SC

V - VIS

2-25-75

V - VIS

2-25-75

V - VIS

2-25-75

V - VIS

2-25-75

V - VIS

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

NONFLUORESCENT LANDMARKS FOR CHARTS

OPR PROJECT NO. OPR-411-RA-75 PH-7112 SURVEY NUMBER TP-00612

REPORTING UNIT (If field Party, Ship or Office) Quality Control

STATE Maryland

LOCALITY Rockville

DATE Aug. 1976

FINAL REVIEWER

QUALITY CONTROL & REVIEW GRP.

COAST PILOT BRANCH

(See reverse for responsible personnel)

The following objects HAVE ☒ BEEN INSPECTED FROM SEAWARD TO DETERMINE THEIR VALUE AS LANDMARKS.

DATUM N.A. 1927

POSITION

LATITUDE

LONGITUDE

D.P. Meters

D.P. Meters

D.P. Meters

D.P. Meters

D.P. Meters

D.P. Meters

D.P. Meters

D.P. Meters

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D.P. Meters

D.P. Meters

D.P. Meters

D.P. Meters

ORIGINATING ACTIVITY

☐ HYDROGRAPHIC PARTY

☐ GEODETIC PARTY

☐ PHOTO FIELD PARTY

☐ COMPILATION ACTIVITY

☐ FINAL REVIEWER

☒ QUALITY CONTROL & REVIEW GRP.

☐ COAST PILOT BRANCH

(See reverse for responsible personnel)

METHOD AND DATE OF LOCATION

(See instructions on reverse side)

OFFICE

FIELD

CHARTS

AFFECTED

5128

5112

5142

5142SC

V - VIS

2-25-75

V - VIS

2-25-75

V - VIS

2-25-75

V - VIS

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V - VIS

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2-25-75

CHARTING NAME

DESCRIPTION

(Record reason for deletion of landmark or aid to navigation.

Show triangulation station names, where applicable, in parentheses.)

Tank

Tank

Tank

Flagpole

Flagpole

Cupola

Tower

Casino

(CASINO, 1934)

(FLAGSTAFF, 1934)

14.17

366.4

24 March 1972

24 March 1972

24 March 1972

24 March 1972

24 March 1972

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24 March 1972

MAP T- P-00612 PROJECT NO. PH-7112 SCALE OF MAP 1:5,000 SCALE FACTOR None

[illegible]

RECORD OF APPLICATION TO CHARTS

FILE WITH DESCRIPTIVE REPORT OF SURVEY NO. TP-00612

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]