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| Form 504 Rev. Dec. 1933 DEPARTMENT OF COMMERCE U.S. COAST AND GEODETIC SURVEY R. S. PATTON, DIRECTOR | |
| DESCRIPTIVE REPORT 4871 | |
| Topographic Hydrographic | Sheet No. S, 1934 |
| <div>U. S. COAST & GEODETIC SURVEY LIBRARY AND ARCHIVES NOV 20 1934 Acc. No. _____</div> | |
| State CALIFORNIA | |
| LOCALITY | |
| Santa Catalina Island | |
| Avalon Harbor | Bay H 5558 Adopted as name HB |
| 1934 | |
| CHIEF OF PARTY | |
| Robert W. Knox, H. & G. Engr. | |

applied to Chart 5101 - May 1936 - R.M.3

DEPARTMENT OF COMMERCE
U. S. COAST AND GEODETIC SURVEY

REG. NO. 4871

TOPOGRAPHIC TITLE SHEET

The Topographic Sheet should be accompanied by this form, filled in as completely as possible, when the sheet is forwarded to the Office.

Field No. S, 1934

REGISTER NO. **4871**

State CALIFORNIA

General locality SANTA CATALINA ISLAND

Locality Avalon Harbor *Bay with H5558 -HP*

Scale 1:5,000 Date of survey February, 19 34

Vessel Launch and Field Party, California

Chief of party Robert W. Knox

Surveyed by John C. Mathisson

Inked by D. L. Ackland

Heights in feet above HWL to ground to tops of trees

Contour, Approximate contour, Form line interval feet

Instructions dated September 13,, 19 33

Remarks:

Applied to Chart 5728 - Apr. 1935. H. J. Bantle

DESCRIPTIVE REPORT
To Accompany
TOPOGRAPHIC SHEET FIELD LETTER S, 1934
VICINITY OF DAKIN COVE
SANTA CATALINA ISLAND
CALIFORNIA
FEBRUARY 1934
ROBERT W. KNOX, CHIEF OF PARTY
SCALE 1:5,000

INSTRUCTIONS

The instructions for this survey were dated September 13, 1933.

GENERAL DESCRIPTION OF AREA

Inshore of the high water line the area of this sheet is made up of high ridges and deep valleys. It is covered with grass and brush with a few scattered trees in the bottoms of the valleys.

Some sand is found in Dakin Cove. The other beaches are composed almost entirely of gravel and boulders.

During the progress of the survey extensive quarrying operations were in progress in the area one mile north of the southern limits of the sheet. This rock was being used to construct the Federal Breakwater

at Los Angeles Harbor and the breakwater at Santa Monica. Only the large rocks were utilized. The dirt and smaller rocks were being disposed of by dumping into the water along the shore line. For this reason the high water line as well as the ground inshore is subject to a rapid change for the first mile north of the southern limits of the sheet.

CONTROL

The triangulation used in the control of this survey was executed in 1913 and 1917. Supplemental control to locate landmarks was executed by this party in 1934.

It was found to be impossible to locate control points near the water line at either the north or south limits of this sheet because of the very steep slope of the terrain.


SURVEYING METHODS

Standard methods were used in the execution of this survey. Offlying rocks and dangers were located by rod shots from traverse positions.

The area in Dakin Cove was located entirely from three-point fix positions.

Due to the impossibility of extending the triangulation system to the beach at either the north or south limits of the sheet, it was necessary in both cases to end the traverse at points which appear also on Sheet Field Letter R, 1934. The locations of both of these common points checked without appreciable error.

The road southward from Dakin Cove to Pebbly Beach was located by traverse. A wide board walk, shown on the sheet, parallels this road on the offshore side.

The buildings south of the dock --  DOK -- are part of a conveyor system used to screen gravel as it comes off the hills. The platform and stairway shown on the sheet are parts of this system.

The bluffs shown near the southern limits of the sheet are a true representation of the section at the time of the survey. A further survey will be necessary after the quarrying operations have been completed.

Tide data was forwarded to the office before this sheet was inked. For this reason it was not available for reduction, and the notations on some rocks have therefore been left in pencil. It is requested that the necessary reductions in such cases be made in the office.

CLOSING ERRORS OF TRAVERSES

All traverses closed without appreciable error.

COMPARISON WITH PREVIOUS SURVEYS

The previous survey of this area on the scale of this sheet was executed in 1928. It is Sheet Register No. 4136a.

In the immediate vicinity of Dakin Cove the agreement between the two surveys is very good.

In the area southward from Dakin Cove, the survey of 1928 agrees very well with this sheet at Pebbly Beach. In other places Sheet Register No. 4136a shows the high water line slightly offshore of the position determined by this survey.

Northward from Dakin Cove a comparison of the two surveys developed discrepancies in the location of points and slight variations in the location of the high water line.

This survey verified all rocks shown in this area by Sheet Register No. 4136a and added a few additional ones not shown on the previous survey.

LANDMARKS

For a list of landmarks for charts in the

area of this sheet see descriptive report for
Hydrographic Sheet Field No. S.C.53, 1934

GEOGRAPHIC NAMES

Pebbly Beach, the rocky beach south of
Dakin Cove, is a name in local use.

The name applied to Dakin Cove, both locally
and on the main land, is Avalon ~~Harbor~~. *Bay. To agree with H 5558
H.B.*

Sugar Loaf Rock has been moved from the position
where it is shown on the present edition of Chart No. 5128,
the point has been extended, and a large casino and
dance hall built in the locality.

INKING

This sheet was inked by a civilian draftsman
under the direct supervision of the undersigned. After
completion the sheet was thoroughly inspected to see
that no detail had been omitted.

Forwarded approved

Robert W. Knox

Robert W. Knox
H. & G. Engineer
Chief of Party

John C. Mathisson
John C. Mathisson
Jr. H. & G. Engr.
U.S.C. & G. Survey

VERIFICATION REPORT


SHEET S, 1934

SANTA CATALINA ISLAND

CALIFORNIA

I have reveiwed the sheet covered by this report and have supervised the field and office work on the sheet in so far as it was possible without interference with the progress of the field work.

This sheet is hereby approved.



Robert W. Knox
H. & G. Engineer
Chief of Party

STATISTICS
SHEET S, 1934
SANTA CATALINA ISLAND
CALIFORNIA

Statute Miles of Shore Line, 4.1

DEPARTMENT OF COMMERCE
U. S. COAST AND GEODETIC SURVEY

LANDMARKS FOR CHARTS

Long Beach, California.

Topo. 4871

November 14, 1934, 193

DIRECTOR, U.S. COAST AND GEODETIC SURVEY:

The following determined objects are prominent, can be readily distinguished from seaward from the description given below, and should be charted:

| Robert W. Knox | | | | | | Chief of Party. | | |
|--|---|-------|-------------|-----|-------|-------------------------|-----------------|------------------------------|
| DESCRIPTION | POSITION | | | | | METHOD OF DETERMINATION | CHARTS AFFECTED | |
| | LATITUDE | | LONGITUDE | | DATUM | | | |
| | ° | ' | D.M. METERS | ° | | | | ' |
| TOWER+ (Carillon) (shown as flag) | 33 | 20 | 1599.8 | 118 | 19 | 1034.1 | USStd tri | 5128 |
| FLAGPOLE (staff on 5128) crete | 33 | 20 | 931.8 | 118 | 19 | 400.9 | do do | 5128 |
| BUILDING+ white, con- (Casino 1934) | 33 | 20 | 1743.1 | 118 | 19 | 792.0 | do do | 5128 |
| | (position of center, see topographic sheet for outline) | | | | | | "S" | |
| FLAGPOLE | 33 | 21 | 484 | 118 | 19 | 1228 | USStd topo | 5128 |
| SIREN | 33 | 20 | 1173 | 118 | 19 | 518 | USStd topo | 5128 |
| CUPOLA (Gold) | 33 | 20 | 1509 | 118 | 19 | 940 | USStd topo | 5128 |
| Delete the following | | | | | | | | |
| CH. SPIRE | 33 | 20.75 | 118 | 118 | 19.72 | | | no longer visable as landmk |
| STACK | 33 | 20.62 | | 118 | 19.6 | | | obscured |
| CH. TOWER | 33 | 20.58 | | 118 | 19.64 | | | obscured |
| SOME | 33 | 20.57 | | 118 | 19.47 | | | to be removed in near future |
| | | | | | | | | |
| | | | | | | | | |
| | | | | | | | | |

A list of objects carefully selected because of their value as landmarks as determined from seaward, together with individual descriptions, must be furnished in a special report on this form, and a copy of such report must be attached by the Chief of Party to his descriptive report.

The selection, determination, and description of these points are an important factor in the value of the chart. Landmarks selected at appropriate intervals can be clearly charted. However, when none is outstanding, a group of two or three objects may by their interrelationship provide positive identification. A group so selected should be indicated.

The description of each object should be short, but such as will clearly identify it; for example, a standpipe, elevated tank, gas tank, church spire, tall stack, red chimney, radio mast, etc. Assign numerals to landmarks to indicate: (1) Offshore, (2) inshore, (3) harbor, 1, 2, 3 would be a mark useful on all charts. Generally, flagstaffs and like objects are not sufficiently permanent to chart.

U. S. GOVERNMENT PRINTING OFFICE: 1934 25379

Survey No. T 4871

GEOGRAPHIC NAMES
CALIFORNIA

Chart No. 5102 455128

Date. Dec. 17, 1934

46 Diagram No. 5102-2

Names underlined in red approved Dec 17, 1934

Harlow Bacon

* Approved by the Division of Geographic Names, Department of Interior.

For authorities see

~~C~~, Not Approved by the Division of Geographic Names, Department of Interior.

D.R. of 5556 + 5558

R, Referred to the Division of Geographic Names, Department of Interior. *R*

[illegible]

Section of Field Records

REVIEW OF TOPOGRAPHIC SURVEY NO. 4871 (1934)

Avalon Bay, Santa Catalina Island, California.

Surveyed February, 1934

Instructions dated: September 13, 1933(R.W.Knox)

Plane Table Survey - Cloth Mounted

Chief of Party - R. W. Knox.

Surveyed by - J. C. Mathisson.

1. Condition of Records.

The records conform to the requirements of the Topographic Manual with the following exceptions:

a. Scaled one-half meter distances were not laid off for checking distortion.

2. Compliance with Instructions for the Project.

The survey complies with the instructions.

3. Junction with Contemporary Surveys.

Satisfactory junctions were made at both the north and south limits of this survey with T-4884 (1934).

4. Comparison with Prior Surveys.

a. T-1606 (1878).

Although no detailed comparison of this survey with the present survey was made because of the difference in scales, the surveys were compared for general characteristics and for offshore dangers. The agreement between these surveys was found to be good.

b. T-4136a (1928).

This survey is in good agreement with the present survey except for a few slight variations which do not exceed 10 meters.

5. Field Drafting.

The field inking of the survey is good.

6. Additional Work Recommended.

The survey is complete and no additional work is required. However, attention is called to the statement in the Descriptive Report

regarding the quarrying operations in the vicinity of the southern limits of the survey. The high water line is being shifted to seaward and will require relocation after the quarrying operations are finished.

7. Superseding Prior Surveys.

Insofar as the topography actually included in the present survey is concerned, it supersedes the following surveys for charting purposes:

T-1606 (1878) in part.
T-4136a(1928) in part.

8. Reviewed by A. F. Jankowski, December 1934.

Inspected by A. L. Shalowitz.

Examined and approved:

C. K. Green, *C K Green*
Chief, Section of Field Records.

F S Borden
Chief, Section of Field Work.

L O Pollock
Chief, Division of Charts.

G Hude
Chief, Division of H. & T.