4886
6222a

6223a
6223b

1935 MAR

Form 504
Rev. Dec. 1933

DEPARTMENT OF COMMERCE
U.S. COAST AND GEODETIC SURVEY
R. S. PATTON, DIRECTOR

DESCRIPTIVE REPORT

Topographic ~~[illegible]~~ *Sheet No* S.A,N,L,& M
1934

State CALIFORNIA

LOCALITY

SOUTHERN CALIFORNIA COAST

Mexican Boundary

To

North Island

1934

CHIEF OF PARTY

Robert W. Knox, H.& G. Engr.

U.S. GOVERNMENT PRINTING OFFICE: 1934

4886 6223a
6222a 6223b

T. 6222ᵃ applied to chart 5107 F.M.A. Jan. 1936 2) Jan 23, 1936
[illegible]

Form 537a
Ed. Nov., 1929

DEPARTMENT OF COMMERCE
U. S. COAST AND GEODETIC SURVEY

U. S. COAST AND GEODETIC SURVEY
LIBRARY AND ARCHIVES
MAR 2 19..
Acc. No.
REG. NO.

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. A, 1934

REGISTER NO. 4886

State CALIFORNIA

General locality SOUTHERN CALIFORNIA COAST

Locality Mexican Boundary to ~~Silver Strand~~ Sweetwater Valley

Scale 1:10,000 Date of survey February, 1934

Vessel Launch and Shore Party, California.

Chief of party Robert W. Knox

Surveyed by G. W. Tatchell

Inked by D. L. Thompson

Heights in feet above M.H.W. to ground ~~to tops of trees~~

~~Contour Approximate contour Form line interval feet~~

Instructions dated April 14, 1932 and supplemental 19

Remarks:

Form 537a

DEPARTMENT OF COMMERCE

U. S. COAST AND GEODETIC SURVEY

MAR 1 1935

REG. NO.

TOPOGRAPHIC TITLE SHEET

Acc. No.

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

Field Letter N. 1934

REGISTER NO. 6222a

State CALIFORNIA

General locality SOUTHERN CALIFORNIA COAST

Locality Southern ~~End~~ Part of San Diego Bay ~~to National City~~

Scale 1:10,000 Date of survey July, 1934

Vessel Launch and Field Party, California

Chief of Party Robert W. Knox

Surveyed by G. W. Tatchell

Inked by D. L. Thompson

Heights in feet above M.H.W. to ground ~~[illegible]~~

~~[illegible]~~

Instructions dated April 14, 1932 and supplemental 19

Remarks:

U. S. GOVERNMENT PRINTING OFFICE: 1938

Form 537a

DEPARTMENT OF COMMERCE
U. S. COAST AND GEODETIC SURVEY

U. S. COAST & GEODETIC SURVEY
LIBRARY AND ARCHIVES
MAR 5 1935
REG. NO.
Acc. No.

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 Letter L. 1934

REGISTER NO. 6223a

State CALIFORNIA

General locality SOUTHERN CALIFORNIA COAST

Locality National City to Coronado

Scale 1:10,000 Date of survey June-July, 1934

Vessel Launch and Field Party, California

Chief of Party Robert W. Knox

Surveyed by G. W. Tatchell

Inked by D. L. Thompson

Heights in feet above M.H.W. to ground ~~to tops of trees~~

~~[illegible]~~

Instructions dated April 14, 1932 & supplemental, 19

Remarks:

U. S. GOVERNMENT PRINTING OFFICE: 1934

Form 537a

DEPARTMENT OF COMMERCE
U. S. COAST AND GEODETIC SURVEY

TOPOGRAPHIC TITLE SHEET

REG. NO.

Acc. No.

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

Field Letter M, 1934

REGISTER NO. 6223b

State CALIFORNIA

General locality SOUTHERN CALIFORNIA COAST

Locality Coronado to North Island

Scale 1:10,000 Date of survey July, 1934

Vessel Launch and Shore Party, California

Chief of Party Robert W. Knox

Surveyed by G. W. Tatchell

Inked by D. L. Thompson

Heights in feet above M.H.W. to ground ~~to tops of trees~~

~~Contour Approximate contour Form line interval feet~~

Instructions dated April 14, 1932 & supplemental. 19

Remarks:

U. S. GOVERNMENT PRINTING OFFICE: 1938

DESCRIPTIVE REPORT

To Accompany

TOPOGRAPHIC SHEETS A, N, L, and M, 1934

MEXICAN BOUNDARY TO NORTH ISLAND

CALIFORNIA

ROBERT W. KNOX, CHIEF OF PARTY

Scale 1:10,000

INSTRUCTIONS

This work was executed under instructions dated April 14, 1932, and supplemental.

INTRODUCTION

These sheets cover that portion of the coast of southern California from the Mexican boundary north to North Island, including San Diego Bay. This area is shown on topographic sheets A, N, L, and M, surveyed between February and July, 1934.

Sheet A is on Whatman's mounted paper. The use of Whatman's paper in this locality was found to be unsatisfactory due to sudden and frequent changes in climatic conditions. Periods of hot, dry sunshine alternate during the day with periods of extreme dampness caused by a wind from the ocean. This caused

marked changes in Whatman's sheets, frequently within periods of less than an hour.

Sheets N, L, and M are on aluminum topographic sheets. Due to a shortage of these sheets both sides were used. Sheet M is on the back of Sheet L. Sheet N is on the back of Sheet K, which is included in another descriptive report.

Compilation of aerial photographs of this area was going forward at the time of this survey. For this reason these four sheets show only triangulation stations, hydrographic signals, and changes in the topography which have occurred since the date of the photographs. All other topographic features, including the shore line, have been left to be determined by the photo compilers.

The limits of the sheets covered by this report are as follows:

SHEET A Mexican boundary to △ BRUSH DUNE.
SHEET N Southern end of San Diego Bay to National City.
SHEET L National City and △ BRUSH DUNE to Coronado.
SHEET M Coronado to North Island.

GENERAL DESCRIPTION

For the topography of this area see Photo-Topographic Sheets, Register Nos. 5371,5372, and 5373, and the accompanying descriptive reports.

CONTROL

The control for these sheets was plotted from the unadjusted field computations of the triangulation executed by Charles Pierce in 1933.

SURVEY METHODS

Instruments were adjusted before field work was begun. Telemeter rods were compared with a measured base and a reduction of 1% in rod readings found necessary. Rods longer than those furnished with the plane table had already been constructed and graduated to agree with the standard rods furnished. A uniform reduction of 1% was therefore made in all rod readings for distances greater than 50 meters.

Three traverses were run on Sheet A; two between triangulation stations and one between a triangulation station and a plane table three-point fix. There traverses were used to locate the hydrographic

signals along the ocean shore.

One traverse was run on Sheet M between triangulation stations.

Hydrographic signals along the coast north of △ BRUSH DUNE, and all hydrographic signals on the shores of San Diego Bay, were located by cuts from triangulation stations and plane table three-point fixes.

CLOSING ERRORS OF TRAVERSES

SHEET A	Traverse Dist. meters	Closure meters
Plane table fix to △ RADIO 2	1590	3
△ RADIO 2 to △ DUNE 2	2970	5.5
△ DUNE 2, to △ BRUSH DUNE	2650	8
SHEET M		
△ WOODEN TOWER ON BEACH to △ INNER RANGE LIGHT, FRONT, GLORIETTA BAY	2750	0

All traverses which showed a closing error were adjusted by proportion. All signals and other points located from traverses were adjusted by proportion at the time traverses were adjusted.

NOTES ON INDIVIDUAL SHEETS

SHEET A

On this sheet only control stations, hydrographic signals along the ocean shore, and a new dyke in the salt ponds at the head of San Diego Bay have been shown. This dyke was constructed after the date of the photographs.

SHEET N

Only control stations and the hydrographic signals on the shores of San Diego Bay south of National City have been shown on this sheet.

SHEET L

The control stations and hydrographic signals on the shores of San Diego Bay north of National City have been shown on this sheet. In addition a short piece of shore line about 300 meters north of BREWERY has been charted. This shore line outlines a fill made since the date of the photographs.

SHEET M

This sheet shows the control and hydrographic

signals along the shore north of △ CORONADO HOTEL TOWER. It also shows a small island made by filling since the date of the photographs about 1800 meters southeast of △ LIGHT ON BROADWAY PIER, a new pier with moored ferry about 550 meters southeast of △ LIGHT ON PROADWAY PIER, built since the date of the photographs, and several scattered piles between this pier and the island.

The stack of a power house on North Island, built since the date of the photographs, was located on this sheet. This stack was described on Form No.524, which was submitted with Photo-Topographic Sheet Register No. 5373.

LANDMARKS

List of landmarks on Form No. 567 was submitted for this area with Photo-Topographic Sheet, Register No. 5371.

GEOGRAPHIC NAMES

For a discussion of disputed geographic names in this area, see descriptive reports of Photo-Topographic Sheets, Register Nos. 5371, 5372, and 5373.

INKING

These four sheets were inked by D. Thompson, a civilian draftsman, under the personal supervision of the undersigned.

Respectfully submitted,

John C. Mathisson

John C. Mathisson
Jr. H.& G. Engineer
C.& G. Survey

Forwarded approved,

Robert W. Knox

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

VERIFICATION REPORT

I have reviewed the sheets covered by this report and have supervised the field and office work in so far as it was possible without interference with the field work.

These sheets are hereby approved.

Robert W. Knox

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

STATISTICS

Note: These sheets were executed for the purpose of locating the hydrographic signals.

SHEET A	Mexican boundary to △ BRUSH DUNE	
	Statute miles of shore line	0.71
SHEET N	Southern end of San Diego Bay to National City.	
	Statute miles of shore line	0.00
SHEET L	National City and △ BRUSH DUNE to Coronado.	
	Statite miles of shore line	0.16
SHEET M	Coronado to North Island	
	Statute miles of shore line	0.63

M-189

REVIEW OF GRAPHIC CONTROL SURVEY T- 4886 6222a 6223a ~~6223b~~ , SCALE 1:10000

Date of Review
3/3/36

1. This survey has been reviewed in connection with Air Photo Compilation Nos. T- 5371, 5372, 5373 , with particular attention to the following details:

(a) Projection has been checked in the Field.

(b) Accuracy of location of plane table control points.

(c) Discrepancies between detail on this survey and the air photo compilations listed above.

(d) Discrepancies found in descriptions submitted on Form 524 when compared with the air photo compilations listed above.

2. Refer to the reviews and descriptive reports of air photo compilations Nos. T- , , , for a more complete discussion of any errors or discrepancies found. None found.

Any material errors found on this survey are noted in subsequent paragraphs of this review, and these have been reported to the Field Records Section and the Cartographic Section.

Notes and corrections resulting from the review are shown on this survey in green.

Ralph M. Berry
Ralph M. Berry
B.G. Jones