

5032

U. S. COAST & GEODETIC SURVEY
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Form 504 Ed. June, 1928	
DEPARTMENT OF COMMERCE	
U. S. COAST AND GEODETIC SURVEY	
....., Director	
<div style="border: 1px solid black; width: 100px; height: 80px; margin: 10px auto;"></div>	
State:	
DESCRIPTIVE REPORT	
<i>Topographic</i> <i>Hydrographic</i>	} Sheet No.
LOCALITY	
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.....	
.....	
19.....	
CHIEF OF PARTY	
.....	

DESCRIPTIVE REPORT

to accompany

Sheet T 5032 Seal Beach, California.

Robert W. Knox, H. & G. E., Chief of Party.

Instructions.

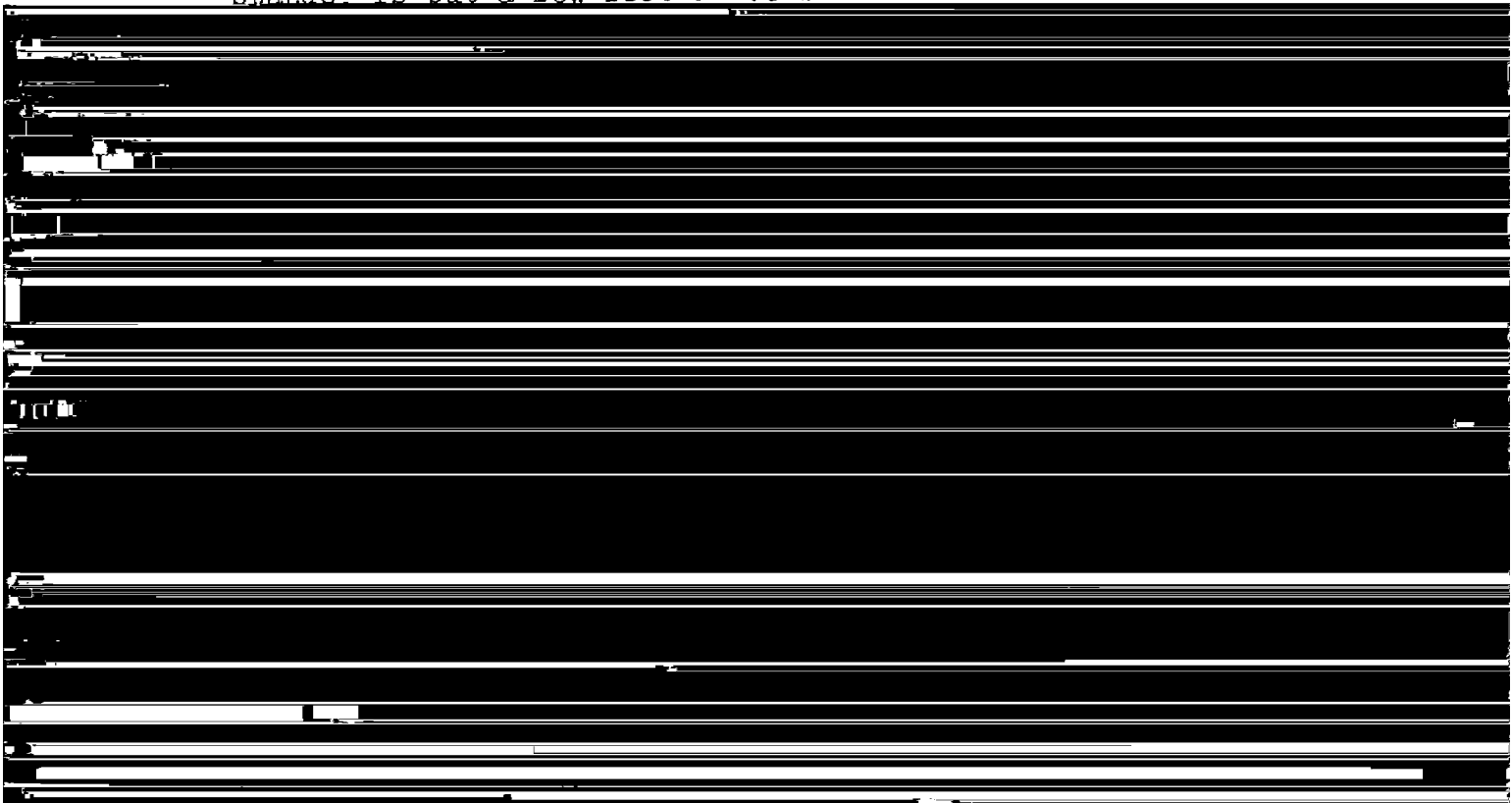
This sheet has been compiled from aerial photographs at the scale of 1:10,000, in accordance with the Director's Supplemental Instructions, Project HT-102, dated October 24, 1932.

Description of Area.

The sheet shows the eastern end of the city of Long Beach, the cities of Seal Beach and Sunset Beach, California, and much of the marsh land adjacent thereto. The larger part of the area is of low relief, the most prominent object being the plant and the concrete stack of the Los Angeles Gas and Electric Corporation, situated at the entrance to Alamitos Bay.

Physiography and Culture.

The mesa-like upland on which the city of Long Beach is situated terminates near Belmont Pier, the balance of the area, with the exception of the low spur on which Bixby Ranch stands, is but a few feet above sea level. The western end of



Names.

The names applying to this sheet are also shown on an accompanying oversheet intended to serve as a record of the name and its proper position on the map. Inasmuch as the names are none too securely attached, it is expected that many will be lost before the sheet is photographed. Names secured after the name-list was sent to Washington for printing do not appear on the sheet, but can readily be added by means of the oversheet. Words which have been stuck in position on the map are indicated by a line drawn through them, and names which must be printed and cemented in place are not so marked.

With few exceptions, the names on this sheet have been taken from the U. S. Geological Survey sheet, Long Beach, California, except for street names, which in most cases have been secured from maps published by local map publishing companies.

There is some question as to the use of the name Anahiem *or An. Bacon* Bay as it does not appear on any map available to the map compiler. However, the bay does merit a name and it is so designated by the California State Highway Department on the bridges which cross it. The name which formerly identified this area was that pertaining to the only landing in this

ent on the result of studies now under way. Further information can be secured in the future from Mr. E. C. Eaton, Chief Engineer, Los Angeles Flood Control District, Los Angeles, California.

It is of interest to superimpose this sheet over the Topographical Sheet Register No. 1345, for comparison, particularly of the marshland north of Sunset Beach. It will be noted that the important difference is in the matter of detail. Further reference to this will be made in discussion of the compilation of the sheet.

Landmarks.

On account of the low relief of this sheet, and the character of the buildings, no landmarks of importance exist with the exception of the concrete chimney on the power plant of the Los Angeles Gas and Electric plant at Seal Beach. This is of great importance, however, as its isolation and great height made it a very prominent and useful object.

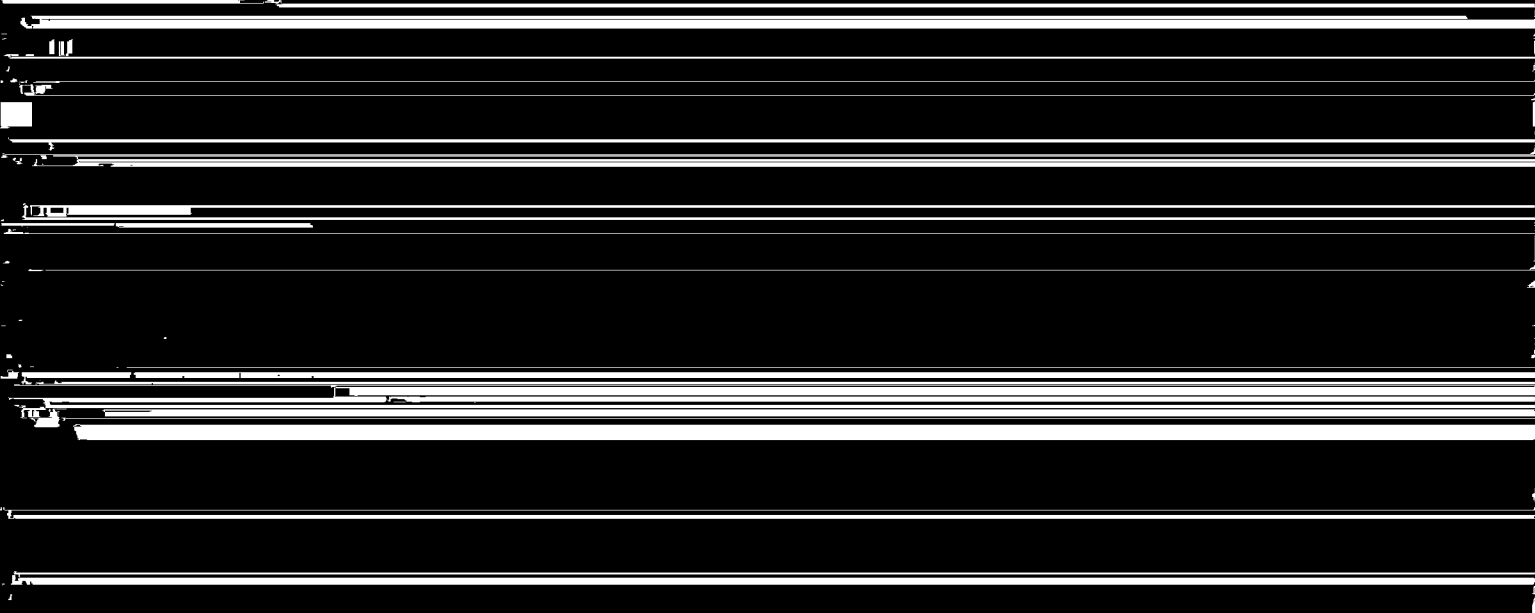
Personnel.

The drafting of the sheet was performed in a temporary field office in Long Beach, California, under the direction of Robert W. Knox, Chief of Party, in conjunction with second order triangulation of the coast line from Newport Bay to San Pedro, California.


The identification of control stations, construction of projections, compilation of the map from the aerial photographs and the computation of the triangulation, was performed by T. P. Pendleton.

The inking of the sheet was the work of K. B. Walker, except for hachures and the sand symbol, which with the placing of the stick-up lettering, was done by D. L. Ackland.

The field office was well equipped with the drafting instruments needed in map compilation, including a Keuffel and
~~Top Germany stereoscope for the stereoscopic examination of~~



Observer: S. S. Bush.
Time: 12:00 to 12:30 P.M.
Location: San Pedro, Calif., along coast to Newport.
Camera: Type T-3A No. 28-30-1, lens E.F. 6.0",
R.A. 6.8 filter. B shutter speed 1/50.



The only information available as to the time the photographs were taken and the stage of the tide is embodied in the Director's letter quoted above. It was understood from this that the time of photography for the sheet was about 12:15 P.M. and the tide was about 1.2 feet below high water stage.

Compilation.

The sheet was compiled from 5-lens photographs by use of the radial line method, in accordance with the Supplemental Instruction, Project HT-102, dated, October 24, 1932, mentioned previously, and guided by the mimeographed "Notes on the Compilation of 5-lens Photographs."

The mean scale of the photographs was determined^{by} averaging the scale of the B prints on the flight line, securing the required distance from conveniently located triangulation stations. In this case the scale of the photographs was so close to the designated scale of 1:10,000, that it was considered advantageous to compile the map at that scale rather than make a projection at some uncommon scale. This avoided all the difficulties attendant in plotting coordinates or comparing distances with other maps.

The theodolite three-point fixes used on this sheet were made to definitely locate some features whose position would otherwise have been in doubt, but they also served to give sufficient control so distributed over the sheet to enable the compiler to orient each sheet without depending on radial line locations. This eliminated the need of adjusting the radial line intersections and it is believed made the work more expeditious and accurate than it would otherwise have been.

The location of the Los Angeles-Orange County line was determined by a theodolite three-point fix at Boundary Post No. 5 and the computation of the position of the other corners from notes supplied by the County Surveyor, Los Angeles County, Los Angeles, California.

This sheet has been stained a brilliant yellow in one place but fortunately it is in an area where it can readily be painted out on the negative. The cause of the stain is unknown, but may be due to the manner in which the sheets were stored when not in use.

Comparison with other Surveys.

The only sheet with which this can be compared is the topographical sheet surveyed in 1873, bearing the Register No. 1345. Many changes are shown in the marsh lands in the western part of the sheet and naturally, cultural features have all appeared since the date of the earlier map. In the eastern part, the marsh lands seem to be much as they were years ago.

The sheet exactly joins the adjacent sheets of the same projects.

Recommendations.

The accuracy of the sheet in regard to the cultural features is believed to be within 2 or 3 meters, but the detail in the marshes may be out considerably more than this due principally to the very poor quality of the prints in these areas as men-

Air Photo

REVIEW OF ⁷ TOPOGRAPHIC SURVEY No. 5032

✓ Title (Par. 56)

Chief of Party *K.W. Knox* ^{compiled} Surveyed by *J.P. Beckett* Inked by

Ship

Instructions dated

Surveyed in *photos taken Jan 24, 1932*
compiled June 1933

1. The survey and preparation for it conform to the requirements of the Topographic Manual. (Par. 7, 8, 9, 13, 16.) *16c - Bridge clearance and span are not shown. The information required in Par. 7 is shown on the title sheet*
- ✓ 2. The character and scope of the survey satisfy the instructions.
- ✓ 3. The control and closures of traverses were adequate. (Par. 12, 29.)
4. ~~The amount of vertical control that the Manual specifies for contours and lines was accomplished. (Par. 18, 19, 20, 21, 22, 23.)~~
5. ~~The delineation of contours and lines is satisfactory. (Par. 49, 50.)~~
6. ~~There is sufficient control on maps from other sources that were~~

✓ 7. High water line on marshy and mangrove coast is clear and adequate for chart compilation. (Par. 16a, 43, 44.)

8. The representation of low water lines, reefs, coral reefs and rocks, and legends pertaining to them is satisfactory. (Par. 36, 37, 38, 39, 40, 41.) *None shown*

13. The descriptive report covers all details listed in the Manual, in so far as they apply to this survey. (Par. 64, 65, 66, 67.)
Par 67 - No list of locations of recovered objects located by the compilation were given.
- ✓14. The descriptive report also contains additional information required in aero-topography relative to type of photographs, method of compilation and type of ground control.
15. The descriptions of recoverable stations and references to shore line were accomplished on Form 524. (Par. 29, 30, 57, 67 except scaling of LMs and DPs, 68.) *No descriptions were submitted on form 524*

DEPARTMENT OF COMMERCE
U. S. COAST AND GEODETIC SURVEY

REG. NO. 5032

AIR PHOTO 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

REGISTER NO. T 5032

State California

General locality Southern Coast

Locality Sunset Beach to Long Beach

Date of photographs January 24, 1932

Scale 1:10,000 Date of compilation June 30, 1933

Lieut. Northrup, Pilot

Vessel Army Air Corps F1A airplane S. S. Bush, Photographer

Reviewed and recommended for approval

Chief of Party Lieut. R. W. Knox R. W. Knox June 30, 1933

Photographs plotted by

Surveyed by T. P. Pendleton T. P. Pendleton June 30, 1933

Inked by K. B. Walker K. B. Walker

D. L. Ackland D. L. Ackland June 30, 1933

Heights in feet above to ground to tops of trees

Contour Approximate contour Form line interval feet

Instructions dated October 24, 1932

Remarks: Compilation of aerial photographs Nos. S.P. 43-S.P. 61

Reduced to scale and printed by photo lithographic process

Polyconic projection by T. P. Pendleton T. P. P. March 3, 1933

Projection verified by K. B. Walker K. B. W. March 3, 1933

Control plotted by T. P. Pendleton T. P. P. March 3, 1933

Control verified by K. B. Walker K. B. W. March 3, 1933

Applied to chart 5148. May 20, 1943. R.A.M.