DEPARTMENT OF COMMERCE
U.S. COAST AND GEODETIC SURVEY
R.S. Patton, Director

State: California

DESCRIPTIVE REPORT
Photo
Topographic
Hydrographic

Sheet No. 4644a 4644b

LOCALITY
California
San Francisco Bay
Jagels Slough to Dumbarton
Highway Bridge

1931

CHIEF OF PARTY
O. S. Reading
Descriptive Report to Accompany
Sheet No. T-4644.

This sheet is a compilation of five lens air photographs taken
by the Army Air Corps. It is compiled from four separate flights,
the "A", "F", "AA" and "XX" flights. Of the "A" flight photographs,
A36 to A41 were included within the boundaries of the sheet; F49 to
F57; AA7 to AA1; and XX1 to XX7. (Plane - 0-25, pilot - Lieutenant
Wallace, approximate altitude - 5000 feet, camera - type T-3-A,
No. 30-1.)

Control

Triangulation stations used to control this sheet were established
by field parties in 1925, 1930 and 1931. Two supplementary control
traverses made by Lieutenant M. H. Reese were also used for control
purposes. The one begins at Station "Platform" and ends at Station
"Flagpole". The other begins at Station "View" and ends at a three
point fix called "H". The stations of these traverses are marked by
letters as shown on the sheet.

Compilation

The projection was made upon celluloid to the average scale of
the photographs of flights "A" and "XX". The average scale factor
as determined from the preliminary radial plot of the photographs is
0.936. In order to plot the detail from the "F" photographs, photostat
copies of these photographs were made, corrected for scale. The scale
factor of this flight is 1:03.

Use was made of portions of topographic sheets No. 4606 and 4626
when the shoreline was transferred from it. This transferred line was
used as a guide when the shoreline was traced from the photographs.
At station "T. Line Bend West of Mountain View Slough" the shoreline
was changed to that traced on the field photographs by Lieutenant
M. H. Reese. In this locality two lines of shore appear on the photo-
graph. It is probable that the broken line represents the limits of
vegetation. At the entrance to Whisman Slough two lines are also shown.
In this latter locality the shoreline of topographic sheet No. 4626 was
held to. It is probable that the broken line here represents the
limits of vegetation.

Difficulty was experienced in plotting the detail from station
"Mast, South of Cooley's Landing", south to the edge of the sheet, due
to poor overlap of the photographs "A" and "F" with the "XX" photographs.
At the eastern edge of the sheet in the area marked "Naval Air Base Site"
difficulty in plotting was encountered, too, due to a lack of any overlap
of centers of flight "XX" with "F" which was used in plotting the ad-
joining sheet No. 4646.

Symbols

Standard topographic symbols were used. No symbol distinction
was made for grassland areas and reclaimed marsh areas.

References

The Sanborn Maps of the city of Palo Alto were used as reference in naming the streets of this city.

Respectfully submitted,

Leonard A. McGann,

APPROVED:

O. S. Reading,
Chief of Party.

APPROVED

K. T. Adams
FIELD RECORDS (Q)

L. O. Robb
Chief, Division of Charts

Chief, Section Field Work

Chief, Div. of Hyd'Y and Topy
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. ______________

REGISTER NO. 4644A

State: California

General locality: San Francisco Bay

Locality: Dumbarton Bridge to Charleston Slough

Scale: 1:10,000

Photos taken

Date of survey: Apr. 29 and May 8 1931

Vessel: Army Air Corps Plane

Chief of Party: O. S. Reading

Surveyed by: L. A. McGann

Inked by: L. A. M

Heights in feet above...to ground...to tops of trees

Contour, Approximate contour, Form line interval.....feet

Instructions dated: ____________________________, 192

Remarks: This sheet, compilation of 5 lens air photographs

printed by photolithographic process
DEPARTMENT OF COMMERCE
U. S. COAST AND GEODETIC SURVEY

TOPOGRAPHIC TITLE SHEET
Air Photo

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. ..........................
REGISTER NO. T-4644b

State  California

General locality  San Francisco Bay
   Charleston Slough to Japet Slough
Locality  Japet Slough to Dumbarton Highway Bridge.
   Photos taken April 29, and
Scale  1:10,000  Date of survey May 8, 1931

Vessel  Army Air Corps Plane

Chief of Party  O. S. Reading

Surveyed by  L. A. McGann

Inked by  L. A. McGann

Heights in feet above ground to tops of trees

Contour, Approximate contour, Form line interval feet

Instructions dated .......................... 19....

Remarks:  This sheet, compilation of 5 lens air photographs, printed by photolithographic process.