

4529

Form 504
Ed. June, 1928

DEPARTMENT OF COMMERCE

U. S. COAST AND GEODETIC SURVEY

R. S. Patton, Director

State: Florida

Air

Photo

DESCRIPTIVE REPORT

Topographic
~~Hydrographic~~

Sheet No. 4529

4529

LOCALITY

Florida East Coast

Miami Beach to Cape Florida

1927

CHIEF OF PARTY

O. S. Reading

U. S. GOVERNMENT PRINTING OFFICE: 1928

847

DESCRIPTIVE REPORT TO ACCOMPANY AIR PHOTO TOPOGRAPHIC SHEET

REGISTER No. 4529.

Miami Beach to Cape Florida.

This sheet is a compilation of three lens Army Air Corps photographs numbers 106 to 130, second set. The photographs were taken from 4:20 to 4:30 P. M. on February 27, 1927. The tide tables predicted a high water of 2.1 feet at 4:17 P. M. this date.

The pictures were taken at an altitude a little greater than 8,000 feet giving a scale of about 1:16,000 on account of threatening clouds which made it risky to spend more time in gaining altitude.

CONTROL AND COMPILATION.

The control of the sheet is by triangulation executed in 1928 by a party from the Ship RANGER. The topography of 1919 was also used to some extent on Key Biscayne and Virginia Key. Some experimental work was done on the first plot, the chart being enlarged to the average scale of the photographs and traced in blue on a mercator projection. This lead to difficulties as the original chart projection was considerably in error due to some trouble in joining the negatives. The portion north of Virginia Key was replotted on this account. The radial method of plotting was used.

CHANGES.

Numerous changes in the street systems were found, probably due to errors in compilation from blueprints in original surveys. The remaining changes are obviously due to beach erosion or new construction.

LANDMARKS.

A separate report dated February 11, 1930 has been forwarded which covers the landmarks recommended for this sheet.

Projection The projection has been modified in the
Printing Section. Data should be transferred from
adjacent lines and not across the junction of the negatives.
No error in excess of paper distortion
will then accrue O.S.R.

O. S. Reading,
Chief of Party.

DEPARTMENT OF COMMERCE
U. S. COAST AND GEODETIC SURVEY

TOPOGRAPHIC TITLE SHEET

U. S. G. SURVEY
E. & A.
JUN 21 1930
Acc. No.

REG. NO. 4529

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. 4529

4529

State _____ Florida _____

General locality _____ East Coast _____

Locality _____ Miami Beach to Cape Florida _____

Scale 1: 20,000 Date of survey February 27, 1927

Vessel Army Air Corps Amphibian plane piloted by Lieut Guy Kirksey

Chief of Party _____ O. S. Reading _____

Surveyed by _____ O. S. Reading _____

Inked by _____ O. S. Reading _____

Heights in feet above _____ to ground to tops of trees

Contour, Approximate contour, Form line interval _____ feet

Instructions dated _____ June 6, 1929

Remarks: Compilation of three lens aerial photographs Nos 106 to 131

Reduced to 1:20,000 and printed by photolithographic process

in Printing Section.

GPO

APPROVED

K. T. Adams
FIELD RECORDS (C)

B. Borden
Chief, Section Field Work

L. O. Roberts
Chief, Division of Charts

G. W. de
Chief, Div. of Hyd'y and Top'y