

4549

U. S. COAST & GEODETIC SURVEY
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Ed. June, 1928

DEPARTMENT OF COMMERCE

U. S. COAST AND GEODETIC SURVEY

R. S. Patton, Director

State: Florida

Photo
Topographic
Hydrographic } DESCRIPTIVE REPORT
Sheet No. 4549

LOCALITY

East Coast

Indian River, four miles north of
Vero Beach to Garfield Point

1930

CHIEF OF PARTY

O. S. Reading

DESCRIPTIVE REPORT TO ACCOMPANY

AIR PHOTO TOPOGRAPHIC SHEET

No. 4549 - FOUR MILES NORTH OF VERO BEACH TO GARFIELD POINT.

This is a compilation of a single strip of air photographs, numbers 599 to 629 (fourth roll), direction of flight to northward, taken with Army Air Corps four-lens camera No. 26-1. These photographs were taken on April 29, 1928; No. 599 at about 9:45 A.M., and No. 629 at about 10:00 A.M. Low water at Indian River Inlet, as per predicted tide tables, occurred at 10:01 A.M., height 0.2 feet.

LIMITS OF SHEET No. 4549.

This sheet includes the area from the coast to about five miles inland, at the western edge of the single photographic strip, and from four miles north of Vero Beach to Garfield Point.

CONTROL.

The photo topographic control sheet 4538 was used to control the shoreline. The railroad traverse, as obtained from the Florida East Coast Railroad, was also plotted. The four steel tape road traverses measured by the air photo control party in 1929 at the towns of Gifford, Vero Beach, Oslo and Indrio, the azimuths of which were obtained by theodolite solar observations, were used to control the sheet in an easterly and westerly direction. All turning points, azimuth stations, plusses to cross-roads, etc., are shown by small red circles on the sheet.

COMPILATION.

A projection was made on the celluloid sheet and all control points plotted to the average scale of the photographs as determined by a preliminary radial plot. (Factor 1.070 x 20,000). Photostats of photo topographic control sheet No. 4538 and topographic sheets Nos. 1630 and 1544 were made to this scale. The shoreline from photostats of sheet No. 4538 was traced in black ink and from photostats of sheets 1630 and 1544 in blue ink on the celluloid sheet. A radial line graphic traverse was then plotted holding to this control. The remaining features of the photo topographic map were obtained by adjustment between the points determined by the radial plot.

CHANGES.

No appreciable change between the old shoreline and the new was noted throughout the sheet.

NAMES.

The names appearing on this sheet were taken from the U. S. Coast and Geodetic Survey charts Nos. 162 and 163 and the photo topographic control sheet No. 4538.

SYMBOLS

The standard topographic symbols were used together with the following special symbols in order to bring out the topographic character of the locality: A single full line for a ditch, a double full line for all improved, graded and paved highways and streets, a double dashed line for all unimproved but graded roads, a single short dashed line for trails and a single long dashed line for boundaries of cultivated fields and cleared fields.

The culture was noted on the photographs from the principal highways and the roads traversed during a limited field inspection. At inaccessible places the culture was interpreted in the office from the similarity noted to that obtained from the field inspection.

Respectfully submitted,

Walter J. Chovan
Walter J. Chovan,
Jr. H. & G. Engineer.

Approved:

O. S. Reading
O. S. Reading,
Chief of Party
Coast & Geodetic Survey.

APPROVED

K. T. Adams
FIELD RECORDS (C)

J. S. Borden
Chief, Section Field Work

L. O. Doherty
Chief, Division of Charts

G. H. Hude
Chief, Div. of Hyd'y and Ton'y

DEPARTMENT OF COMMERCE
U. S. COAST AND GEODETIC SURVEY

LANDMARKS FOR CHARTS

Washington, D. C.

December 6 1930

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.

O. S. Reading

Chief of Party.

[illegible]

A list of objects which are of sufficient prominence for use on the charts, together with a description of the same, 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 of primary importance.

The description of each object should be short, but such as will identify it; for example, standpipe, water tower, church spire, tank, tall stack, red chimney, radio mast, etc. Generally, flagstuffs and like objects are not sufficiently permanent to chart.

DEPARTMENT OF COMMERCE
U. S. COAST AND GEODETIC SURVEY

REG. NO. 4549

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. 4549 .

State FloridaGeneral locality East CoastNarrowsLocality 4 miles north of Vero Beach to Garfield PointScale 1:20,000 Date of survey April 29, 1928 (photos taken)Vessel Army Air Corps Loening Amphibian AirplaneChief of Party O. S. ReadingSurveyed by W. J. ChovanInked by W. J. Chovan

Heights in feet above to ground to tops of trees

Contour Approximate contour Form line interval feet

Instructions dated (Control and compilation) June 6, 1929Remarks: Compilation of four-lens air photographs Nos.599-629. Reduced to 1:20,000 and printed by photolithographic
process in Printing Section.

U. S. GOVERNMENT PRINTING OFFICE, 1925