

4601

Form 504  
Ed. June, 1923

DEPARTMENT OF COMMERCE

U. S. COAST AND GEODETIC SURVEY

R. S. Patton Director

U. S. COAST & GEODETIC SURVEY  
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JUL 27 1931

State: Florida

Acc. No.

DESCRIPTIVE REPORT

Topographic

Hydrographic

Sheet No. 4601

LOCALITY

East Coast of Florida

Key Largo, Central Part.

1931

CHIEF OF PARTY

O. S. Reading

DEPARTMENT OF COMMERCE  
U. S. COAST AND GEODETIC SURVEY

REG. NO. 4601

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. 4601

State Florida .....

General locality East Coast, ~~Florida Keys~~ .....

Locality Key Largo, Central Part .....

pictures

Scale 1:20,000 ..... Date of survey April 17 ....., 1928

~~Vessel~~ Loening Amphibian Airplane .....

Chief of Party O. S. Reading .....

Surveyed by M. H. Reese .....

Inked by M. H. Reese .....

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

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

Instructions dated (Control and Compilation) June 6 ....., 1929

Remarks: This sheet is a compilation of air photographs 367-

380 and printed by photo-lithographic process. .....

Descriptive Report to Accompany  
Air Photo Topographic Sheet No. 4601  
Key Largo, Central Part.

This sheet is a compilation of air photographs taken by the Army Air Corps' four-lens camera 26-1. Photographs 367 to 380 were taken with the plane flying northward. The Loening Amphibian was Piloted by Lieutenant J. A. Dexter, at an approximate height of 10,000 feet giving an approximate scale of 1:18,500. A preliminary radial plot was made to obtain the average scale factor of the pictures. The scale factor obtained was 1.080.

Photos 367-380 were taken April 17, 1928, between 10:15 and 10:20 A.M., two hours before a low tide of 0.4 ft., as obtained from the tide tables.

LIMITS

The area of this sheet is covered by a single strip of photographs, covering the entire area of Key Largo. The northern limit of the sheet is latitude  $25^{\circ} 13'$ , the southern limit is latitude  $25^{\circ} 03'$ .

CONTROL

The control used on this sheet was two triangulation stations established in 1930 and one recovered station of a 1908 scheme. A sun azimuth was obtained on the railroad at the point where the road intersects the railroad from triangulation station Largo Sound. Notes were obtained from the Florida East Coast Railroad for the traverse of the railroad. This traverse was plotted on the projection being tied in at  $\Delta$  Largo Sound and at  $\Delta$  East Tower.

COMPILATION

A projection was made on a celluloid sheet to the approximate scale of the photographs, using a scale factor of 1.080 as obtained from the spotting plot.

Photostats were made of topographic sheets 1154 and 758 to the scale of the projection and the shoreline traced on in blue ink.

The triangulation stations were identified and marked on the photographs by a field party in 1929 and the RANGER, 1930. The azimuth stations, turning points, pluses to roads, trails, etc., are shown by red circles.

A radial line graphic plot was made using the  $\Delta$  stations and the railroad traverse for control. The scale of the pictures was very close to the scale of the projection and very little adjusting was necessary in the plotting. The old shoreline was of no value

except near  $\Delta$  stations where the shore was rocky, as the old topography is very much in error.

Discrepancies From Old Topography

The outer shoreline agrees fairly well with this sheet, but the inside topography is all wrong. There seems to have been a large amount of sketching in the original survey.

NAMES

*Names examined and compared with Chart 1249 and H 5542 and approved with the following additions*  
*Grouper Creek, Dusenberry Creek and Little Buttonwood Sound also Key Largo. H Bacon*

The names appearing on this sheet are those on chart 1249. A lake not shown on the chart is locally named Lake Simmons. This name was obtained by Lieutenant O. S. Reading during an inspection in 1929 from a man who owns a gasoline wharf at Key Largo, Florida.

SYMBOLS

Standard topographic symbols were used throughout the sheet. A broken line with a bluff symbol was used to show the junction between high and low ground.

Respectfully submitted,

*Marshall H. Reese*  
Marshall H. Reese,  
Aid, C. & G. Survey.

APPROVED:

*O. S. Reading*  
O. S. Reading,  
Chief of Party.

APPROVED

*K. T. Adams*  
FIELD RECORDS (C)

*L. O. Pollock*  
Chief, Division of Charts

*F. B. Borden*  
Chief, Section Field Work

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