

Form 537a Ed. Nov., 1929

DEPARTMENT OF COMMERCE U. S. COAST AND GEODETIC SURVEY

j.	S. COAST &	COAST & LIBRARY AND ARCHIVES		
	NOV	9	1935	G. NO

TOPOGRAPHIC TITLE SHEET

Acc.	Ne.	William St. St. of St.
-	-	

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....B

	REGISTER NO. 6349
StateFlori	da
General locality	da Florida Keys II Key West, Fla
Locality Stock Isl	and and Boos Chics Key
Scale 1:10,000	Date of survey Nove, and Bec. , 1934
Vessel	Party No. 22
Chief of party	W. H. Bainbridge
Surveyed by	E. W. Albrecht
Inked by	E. W. Albrecht
Heights in feet above	to ground to tops of trees
Contour, Approximate	contour, Form line intervalfeet
Instructions dated	July 20 , 19 3
Remarks:	·

DESCRIPTIVE REPORT TO ACCOMPANY TOPOGRAPHIC SHEET "B", PROJECT H.T. 191, KEY WEST, FLORIDA, IN ACCORDANCE WITH INSTRUCTIONS DATED JULY 20, 1934.

GENERAL:

Topographic Sheet "B", drawn to the scale of 1:10,000, was done chiefly to provide hydrographic control points.

The sheet gives such information along the shores of Stock Island, Raccomn Key, Channel Key, and part of Boca Chica, comprising an area bound on the north by parallel 24 36 30"; on the south by parallel 24 33' 20"; on the east by meridian 81 41' 10"; on the west by meridian 81 45' 30".

That portion of Key West Island shown on Sheet "B" has been transferred from topographic Sheet "A".

The principal features on Sheet "B" are the F.E.C. Ryebridge intersected by meridian 81° 43', and the highway bridge joining, in a southeasterly direction, Stock Island and Boca Chica. A short strip of beach is presented by a full line, at the southeasterly extreme of the mentioned highway bridge, on the southwesterly tip of Boca Chica.

The dotted and dashed lines on Sheet "B" indicate very roughly a shoreline. The information was assembled from large scale maps, the transfer to this sheet having been effected by means of a pantograph. No pretense to accuracy is made relative to the shorelines, as not coming within the scope of objectives for this sheet, which was to supply primarily hydrographic control. Exact topographic data are to be obtained from aero-photography procedings, in the near future.

Mangrove growth, i.e.mangrove trees and bush cover the area shown as land on Sheet"B". Much of this mangrove growth thrives in water a foot deep and will appear as "land" or "islands" on aero-photographs without really being either.

Shoals of considerable extent make up the main submerged area of the Atlantic Ocean, on Sheet "B". The same condition holds true with regards to the northerly basins - as part of the Gulf of Mexico. Geological classification defines the bottom formation as amorphous limestone, (calcium carbonate), which local terminology frequently, but incorrectly, identifies with "Coral Rock", due to the presence - not in abundance, of low coral reefs such as are built up in all sub-tropical (and tropical) waters by polyps, i.e. rock building organisms.

LANDMARKS:

(a) Visible from the Atlantic Ocean, are:

1. The long white wooden highway bridge connecting the northeasterly tip of Stock Island with the southwesterly extreme of Boca Chica.

2. Either of the two radio towers at the U.S. Airways Station. They are of square cross-section and painted in alternate white and red horizontal sections.

3. Massive red brick masonry structure and super-structure of East Martello Tower, an obsolete fort of some historical

(b) Visible from the Gulf of Mexico:

1. Large concrete bridge of the F.E.C. Ry., near the middle of the sheet.

Visible from the air, are: Same features as cited in preceding paragraph, and, 1. Track of the F.E.C. Ry. traversing the area in a general

east-westerly direction. 2. Country Club House on the north shore of Stock Island.

3. A group of buildings on the narrow southeasterly extension of Stock Island, the most conspicuous one being the northerly high-gabled house of Mr. Martin Key (Hydrographic control point

"Key").

See upart on "Landmark". Form 567, dated oil. 23, 1935

and chart section no q, attacked to that uport. W. B. andelye CHARACTER OF CONTROL:

Vertices of first order on Sheet "B" are East Mar-The former was recovered. tello Tower and Rock Point 3.

Rock Point 3, Stock, and Channel Key were newly determined as points of second order (excepting Rock Point 3).

Newly determined were furthermore, as points of third order: N.E.Radio Tower (U.S.Airways) Country Club (East Gable), Chan, Chica, Section Corner, Coon, Long Point, Beacon No. 85 and No. 79.

By means of the well distributed triangulations system, most of the hydrographic control stations could be fixed by graphical triangulation. All set-ups or plane-table stations were located by the three-point problem. Traversing proper by the telemetric method as seemed possible on the F.E.C.Ry. track and on the highway bridge, was not relied upon as a single or principal factor of determining plane-table stations.

Hydrographic control point "Aid" (mile post) served as a plane-table set-up, at the same time. Graphical triangulation i.e. intersections, were checked by stadia distance measurements wherever possible.

TRAVERSE CLOSURES:

A criterion as to closures by traversing could not be applied in view of the fact that determinations of planetable positions by the three-point problem seemed more practical. All available sights on triangulation stations were

utilized at such set-ups.

SURVEYING METHODS USED:

The method employed to obtain the data recorded on Sheet "B" was the plane-table procedure, which means the use of the alidade, the plane-table proper, and a telemeter rod. The hydrographic control points were for the greater part determined by graphical triangulation (intersection), the remainder by distance and direction measurements.

In three instances wooden platforms had to be constructed at convenient points in shoal water so as to effect favorable intersections for plane-table operation. Various set-ups were made in water, particularly in checking the location of hydrographical control points as, Flat, Cop, Gin, Nag, and Mut.

Out of 64 hydrographic control points shown on Sheet "B", 13 have been transferred from Sheet "A" for reasons of completeness. They are: Colt, Lim, Pet, Star, Tea, Corn, Ral, Show, Free, Nose, Low, Ad, Flat.

Among the remaining 51 hydrographic control points only one, Aid, found use as a plane-table set-up.

The S.W. Radio Tower and the Tank (Elevated) in the vicinity of triangulation station Net weer located on this sheet.

CHARACTER OF MARSHES AND EXTENT COVERED BY WATER:

A location of swamps and immediate areas did not come within the scope of objectives for Sheet "B". The water near the shore lines in general is shoal; with tidal action the shore lines are inundated and will recede to a contour line difficult to determine. When the tide is low the formerly submerged area remains saturated with moisture giving the appearance of swamp land or marsh land will tout factually being of such nature. Even an approximate estimate of the extent of marshes would under the circumstances seem highly fallacious. Aero-photographic operations may shed some light on the subject.

INCOMPLETE WORK AND REASONS THEREFOR:

Topographic information of the low order as only could be presented on Sheet "B" was not considered expedient, nor economical. Aero-photographic operation is expected to satisfy this feature, at an early convenience.

MAGNETIC OBSERVATIONS:

The one station on this sheet, where magnetic observations were practiced is Tea. The results averaged with two other observations on Key West Island fixed a magnetic declination of N 2º 43'E fro Key West and was assumed to be the same for Sheet "B".

STATISTICS Area surveyed in square statute miles - - - - - - - 0.0 Length of detached shore-line in statute miles - - --- 0.5 Length of roads - - -

Respectfully submitted,

E. W. allrecht

E.W.Albrecht, Surveyor, U.S. Coast & Geodetic Survey.

Approved:

W.H.Bainbridge, H.& G.E. Chief of Party, U.S.Coast & Geodetic Survey.

Oct. 29. 1935

GEOGRAPHIC NAMES

Survey No.	6349	
Chart No.	1251	
Diagram No.	1251	

Date. Nov. 14, 1935

Approved by the Division of Geographic Names, Department of Interior. *\footnote{X} Referred to the Division of Geographic Names, Department of Interior. R

Under investigation. Q

Status	Name on Survey	Name on Chart	New Names in local use	Names assigned by Field	Location
	Key West Island	5-84 Key West		2 2 2 2 2 4	
	Cow Key Channel				
	Stock Island	same			
	Cow Key	same			
	Raccoon Key	same			
	Channel Key ok.	same			
	Bush Key	same			
	Boca Chica	same			
	F.E.C.R.R.				
	CHANNEL KEYSV	584			
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REVIEW OF GRAPHIC CONTROL SURVEY T-6349 , SCALE /: 10000 , 1934

Date of Review /2/9/38

- 1. This survey has been reviewed in connection with Air Photo Compilation Nos. T-5546, , with particular attention to the following details:
 - (a) Projection has been checked in the Field.
 - (b) Accuracy of location of plane table control points.
 - (c) Discrepancies between detail on this survey and the air photo compilations listed above.
 - (d) Discrepancies found in descriptions submitted on Form 524 when compared with the air photo compilations listed above. North
- 2. Refer to the reviews and descriptive reports of air photo compilations Nos. T- , , for a more complete discussion of any errors or discrepancies found.

Any material errors found on this survey are noted in subsequent paragraphs of this review, and these have been reported to the Field Records Section and the Cartographic Section.

Notes and corrections resulting from the review are shown on this survey in green.

prefer to air photo graphie survey T 5546

pre topography of this area. T 6349

was made for the location of hydrographie

atolises and the preliminary whething

of whose line for use on the boat wheels

prior to the completion of the air photographie

mucys.

B.g. gones

12/9/88