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RESTRICTED

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RESTRICTED

Form 504 Rev. Dec. 1933	
DEPARTMENT OF COMMERCE U.S. COAST AND GEODETIC SURVEY R. S. PATTON, DIRECTOR	
DESCRIPTIVE REPORT	
Topographic Hydrographic	Sheet No. 4 (Field)
State Bahama Islands	
LOCALITY	
Mayaguana Island	
West of Start Point	
19341	
CHIEF OF PARTY	
G. C. Mattison	

6790

DEPARTMENT OF COMMERCE
U. S. COAST AND GEODETIC SURVEY

REG. NO.

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. "4"

REGISTER NO.

T6790 RESTRICTED

State BAHAMA ISLANDS

General locality MAYAGUANA ISLAND

Locality WEST OF START POINT

Scale 1-4,800 Date of survey January, 19 41.

Vessel U.S.C. & G.S.S. "HYDROGRAPHER"

Chief of party G. C. MATTISON

Surveyed by E. B. LEWIS

Inked by E. B. LEWIS

Heights in feet above M.H.W. to ground ~~to-tops-of-trees~~

Contour, ~~Approximate-contour, Form-Line~~ interval 5 feet

Instructions dated Project H.T.-258, November 9, 19 40.

Remarks:

DESCRIPTIVE REPORT

To Accompany

Topographic Sheet No. ^{T-6790}"4", 1941

- - -

Mayaguana Island, Bahama Islands.

- - - -

G. C. Mattison, Chief of Party.

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INSTRUCTIONS:

This work was done in accordance with the Director's Instructions for Project H.T.-258 dated November 9, 1940.

LIMITS:

This sheet covers the area immediately to the northwest of Start Point, entrance to Abraham Bay, Mayaguana Island. It extends from Triangulation Station MAC (which is 0.4 mile northwest of Start Point) 1.6 miles northwest and reaches inland an average of 1/2 mile. It joins Topographic Field Sheet ^{T-6787a}"1-A", 1940, on the east and Topographic Field Sheet ^{T-6791}"5", 1941, on the northeast.

GENERAL DESCRIPTION:

The most prominent feature in the area covered by this sheet is the steep and narrow ridge extending in a northeasterly direction and terminating one mile north of Start Point. This

ridge is about 80 feet high and from seaward appears as a knowl. It is incorrectly shown as a hill on H. O. Chart No. 2805 and called "Low Point Hill". To the westward of this ridge the area is low and fairly flat.

The shoreline is of rocky ledges for almost the entire length of the sheet. It is irregular and runs in a north-westerly - southeasterly direction.

On the western part of the sheet ~~there~~ sunken reefs, with occasional rocks baring at M.L.W., parallel the shoreline at a distance of 50 to 200 meters offshore.

There are several small salt ponds - all one foot above M.H.W. - within the limits of this sheet. On the west end of the sheet and 400 meters inland is a salt water lake. The lake is connected with the ocean in several spots. The bottom is muddy with underlying rocks.

SOIL:

The surface of the ground is rocky throughout. The rocks are very irregular and sharp, quite brittle, and of a limestone appearance. The soil between the rocks is light and sandy but of ~~very~~ little depth. The area covered with soil is very small as compared with the area covered with rocks.

VEGETATION:

Most of the area is covered with impenetrable brush and trees. Adjacent to the salt ponds the undergrowth is not

so thick and the trees and brush are smaller. The brush is from 6 to 8 feet in height; the trees from 15 to 20.

CONTOURS:

Contour interval is 5 feet.

Where contours were not sufficiently controlled by elevation, they were sketched in from photographs by use of a stereoscope. Scale of photographs approximately 1-9,600.

CONTROL:

The survey was controlled by a Local Grid of Plane coordinates with Triangulation Station ABE as point of origin. Coordinates of ABE: 6,000 Meters North, 15,000 meters East.

SURVEY METHODS:

Standard Planetable Survey Methods were used.

Spirit levels were run along the beach. Elevations of Triangulation Stations MAC, NEW, and OLD, and their reference marks were determined in this manner. Elevation of Topographic Station END was also determined by spirit level. Elevation of Triangulation Station EVE and SANTA were determined by triangulation. Elsewhere elevations were determined by planetable.

All topographic signals were located by traverses run between triangulation stations.

All elevations are in feet above M.H.W. as determined by tide staff in Abraham Bay.

CLOSURES:

All traverses closed satisfactorily.

Traverses run along the beach were tied into triangulation stations on either end.

Traverses run along the cleared trails were checked either by tying into a triangulation station, or by running an independent traverse back to the beach.

GEOGRAPHIC NAMES:

MAYAGUANA ISLAND is the only geographic name used on this sheet. It is locally used and is shown on existing charts.

LOW POINT HILL shown on H. O. Chart No. 2805 is not shown on the sheet because this is not a hill, but the end of a ridge extending inland.

FRESH WATER:

There is no source of fresh water within the limits of this sheet. There is a small fresh water lake 100 meters east of Triangulation Station NEW but it is stagnant and not fit for drinking purposes.

PLANETABLE POSITIONS:

A list of planetable positions - topographic stations marked with Standard Topographic Station Disks and Reference Marks - with their elevations is attached to this report. Unless otherwise noted, these elevations were determined by spirit level.

TOPOGRAPHIC STATIONS.

SHEET "4", 1941.

<u>Station</u>	<u>Latitude</u>	<u>Longitude</u>	<u>Remarks</u>	<u>Height (in ft)</u> <u>above M.H.W.</u>
END	5,146.0 N	8,408.8 E	Topo Disk	0.601 ✓

REFERENCE MARKS.

R.M.#1 (MAC)	3,330.0 N	10,302.5 E	R.M.Disk	7.237 ✓
R.M.#2 (MAC)	3,339.0 N	10,285.5 E	" "	7.893 ✓
R.M.#1 (NEW)	4,215.6 N	9,376.2 E	" "	4.205 ✓
R.M.#2 (NEW)	4,228.5 N	9,365.8 E	" "	3.683 ✓
R.M.#1 (SANTA)	4,169.8 N	10,480.1 E	" "	32.3 * ✓
R.M.#2 (SANTA)	4,164.0 N	10,492.5 E	" "	32.1 * ✓

* Determined by planetable

List of Triangulation Stations and their Elevations

MAC	11.845 feet above M.H.W.	✓
SANTA	32.5 " " "	* ✓
EVE	34.8 " " "	* ✓
NEW	9.659 " " "	✓
OLD	9.698 " " "	✓

* Determined by triangulation.

STATISTICS

Statute Miles of Shoreline	2.0
Statute Miles of Cleared Trails	1.5 (Not indicated on smooth sheet)
Area Surveyed, Square Statute Miles	0.8
Elevations Determined by Levels	8
Elevations Determined by Triangulation	2
Elevations Determined by Planetable	327

SURVEYS SECTION

REVIEW OF TOPOGRAPHIC SURVEY NO. 6790 (1941) FIELD NO. 4

Bahama Islands, Mayaguana Island, West of Start Point
Surveyed in January 1941, Scale 1:4,800
Instructions dated November 9, 1940 (HYDROGRAPHER)

Plane Table SurveyAluminum Mounted

Chief of Party - G. C. Mattison
Surveyed by - E. B. Lewey
Inked by - E. B. Lewey
Reviewed by - Harold W. Murray, May 2, 1941
Inspected by - H. R. Edmonston

1. Junctions with Contemporary Surveys

The junctions on the northeast with T-6791 (1941)
and on the southeast with T-6787a (1940) are excellent.

2. Comparison with Prior Surveys

No prior surveys have been made by this Bureau in this
area.

3. Comparison with H. O. Chart 2805 (New Print date July 1938)

The charted information is purely of a reconnaissance
nature and no detailed comparison is necessary. The
Descriptive Report (page 1) calls attention to the fact
that the prominent charted circular hill appears as
such when viewed from seaward but is actually a straight
line ridge.

4. Compliance with Instructions for the Project

The plan, character and extent of the survey satisfy
the instructions for the project.

5. Condition of Survey

- a. The field inking of the topographic details is
excellent.
- b. The Descriptive Report is clear and satisfactorily
covers all matters of importance.
- c. No magnetic meridian is shown on the smooth sheet;
the charted variation, however, is only 2 degrees.

6. Additional Field Work Recommended

This is an excellent survey and no additional field work is necessary.

7. Superseded Surveys

There are no prior surveys by this Bureau in this area.

Examined and approved



Thos. B. Reed,
Chief, Surveys Section



Chief, Division of Charts



Chief, Section of Hydrography



Chief, Division of Coastal
Surveys