

International Atomic Energy Agency

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INTERNATIONAL URANIUM RESOURCES EVALUATION PROJECT

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NATIONAL FAVOURABILITY STUDIES

BERMUDA

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MAP OF BERMUDA

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1. INTRODUCTION

(a) Geography

The British colony of Bermuda consists of about 300 coral islands comprising a total area of 53 square kilometers. The capital is Hamilton. Bermuda is the largest of 20 inhabited islands. Other chief islands are St. George's, Watford, islands. Other chief islands are St. George's, wallold, St. David's, Boaz, Somerset, Coney and Ireland. The generally flat and rocky islands are composed largely of chalky deposits above a volcanic cone ascending 4,267 meters from the ocean floor. The highest point is 79 meters above sea level. No rivers or lakes are found in these islands which are the world's northernmost coral islands.

(b) Climate

The temperature averages 21⁰ C. and humidity is high. The average annual rainfall of 146 cm. is distributed throughout the year.

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(c) Access

The islands have 212 km. of mostly surfaced roads; there are no railways. International flights are provided from the U. S. naval air station at Kindley Field, St. George's. Bridges and a causeway link the other main islands to Great Bermuda, and ferries run between the islands.

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GEOLOGY IN RELATION TO POTENTIALLY FAVORABLE URANIUM-2. BEARING AREAS

Bermuda is composed of shallow-water, beach, and intertidal calcareous sandstone (calcarenite), eolian sandstones, and red soils. Peat beds, conglomerates, and magnetite-rich sands also Sinkhole karst topography and caves are present but are occur. partly below sea level. These deposits form a 60-meter-thick cap on a basalt volcano pedestal. Pyroclastic or reworked volcanic material occurs as high as 23 meters below sea level.

3. PAST EXPLORATION

No past exploration for uranium has been reported.

4. URANIUM OCCURRENCES AND RESOURCES

No occurrences have been reported.

5. PRESENT STATUS OF EXPLORATION

No current exploration for úranium has been reported. Mineral rights are vested in the government.

6. AREAS FAVORABLE FOR URANIUM MINERALIZATION AND POTENTIAL FOR NEW DISCOVERY

No uranium source rocks are present. Some possibly favorable host rocks and environments do occur, namely peat and littoral sandstones, karst topography, and an unconformity contact between the volcano and the sediments.

The uranium potential is estimated to be less than 1,000 tonnes.

7. <u>BIBLIOGRAPHY</u>

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