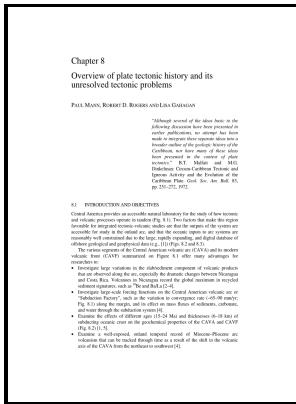


Geologic and tectonic development of the North America-Caribbean plate boundary in Hispaniola. by Paul Mann, Grenville Draper and John F. Lewis

Geological Society of America - Actively evolving microplate formation by oblique collision and sideways motion along strike



Description: -

- Geology - Hispaniola

Plate tectonics - Hispaniola

Island arcs - Hispaniola Geologic and tectonic development of the North America-Caribbean plate boundary in Hispaniola. by Paul Mann, Grenville Draper and John F. Lewis

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This paper is the first to quantify these effects, demonstrating substantial variation in slip rates over a few to tens of earthquakes, but much less at longer timescales.

SE

. Colors denote depth below sea level and elevation on land. There are currently no active volcanoes in Puerto Rico and the Virgin Islands; the last volcanoes were active approximately 30 million years ago.

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Spontaneous subduction is modelled only if extreme mechanical conditions are assumed.

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Results are compared with earthquake catalogues.

Map of the North American

We found that an increase in the sediment input to the foreland results in prolonged activity of the active frontal thrust.

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