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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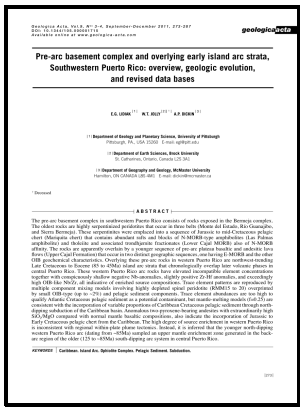
Pre-arc basement complex and overlying early island arc strata, Southwestern Puerto Rico: overview, geologic evolution, and revised data bases

Description: -
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Geology - Hispaniola
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Kinematic analysis of serpentinite structures and the manifestation of transpression in southwestern Puerto Rico

Central and Eastern Anatolia present-day Turkey accommodated Africa—Eurasia convergence in Cenozoic times.

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Posterior probability values shown on branches in grey Our combined morphometric-genetic framework provides a robust new baseline for interpreting morphological variation seen in subfossil samples of nesophontid island-shrews from the large Caribbean island of Hispaniola, and our complementary analyses clarify levels of both taxonomic diversity and evolutionary differentiation within this recently extinct island mammal fauna, providing a template for future investigation of biodiversity patterns observed in environmental archives.

Caribbean Geological Evolution

The younger domains might signal actual ages of jadeitite formation, but there is no unequivocal proof for coeval zircon-jadeite growth. Results are compared with earthquake catalogues. Moreover, these older zircon populations are indistinguishable from zircon typical of igneous oceanic crust and hence are probably inherited from igneous protoliths of the jadeite-rich rocks.

Inherited igneous zircons in jadeitite predate high

The structure and stratigraphy of the oceanic plateau terrane suggests four main tectonic phases: 1 Late Cretaceous oceanic plateau growth; 2 Latest Cretaceous deformation and erosion; 3 Paleocene-early Miocene subsidence and strike-slip faulting; and 4 early Miocene to present transpression. .

The Northeast Caribbean

Therefore, the results suggest that all investigated jadeite-rich rocks were formed by a metasomatic replacement process.

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