

1. Record Nr.	UNINA9910458183003321
Titolo	Evolutionary stasis and change in the Dominican Republic Neogene [[electronic resource] /] / edited by Ross H. Nehm and Ann F. Budd [Dordrecht?], : Springer, 2008
Pubbl/distr/stampa	
ISBN	1-281-24295-0 9786611242954 1-4020-8215-0
Edizione	[1st ed. 2008.]
Descrizione fisica	1 online resource (323 p.)
Collana	Topics in geobiology ; ; v. 30
Altri autori (Persone)	NehmRoss H BuddAnn F
Disciplina	557.293 576.8097293
Soggetti	Geology - Dominican Republic Paleobiology - Dominican Republic Geology, Stratigraphic - Neogene Electronic books.
Lingua di pubblicazione	Inglese
Formato	Materiale a stampa
Livello bibliografico	Monografia
Note generali	Description based upon print version of record.
Nota di bibliografia	Includes bibliographical references and index.
Nota di contenuto	Palaeobiological Research in the Cibao Valley of the Northern Dominican Republic -- An Overview of the Regional Geology and Stratigraphy of the Neogene Deposits of the Cibao Valley, Dominican Republic -- Constraints on Late Miocene Shallow Marine Seasonality for the Central Caribbean Using Oxygen Isotope and Sr/Ca Ratios in a Fossil Coral -- Assessing the Effects of Taphonomic Processes on Palaeobiological Patterns using Turbinid Gastropod Shells and Opercula -- Early Evolution of the Montastraea "annularis" Species Complex (Anthozoa: Scleractinia): Evidence from the Mio-Pliocene of the Dominican Republic -- Evolutionary Patterns Within the Reef Coral Siderastrea in the Mio-Pliocene of the Dominican Republic -- Neogene Evolution of the Reef Coral Species Complex Montastraea "cavernosa" -- The Dynamics of Evolutionary Stasis and Change in the 'Prunum maoense Group' -- Assessing Community Change in Miocene to Pliocene Coral Assemblages of the Northern Dominican Republic -- Mollusc Assemblage Variability in the Río Gurabo Section (Dominican

Republic Neogene): Implications for Species-Level Stasis -- The Impact of Fossils from the Northern Dominican Republic on Origination Estimates for Miocene and Pliocene Caribbean Reef Corals -- Science Education and the Dominican Republic Project -- The Neogene Marine Biota of Tropical America ("NMITA") Database: Integrating Data from the Dominican Republic Project.

Sommario/riassunto

Science is supposedly ultimately constrained by the nature of the physical world, meaning that changes in scientific methods and practice are supposed to be away from those with less utility and toward those that are more revealing, useful, and productive of insights into the nature of that world. In practice, however, science is no less susceptible to fads, culture shifts, and pendulum swings than any other realm of human endeavor. This is an especially important feature of science to keep in mind in the present climate of shrinking government funding (at least in proportion to the demand) and the resulting susceptibility of individual scientists and entire disciplines to being influenced by the changing priorities of funding agencies (even if, as such agencies maintain, those priorities come ultimately "from the community"). The present volume is in several important respects a testimonial to both the threats and opportunities that such scientific culture swings pose, both for the individual researcher and a wider field. When scientific research in the Dominican Republic Neogene began more than a century ago, paleontology was an essentially descriptive discipline, focused mainly on finding, describing, and documenting the taxa represented in the fossil record, and (especially in invertebrate paleontology) on using these taxa for biogeographic correlation. Despite the successful integration of paleontology into the Modern Evolutionary Synthesis in the middle of the twentieth century (Simpson, 1944, 1953; Jepsen et al.