Record Nr. UNINA9910450017903321 Biotic response to global change: the last 145 million years // edited **Titolo** by Stephen J. Culver and Peter F. Rawson [[electronic resource]] Pubbl/distr/stampa Cambridge:,: Cambridge University Press,, 2000 **ISBN** 1-107-11870-0 1-280-42102-9 9786610421022 0-511-17246-X 0-511-04910-2 0-511-15124-1 0-511-53550-3 0-511-31054-4 0-511-04068-7 Descrizione fisica 1 online resource (xiii, 501 pages) : digital, PDF file(s) Disciplina 577.2/2 Soggetti Paleoclimatology Climatic changes Lingua di pubblicazione Inglese **Formato** Materiale a stampa Livello bibliografico Monografia Title from publisher's bibliographic system (viewed on 05 Oct 2015). Note generali Includes bibliographical references (p. 399-473) and index. Nota di bibliografia Nota di contenuto 1. Introduction / Stephen J. Culver and Peter F. Rawson -- 2. The Cretaceous world / Andrew S. Gale -- 3. The Cenozoic world / Kevin T. Pickering -- 4. Calcareous nannoplankton and global climate change / Jackie A. Burnett, Jeremy R. Young and Paul R. Bown -- 5. Phenotypic Response of Foraminifera to episodes of global environmental change / Norman Macleod [and others] -- 6. The response of planktonic formanifera to the late Pliocene intensification of northern hemisphere glaciation / Mark R. Chapman -- 7. The response of Cretaceous cephalopods to global change / Peter F. Rawson -- 8. Global change and the fossil fish record: the relevance of systematics / Peter Forey --9. Response of shallow water foraminiferal paleocommunities to global and regional environmental change / Stephen J. Culver and Martin A. Buzas -- 10. Intrinsic and extrinsic controls on the diversification of

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Sommario/riassunto

Concern about the effects of global change on our planet's future has driven much research into the last few thousand years of earth history. In contrast, this volume takes a much longer viewpoint to provide a historical perspective to recent and future global change. Over 40 international specialists investigate the reaction of life to global environmental changes, from Cretaceous times to the turn of the century. During this time earth's climate has changed from a very warm, 'greenhouse' phase with no significant ice sheets to today's 'icehouse' world. A wide spectrum of animal, plant and protistan life is discussed, encompassing terrestrial, shallow-marine and deep-marine realms. Each chapter considers a particular taxonomic group, looking first at the general picture and then focusing on more specialized aspects such as extinctions, diversity and biogeography. This volume will form an invaluable reference for researchers and graduate students in paleontology, geology, biology, oceanography and climatology.