Ontogenetic Morphometrics of Some Late Cretaceous Trochospiral Planktonic Foraminifera from the Austral Realm

BRIAN T. HUBER

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Ontogenetic Morphometrics of Some Late Cretaceous Trochospiral Planktonic Foraminifera from the Austral Realm Brian T. Huber, 1994 Biometric analysis of ontogenetic changes in test morphology is employed to determine the taxonomic status of several trochospiral planktonic foraminiferal species from southern high latitude Upper Cretaceous sediments Ontogenetic morphometric data obtained from specimens of Hedbergella sliteri Huber Archaeoglobigerina australis Huber both micromorph and normal sized populations and Archaeoglobigerina mateola Huber are compared with topotype populations of Hedbergella holmdelensis Olsson H monmouthensis Olsson Costellagerina pilula Belford and Rugoglobigerina rugosa Plummer Southern South Atlantic specimens of Archaeoglobigerina bosquensis Pessagno and Archaeoglobigerina cretacea d Orbigny are also analyzed for comparison Numerous biometric data measured from exterior observations of whole tests contact microradiographs and Scanning Electron Microscope SEM micrograph images of serially dissected foraminifera are used to characterize developmental changes in morphology of the planktonic foraminiferal species. The most useful variables for discriminating taxonomic differences are discussed for each method Results indicate that the ontogenetic morphometric approach to study of planktonic foraminifera can be effectively used to resolve problems in taxonomic classification particularly for species that appear homeomorphic in exterior view This approach was particularly useful for demonstrating that the ontogenetic morphologies of A australis C pilula and R rugosa are very different and therefore previous assignment of A australis morphotypes to various species of Rugoglobigerina and Costellagerina were incorrect This study also demonstrates that the growth morphology of the new high latitude species H sliteri significantly differs from H holmdelensis and H monmouthensis thus confirming recognition of H sliteri as a valid taxon However taxonomic uncertainty persists for some high latitude morphotypes that have external characteristics similar to R rugosa e q faint umbilical apertures faint costellae that are meridionally aligned presence of tegilla but ontogenetic morphologies more similar to A australis Morphologic changes during ontogeny including changes in 1 shell pore characteristics pore diameter pore density and porosity 2 rates of increase in cross sectional chamber area 3 apertural position 4 chamber surface ornamentation and 5 umbilical diameter were used to recognize ontogenetic stages in the foraminiferal shells These include the prolocular juvenile neanic and adult stages The growth patterns of H holmdelensis H monmouthensis H sliteri and C pilula are very uniform and do not show discernable transitions from the juvenile to neanic and adult stages All four ontogenetic stages were recognized in A australis A bosquensis A mateola A cretacea and R rugosa although the abruptness of the transitions and the chamber number where these transitions occur are variable within and between species Recognition of these growth stages enables taxonomic identification of pre adult morphologies that occur in smaller size fractions This is particularly useful since these smaller forms have dominated in unstable environments such as the highly seasonal circum antarctic oceans **Biotic Response to Global Change** Stephen J. Culver, Peter F. Rawson, 2006-12-14 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 ice house 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 **United States Public Documents** ,1994 Biostratigraphic and Geological Significance of Planktonic Foraminifera Marcelle K. BouDagher-Fadel, 2015-10-02 The role of fossil planktonic foraminifera as markers for biostratigraphical zonation and correlation underpins most drilling of marine sedimentary sequences and is key to hydrocarbon exploration The first and only book to synthesise the whole biostratigraphic and geological usefulness of planktonic foraminifera Biostratigraphic and Geological Significance of Planktonic Foraminifera unifies existing biostratigraphic schemes and provides an improved correlation reflecting regional biogeographies Renowned micropaleontologist Marcelle K Boudagher Fadel presents a comprehensive analysis of existing data on fossil planktonic foraminifera genera and their phylogenetic evolution in time and space This important text now in its Second Edition is in considerable demand and is now being republished by UCL Press

Monthly Catalog of United States Government Publications ,1994 **Smithsonian Contributions to Paleobiology** ,1969 Biostratigraphic and Geological Significance of Planktonic Foraminifera Marcelle K. BouDagher-Fadel, 2012-12-31 Foraminifera are free living protozoa that grow an elaborate solid calcite skeleton Their well marked evolutionary record makes them of outstanding value in zonal stratigraphy. The role of fossil planktonic foraminifera as markers for biostratigraphical zonation and correlation underpins most drilling of marine sedimentary sequences and is key to hydrocarbon exploration Biostratigraphic and Geological Significance of Planktonic Foraminifera presents a comprehensive analysis of existing data on fossil planktonic foraminifera genera and their phylogenetic evolution in time and space In addition the book contains new unpublished data on carbonate thin sections with identified fossil planktonic foraminifera from the Far East to offshore Brazil and South Africa The first book to synthesize the biostratigraphic and geological usefulness of planktonic foraminifera Includes a discussion of the recent advances being enabled by molecular studies of living forms Opens a new field of dating planktonic foraminifera in carbonates and expands their usefulness in hydrocarbon Antarctic Journal of the United States ,1987 Paleobiology ,1997 Biogeography, Time and exploration **Place: Distributions, Barriers and Islands** Willem Renema, 2007-09-07 Biogeography considers the distribution of biological units over a wide range of scales The units range from genotypes populations and species to families and higher

taxa Processes can be local such as the isolation on islands due to sea level fluctuations or large scale tectonic processes that separates continents and creates oceans In all processes time is an important factor and by combining data on recent patterns with paleontological data the understanding of the distribution of extant taxa can be improved This volume focuses on speciation due to isolation in island like settings and the evolution of large scale diversity as the result of origination Morphometrics Ashraf M.T. Elewa, 2013-03-09 Morphometrics is one of the most dynamic maintenance and extinction and popular fields on the contemporary biological scene Focusing as it does on the quantitative characterization and analysis of morphological data students increasingly see morphometrics as a necessary complement to molecular studies in their quests to understand the origin and maintenance of biodiversity Moreover morphometrics has recently been shown to have direct utility in phylogenetic contexts by both finding new and sharpening the definition of old character states At this juncture in the field's development a more up to date and thorough treatment of the use of morphometric procedures in a wide variety of contexts is needed The book in hand Morphometrics provides such answers to real world questions for real world systematists Atlas of Paleocene Planktonic Foraminifera Richard K. Olsson, 1999 Sixty seven species of Paleocene planktonic foraminifera are described and illustrated including three species of Eoglobigerina four species of Parasubbotina five species of Subbotina two species of Hedbergella 10 species of Globanomalina six species of Acarinina 12 species of Morozovella three species of Igorina four species of Praemurica one species of Guembelitria one species of Globoconusa three species of Parvularugoglobigerina two species of Woodringina six species of Chiloguembelina one species of Rectoquembelina and four species of Zeauvigerina Taxonomic classification of normal perforate taxa are organized according to wall texture Spinose cancellate genera include Eoglobigerina Parasubbotina and Subbotina cancellate nonspinose genera include Igorinina and Praemurica smooth walled genera include Hedbergella and Globanomalina and muricate genera include Acarinina and Morozovella Taxonomic classification of microperforate taxa including Guembelitria Globoconusa Parvularugoglobigerina Woodringina Chiloguembelina Rectoguembelina and Zeauvigerina are organized according to test morphology Scanning electron microscope SEM images of type species described by Morozova in the collections of the Geological Institute Academy of Sciences GAN Moscow and the type material described by Subbotina in the collections of the All Union Petroleum Scientific Research Geological Prospecting Institute VNIGRI St Petersburg are shown on Plates 8 12 Twelve species described by Morozova nine species described by Subbotina and one species described by Bykova are illustrated In addition SEM images of 28 holotypes and two paratypes from the Smithsonian Institution collections are shown on Plates 13 17 and the lectotype for Globigerina compressa Plummer 1926 and the neotype for Globorotalia monmouthensis Olsson 1961 are designated and illustrated with SEM images Paleobiogeographic maps showing the global distribution of 29 commonly occurring Paleocene taxa are included in the atlas as well as figures showing the stratigraphic ranges of species by genus and stratigraphic first and last appearances. The biostratigraphic framework used in

the atlas is the revised biostratigraphy given in Berggren et al 1995 which is summarized in the atlas Wall texture and morphological relationships between species and genera form the basis of phylogenetic interpretations. This is discussed in the section Wall Texture Classification and Phylogeny and is referenced to Plates 1 7 Ontogeny, Intraspecific Variation, and Systematics of the Late Cambrian Trilobite Dikelocephalus Nigel C. Hughes, 1994 Biometric analyses of well localized specimens of the trilobite Dikelocephalus from the St Lawrence Formation Upper Cambrian northern Mississippi Valley suggest that all specimens belong to a single highly variable morphospecies D minnesotensis A complex pattern of ontogenetically related and ontogeny independent variation produced a mosaic of morphotypes which show greater diversity than previously recorded within trilobite species There is considerable variation within collections made from single beds Variations of characters among collections are mosaic and are clinal in some cases Patterns of variation within Dikelocephalus cannot be related to lithofacies occurrence There are no obvious temporal variations in D minnesotensis within the St Lawrence Formation but some Dikelocephalus from the underlying Tunnel City Group may belong to a different taxon The validity of this early taxon is questionable due to a lack of available material The mosaic pattern of variation in Dikelocephalus mimics that documented at higher taxonomic levels in primitive libristomate trilobites and helps explain difficulties in providing a workable taxonomy of primitive trilobites Results caution proposition of evolutionary scenarios that do not take account of intraspecific variation The recovery of dorsal shields of Dikelocephalus permits the first detailed reconstruction of the entire exoskeleton The systematics of the genus is revised and twenty five species are suppressed as junior synonyms of D minnesotensis Geometric Morphometrics for Biologists Miriam Zelditch, Donald Swiderski, H. David Sheets, 2012-09-24 The first edition of Geometric Morphometrics for Biologists has been the primary resource for teaching modern geometric methods of shape analysis to biologists who have a stronger background in biology than in multivariate statistics and matrix algebra These geometric methods are appealing to biologists who approach the study of shape from a variety of perspectives from clinical to evolutionary because they incorporate the geometry of organisms throughout the data analysis The second edition of this book retains the emphasis on accessible explanations and the copious illustrations and examples of the first updating the treatment of both theory and practice The second edition represents the current state of the art and adds new examples and summarizes recent literature as well as provides an overview of new software and step by step guidance through details of carrying out the analyses Contains updated coverage of methods especially for sampling complex curves and 3D forms and a new chapter on applications of geometric morphometrics to forensics Offers a reorganization of chapters to streamline learning basic concepts Presents detailed instructions for conducting analyses with freely available easy to use software Provides numerous illustrations including graphical presentations of important theoretical concepts and demonstrations of alternative approaches to presenting results Ammonoid Paleobiology: From anatomy to ecology Christian Klug, Dieter Korn, Kenneth De

Baets, Isabelle Kruta, Royal H. Mapes, 2015-07-22 This two volume work is a testament to the abiding interest and human fascination with ammonites We offer a new model to explain the morphogenesis of septa and the shell we explore their habitats by the content of stable isotopes in their shells we discuss the origin and later evolution of this important clade and we deliver hypotheses on its demise The Ammonoidea produced a great number of species that can be used in biostratigraphy and possibly this is the macrofossil group which has been used the most for that purpose Nevertheless many aspects of their anatomy mode of life development or paleobiogeographic distribution are still poorly known Themes treated are biostratigraphy paleoecology paleoenvironment paleobiogeography evolution phylogeny and ontogeny Advances such as an explosion of new information about ammonites new technologies such as isotopic analysis tomography and virtual paleontology in general as well as continuous discovery of new fossil finds have given us the opportunity to present a comprehensive and timely state of the art compilation Moreover it also points the way for future studies to further enhance our understanding of this endlessly fascinating group of organisms

Bibliography and Index of Micropaleontology ,2002

Conus of the Southeastern United States and Caribbean Alan J. Kohn,2014-08-31 Conus is the largest genus of animals in the sea occurring throughout the world's tropical and subtropical oceans and contributing significantly to marine biodiversity. The shells of these marine mollusks are prized for their amazing variety and extraordinary beauty. The neurotoxic venoms they produce injected by a hollow harpoon like tooth into prey animals that are then paralyzed and swallowed whole have a range of pharmaceutical applications from painkillers to antidepressants. This beautifully illustrated book identifies 53 valid species of the southeastern United States and the Caribbean a region that supports a diverse but taxonomically challenging group of Conus Introductory chapters cover the evolution and phylogeny of the genus and notes on methodology are provided Detailed species accounts describe key identification features taxonomy distribution ecology toxicology life history and evolutionary relationships. The book includes more than 2 100 photos of shells on 109 splendid color plates more than 100 additional photos many depicting live animals in color and 35 color distribution maps Identifies 53 valid species the first reassessment of western Atlantic Conus in more than seventy years Features more than 2 100 photos of shells on 109 color plates Blends the traditional shell character approach to identification with cutting edge shell and radular tooth morphometrics and molecular genetic analyses Includes color images of live animals as well as color distribution maps

Morphometrics for Nonmorphometricians Ashraf M.T. Elewa,2010-06-01 Morphometrics is concerned with the study of variations and change in the form size and shape of organisms or objects adding a quantitative element to descriptions and thereby facilitating the comparison of different objects and organisms This volume provides an introduction to morphometrics in a clear and simple way without recourse to complex mathematics and statistics This introduction is followed by a series of case studies describing the variety of applications of morphometrics from paleontology and evolutionary ecology to archaeological artifacts analysis This is followed by a presentation of future applications of

morphometrics and state of the art software for analyzing and comparing shape **Spinal Evolution** Ella Been, Asier Gómez-Olivencia, Patricia Ann Kramer, 2019-08-07 The vertebral spine is a key element of the human anatomy Its main role is to protect the spinal cord and the main blood vessels The axial skeleton with its muscles and joints provides stability for the attachment of the head tail and limbs and at the same time enables the mobility required for breathing and for locomotion Despite its great importance the vertebral spine is often over looked by researchers because a vertebrae are fragile in nature which makes their fossilization a rare event b they are metameric seriated and repeated elements that make their anatomical determination and thus their subsequent study difficult and c the plethora of bones and joints involved in every movement or function of the axial skeleton makes the reconstruction of posture breathing mechanics and locomotion extremely difficult It is well established that the spine has changed dramatically during human evolution Spinal curvatures spinal load transmission and thoracic shape of bipedal humans are derived among hominoids Yet there are many debates as to how and when these changes occurred and to their phylogenetic functional and pathological implications In recent years renewed interest arose in the axial skeleton New and exciting finds mostly from Europe and Africa as well as new methods for reconstructing the spine have been introduced to the research community New methodologies such as Finite Element Analysis trabecular bone analysis Geometric Morphometric analysis and gait analysis have been applied to the spines of primates and humans These provide a new and refreshing look into the evolution of the spine Advanced biomechanical research regarding posture range of motion stability and attenuation of the human spine has interesting evolutionary implications Until now no book that summarizes the updated research and knowledge regarding spinal evolution in hominoids has been available The present book explores both these new methodologies and new data including recent fossil morphological biomechanical and theoretical advances regarding vertebral column evolution In order to cover all of that data we divide the book into four parts 1 the spine of hominoids 2 the vertebral spine of extinct hominins 3 ontogeny biomechanics and pathology of the human spine and 4 new methodologies of spinal research These parts complement each other and provide a wide and comprehensive examination of spinal evolution Variability of Late Pleistocene and Holocene Microlithic Industries in Northern and Eastern Africa Latifa Sari, Giuseppina Mutri, 2022-11-22 This book addresses the question of variability in backed bladelet based technologies It also examines the role of LSA microlithic industries as adaptive strategies for coping with paleoenvironmental changes in North Africa The multidisciplinary research activities conducted in caves and open air sites in North Africa over the past two decades have highlighted the importance of this region for understanding the development of LSA microlithic technologies in Africa This book therefore enriches the debate of origin and the spread of Late Pleistocene microlithic technologies in North Africa and beyond Previously published in African Archaeological Review Volume 37 issue 3 September 2020

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