

Methods in Paleocology: Reconstructing Cenozoic Terrestrial Environments and Ecological Communities

This edited volume will be a comprehensive review of current techniques and their application in recent studies. It is intended to be a resource for current researchers, graduate students, and advanced undergraduates interested in the field of paleocology. Its structure will make it suitable for teaching a college-level course on reconstructing Cenozoic ecosystems.

Table of Contents

Section 1 Contextual Studies

Chapter 1.1	Introduction	Denise Su
Chapter 1.2	Mammal Community Structure Analysis	Kris Kovarovic, Kari Lintulaakso & Denise Su
Chapter 1.3	Paleoclimate and paleoecological reconstruction using fossil leaves	Dan Peppe
Chapter 1.4	Phytoliths in Paleocology	Caroline Strömberg, Regan Dunn, Camilla Crifò & Elisha Harris
Chapter 1.5	Pollens	Surangi Punyasena
Chapter 1.6	Ichnofossils	Dan Hembree
Chapter 1.7	Paleosols	Gary Stinchcomb

Section 2 Organismal Approaches

Chapter 2.1	Introduction	Darin Croft
Chapter 2.2	Ecomorphology	Andrew Barr
Chapter 2.3	Postcranial Functional Morphology	Rachel Dunn
Chapter 2.4	Evolutionary Dental Morphology	Alistair Evans & Silvia Pineda-Munoz
Chapter 2.5	Mesowear and Microwear	Jeremy Green & Darin Croft
Chapter 2.6	Estimation of Body Size in Fossil Mammals	Samantha Hopkins

Section 3 Special Techniques

Chapter 3.1	Introduction	Scott Simpson
Chapter 3.2	Organic Geochemical Proxies	Melissa Berke
Chapter 3.3	Biominerals	Pennilyn Higgins
Chapter 3.4	Tooth and Bone Microstructure	Russell Hogg
Chapter 3.5	Ecometrics	Michelle Lawing
Chapter 3.6	3D Geomorphometrics	Sabrina Curran