

PUBLISHED BY THE PRESS SYNDICATE OF THE UNIVERSITY OF CAMBRIDGE
The Pitt Building, Trumpington Street, Cambridge CB2 1RP, United Kingdom

CAMBRIDGE UNIVERSITY PRESS
Journals Fulfillment Department, UPH, Shaftesbury Road,
Cambridge, CB2 8BS, UK, United Kingdom
One Liberty Plaza, New York, NY 10006, USA
477 Williamstown Road, Port Melbourne, VIC 3207, Australia
Ruiz de Alarcón 13, 28014 Madrid, Spain
Dock House, The Waterfront, Cape Town 8001, South Africa

Printed and bound in the UK by Bell & Bain Ltd, Glasgow

Contents

GEOLOGICAL MAGAZINE

PREFACE

Introduction: Advances in Palaeogeography 179-181
G. Meinhold

REVIEW ARTICLES

A historical account of how continental drift and plate tectonics provided the framework for our current understanding of palaeogeography 182-207
G. Meinhold & A. M. Celâl Şengör

Plate tectonic modelling: review and perspectives 208-241
Christian Vérard

ORIGINAL ARTICLES

The integration of palaeomagnetism, the geological record and mantle tomography in the location of ancient continents 242-260
Trond H. Torsvik & L. Robin M. Cocks

Full-plate modelling in pre-Jurassic time 261-280
Mathew Domeier & Trond H. Torsvik

The pre-orogenic detrital zircon record of the Peri-Gondwanan crust 281-307
Tobias Stephan, Uwe Kroner & Rolf L. Romer

Palaeogeological hiatus surface mapping: a tool to visualize vertical motion of the continents 308-319
Anke M. Friedrich

PANALESIS: towards global synthetic palaeogeographies using integration and coupling of manifold models 320-330
Christian Vérard

Palaeolatitudinal distribution of lithologic indicators of climate in a palaeogeographic framework 331-354
Wenchao Cao, Simon Williams, Nicolas Flament, Sabin Zahirovic, Christopher Scotese & R. Dietmar Müller

A sink- or a source-driven carbon cycle at the geological timescale? Relative importance of palaeogeography versus solid Earth degassing rate in the Phanerozoic climatic evolution 355-365
Yves Goddérés & Yannick Donnadieu

Palaeogeography in exploration 366-407
Paul J. Markwick

Cambridge Core

For further information about this journal please go to the journal website at: [cambridge.org/geo](https://www.cambridge.org/geo)



MIX
Paper from
responsible sources
FSC® C007785

**CAMBRIDGE
UNIVERSITY PRESS**