Paleobiology Letters - Rapid Communication	
The Paleobiology Database application programming interface Shanan E. Peters and Michael McClennen	1
Featured Article	
Evolution of body mass in the Pan-Alcidae (Aves, Charadriiformes): the effects of combining neontological and paleontological data <i>N. Adam Smith</i>	8
Articles	
Paleocommunity Analysis of the Burgess Shale Tulip Beds, Mount Stephen, British Columbia: Comparison with the Walcott Quarry and Implications for Community Variation in the Burgess Shale Lorna J. O'Brien and Jean-Bernard Caron	27
Inferring skeletal production from time-averaged assemblages: skeletal loss pulls the timing of production pulses towards the modern period Adam Tomašových, Susan M. Kidwell, and Rina Foygel Barber	54
Evidence for specific adaptations of fossil benthic foraminifera to anoxic—dysoxic environments Aaron Meilijson, Sarit Ashckenazi-Polivoda, Peter Illner, Heiko Alsenz, Robert P. Speijer, Abuva Almogi-Labin, Shimon Feinstein, Wilhelm Piittmann, and Sigal Abramovich	77
Comparative dental microwear of ruminant and perissodactyl molars: Implications for paleodietary analysis of rare and extinct ungulate clades Matthew C. Miblbachler, Daniel Campbell, Michael Ayoub, Charlotte Chen, and Isbrat Ghani	98
Effects of the early Toarcian Oceanic Anoxic Event on ichthyosaur body size and faunal composition in the Southwest German Basin Erin E. Maxwell and Peggy Vincent	117
Comparative size evolution of marine clades from the Late Permian through Middle Triassic Ellen K. Schaal, Matthew E. Clapham, Brianna L. Rego, Steve C. Wang and Jonathan L. Payne	127
Strontium isotopes and the long-term residency of thalattosuchians in the freshwater environment Jeremy E. Martin, Uthumporn Deesri, Romain Liard, Athiwat Wattanapituksakul, Suravech Suteethorn, Komsorn Lauprasert, Haiyan Tong, Eric Buffetaut, Varavudh Suteethorn, Guillaume Suan, Philippe Telouk, and Vincent Balter	143
The Effect of Taxonomic Corrections on Phanerozoic Generic Richness Trends in Marine Bivalves with a Discussion on the Clade's Overall History Subbronil Mondal and Peter J. Harries	157
Invited Essay - In Memoriam	
The Contributions of David Malcolm Raup (24 April 1933–9 July 2015) Michael Foote and Arnold I. Miller	172



PALEOBIOLOGY

EDITORS

Michał Kowalewski, Senior Editor Jonathan I. Bloch, Douglas S. Jones, and Bruce J. MacFadden, Co-Editors Florida Museum of Natural History

ASSOCIATE EDITORS

Martin Aberhan, Museum für Naturkunde Berlin Kevin Boyce, Stanford University
Julia Clarke, University of Texas
James Crampton, GNS Science
David L. Fox, University of Minnesota
Anjali Goswami, University College London
Jason Head, University of Nebraska
Wolfgang Kiessling, Universität Erlangen-Nurnberg
Cynthia Looy, University of California Berkeley
Mark D. Uhen, George Mason University
Shuhai Xiao, Virginia Tech

MANAGING EDITOR:

Sara A. Marcus

FOUNDING EDITORS:

Thomas J. M. Schopf and Ralph G. Johnson



MEMBERSHIP INFORMATION

Members of the Paleontological Society automatically receive electronic subscriptions to *Paleobiology* and the *Journal of Paleontology* as a benefit of membership. To apply for individual membership, please go to the Paleontological Society's homepage at http://paleosoc.org/ where links to an electronic application, a printable paper application form, and a complete list of membership benefits are provided under the Membership heading.

The Patrons Fund was established to broaden the basis of financial support for Paleobiology and thus to encourage paleontological publication.

The Paleontological Society gratefully acknowledges the following Patrons of Paleobiology for 2016.

To become a Patron, send a check payable to Paleobiology to:

Paleobiology Patrons Fund The Paleontological Society P.O. Box 9044 Boulder, CO 80301-9044

PALEOBIOLOGY PATRONS RICHARD P. ALVORD MARIE-PIERRE AUBRY GERALD S. BALES RICHARD K. BAMBACH ANNA K. BEHRENSMEYER DAVID S. BERMAN DAVID J. BOTTJER SANDRA J. CARLSON WILLIAM A. CLEMENS PAULO CUSTODI EDWARD B. DAVIS WILLIAM A. DIMICHELE RUSSELL ENGELMAN **ULF ERGANDER** DOUGLAS H. ERWIN DAVID E. FASTOVSKY KARL W. FLESSA MICHAEL J. FOOTE IN MEMORY OF STEPHEN J. GOULD JOHN C. HANDLEY JOHN A. HARPER CAROLE S. HICKMAN STEWART HOLLINGSWORTH JOHN R. HORNER FREDERICK H. C. HOTCHKISS **AUGUST ILG** JEREMY B. C. JACKSON SUSAN M. KIDWELL BRUCE S. LIEBERMAN DAVID R. LINDBERG ERNEST L. LUNDELIUS BRUCE J. MacFADDEN HARUYOSHI MAEDA EDWARD S. MATALKA GEORGE R. McGHEE DAVID L. MEYER ARNOLD I. MILLER KEVIN PADIAN RANDY R. PATRICK MARK E. PATZKOWSKY DAVID L. RODLAND IN MEMORY OF TOM SCHOPF ELIZABETH C. SEASTRUM JAMES SPRINKLE WARREN STINE GARY E. STRATHEARN JACEK K. SULANOWSKI SHERMAN SUTER ROGER D. K. THOMAS BRUCE H. TIFFNEY GEERAT J. VERMEIJ SALLY E. WALKER RON F. WASZCZAK PETER WILF

SCOTT L. WING

XINGLIANG ZHANG

SUBSCRIPTION INFORMATION

Paleobiology [ISSN 0094-8373] is published four times a year (February, May, August, and November) by Cambridge University Press for the Paleontological Society. Members of the Paleontological Society automatically receive electronic subscriptions to Paleobiology and the Journal of Paleontology as a benefit of membership. Institutional subscriptions can be purchased direct from Cambridge University Press or through any major subscription agent. Print-only, online-only and bundled print and online prices are all available, and subscription prices are tiered according to institution type and size.

Please contact Cambridge University Press for further details:

For customers in North America

Email: subscriptions_newyork@cambridge.org;

Phone: (800) 872-7423, option 4

For customers outside of North America

Email: journals@cambridge.org;

Phone: +44 (0)1223-32-6070; Fax: +44 (0)1223-32-5150

Downloads of individual articles are available on http://journals.cambridge.org/PAB.

Reprints of individual articles may be ordered. For information on reprints, please contact Cambridge University Press.

Archives of previous issues are available on http://journals.cambridge.org/PAB.

Permissions All rights reserved. Permissions policies, request forms, and contacts are available at: http://www.paleosoc.org/content/copyright.html.

Reproduction Policy For complete information, please see http://www.paleosoc.org/copyright.htm.

ADVERTISING

To advertise in the journal please contact M. J. Mrvica Associates, 2 West Taunton Avenue, Berlin, NJ 08009; Phone: 856-768-9360; Fax: 856-753-0064; Email: mjmrvica@mrvica.com.

ABSTRACTING AND INDEXING

Articles published in *Paleobiology* are indexed by CABI, Council for British Archaelogy, De Gruyter Saur, EBSCOhost, Elsevier BV, GeoScienceWorld, MetaPress, National Library of Medicine, Ovid, ProQuest, and Thomson Reuters.

POSTAL INFORMATION

Periodicals postage rate paid at New York, NY, and at additional mailing offices. POSTMASTER: Send address changes in the USA, Canada, and Mexico to: *Paleobiology*, Cambridge University Press, Journals Fulfillment Department, 32 Avenue of the Americas, New York, NY 10013. Send address changes elsewhere to *Paleobiology*, Cambridge University Press, Journals Fulfillment Department, UPH, Shaftesbury Road, Cambridge CB2 8BS, England.

Copyright © 2016 The Paleontological Society. All rights reserved.

Printed in the United States of America