



## Issue 1 (published March 2015)

### Editors' choice

**Wouter Colpaert, Mark Bosselaers, and Olivier Lambert**

Out of the Pacific: A second fossil porpoise from the Pliocene of the North Sea Basin . . . . . 1–10

**David J. Varricchio and Daniel E. Barta**

Revisiting Sabath's "Larger Avian Eggs" from the Gobi Cretaceous . . . . . 11–25

**Kazushige Tanabe, Akihiro Misaki, and Takao Ubukata**

Late Cretaceous record of large soft-bodied coleoids based on lower jaw remains from Hokkaido, Japan . . . . . 27–38

**Imran A. Rahman, Sarah E. Stewart, and Samuel Zamora**

The youngest ctenocystoids from the Upper Ordovician of the United Kingdom and the evolution of the bilateral body plan in echinoderms . . . . . 39–48

### Articles

**Dimitris S. Kostopoulos and Seval Karakütük**

Late Miocene bovids from Şerefköy-2 (SW Turkey) and their position within the sub-Paratethyan biogeographic province . . . . . 49–66

**Kantapon Suraprasit, Yaowalak Chaimanee, Olivier Chavasseau, and Jean-Jacques Jaeger**

Middle Miocene bovids from Mae Moh Basin, Northern Thailand: The first record of the genus *Eotragus* from Southeast Asia. . . . . 67–78

**Antoine Souron, Jean-Renaud Boisserie, and Tim D. White**

A new species of the suid genus *Kolpochoerus* from Ethiopia . . . . . 79–96

**Mizuki Murakami, Chieko Shimada, Yoshinori Hikida, and Hiromichi Hirano**

New fossil remains from the Pliocene Koetoi Formation of northern Japan provide insights into growth rates and the vertebral evolution of porpoises . . . . . 97–111

**Robert W. Boessenecker, Frank A. Perry, and Jonathan H. Geisler**

Globicephaline whales from the Mio-Pliocene Purisima Formation of central California, USA . . . . . 113–122

**Robin M.D. Beck**

A peculiar faunivorous metatherian from the early Eocene of Australia . . . . . 123–129

**Terry A. Gates, Lindsay E. Zanno, and Peter J. Makovicky**

Theropod teeth from the upper Maastrichtian Hell Creek Formation "Sue" Quarry: New morphotypes and faunal comparisons . . . . . 131–139

**Lida Xing, Tetsuto Miyashita, Philip J. Currie, Hailu You, Jianping Zhang, and Zhiming Dong**

A new basal eusauropod from the Middle Jurassic of Yunnan, China, and faunal compositions and transitions of Asian sauropodomorph dinosaurs. . . . . 145–154

**Igor G. Danilov, Natasha S. Vitek, Alexander O. Averianov, and Vadim N. Glinskiy**

A new soft-shelled trionychid turtle of the genus *Khunnuchelys* from the Upper Cretaceous Bostobe Formation of Kazakhstan . . . . . 155–161

**Bruce M. Rothschild and Virginia Naples**

Decompression syndrome and diving behavior in *Odontochelys*, the first turtle. . . . . 163–167

**Jocelyn Falconnet**

The sphenacodontid synapsid *Neosaurus cynodus*, and related material, from the Permo-Carboniferous of France. . . . . 169–182

**Daniel Potvin-Leduc, Richard Cloutier, Ed Landing, Linda Van Aller Hernick, and Frank Mannolini**

Givetian (Middle Devonian) sharks from Cairo, New York (USA): Evidence of early cosmopolitanism . . . . . 183–200

**Richard A. Fortey and Alan P. Heward**

A new, morphologically diverse Permian trilobite fauna from Oman . . . . . 201–216

**Roberto Gatto, Stefano Monari, János Szabó, and Maria Alessandra Conti**

The Jurassic pleurotomarioidean gastropod *Laevitomaria* and its palaeobiogeographical history . . . . . 217–233

**Sylvain Rigaud, Joachim Blau, Rossana Martini, and Roberto Rettori**

Taxonomy, phylogeny, and functional morphology of the foraminiferal genus *Involutina*. . . . . 235–244

**Changhwan Oh, Marc Philippe, and Kyungsik Kim**

*Xenoxylon* synecology and palaeoclimatic implications for the Mesozoic of Eurasia. . . . . 245–256

**Brief reports****Ariana Paulina-Carabajal** and **Cecilia Succar**The endocranial morphology and inner ear of the abelisaurid theropod *Aucasaurus garridoi* . . . . . 141–144**Issue 2** (published May 2015)**Editors' choice****Steven C. Sweetman**, **Ulysse Pedreira-Segade**, and **Steven U. Vidovic**

A new bernissartiid crocodyliform from the Lower Cretaceous Wessex Formation (Wealden Group, Barremian) of the Isle of Wight, southern England . . . . . 257–268

**Sebastian Teichert** and **Alexander Nützel**Early Jurassic anoxia triggered the evolution of the oldest holoplanktonic gastropod *Coelodiscus minutus* by means of heterochrony . . . . . 269–276**Mélanie Gretz**, **Bernard Lathuilière**, and **Rossana Martini**

A new coral with simplified morphology from the oldest known Hettangian (Early Jurassic) reef in southern France . . . . . 277–286

**Articles****Thomas J.D. Halliday**, **Marco Brandalise de Andrade**, **Michael J. Benton**, and **Mikhail B. Efimov**

A re-evaluation of goniopholidid crocodylomorph material from Central Asia: Biogeographic and phylogenetic implications. . . . . 291–312

**Jan S. Adolfssen** and **David J. Ward**

Neoselachians from the Danian (early Paleocene) of Denmark . . . . . 313–338

**Mikael Siverson**, **Johan Lindgren**, **Michael G. Newbrey**, **Peter Cederström**, and **Todd D. Cook**Cenomanian–Campanian (Late Cretaceous) mid-palaeolatitude sharks of *Cretalamna appendiculata* type . . . . . 339–384**Pablo Plasencia**, **Francis Hirsch**, **Jingeng Sha**, and **Ana Márquez-Aliaga**Taxonomy and evolution of the Triassic conodont *Pseudofurnishius* . . . . . 385–394**Linda Hints** and **David A.T. Harper**

The Hirnantian (Late Ordovician) brachiopod fauna of the East Baltic: Taxonomy of the key species . . . . . 395–420

**Artem Kouchinsky**, **Stefan Bengtson**, **Sébastien Clausen**, and **Michael J. Vendrasco**

An early Cambrian fauna of skeletal fossils from the Emyaksin Formation, northern Siberia . . . . . 421–512

**In memoriam****Richard L. Cifelli**, **Jørn Hurum**, **Magdalena Borsuk-Białynicka**, **Zhe-Xi Luo**, and **Andrzej Kaim**

Zofia Kielan-Jaworowska (1925–2015) . . . . . 287–290

**Issue 3** (published September 2015)**Editors' choice****Sterling J. Nesbitt** and **Martín D. Ezcurra**

The early fossil record of dinosaurs in North America: A new neotheropod from the base of the Upper Triassic Dockum Group of Texas . . . . . 513–526

**Floréal Solé**, **Thierry Smith**, **Rodolphe Tabuce**, and **Bernard Marandat**

New dental elements of the oldest proviverrine mammal from the early Eocene of Southern France support possible African origin of the subfamily . . . . . 527–538

**Christian Neumann**, **Max Wisshak**, **Martin Aberhan**, **Peter Girod**, **Thomas Rösner**, and **Richard G. Bromley***Centrichnus eccentricus* revisited: A new view on anomiid bivalve bioerosion . . . . . 539–549**Articles****Julien Louys** and **Gilbert J. Price**

The Chinchilla Local Fauna: An exceptionally rich and well-preserved Pliocene vertebrate assemblage from fluvial deposits of south-eastern Queensland, Australia . . . . . 551–572

**Samuel Mansino**, **Antonio García-Alix**, **Francisco J. Ruiz-Sánchez**, and **Plinio Montoya**A new *Eliomys* from the Late Miocene of Spain and its implications for the phylogeny of the genus. . . . . 577–588**Gerald Mayr** and **Jorge I. Noriega**A well-preserved partial skeleton of the poorly known early Miocene seriema *Noriegavis santacruensis* . . . . . 589–598**Joel D. Hutson**

Quadrupedal dinosaurs did not evolve fully pronated forearms: New evidence from the ulna. . . . . 599–610

**Angelica Torices**, **Philip J. Currie**, **Jose Ignacio Canudo**, and **Xabier Pereda-Suberbiola**

Theropod dinosaurs from the Upper Cretaceous of the South Pyrenees Basin of Spain . . . . . 611–626

<b>Christophe Hendrickx, Octávio Mateus, and Ricardo Araújo</b> The dentition of megalosaurid theropods . . . . .	627–642
<b>Lida Xing, Bruce M. Rothschild, Hao Ran, Tetsuto Miyashita, W. Scott Persons IV, Toru Sekiya, Jianping Zhang, Tao Wang, and Zhiming Dong</b> Vertebral fusion in two Early Jurassic sauropodomorph dinosaurs from the Lufeng Formation of Yunnan, China . . . . .	643–649
<b>Mark P. Witton and Darren Naish</b> Azhdarchid pterosaurs: water-trawling pelican mimics or “terrestrial stalkers”? . . . . .	651–660
<b>Mark T. Young, Brian L. Beatty, Stephen L. Brusatte, and Lorna Steel</b> First evidence of denticulated dentition in teleosaurid crocodylomorphs . . . . .	661–671
<b>Jeremy E. Martin</b> A sebecosuchian in a middle Eocene karst with comments on the dorsal shield in Crocodylomorpha . . . . .	673–680
<b>Yifan Xue, Dayong Jiang, Ryosuke Motani, Olivier Rieppel, Yuanlin Sun, Zuoyu Sun, Cheng Ji, and Pengfei Yang</b> New information on sexual dimorphism and allometric growth in <i>Keichousaurus hui</i> , a pachypleurosaur from the Middle Triassic of Guizhou, South China . . . . .	681–687
<b>Li Xu, Xing-Wen Li, Song-Hai Jia, and Jun Liu</b> The Jiyuan Tetrapod Fauna of the Upper Permian of China: New pareiasaur material and the reestablishment of <i>Honania complicitentata</i> . . . . .	689–700
<b>Giuseppe Marramà and Giorgio Carnevale</b> Eocene round herring from Monte Bolca, Italy . . . . .	701–710
<b>Sébastien Olive</b> Devonian antiarch placoderms from Belgium revisited . . . . .	711–731
<b>Peep Männik, C. Giles Miller, and Vachik Hairapetian</b> A new early Silurian prioniodontid conodont with three P elements from Iran and associated species . . . . .	733–746
<b>Leonid E. Popov, Vachik Hairapetian, Mansoureh Ghobadi Pour, and Tatiana L. Modzalevskaya</b> A new, unusual rhynchonellide brachiopod with a strophic shell from the Silurian of Iran . . . . .	747–754
<b>Léa Devaere, Lars Holmer, Sébastien Clausen, and Daniel Vachard</b> Oldest mickwitziid brachiopod from the Terreneuvian of southern France. . . . .	755–768
<b>Brief reports</b>	
<b>David M. Alba, Víctor Vinuesa, and Joan Madurell-Malapeira</b> On the original author and year of description of the extinct hyaenid <i>Pachycrocuta brevirostris</i> . . . . .	573–576
<b>Issue 4</b> (published December 2015)	
<b>Editors' choice</b>	
<b>Roger B.J. Benson, Nikolay G. Zverkov, and Maxim S. Arkhangelsky</b> Youngest occurrences of rhomaleosaurid plesiosaurs indicate survival of an archaic marine reptile clade at high palaeolatitudes . . . . .	769–780
<b>Yusuke Takeda and Kazushige Tanabe</b> Low durophagous predation on Toarcian (Early Jurassic) ammonoids in the northwestern Panthalassa shelf basin. . . . .	781–794
<b>Articles</b>	
<b>Carlo Meloro and Julien Louys</b> Ecomorphology of radii in Canidae: Application to fragmentary fossils from Plio-Pleistocene hominin assemblages. . . . .	795–806
<b>Eduardo Jiménez-Hidalgo and Victor M. Bravo-Cuevas</b> A roe deer from the Pliocene of Hidalgo, central Mexico . . . . .	807–813
<b>Marco Pavia, Albrecht Manegold, and Pippa Haarhoff</b> New early Pliocene owls from Langebaanweg, South Africa, with first evidence of <i>Athene</i> south of the Sahara and a new species of <i>Tyto</i> . . . . .	815–828
<b>Fábio Hiratsuka Veiga, Marina Bento Soares, and Juliana Manso Sayão</b> Osteohistology of hyperodapedontine rhynchosaurs from the Upper Triassic of Southern Brazil . . . . .	829–836
<b>Adriana Strapasson, Felipe L. Pinheiro, and Marina B. Soares</b> On a new stereospondylomorph temnospondyl from the Middle–Late Permian of Southern Brazil . . . . .	843–855
<b>Jürgen Kriwet, Heike Mewis, and Oliver Hampe</b> A partial skeleton of a new lamniform mackerel shark from the Miocene of Europe . . . . .	857–875
<b>Michael G. Newbrey, Mikael Siverson, Todd D. Cook, Allison M. Fotheringham, and Rebecca L. Sanchez</b> Vertebral morphology, dentition, age, growth, and ecology of the large lamniform shark <i>Cardabiodon ricki</i> . . . . .	877–897

<b>Michał Ginter, Christopher J. Duffin, Mark T. Dean, and Dieter Korn</b> Late Viséan pelagic chondrichthyans from northern Europe . . . . .	899–922
<b>Ben Thuy, Manfred Kutscher, and Bartosz J. Płachno</b> A new brittle star from the early Carboniferous of Poland and its implications on Paleozoic modern-type ophiuroid systematics . . . . .	923–929
<b>Dale E. Greenwalt, Tim R. Rose, Sandra M. Siljestrom, Yulia S. Goreva, Kurt N. Constenius, and Jonathan G. Wingerath</b> Taphonomy of the fossil insects of the middle Eocene Kishenehn Formation . . . . .	931–947
<b>Arnaud Bignon and Catherine Crônier</b> Trilobite faunal dynamics on the Devonian continental shelves of the Ardenne Massif and Boulonnais (France, Belgium) . . . . .	949–962
<b>Artem Kouchinsky, Lars E. Holmer, Michael Steiner, and Galina T. Ushatinskaya</b> The new stem-group brachiopod <i>Oymurania</i> from the lower Cambrian of Siberia. . . . .	963–980
<b>Aleksandr A. Mironenko</b> The soft-tissue attachment scars in Late Jurassic ammonites from Central Russia . . . . .	981–1000
<b>Olev Vinn and Kalle Kirsimäe</b> Alleged cnidarian <i>Sphenothallus</i> in the Late Ordovician of Baltica, its mineral composition and microstructure . . . . .	1001–1008
<b>Kentaro Izumi</b> Composite <i>Phymatoderma</i> from Neogene deep-marine deposits in Japan: Implications for Phanerozoic benthic interactions between subsurface burrows and the trace-makers of <i>Chondrites</i> and <i>Phycosiphon</i> . . . . .	1009–1020
<b>Brief reports</b>	
<b>Jeremy E. Martin, Peggy Vincent, Guillaume Suan, Tom Sharpe, Peter Hodges, Matt Williams, Cindy Howells, and Valentin Fischer</b> A mysterious giant ichthyosaur from the lowermost Jurassic of Wales . . . . .	837–842
<b>Book review</b>	
<b>Neil D.L. Clark:</b> Tracking dinosaurs in Spain . . . . .	856
<b>Contents of Volume 60</b> . . . . .	1021–1024