

Editorial Board (as of 1 April 2019)

Ian ALSOP (*Editor*), University of Aberdeen *Tectonics/structural geology*

Kevin EDWARDS (*Editor*), University of Aberdeen *Environmental change in northern Europe & North Atlantic; Palynology; palaeoecology; Quaternary science; environmental archaeology*

Tony FALLICK (*Editor*), University of Glasgow
Isotope biogeosciences; economic geology; dating & geochronology; the Palaeoproterozoic & Neoproterozoic

Fiona FORDYCE (*Editor*), British Geological Survey *Environmental geochemistry, sediment, soil and water quality, environment and health*

Alistair MCGOWAN (*Editor*), BioGeoD, Edinburgh
Palaeobiology; biodiversity; invertebrate palaeontology; the Fossil Record

Andrew ROSS (*Chairman & Editor-in-Chief*), National Museums Scotland, Edinburgh *Invertebrate palaeontology; palaeobiology; palaeoecology; palaeoenvironment; palaeoclimate*

Chris SOULSBY (*Editor*), University of Aberdeen
Hydrogeology; biogeochemistry

Rachel WALCOTT (*Editor*) National Museums Scotland *Mineralogy, geomorphology, structural geology and tectonics*

Stig WALSH (*Editor*), National Museums Scotland, Edinburgh
Vertebrate palaeobiology; vertebrate palaeontology

Earth and Environmental Science

Transactions of the Royal Society of Edinburgh

Volume 111 March 2020 Issue 1

Kristina MÅNSSON and Euan N. K. CLARKSON A revised ontogeny of the early Ordovician trilobite <i>Leptoplastides salteri</i> (Callaway, 1877)	1
Joseph P. BOTTING, Yves CANDELA, Vicen CARRIÓ and William R. B. CRIGHTON A new hexactinellid sponge from the Silurian of the Pentland Hills (Scotland) with similarities to extant rossellids	17
Frederik SPINDLER Re-evaluation of an early sphenacodontian synapsid from the Lower Permian of England	27
Erik TIHELKA, Dying HUANG and Chenyang CAI A new genus and species of Micromalthidae from Burmese amber (Coleoptera: Archostemata)	39
Esther L. BEEBY (née SHARP), Timothy R. SMITHSON and Jennifer A. CLACK Systematics and description of the lungfish genus <i>Sagenodus</i> from the Carboniferous of the UK	47
F. M. FORDYCE, P. A. EVERETT, J. M. BEARCOCK and T. R. LISTER Soil metal/metalloid concentrations in the Clyde Basin, Scotland, UK: implications for land quality – CORRIGENDUM	75



Earth and Environmental Science

Books and Journals from
Cambridge University Press

Cambridge publish books and journals across the full spectrum of sub-disciplines – everything from soil science to space physics and from palaeontology to petroleum geoscience. We are particularly well known for our world-leading book lists in atmospheric science and geophysics.

Books range in level from undergraduate and graduate textbooks, to research and reference volumes, and handbooks for industry practitioners.

We have an ever-expanding journals portfolio including prestigious journals such as *Radiocarbon*, the journals of the *International Glaciological Society*, the *Journal of Paleontology* and *Paleobiology* and from 2017, *Quaternary Research*.

For further details visit:

[cambridge.org/earth-and-environmental](https://www.cambridge.org/earth-and-environmental)

Cambridge
Core



CAMBRIDGE
UNIVERSITY PRESS

Access
leading
journals in
your subject

Cambridge Core

Explore today at [cambridge.org/core](https://www.cambridge.org/core)

Cambridge Core



CAMBRIDGE
UNIVERSITY PRESS

Cambridge Core

The new
home of
academic
content

[cambridge.org/core](https://www.cambridge.org/core)

Cambridge Core



CAMBRIDGE
UNIVERSITY PRESS