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Guia Rápido de Uso

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Nome do Journal	Cobertura Temática
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Philosophical Transactions B	Todas as Ciências Biológicas (Em menor destaque: ciências Sociais, psicologia, ciências ambientais / ciências da terra, medicamento / veterinário/ políticas da saúde)
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Notes and Records	História da Ciência e Histórias Biográficas

Conteúdos

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Open Biology (open access)	Biologia Celular e Molecular
Royal Society Open Science (open access)	Multidisciplinar (Ciências Biológicas, Físicas e Engenharia)

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Physical sciences: Research and reviews

Interface
Cross-disciplinary research at the interface between the physical and life sciences
Editor-in-chief: Professor Leslie Dutton FRS
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Página de um Periódico

The screenshot shows the homepage of the journal 'Biology Letters' on the Royal Society Publishing website. The layout includes a top navigation bar with the Royal Society logo, 'All Journals' dropdown, and links for 'Sign in', a shopping cart icon, and 'Search'. Below this is a secondary navigation bar with 'Home', 'Content', 'Information for', 'About us', 'Sign up', and 'Submit'. The main content area features the journal title 'BIOLOGY LETTERS' and a tagline: 'A fast, high quality journal, publishing short research articles, reviews and opinion pieces across the biological sciences'. A 'Current issue' section highlights the Editor-In-Chief, Professor David Beer, and provides ISSN information. A 'Latest articles' section lists four recent articles with their dates and titles. A 'Featured articles' section is highlighted with a large number '4' and features a large image of two dolphins. The featured article title is 'How smooth is a dolphin? The ridged skin of odontocetes', with authors Dylan K. Wainwright, Frank E. Fish, Sam Ingersoll, Terrie M. Williams, Judy St Leger, Alexander J. Smits, and George V. Lauder. Other featured articles include 'The loud scratch: a newly identified gesture of Sumatran orangutan mothers in the wild' and 'Herring gulls respond to human gaze direction'.

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Current issue

Editor-In-Chief
Professor David Beer
FRS

Frequency: Monthly
ISSN (Online): 1744-957X
ISSN (Print): 1744-9561

4. Latest articles

- 1 May 2020
Honeybee microbiome is stabilized in the presence of propolis
- 1 April 2020
Is repeatability of metabolic rate influenced by social
- 1 April 2020
Change in geomagnetic field intensity alters migration-associated
- 1 April 2020
Microplastics disrupt hermit crab shell selection

Featured articles

How smooth is a dolphin? The ridged skin of odontocetes
Dylan K. Wainwright, Frank E. Fish, Sam Ingersoll, Terrie M. Williams, Judy St Leger, Alexander J. Smits and George V. Lauder

The loud scratch: a newly identified gesture of Sumatran orangutan mothers in the wild
Marlen Fröhlich, Kevin Lee, Tatang Mitra Setia, Caroline Schuppli and Carel P. van Schaik

Herring gulls respond to human gaze direction
Madeleine Goumas, Isabella Burns, Laura A. Kelley and Neeltje J. Boogert

1. Ir aos outros Journals

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4. Destaques de artigos da publicação

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3

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Year Volume Issue First page DOI
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Lista de resultados

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Publication date **5**

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2009 - 2010 (104)
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Subject **6**

ecology (104)
evolution (78)
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Research Article
An investigation of anode and cathode materials in photomicrobial fuel cells
Kenneth Schneider, Rebecca J. Thorne, Petra J. Cameron
Phil. Trans. R. Soc. A 2016 374 2061 20150080; DOI: 10.1098/rsta.2015.0080. Published 11 January 2016
...cathode materials in photomicrobial **fuel cells** Kenneth Schneider 1 Rebecca J. Thorne...world a better place . Photomicrobial **fuel cells** (p-MFCs) are devices that use...mediator-free p-MFC. microbial **fuel cell**photomicrobial **fuel cell**biophotovoltaics...
- Research Article
Catalyst supports for polymer electrolyte fuel cells
Chinmayee Subban, Qin Zhou, Brian Leonard, Chinmoy Ranjan, Heather M. Edverson, F. J. DiSalvo, Semeret Munie, Janet Hunting
Phil. Trans. R. Soc. A 2010 368 1923 3243; DOI: 10.1098/rsta.2010.0116. Published 21 June 2010
...supports for polymer electrolyte **fuel cells** Chinmayee Subban 1 Qin Zhou 1 Brian...obtaining long-term durability in **fuel cells** is to discover catalyst supports...todays polymer electrolyte membrane **fuel cells**. Such materials must be sufficiently...
- Research Article
A fundamental model exhibiting nonlinear oscillatory dynamics in solid oxide fuel cells
J. D. Sands, D. J. Needham, J. Uddin

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3 Global late Quaternary megafauna extinctions linked to humans, not climate change

Christopher Sandoni, Søren Faurby, Brody Sandel, Jens-Christian Svenning
Published 4 June 2014. DOI: 10.1098/rspb.2013.3254

4 Article **5** PDF

6 July 2014 Volume: 281 Issue: 1787

7 KEYWORDS: climate change, macroecology, megafauna extinction, palaeoecology

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9 Article: Abstract, 1. Introduction, 2. Material and methods, 3. Results, 4. Discussion, Data accessibility, Funding statement, Acknowledgements, References, Figures & Data, Info & Metrics, eLetters, PDF

10 See related subject areas: ecology, palaeontology

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Abstract

The late Quaternary megafauna extinction was a severe global-scale event. Two factors, climate change and modern humans, have received broad support as the primary drivers, but their absolute and relative importance remains controversial. To date, focus has been on the extinction chronology of individual or small groups of species, specific geographical regions or macroscale studies at very coarse geographical and taxonomic resolution, limiting the possibility of adequately testing the proposed hypotheses. We present, to our knowledge, the first global analysis of this extinction based on comprehensive country-level data on the geographical distribution of all large mammal species (more than or equal to 10 kg) that have gone globally or continentally extinct between the beginning of the Last Interglacial at 132 000 years BP and the late Holocene 1000 years BP, testing the relative roles played by glacial–interglacial climate change and humans. We show that the severity of extinction is strongly tied to hominin palaeobiogeography, with at most a weak, Eurasia-specific link to climate change. This first species-level macroscale analysis at relatively high geographical resolution provides strong support for modern humans as the primary driver of the worldwide megafauna losses during the late Quaternary.

1. Introduction

During the Late Pleistocene and early Holocene, regions around the world suffered losses of megafauna species of a magnitude unprecedented for many millions of years [1–3]. Although extinctions are common in the Quaternary fossil record, such rapid and large global species losses without functional replacements are unusual. Multiple explanatory hypotheses for this global extinction event have been proposed, including climate change [4,5], the spread of modern humans (*Homo sapiens*) and related effects of hunting and habitat change [6–9], an extra-terrestrial impact [10] and hyper-disease [11]. With little or no evidence to support the latter two as global explanations [11–14], we focus here on climate change and hominin palaeobiogeography. The relative importance of climate and hominin drivers has been subject to long-standing, highly charged controversy (e.g. [3,15,16]).

Although megafaunal extinctions occurred worldwide, most studies focus on a specific region [17–19], and the few global-scale studies have been geographically incomplete and/or very coarse-grained [3,20]. In an influential review, Barnosky *et al.* [3] provided a continental breakdown of the Late Pleistocene megafauna extinctions and reported that humans were the main extinction driver in Australia and North America, and climate was the main driver for Europe, but that data were insufficient for making assessments for Africa, Asia and South America. Nogués-Bravo *et al.* [20] followed up by linking these genus-level continental-resolution patterns to continental-average climate change, finding extinction patterns among Africa, Eurasia and North America consistent with climate-driven extinction; however, South America strongly deviated from this trend, with the lowest climate change and the most severe genus-level extinctions. A geographically comprehensive species-level assessment of the global-scale extinction pattern remains lacking. Improvements and increased access to fossil, palaeoclimate and hominin palaeobiogeographical records, more accurate dating and taxonomic revisions now make possible much more geographically fine-grained analysis of megafauna extinctions worldwide, namely species-level extinctions per Taxonomic Databases Working Group (TDWG) level 3 country (see Material and methods for a description of these regions).

(a) The climate change hypothesis

We focus on temperature and precipitation contrasts between full glacial and full interglacial conditions, as these represent the strongest climate shifts during the late Quaternary. We estimated these as the Last Glacial Maximum (LGM, ca 21 000 years BP) to present-day (1950–2000) contrast and, in supplement, the Last Interglacial (LIG, ca 130 000 years BP) to LGM

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