Copying. This journal is registered with the Copyright Clearance Center, 222 Rosewood Drive, Danvers, MA 01923, USA. Organizations in the USA who are also registered with CCC may therefore copy material (beyond the limits permitted by sections 107 and 108 of US copyright law) subject to payment to CCC of the per copy fee of \$16.00. This consent does not extend to multiple copying for promotional or commercial purposes. Code 0954-1020/2012 \$16.00. ISI Tear Sheet Service, 3501 Market Street, Philadelphia, PA 19104, USA, is authorized to supply single copies of separate articles for private use only.

Organizations authorized by the Copyright Licensing Agency may also copy material subject to the usual conditions.

For all other use, permission should be sought from Cambridge University Press.

This journal issue has been printed on FSC-certified paper and cover board. FSC is an independent, non-governmental, not-for-profit organization established to promote the responsible management of the world's forests. Please see www.fsc.org for information.

Printed in the UK by Bell & Bain



Volume 25 Number 6 2013

## CONTENTS

Guest Editorial	729	EARTH SCIENCES	
BIOLOGICAL SCIENCES  Spatial variation in female southern elephant seal mass change assessed by an accurate non-invasive photogrammetry method		Marginal marine depositional setting and correlation of the Devonian Sperm Bluff Formation (Taylor Group), southern Victoria Land, Antarctica JENI E. SAVAGE, MARGARET A. BRADSHAW & KARI N. BASSETT	767
Martin Postma, Marthán N. Bester & P.J. Nico De Bruyn	731	PHYSICAL SCIENCES	
Regional variability in eukaryotic protist communities in the Amundsen Sea Christian Wolf, Stephan Frickenhaus, Estelle S. Kilias, Ilka Peeken & Katja Metfies	741	Satellite-derived UV climatology at Escudero Station, Antarctic Peninsula RAUL R. CORDERO, ALESSANDRO DAMIANI, GUNTHER SECKMEYER, STEFAN RIECHELMANN, FERNANDO LABBE, DAVID LAROZE & FERNANDA GARATE	791
Summertime fluxes of N <sub>2</sub> O, CH <sub>4</sub> and CO <sub>2</sub> from the littoral zone of Lake Daming, East Antarctica: effects of environmental conditions Wei Ding, Renbin Zhu, Dawei Ma & Hua Xu	752	Late Quaternary climate variability as recorded by micropalaeontological diatom data and geochemical data in the western Ross Sea, Antarctica R. TOLOTTI, C. SALVI, G. SALVI & M.C. BONCI	804
Observations of mice predation on dark-mantled sooty albatross and Atlantic yellow-nosed albatross chicks at Gough Island R.J. CUTHBERT, H. LOUW, G. PARKER, K. REXER-HUBER		Salinity evolution and mechanical properties of snow-loaded multiyear sea ice near an ice shelf A.J. Gough, A.R. Mahoney, P.J. Langhorne & T.G. Haskell	821
& P. Visser	763	Book Reviews	833

Antarctic Science is abstracted in Current Contents, SciSearch, Research Alert, Geo Abstracts, Current Awareness in Biological Sciences, Mineralogical Abstracts, Meteorological & Geo-astrophysical Abstracts, Current Antarctic Literature, GeoArchive, GeoRef, Biosis, Oceanographic Literature, Environmental Periodicals Bibliography and Polar & Glaciological Abstracts

**Cambridge Journals Online** 

For further information about this journal please go to the journal website at: journals.cambridge.org/ans



MIX
Paper from
responsible sources
FSC® C007785

CAMBRIDGE UNIVERSITY PRESS