

continued from inside frontcover

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 0954-1020/2014 \$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

ANTARCTIC science

Volume 26 Number 3 2014

CONTENTS

Editorial	217	EARTH SCIENCES	
BIOLOGICAL SCIENCES		Unusual signals recorded by ocean bottom seismometers in the flooded caldera of Deception Island volcano: volcanic gases or biological activity?	267
Decadal timescale variability in ecosystem properties in the ponds of the McMurdo Ice Shelf, southern Victoria Land, Antarctica		DANIEL C. BOWMAN & WILLIAM S.D. WILCOCK	
IAN HAWES, CLIVE HOWARD-WILLIAMS & BRIAN SORRELL	219	Short Note: New Palaeozoic deposits of the Victoria Group in the Eisenhower Range, northern Victoria Land, Antarctica	
Detection of phytoplankton blooms in Antarctic coastal water with an online mooring system during summer 2010/11		BENJAMIN BOMFLEUR, ROBERT SCHÖNER, NADINE JOHN, JÖRG W. SCHNEIDER, MARTIN ELSNER, LOTHAR VIERECK-GOETTE & HANS KERP	277
YUXIN MA, FANG ZHANG, HAIZHEN YANG, LING LIN & JIANFENG HE	231	Short Note: First report on hind-toe development in Eocene Antarctic penguins	279
Ecology and distribution of the grey notothen, <i>Lepidonotothen squamifrons</i> , around South Georgia and Shag Rocks, Southern Ocean		PIOTR JADWISZCZAK & ANDRZEJ GAŹDZICKI	
SUSAN GREGORY, JUDITH BROWN & MARK BELCHIER	239	PHYSICAL SCIENCES	
<i>Diacyclops</i> (Copepoda: Cyclopoida) in Continental Antarctica, including three new species		Phosphorus in Antarctic surface marine sediments - chemical speciation in Admiralty Bay	281
TOMISLAV KARANOVIC, JOHN A.E. GIBSON, IAN HAWES, DALE T. ANDERSEN & MARK I. STEVENS	250	GLÁUCIA B.B. BERBEL & ELISABETE S. BRAGA	
Short Note: Further evidence of king penguins' breeding range extension at the South Shetland Islands?		Statistical analyses and correlation between tropospheric temperature and humidity at Dome C, Antarctica	290
MARIANA A. JUÁRES, JAVIER NEGRETE, JORGE A. MENNUECCI, PABLO J. PERCHIVALE, MERCEDES SANTOS, EUGENIA MOREIRA & NÉSTOR R. CORIA	261	P. RICAUD, F. CARMINATI, Y. COURCOUX, A. PELLEGRINI, J.-L. ATTÍE, L. EL AMRAOUI, R. ABIDA, C. GENTHON, T. AUGUST & J. WARNER	
Short Note: Cooperative foraging behaviour by crabeater seals (<i>Lobodon carcinophaga</i>) at Pleneau Island, Antarctic Peninsula		Katabatic winds and polynya dynamics at Coats Land, Antarctica	309
MICHAEL D. GOTTFRIED	263	LARS EBNER, GÜNTHER HEINEMANN, VERENA HAID & RALPH TIMMERMANN	
Short Note: First comprehensive abundance survey of a newly discovered Adélie penguin breeding metapopulation in the Robinson Group of islands, Mac.Robertson Land, East Antarctica		Short Note: First observations on needle ice formation in the sub-Antarctic	327
COLIN SOUTHWELL, MATTHEW LOW, KYM NEWBERY & LOUISE EMMERSON	265	WERNER NEL & JAN BOELHOUWERS	

Antarctic Science is abstracted in *Current Contents*, *SciSearch*, *Research Alert*, *Geo Abstracts*, *Current Awareness in Biological Sciences*, *Mineralogical Abstracts*, *Meteorological & Geo-astronomical 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