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, notfor-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 5

2014

CONTENTS

Editorial	457 459	Molecular analyses of gut contents: elucidating the	
SYNTHESIS		feeding of co-occurring salps in the Lazarev Sea from a different perspective	
The lithic microbial ecosystems of Antarctica's McMurdo Dry Valleys		Katja Metfies, Anja Nicolaus, Lena Von Harbou, Ulrich Bathmann & Ilka Peeken	545
Asunción de Los Ríos, Jacek Wierzchos & Carmen Ascaso		Potter Cove, west Antarctic Peninsula, shallow water meiofauna: a seasonal snapshot F. PASOTTI, P. CONVEY & A. VANREUSEL	
BIOLOGICAL SCIENCES			554
Selecting suitable sites for an Antarctic research station: a case for a new Chinese research station PANG XIAOPING, LIU HAIYAN & ZHAO XI	479 491 502	Short Note: Are environmental factors responsible for changed breeding behaviour in emperor penguins? DANIEL P. ZITTERBART, SEBASTIAN RICHTER, GEORG SPIEKERMANN, LISA K. BEHRENS, JULIA REGNERY, RENÉ P. FONTES, THEDDA HÄNSSLER, GERT KÖNIG-LANGLO, ROLF WELLER & BEN FABRY	
Identification and analysis of two sequences encoding ice-binding proteins obtained from a putative bacterial symbiont of the psychrophilic Antarctic ciliate <i>Euplotes focardii</i> SANDRA PUCCIARELLI, FEDERICA CHIAPPORI,			563
RAGHUL RAJAN DEVARAJ, GUANG YANG, TING YU,		EARTH SCIENCES	
PATRIZIA BALLARINI & CRISTINA MICELI		Hyperspectral measurements of wet, dry and saline soils from the McMurdo Dry Valleys: soil moisture properties from remote sensing JOSEPH LEVY, ANNE NOLIN, ANDREW FOUNTAIN & JAMES HEAD	565
Diet of Antarctic toothfish (<i>Dissostichus mawsoni</i>) from the continental slope and oceanic features of the Ross Sea region, Antarctica DARREN W. STEVENS, MATTHEW R. DUNN,			
MATTHEW H. PINKERTON & JEFF S. FORMAN		Three soil chronosequences in recessional glacial deposits near the polar plateau, in the Central Transantarctic Mountains, Antarctica JOSHUA W. SCARROW, MEGAN R. BALKS & PETER C. ALMOND	
Biogeochemical responses to nutrient, moisture and temperature manipulations of soil from Signy Island, South Orkney Islands in the Maritime Antarctic			573
Sun Benhua, P.G. Dennis, V.A. Laudicina, V.J. Ord, S.P. Rushton, A.G. O'Donnell, K.K. Newsham & D.W. Hopkins	513	PHYSICAL SCIENCES	
Diversity of toxin and non-toxin containing cyanobacterial mats of meltwater ponds on the Antarctic Peninsula: a pyrosequencing approach J. KLEINTEICH, F. HILDEBRAND, S.A. WOOD, S. CIRÉS, R. AGHA, A. QUESADA, D.A. PEARCE, P. CONVEY, F.C. KÜPPER & D.R. DIETRICH		Absence of a Medieval Climate Anomaly, Little Ice Age and twentieth century warming in Skarvsnes, Lützow Holm Bay, East Antarctica INES TAVERNIER, ELIE VERLEYEN, DOMINIC A. HODGSON, KATRIEN HEIRMAN, STEPHEN J. ROBERTS, SATOSHI IMURA, SAKAE KUDOH, KOEN SABBE, MARC DE BATIST & WIM VYVERMAN	585
Post-breeding at-sea movements of three central-place foragers in relation to submesoscale fronts in the Southern Ocean around		Book Review	599
Bouvetøya Andrew D. Lowther, Christian Lydersen, Martin Biuw, P .J Nico De Bruyn, Greg J.G. Hofmeyr & Kit M. Kovacs	533		

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

