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 0954-1020/2017 \$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 FSCTM-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 United Kingdom by Bell & Bain.

SCIENCE

Volume 29

Number 3

2017

CONTENTS

Editorial BIOLOGICAL SCIENCES	199	Landscape-scale soil phosphorus variability in the McMurdo Dry Valleys RUTH C. HEINDEL, ANGELA M. SPICKARD & ROSS A. VIRGINIA PHYSICAL SCIENCES NeQuick2 and IRI2012 models applied to mid and high	252
Rise and fall of Ross Sea emperor penguin colony populations: 2000 to 2012 G.L. KOOYMAN & P.J. PONGANIS	201		
Grey petrel population on Campbell Island 14 years after rodent eradication GRAHAM C. PARKER, KALINKA REXER-HUBER & DAVID THOMPSON	209	A. IPPOLITO & C. SCOTTO	265
Short timescale dynamics of phytoplankton in Fildes Bay, Antarctica CLAUDIA EGAS, CARLOS HENRÍQUEZ-CASTILLO, NATHALIE DELHERBE, ERNESTO MOLINA, ADRIANA LOPES DOS SANTOS, PARIS LAVIN, RODRIGO DE LA IGLESIA, DANIEL VAULOT &		Meltwater as a source of potentially bioavailable iron to Antarctica waters Donata Monien, Patrick Monien, Robert Brünjes, Tatjana Widmer, Arne Kappenberg, Adrian A. Silva Busso, Bernhard Schnetger & Hans-Jürgen Brumsack	277
Nicole Trefault	217	Reduced perchlorate in West Antarctica snow during stratospheric ozone hole	
Diversity of algae and lichens in biological soil crusts of Ardley and King George islands, Antarctica NADINE BORCHHARDT, ULF SCHIEFELBEIN, NELIDA ABARCA, JENS BOY, TATIANA MIKHAILYUK, HARRIE J.M. SIPMAN & ULF KARSTEN	229	T.Z. Crawford, Alexandria D. Kub, Kari M. Peterson, Thomas S. Cox & Jihong Cole-Dai	292
EARTH SCIENCES			
Buried ice in Kennar Valley: a late Pleistocene remnant of Taylor Glacier			
KATE M. SWANGER	239		

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



MIX Paper from responsible sources FSC[®] C007785

