

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 0954-1020/2018 \$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 United Kingdom by Bell & Bain.

CONTENTS

BIOLOGICAL SCIENCES

The effectiveness of Virkon® S disinfectant against an invasive insect and implications for Antarctic biosecurity practices

JESAMINE C. BARTLETT, RICHARD JAMES RADCLIFFE, PETE CONVEY, KEVIN A. HUGHES & SCOTT A.L. HAYWARD

Shape, condition and diet of the pike icefish *Champscephalus esox* (Teleostei: Channichthyidae): evidence of phenotypic plasticity?

MAURICIO F. LANDAETA, ARIEL VILLEGAS & MATHIAS HÜNE

Further evidence that Antarctic toothfish are important to Weddell seals

DAVID G. AINLEY, PAUL A. CZIKO, NADAV NUR, JAY J. ROTELLA, JOSEPH T. EASTMAN, MICHELLE LARUE, IAN STIRLING & PETER A. ABRAMS

Brazil in Antarctica: 40 years of science

PAULO E.A.S. CÂMARA, ANA F. BARROS-PLATIAU, ISRAEL DE OLIVEIRA ANDRADE & GIOVANNI R.L. HILLEBRAND

Taxonomy 2.0: computer-aided identification tools to assist Antarctic biologists in the field and in the laboratory

THOMAS SAUCÉDE, MARC ELÉAUME, QUENTIN JOSSART, CAMILLE MOREAU, RACHEL DOWNEY, NARISSA BAX, CHESTER SANDS, BORJA MERCADO, CYRIL GALLUT & RÉGINE VIGNES-LEBBE

EARTH SCIENCES

Tectono-metamorphic evolution and significance of shear-zone lithologies in Akebono Rock, Lützow-Holm Complex, East Antarctica

SOTARO BABA, TOMOKAZU HOKADA, ATSUSHI KAMEI, IPPEI KITANO, YOICHI MOTOYOSHI, PRAYATH NANTASIN, NUGROHO IMAM SETIAWAN & DAVAAN-OCHIR DASHBAATAR

Harnessing Erebus volcano's thermal energy to power year-round monitoring

NIAL J. PETERS, CLIVE OPPENHEIMER, BRYN JONES, MICHAEL ROSE & PHILIP KYLE

A small whale reveals diversity of the Eocene cetacean fauna of Antarctica

SVITOZAR DAVYDENKO, THOMAS MÖRS & PAVEL GOL'DIN

PHYSICAL SCIENCES

New determinations of tides on the north-western Ross Ice Shelf

RICHARD D. RAY, KRISTINE M. LARSON & BRUCE J. HAINES

A debris-covered glacier at Kerguelen (49°S, 69°E) over the past 15 000 years

JOANNA CHARTON, VINCENT JOMELLI, IRENE SCHIMMELPFENNIG, DEBORAH VERFAILLIE, VINCENT FAVIER, FATIMA MOKADEM, ADRIEN GILBERT, FANNY BRUN, GEORGES AUMAÎTRE, DIDIER L. BOURLÈS & KARIM KEDDADOUCHE

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

CAMBRIDGE
UNIVERSITY PRESS