CAMBRIDGE

JOURNALS

Antarctic Science

Published on behalf of Antarctic Science Ltd, Cambridge

Editors

David W. H. Walton, British Antarctic Survey, Cambridge, UK Alan P. M. Vaughan, British Antarctic Survey, Cambridge, UK Christina L. Hulbe, Portland State University, USA

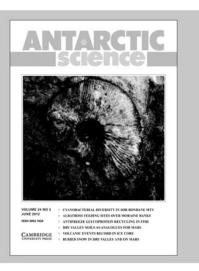
Antarctic Science provides a truly international forum for the broad spread of studies that increasingly characterize scientific research in the Antarctic. The journal attracts papers from all countries currently undertaking Antarctic research. Whilst emphasising interdisciplinary work, the journal publishes papers from environmental management to biodiversity, from volcanoes to icebergs, and from oceanography to the upper atmosphere. No other journal covers such a wide range of Antarctic scientific studies.

Price information

is available at: http://journals.cambridge.org/ans

Free email alerts

Keep up-to-date with new material – sign up at http://journals.cambridge.org/ans-alerts



Antarctic Science

is available online at: http://journals.cambridge.org/ans

To subscribe contact Customer Services

in Cambridge:

Phone +44 (0)1223 326070 Fax +44 (0)1223 325150 Email journals@cambridge.org

in New York:

Phone +1 (845) 353 7500 Fax +1 (845) 353 4141 Email subscriptions_newyork@cambridge.org

For free online content visit: http://journals.cambridge.org/ans



JOURNALS

Environmental Conservation

International Journal of Interdisciplinary Environmental Science

Published for the Foundation for Environmental Conservation

Editor

Nicholas V. C. Polunin, University of Newcastle, UK

Environmental Conservation is one of the longeststanding, most highly-cited of the interdisciplinary environmental science journals. It includes research papers, reports, comments, subject reviews, and book reviews addressing environmental policy, practice, and natural and social science of environmental concern at the global level, informed by rigorous local level case studies. The journal's scope is very broad, including issues in human institutions, ecosystem change, resource utilisation, terrestrial biomes, aquatic systems, and coastal and land use management. Environmental Conservation is essential reading for all environmentalists, managers, consultants, agency workers and scientists wishing to keep abreast of current developments in environmental science. Selected papers are made freely available online as part of EC Perspectives.

Price information

is available at: http://journals.cambridge.org/enc

Free email alerts

Keep up-to-date with new material – sign up at http://journals.cambridge.org/enc-alerts



Environmental Conservation

is available online at: http://journals.cambridge.org/enc

To subscribe contact Customer Services

in Cambridge:

Phone +44 (0)1223 326070 Fax +44 (0)1223 325150 Email journals@cambridge.org

in New York:

Phone +1 (845) 353 7500 Fax +1 (845) 353 4141 Email subscriptions_newyork@cambridge.org

For free online content visit: http://journals.cambridge.org/enc



THE MARINE BIOLOGICAL ASSOCIATION OF THE UNITED KINGDOM

TERMS OF MEMBERSHIP FOR 2013

Annual members, receiving the Journal – online only, per annum	£55.00*
Annual members, receiving the Journal – print only, per annum	£95.00*
Annual members, receiving the Journal – print and online, per annum	£115.00*
Annual members, without the Journal, per annum	£35.00*
Corporate members, receiving the Journal – online only, per annum	£360.00
Corporate members, receiving the Journal – print and online, per annum	£425.00
Student members, with the Journal – online only, per annum (non-voting)	£30.00
Student members, with the Journal – print only, per annum (non-voting)	£45.00
Student members, without the Journal, per annum (non-voting)	£20.00

The Association is a registered charity and was founded in 1884 to promote accurate researches leading to the advancement of zoological and botanical science and to increase our knowledge of the food, life, conditions and habits of British fish. The work of the Association is controlled by the Council elected annually by its subscribing members.

The Marine Biological Association, under the direction of its Council, has undertaken research in all branches of marine science and many of the results have been published in this Journal. An account of the history of the first hundred years of the Association and Journal may be found in Volume 67 (pp. 463 and 465). Summaries of the activities and research of the Association are given annually in the Report of the Council, sent to members in April, and to other subscribers with a later issue of the *JMBA*.

Since its foundation the Association has been supported by grants from Research Councils and by subscriptions and donations from private members, universities, learned societies, the Fishmongers' Company and other public bodies.

The Plymouth Laboratory was opened in June 1888 and, since that date, considerable additions have been made to the buildings, including a library, resource centre, extensive laboratory accommodation and seawater facilities.

In 1988 an agreement was reached between the MBA Council and the Natural Environment Research Council (NERC) to merge a large part of the Plymouth Laboratory with the NERC's Institute for Marine Science which had been in Plymouth since 1971. This new institute was called the Plymouth Marine Laboratory (PML) based at both Citadel Hill and West Hoe sites. In 2001 the MBA and PML re-established separate identities funded by Grants-in-aid from NERC. The Association and the research programme are

based entirely at the Citadel Hill Laboratory. The building is shared with SAHFOS (Sir Alister Hardy Foundation for Ocean Science).

The Marine Biological Association retains the lease of the building on Citadel Hill and continues as a very active scientific learned society with a large international membership. The MBA manages a research programme carried out by research fellows (partly funded by NERC) together with scientific visitors, publishes an International Journal, Annual Report, Newsletters and organizes scientific meetings.

Subscriptions can be paid by cash/cheque, direct debit from a UK bank account or credit card. *Subscriptions are reduced by £5 per annum if paying by direct debit.

Members of the Association have the following rights and privileges: they elect the Officers and Council annually; they are entitled to receive the Journal of the Association at the members' rate; they receive the biannual Newsletter, they have the option to apply to the Director for research facilities at the laboratory; and they have access to the resources in the library at Plymouth during working hours. Corporate members have significant additional rights and privileges, details of which can be supplied on request. Student members do not have voting rights. The Commissioners of Inland Revenue have approved the Association for the purposes of Section 16, Finance Act, 1958, and that the whole of the annual subscriptions paid by a member who qualifies for relief under the section will be allowable as a deduction from his emoluments assessable to income tax.

All correspondence should be addressed to: The Membership Secretary, Marine Biological Association, The Laboratory, Citadel Hill, Plymouth, PL1 2PB, UK (Tel: +44 (0) 1752 633207; Fax: +44 (0) 1752 633102; e-mail: membership@mba.ac.uk).

PUBLISHED BY THE PRESS SYNDICATE OF THE UNIVERSITY OF CAMBRIDGE The Pitt Building, Trumpington Street, Cambridge, CB2 1RP, United Kingdom

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.

CAMBRIDGE UNIVERSITY PRESS

The Edinburgh Building, Cambridge, CB2 2RU, United Kingdom 32 Avenue of the Americas, New York, NY 10013-2473, USA 477 Williamstown Road, Port Melbourne, VIC 3207, Australia C/ Orense, 4, planta 13, 28020, Madrid, Spain Dock House, The Waterfront, Cape Town 8001, South Africa

JMBA

JOURNAL OF THE MARINE BIOLOGICAL ASSOCIATION OF THE UNITED KINGDOM VOLUME 93.3 MAY 2013

Co	NT	ΈN	ITS
-			

NEVES, R.A.F., ECHEVERRIA, C.A., PESSOA, L.A., PAIVA, P.C., PARANHOS, R. & VALENTIN, J.L. Factors influencing spatial patterns of molluscs in a eutrophic tropical bay	577
SHORT, J., METAXAS, A. & DAIGLE, R.M. Predation of larval benthic invertebrates in St George's Bay, Nova Scotia	591
Xu, G., Li, Y., HE, C. & Xu, H. Congruency analysis to determine potential surrogates of littoral macroinvertebrate communities: a case study in intertidal	/01
ecosystems of northern Yellow Sea	60 I
CENTURIÓN, R. & GAPPA, J.L. Benthic biodiversity off the eastern mouth of the Strait of Magellan (Argentina, south-west Atlantic) QUINTAS, P., MOREIRA, J. & TRONCOSO, J.S. Distribution patterns of molluscan fauna in seagrass beds in the Ensenada de O Grove (Galicia, north-western Spain)	619
SCHMIDT-RHAESA, A., POHLE, G., GAUDETTE, J. & BURDETT-COUTTS, V. Lobster (Homarus americanus), a new host for marine horsehair worms (Nectonema agile,	017
Nematomorpha)	631
Soler-Membrives, A., Arango, C.P., Cuadrado, M. & Munilla, T. Feeding biology of carnivore and detritivore Mediterranean pycnogonids	635
Wu, L., GAO, Q., WANG, G. & LIU, Y. Diel variations in <i>Centropages tenuiremis</i> (Copepoda) feeding, spawning and its relationship with temperature	645
Corgosinho, P.H.C. & Schizas, N.V. Archeolourinia shermani, a new genus and species of Louriniidae (Copepoda: Harpacticoida) from a Caribbean mesophotic zone	651
FRUTOS, I. & SORBE, J.C. Leucothoe cathalaa sp. nov. (Crustacea: Amphipoda: Leucothoidae), a new bathyal benthic species from the Le Danois Bank	
('El Cachucho' Spanish MPA), southern Bay of Biscay	659
PARDAL-SOUZA, A.L. & PINHEIRO, M.A.A. Relative growth and reproduction in Achelous spinicarpus (Crustacea: Portunidae) on the south-eastern continental	
shelf of Brazil	667
ROMERO-RODRÍGUEZ, J. & ROMAÍN-CONTRERAS, R. Population structure and reproduction of the seagrass shrimp Hippolyte zostericola (Decapoda: Hippolytidae) at	
Laguna de Términos, Campeche, Mexico	675
GUILHERME BISSARO, F., GOMES-JR, J.L. & BENEDITTO, A.P.M.D. Morphometric variation in the shape of the cephalothorax of shrimp Xiphopenaeus kroyeri on the	
east coast of Brazil	683
BARROS-ALVES, S.D.P., ALVES, D.F.R. & COBO, V.J. Comparison of the population biology of Epialtus bituberculatus from two rocky shores with distinct	
hydrodynamic patterns	693
TURNER, L.M., HALLAS, J.P., SMITH, M.J. & MORRIS, S. Phylogeography of the Christmas Island blue crab, Discoplax celeste (Decapoda: Gecarcinidae) on Christmas Island,	
Indian Ocean	703
PEIRÓ, D.F., BAEZA, J.A. & MANTELATTO, F.L. Host-use pattern and sexual dimorphism reveals the mating system of the symbiotic pea crab Austinixa aidae	
(Crustacea: Brachyura: Pinnotheridae)	715
CARMONA-SUAREZ, C.A. Population dynamics and reproductive aspects of the decorator crab Microphrys bicornutus (Crustacea: Brachyura: Majidae) in an	
extreme shallow Thalassia complex	725
GOMES, A.P.P., KEUNECKE, K.A., SILVA, JR D.R.D. & VIANNA, M. Modulating reproduction of Penaeidae shrimps: ecological responses of two sympatric species	
(Decapoda: Dendrobranchiata) on south-eastern Brazilian coast	733
NYE, V., COPLEY, J., PLOUVIEZ, S. & DOVER, C.L.V. A new species of Lebbeus (Crustacea: Decapoda: Caridea: Hippolytidae) from the Von Damm Vent Field, Caribbean Sea	741
SIMÖES, S.M., CASTILHO, A.L., FRANSOZO, A., NEGREIROS-FRANSOZO, M.L. & COSTA, R.C.D. Distribution related to temperature and salinity of the shrimps	
Acetes americanus and Peisos petrunkevitchi (Crustacea: Sergestoidea) in the south-eastern Brazilian littoral zone	753
SHINOZAKI-MENDES, R.A., SILVA, J.R.F., SANTANDER-NETO, J. & HAZIN, F.H.V. Reproductive biology of the land crab Cardisoma guanhumi (Decapoda: Gecarcinidae)	
in north-eastern Brazil	761
VICENTE, C.S., FRUTOS, I. & SORBE, J.C. Mysidopsis cachuchoensis sp. nov. (Crustacea: Mysida: Mysidae), a new suprabenthic mysid from bathyal soft-bottoms	
of the Le Danois Bank (southern Bay of Biscay)	769
HIROSE, G.L., FRANSOZO, V., TROPEA, C., LÓPEZ-GRECO, L.S. & NEGREIROS-FRANSOZO, M.L. Comparison of body size, relative growth and size at onset sexual maturity	701
of Uca uruguayensis (Crustacea: Decapoda: Ocypodidae) from different latitudes in the south-western Atlantic	781
AOKI, M. & WADA, K. Genetic structure of the wide-ranging fiddler crab <i>Uca crassipes</i> in the west Pacific region	789
PULGAR, J., ALDANA, M., ALVAREZ, M., GARCIA-HUIDOBRO, R., MOLINA, P., MORALES, J.P. & PULGAR, V.M. Upwelling affects food availability, impacting the morphological	707
and molecular conditions of the herviborous limpet Fissurella crassa (Mollusca: Archeogastropoda)	797
Molen, S.V.D., Márquez, F., Idaszkin, Y.L. & Adami, M. Use of shell-shape to discriminate between Brachidontes rodriguezii and Brachidontes purpuratus	803
species (Mytilidae) in the transition zone of their distributions (south-western Atlantic)	003
Suárez-Moo, P.D.J., Calderon-Aguilera, L.E., Reyes-Bonilla, H., Díaz-Erales, G., Castañeda-Fernandez-de-Lara, V., Aragón-Noriega, E.A. & Rocha-Olivares, A. Integrating genetic, phenotypic and ecological analyses to assess the variation and clarify the distribution of the Cortes geoduck (<i>Panopea globosa</i>)	809
GONCALVES, C.I. & LOBO-DA-CUNHA, A. Seasonal and starvation-induced changes on gonads and lipid reserves of the digestive gland of Nucella lapillus	007
	817
(Caenogastropoda) Teso, V. & Giménez, J. Sperm morphology of two species of <i>Olivancillaria</i> (Gastropoda: Olividae) from the south-western Atlantic	825
ORTIZ, N. Validation of macroscopic maturity stages of the Patagonian red octopus Enteroctopus megalocyathus	833
CUCCU, D., MEREU, M., CAU, A., PESCI, P. & CAU, A. Reproductive development versus estimated age and size in a wild Mediterranean population	033
of Octopus vulgaris (Cephalopoda: Octopodidae)	843
ÖNSOY, B., CEYLAN, B. & SALMAN, A. Reproductive biology of the lentil bobtail squid, <i>Rondeletiola minor</i> (Cephalopoda: Sepiolidae) from the eastern Mediterranean	851
, , , , , , , , , , , , , , , , , , , ,	

Cambridge Journals Online
For further information about this journal please go to the journal web site at:

journals.cambridge.org/mbi



