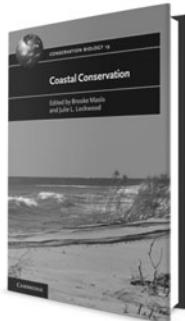


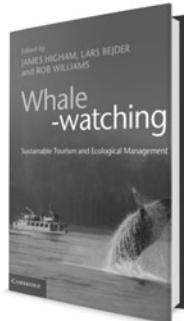
CAMBRIDGE

## Recent highlights from Cambridge University Press



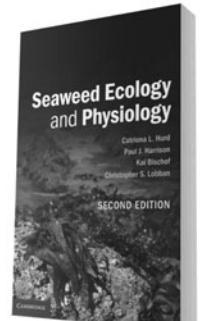
### *Coastal Conservation*

Brooke Maslo, Rutgers University, New Jersey  
Julie L. Lockwood, Rutgers University, New Jersey  
Paperback | 9781107606746 | £35.00 / \$55.00  
Hardback | 9781107022799 | £65.00 / \$105.00  
395pp | 45 b/w illus. | 16 colour illus. | 15 tables  
Conservation Biology Series



### *Whale-watching*

Sustainable Tourism and Ecological Management  
James Higham, University of Otago, New Zealand  
Lars Bejder, Murdoch University, Western Australia  
Rob Williams, University of St Andrews, Scotland  
Hardback | 9780521195973 | £70.00 / \$110.00  
401pp | 64 b/w illus. | 20 colour illus. | 24 tables



### *Seaweed Ecology and Physiology*

2nd Edition  
Catriona L. Hurd, University of Tasmania  
Paul J. Harrison, University of British Columbia, Vancouver  
Kai Bischof, Universität Bremen  
Christopher S. Lobban, University of Guam  
Paperback | 9780521145954 | £45.00 / \$75.00  
562pp | 216 b/w illus. | 22 tables

[www.cambridge.org/lifesciences](http://www.cambridge.org/lifesciences)



CAMBRIDGE  
UNIVERSITY PRESS

# Bird Conservation International

Published on behalf of BirdLife International

## Editor-in-Chief

Phil Atkinson, British Trust for Ornithology, UK

*Bird Conservation International* is a quarterly peer-reviewed journal focusing on the conservation of birds and their habitats. The official journal of BirdLife International, it provides stimulating, international and up-to-date coverage of a broad range of conservation topics, using birds to illuminate wider issues of biodiversity, conservation and sustainable resource use. *Bird Conservation International* publishes original papers and reviews, including specifically targeted articles and recommendations by leading experts.

## Price information

is available at: <http://journals.cambridge.org/bci>

## Free email alerts

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

For free online content visit:  
<http://journals.cambridge.org/bci>



*Bird Conservation International* is available online at:  
<http://journals.cambridge.org/bci>

To subscribe contact  
Customer Services

in Cambridge:  
Phone +44 (0)1223 326070  
Fax +44 (0)1223 325150  
Email [journals@cambridge.org](mailto:journals@cambridge.org)

in New York:  
Phone +1 (845) 353 7500  
Fax +1 (845) 353 4141  
Email [subscriptions\\_newyork@cambridge.org](mailto:subscriptions_newyork@cambridge.org)

**THE MARINE BIOLOGICAL ASSOCIATION  
OF THE UNITED KINGDOM**

**TERMS OF MEMBERSHIP FOR 2015**

<b>MBA MEMBERSHIP</b> (prices per annum)	<b>New price from 1st March 2015</b>	<b>Former price</b>
Young Marine Biologist (YMB)	£12.50	—
Student Member	£25.00	£20.00
Associate Member	£40.00 (direct debit discount £5)	£35.00 (direct debit discount £5)
Professional Member, Mem.MBA	£45.00 (direct debit discount £5)	£35.00 (direct debit discount £5)
MBA Fellow, FMBA	£120.00 (direct debit discount £5)	—
Institutional Member	£340.00	—

**JOURNAL SUBSCRIPTION**

(MBA price added to the above membership fees, with the exception of YMB as no Journal option for this category)

Online Journal	£20.00
Print Journal	£60.00
Print & Online Journal	£80.00

The Association is a learned society founded in 1884 and incorporated by Royal Charter in 2013. The Marine Biological Association (MBA) provides a unified, clear, independent voice on behalf of the marine biological community. In 1888, the MBA opened the Plymouth laboratory at Citadel Hill.

The MBA is also a registered charity with its key aims being to promote scientific research into all aspects of life in the sea, including the environment on which it depends, and to disseminate to the public the knowledge gained. The Patron of the Association is His Royal Highness the Duke of Edinburgh, who is also an Honorary Fellow. The other Honorary Fellows are His Serene Highness Prince Albert of Monaco, Dr Sylvia Earle, Sir Tim Hunt and Professor James Lovelock.

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).

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.

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 together with scientific visitors, publishes and 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 a wide range of rights and privileges including the use of post-nominals (FMBA for MBA Fellows, Mem.MBA for Professional Members) and being entitled to receive the Marine Biologist Magazine. 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](http://www.fsc.org) for information.

Printed by Bell and Bain Limited, Glasgow

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

## CONTENTS

Editorial	1
Mariano, D.L.S. & Barros, F. Intertidal benthic macrofaunal assemblages: changes in structure along entire tropical estuarine salinity gradients	5
Consoli, P., Martino, A., Romeo, T., Sinopoli, M., Perzia, P., Canese, S., Vivona, P. & Andaloro, F. The effect of shipwrecks on associated fish assemblages in the central Mediterranean Sea	17
Díaz, F.J., Pereda, S.V. & Buschmann, A.H. Coexistence in a subtidal habitat in southern Chile: the effects of giant kelp <i>Macrocystis pyrifera</i> overgrowth on the slipper limpet <i>Crepipatella fecunda</i>	25
Agirbas, E., Feyzioglu, A.M., Kopuz, U. & Llewellyn, C.A. Phytoplankton community composition in the south-eastern Black Sea determined with pigments measured by HPLC-CHEMTAX analyses and microscopy cell counts	35
Xu, Y., Zhang, W., Liu, Y., Warren, A. & Xu, H. Temporal variations in taxonomic relatedness of periphytic ciliate microfauna during its colonization periods in coastal waters of the Yellow Sea, northern China	53
Lee, K.-M., Xie, J.Y., Sun, Y., Kei, K. & Qiu, J.-W. Four dense assemblages of the bulb-tentacle sea anemone <i>Entacmaea quadricolor</i> and associated clownfish in Hong Kong	63
González-Muñoz, R., Simões, N., Mascaró, M., Tello-Musi, J.L., Brugler, M.R. & Rodríguez, E. Morphological and molecular variability of the sea anemone <i>Phymanthus crucifer</i> (Cnidaria, Anthozoa, Actiniaria, Actinoidea)	69
Gomez, C.G., Guzman, H.M. & Gonzalez, A. Population decline and the effects of disturbances on the structure and recovery of octocoral communities (Coelenterata: Octocorallia) in Pacific Panama	81
Magalhães, W.F., Bailey-Brock, J.H. & Santos, C.S.G. A new species and two new records of <i>Poecilochaetus</i> (Polychaeta: Poecilochaetidae) from Hawaii	91
De Ward, C.T.P., Russo, V.L. & Villares, G. <i>Patagonema iubatum</i> gen. nov. and sp. nov. (Nematoda, Oncholaimidae, Octonchinae) from Patagonia sandy beach (Argentina)	101
Crocetta, F., Mariottini, P., Salvi, D. & Oliverio, M. Does GenBank provide a reliable DNA barcode reference to identify small alien oysters invading the Mediterranean Sea?	111
Sağlam, N.E., Sağlam, C. & Sağlam, Y.D. Determination of some population parameters of the veined rapa whelk ( <i>Rapana venosa</i> ) in the Central Black Sea	123
Mereu, M., Agus, B., Cannas, R., Cau, A., Coluccia, E. & Cuccu, D. Mark–recapture investigation on <i>Octopus vulgaris</i> specimens in an area of the central western Mediterranean Sea	131
Zhao, C., Tian, X., Sun, P., Hu, L., Feng, W. & Chang, Y. Long-term effects of temperature on gonad production, colour and flavour of the sea urchin <i>Glyptocidaris crenularis</i>	139
Cabanillas-Terán, N., Martín, J.A., Rodriguez-Barreras, R. & Luque, Á. Size-density strategy displayed by <i>Diadema africanum</i> linked with the stability of urchin-barrens in the Canary Islands	145
Girondot, M., Bédé, S., Delmotte, L., Russo, M., Chevalier, J., Guéry, L., Hassine, S.B., Féon, H. & Jribi, I. Spatio-temporal distribution of <i>Manta birostris</i> in French Guiana waters	153
Sassa, C., Takahashi, M. & Tsukamoto, Y. Distribution, hatch-date, growth, and mortality of larval <i>Benthosema pterotum</i> (Pisces: Myctophidae) in the shelf region of the East China Sea	161
Clark, F.J.K. & Pessanha, A.L.M. Diet and ontogenetic shift in habitat use by <i>Rhinosardinia bahiensis</i> in a tropical semi-arid estuary, north-eastern Brazil	175
Ayyıldız, H., Ozen, O. & Altin, A. Daily growth rates and hatch date distributions of common two-banded seabream, <i>Diplodus vulgaris</i> inhabiting the Çanakkale shallow waters of Turkey	185
Cui, Y., Wu, Y., Xu, Z.L. & Zhang, J. Potential dietary influence on the stable isotopes and fatty acid composition of migratory anchovy ( <i>Coilia mystus</i> ) around the Changjiang Estuary	193
Echwikhi, K., Jribi, I., Saidi, B. & Bradai, M.N. The influence of the type of hook on the capture of groupers and bycatch with bottom longline in the Gulf of Gabès, Tunisia	207

---