



Access
leading
journals in
your subject

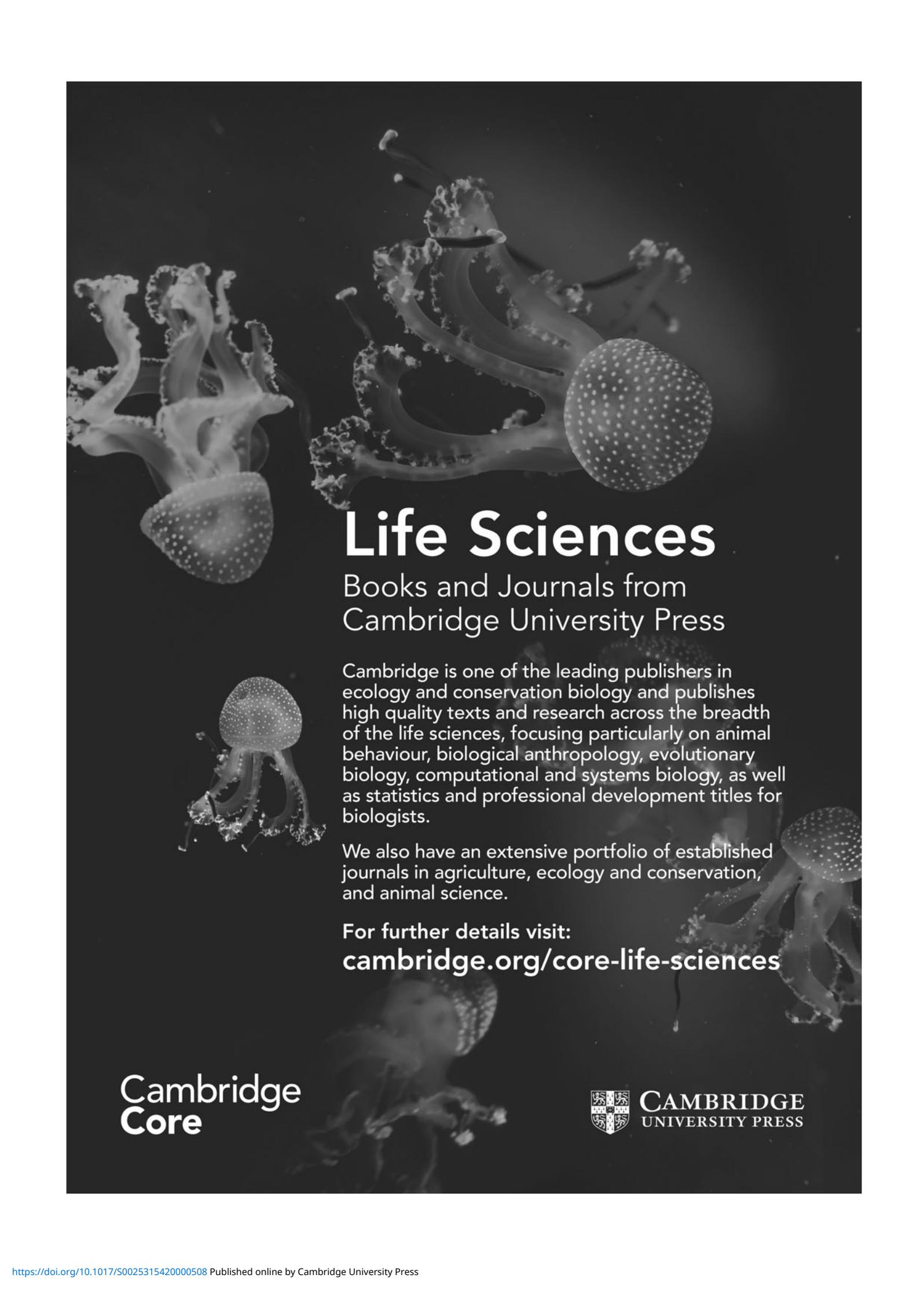
Cambridge Core

Explore today at [cambridge.org/core](https://www.cambridge.org/core)

Cambridge **Core**



CAMBRIDGE
UNIVERSITY PRESS

The background of the advertisement is a dark, monochromatic image of several jellyfish. One large jellyfish is prominent in the upper center, with its bell and tentacles clearly visible. Other smaller jellyfish are scattered throughout the scene, some appearing as faint, ethereal shapes. The overall aesthetic is scientific and naturalistic.

Life Sciences

Books and Journals from
Cambridge University Press

Cambridge is one of the leading publishers in ecology and conservation biology and publishes high quality texts and research across the breadth of the life sciences, focusing particularly on animal behaviour, biological anthropology, evolutionary biology, computational and systems biology, as well as statistics and professional development titles for biologists.

We also have an extensive portfolio of established journals in agriculture, ecology and conservation, and animal science.

For further details visit:

cambridge.org/core-life-sciences

Cambridge
Core



CAMBRIDGE
UNIVERSITY PRESS

The Association for marine professionals

The Marine Biological Association



“The future now is in the hands of those who understand the real importance of the blue part of the planet”

Dr Sylvia Earle Hon.MBA

Join a global community promoting marine science excellence.

Professional Membership of the MBA provides:

- o use of the post-nominal Mem.MBA
- o *The Marine Biologist* magazine
- o access to an Experts Database to connect with other professionals
- o opportunities to influence marine policy
- o a Certificate of Membership
- o an exclusive MBA pin badge
- o access to research awards and grants

And much more!

Fellow FMBA £120*, Professional Mem.MBA £45*, Associate £40*, Student £25
*£5 Direct Debit discount

Providing an authoritative and independent voice for the marine biological community.

T: +44 (0) 1752 426493 | E: membership@mba.ac.uk | www.mba.ac.uk

@thembauk



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.

Printed by Bell and Bain Limited, Glasgow

CAMBRIDGE UNIVERSITY PRESS

Journals Fulfillment Department, UPH, Shaftesbury Road, Cambridge CB2 8BS, United Kingdom
1 Liberty Plaza, Floor 20, New York, NY 10006, 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

- Hu, M.Y. Active ion transport mechanisms and their role for past, present and future life in marine systems 331

REVIEW

- Raven, J.A. and Beardall, J. Energizing the plasmalemma of marine photosynthetic organisms: the role of primary active transport 333

ARTICLES

- Carvalho, V.F., Silva, J., Kerr, R., Anderson, A.B., Bastos, E.O., Cabral, D., Gouvêa, L.P., Peres, L., Martins, C.D.L., Silveira-Andrade, V.M., Sissini, M.N. and Horta, P.H. When descriptive ecology meets physiology: a study in a South Atlantic rhodolith bed 347
- Manconi, R., Padiglia, A., Padedda, B.M. and Pronzato, R. Invasive green algae in a western Mediterranean Marine Protected Area: interaction of photophilous sponges with *Caulerpa cylindracea* 361
- Cruz-Barraza, J.A., Vega, C., Rützler, K. and Salas-Castañeda, M. Morphological and molecular taxonomy of *Timea* (Porifera: Timeidae) from the Gulf of Mexico with the description of a new species and re-description of *T. hechteli* 375
- Fortunato, H.F.M., Pérez, T. and Lôbo-Hajdu, G. Morphological description of six species of Suberitida (Porifera: Demospongiae) from the unexplored north-eastern coast of Brazil, with emphasis on two new species 389
- Gouillieux, B., Ariyama, H., Costa, A.C., Daffe, G., Marchini, A., Micael, J. and Ulman, A. New records of *Ericthonius didymus* Krapp-Schickel, 2013 (Crustacea: Amphipoda: Ischyroceridae) in European waters with a focus in Arcachon Bay, France and key to *Ericthonius* species 401
- Alitto, R.A.S., Granadier, G., Christensen, A.B., O'Hara, T., Di Domenico, M. and Borges, M. Unravelling the taxonomic identity of *Ophiothela* Verrill, 1867 (Ophiuroidea) along the Brazilian coast 413
- Wang, S.-B., Hung, L.-Y. and Liu, K.-M. Age and growth of the Japanese butterflyfish *Psenopsis anomala* in the waters off north-eastern Taiwan 427
- Aydin, M. and Mazlum, R.E. Feeding ecology of black scorpion fish (*Scorpaena porcus* Linnaeus, 1758) in SE Black Sea region, (Ordu) Turkey 435
- Di Benedetto, A.P.M., Gatts, P.V. and Bittar, V.T. Investigating food assimilation in a carnivorous teleost by stable isotopes analysis: the case of ribbonfish off south-east Brazil 445
- Soykan, O., Gülşahin, A. and Cerim, H. Contribution to some biological aspects of invasive marbled spinefoot (*Siganus rivulatus*, Forsskål 1775) from the Turkish coast of southern Aegean Sea 453
- Menon, M., Maheswarudu, G., Sree Ramulu, K. and Kizhakudan, S.J. Reproductive biology and diet of the longtail butterfly ray *Gymnura poecilura* (Shaw, 1804) along western Bay of Bengal 461
- Lodi, L. and Maricato, G. Rough-toothed dolphins (Cetartiodactyla: Delphinidae) habitat use in coastal urban waters of the South-western Atlantic 471
- Bouveroux, T., Waggitt, J.J., Belhadjer, A., Cazenave, P.W., Evans, P.G.H. and Kiszka, J.J. Modelling fine-scale distribution and relative abundance of harbour porpoises in the Southern Bight of the North Sea using platform-of-opportunity data 481
- CORRIGENDUM
- Singh, Y.T. Status of population dynamics of the Asian wedge clam, *Donax scortum* (Bivalvia: Donacidae): a first report from Asia – CORRIGENDUM 491