## Life in the Polar regions – a stimulating insight...



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Polar ecosystems and the life of organisms in the extreme polar environment are of interest to an increasing number of scientists working in different fields of biological and environmental research. Polar Biology is not only the focal point for scientists working in polar regions but also attracts the interest of those working in general biology, ecology and physiology, as well as in oceanography and climatology related to polar life.

Polar Biology presents results of all kinds of studies in plants, animals and micro-organisms of marine, limnic and terrestrial habitats of arctic and antarctic regions.

#### Future topics covered:

U. Bathmann et al.: Short term sedimentation pulses and stable carbon isotope ratios of biogenic particles off Kapp Norwegia, Antarctica.

D. Delille: Factors effecting the horizontal patchiness of coastal Antarctic seawater bacteria. Y. Endo & N. Kadoya: Feeding condition and hepatopancreas colour of Antarctic krill. W. Ernst & M. Klages: Bioconcentration and biotransformation of 14C-y-hexachlorocyclohexane and 14C-y-hexachlorobenzene in the Antarctic amphipod Orchomene plebs. C. Guinet et al.: Population changes, haul out pattern and movements of the southern

Elephant seal at Crozet and Kerguelen Archipelago over the last decades J. Hirche: Distribution of dominant calanoid copepod species in the Greenland Sea during late fall.

R. I. Lewis Smith & D. O. Ovstedal: The Lichen genus Stereocaulon in Antarctica and South Georgia.

T.M. Lancraft et al.: Micronektonic/macrozooplanktonic community structure and feeding under ice covered Antarctic waters during the winter.

C. Legendre & M. Gosselin: In situ radiometric estimation of microalgal biomass in the sea ice

V. Montecino et al.: Spatial and temporal photosynthetic compartments during summer in Antarctic lake Kitiesh.

Y. B. Okolodkov & V. S. Latyshev: Vertical distribution of algae phosphates and silicates in the first year ice of the East Siberian Sea.

P. Schatt & J. P. Feral: Characteristics of the brooded stages of Abatus chordatus (Echinodermata: Spatangoida) at Kerguelen Islands. Comparison with other Antarctic brooding Schizasterid Sea-Urchins.

Ch. Trees et al.: Bio-optical variability across the Arctic Front as determined by shipboard and satellite observations.

B. Ullrich et al.: Microsopic anatomy, functional morphology, and ultrastructure of the stomach of Euphausia superba (Crustacea, Euphausiacea).

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*Cover:* The photograph on the outside of the cover was taken by David Nicholson at Pedney Beach, Cornwall.

Inside covers: Drawings of fish by Geoffrey W. Potts.

Inside front cover: Fifteen-spined stickleback, Spinachia spinachia (L.). Maximum length 20 cm.

Inside back cover: Red gurnard, Aspitrigla cuculus (L.). Maximum length 40 cm.

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### CAMBRIDGE UNIVERSITY PRESS

#### THE PITT BUILDING, TRUMPINGTON STREET, CAMBRIDGE CB2 1RP

### 40 WEST 20TH STREET, NEW YORK, NY 10011-4211, USA

#### 10 STAMFORD ROAD, OAKLEIGH, MELBOURNE 3166, AUSTRALIA

#### Printed in Great Britain by the University Press, Cambridge





# JMBA

JOURNAL OF THE MARINE BIOLOGICAL ASSOCIATION OF THE UNITED KINGDOM VOLUME 71:2 MAY 1991

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