# THE ROYAL SOCIETY OF EDINBURGH



# PROCEEDINGS Section B (Biological Sciences)

ISSN-0308-2113

PUBLISHED BY THE ROYAL SOCIETY OF EDINBURGH 22 GEORGE STREET, EDINBURGH EH2 2PQ

## 1992

### **EDITORIAL BOARD**

#### **Executive Editors**

R. WATLING Royal Botanic Garden Edinburgh J. A. ALLEN University Marine Biological Station, Millport

I. A. D. BOUCHIER The Royal Infirmary Edinburgh

W. C. BOWMAN University of Strathclyde

J. E. DALE University of Edinburgh

B. D. HARRISON Scottish Crop Research Institute, Invergowrie

R. J. KNOPS Curator Heriot-Watt University A. D. MCINTYRE Aberdeen

W. R. MORRISON University of Strathclyde

J. A. RAVEN University of Dundee

C. J. SUCKLING University of Strathclyde

Publications Manager, Royal Society of Edinburgh: T. G. DART

Copyright

© 1992 The Royal Society of Edinburgh and the authors of individual papers.

It is the policy of the Royal Society of Edinburgh not to charge any royalty for the production of a single copy of any one article made for private study or research. Specific permission will not be required for photocopying multiple copies of copyright material, to be used for *bona fide* educational purposes, provided this is done by a member of the staff of the university, school or other comparable institution, for distribution without profit to student members of that institution and provided the copies are made from the original journal. Requests for the copying or reprinting of any article for any other purpose should be sent to the Royal Society of Edinburgh, 22/24 George Street, Edinburgh EH2 2PQ.

### PROCEEDINGS

#### OF THE

## ROYAL SOCIETY OF EDINBURGH

## PROCEEDINGS

 $\mathbf{OF}$ 

## THE ROYAL SOCIETY OF EDINBURGH

Section B (Biological Sciences)

VOL. 100

1992

#### PUBLISHED BY THE ROYAL SOCIETY OF EDINBURGH 22 GEORGE STREET EDINBURGH EH 2 2PQ

1992

## MARINE CONSERVATON IN SCOTLAND

Edited by J. M. BAXTER and A. D. McINTYRE

Proceedings of the workshop organised by Scottish Natural Heritage

## MARINE CONSERVATION IN SCOTLAND

A workshop organised by Scottish Natural Heritage and held 30 April to 1 May 1991

#### CONTENTS

Introduction: a perspective on marine conservation by A. D. MCINTYRE	1
A hydrographic framework for marine conservation in Scotland by J. McManus	3
The ecology of plankton in Scottish waters by P. TETT	27
Conservation of Scottish estuaries by D. RAFFAELLI	55
Aspects of intertidal ecology with reference to conservation of Scottish seashores by M. WILKINSON	77
The ecology and conservation of sublittoral hard substratum ecosystems in Scotland by K. HISCOCK	95
The benthos of soft sublittoral habitats by T. H. PEARSON	113
The conservation of marine mammals in Scottish waters by P. M. THOMPSON	123
Towards a strategy for the conservation of marine fish in Scotland by M. G. POXTON	141
Marine fouling by D. SELL	169
Towards a marine conservation strategy by J. M. Baxter and J. G. MUNFORD	185
WORKSHOP REPORTS	
Species conservation	195
Intertidal marine conservation	197
Rocky sublittoral conservation	200

203

Soft bottom sublittoral conservation