

BIOLOGY AND ENVIRONMENT

CONTENTS

- i **In this issue**
Bruce Osborne
- 143 **The physiological response and recovery of a common elasmobranch by-catch species: the lesser spotted dogfish (*Scyliorhinus canicula*) subject to a controlled exposure event.**
Clare Murray, Rebecca Connors, Ian O'Connor and Vera Dowling
- 157 **Ecology and economics of fish kills: mortality and recovery of brown trout (*Salmo trutta* L.) and Atlantic salmon (*Salmo salar* L.) in an Irish river**
James J. King
- 171 **Reconstructing long-term trophic histories for lakes using two independent approaches: Application of dynamic computer modelling and palaeolimnology to Lough Mask, Ireland**
Sarah Murnaghan, David Taylor and Eleanor Jennings
- 191 **Riparian buffer zones in intensive grassland agri-systems are not necessarily a refuge for high conservation value species**
D. Madden, S. Harrison, J.A. Finn and D. Ó hUallacháin
- 211 **Spatio-temporal variability in the population structure in North-East Atlantic stocks of horse mackerel (*Trachurus trachurus*)**
Maria Sala Bozano, Stefano Mariani, Christopher D. Barratt, Carlotta Sacchi, Belgees Boufana and Ilaria Coscia
- 221 **Low losses of P and sediment in overland flow suggest that this tillage site and others like it may not be high risk for phosphorus pollution**
Declan Ryan and John Finnan