CONTENTS

Preface x
Acknowledgments xi
Referees xii
Introduction to Australian owls xiii

David Hollands

Part 1. Population ecology

1 Population limitation in Holarctic owls
   Ian Newton 3

2 Occupancy in relation to site quality in Barn Owls (Tyto alba) in south Scotland
   Iain R. Taylor 30

3 Natal dispersal distances of Finnish owls: results from ringing
   Pertti Saurola 42

4 Natal and post-natal dispersal of Northern Spotted Owls (Strix occidentalis)
   Eric D. Forsman 56

5 Home-range, movement and dispersal of Lanyu Scops Owls (Otus elegans)
   Lucia Liv Severinghaus 58

6 Detrimental effects of blood parasites on parental effort and reproductive
   success of Tengmalm’s Owls (Aegolius funereus) and Eurasian Kestrels
   (Falco tinnunculus)
   Erkki Korpimaki, Harri Hakkarainen, Petteri Ilmonen & Jürgen Wiehn 68

7 Infertility as a cause of hatching failure in the Barn Owl (Tyto alba) in
   the Netherlands
   Arnold B. van den Burg 74

8 Ecology and behaviour of the Forest Owlet (Athene blewitti)
   Farah Ishtiaq, Asad R. Rahmani & Pamela Rasmussen 80

Part 2. Distribution, habitat and diet

9 Habitat quality in Powerful Owl (Ninox strenua) territories in the
   Box–Ironbark forest of Victoria, Australia

10 Urbanisation and the ecology of Powerful Owls (Ninox strenua) in outer
    Melbourne, Victoria
    Raylene Cooke, Robert Wallis & Alan Webster 100

11 Distribution and habitat of Barking Owls (Ninox connivens) in central
    Victoria, Australia
    Iain R. Taylor, Indre Kirsten & Paul Peake 107
12 Habitat, breeding and conservation of the Barking Owl (*Ninox connivens*) in northeastern Victoria, Australia  
*Iain R. Taylor, Indre Kirsten & Paul Peake*

13 Distribution, habitat and abundance of Masked Owls (*Tyto novaehollandiae*) in Tasmania  
*P. J. Bell & Nick Mooney*

14 Spatial habitat characteristics of an insular Spotted Owl (*Strix occidentalis*) population in southern California  
*Richard B. Smith, William S. Lahaye, R.J. Gutiérrez & Guthrie S. Zimmerman*

15 Effects of habitat fragmentation and slope on the distribution of three owl species in the Manitoba Escarpment, Canada – a preliminary analysis  
*Heather L. Hinam & James R. Duncan*

16 Comparative habitat use by owls in a high altitude (1,700–3,000 m) Rocky Mountain forest  
*Stanley H. Anderson & Kathleen A. Clark*

17 Comparative diets of the Powerful Owl (*Ninox strenua*), Sooty Owl (*Tyto tenebricosa*) and Masked Owl (*Tyto novaehollandiae*) in southeastern Australia  
*Rodney P. Kavanagh*

18 Notes on the diet and observations of the Southern Boobook (*Ninox novaeseelandiae*) in southern Victoria  
*Edward G. McNabb*

### Part 3. Conservation and management

19 Conservation and management of large forest owls in southeastern Australia  
*Rodney P. Kavanagh*

20 Large forest owl conservation in the East Gippsland Forest Management Area, Victoria  
*Andrew D. McIntyre & Stephen R. Henry*

21 Owls in the southwest forests of Western Australia  
*G.L. Liddelow, I.B. Wheeler & Rodney P. Kavanagh*

22 Modelling distributions of large forest owls as a conservation tool in forest management: a case study from Victoria, southeastern Australia  
*Richard H. Loyn, Edward G. McNabb, Lioudmila Volodina & Rolf Willig*

23 Monitoring large forest owls and gliders after recent logging in production regrowth forests in the mid-north coastal region of New South Wales  
*Brett Cann, Justin Williams & James M. Shields*
Response to habitat fragmentation by the Powerful Owl (*Ninox strenua*), Sooty Owl (*Tyto tenebricosa*), Masked Owl (*Tyto novaehollandiae*) and other nocturnal fauna in southeastern Australia
*Rodney P. Kavanagh & Matthew A. Stanton*

Lessons learned in 30 years of research and management on the Northern Spotted Owl (*Strix occidentalis*)
*Eric D. Forsman*

Rodenticides in British Barn Owls (*Tyto alba*)
*Ian Newton & Ian Wyllie*

Racumin rodenticide – potential environmental impact on birds
*Warwick Madden*

**Part 4. Voice, structure and taxonomy**

Vocalisations used by Southern Boobooks (*Ninox novaeseelandiae*) in the Australian Capital Territory
*J. Olsen, S. Trost & G. Hayes*

Do Southern Boobooks (*Ninox novaeseelandiae*) duet?
*J. Olsen, B.G. Marcot & S. Trost*

Independent evolution of outer ear asymmetry among five owl lineages; morphology, function and selection
*Åke Norberg*

The taxonomy and conservation status of the owls of the world: a review
*John M. Penhallurick*

Distribution, taxonomy, status and major threatening processes of owls of the Australasian region
*Stephen Debus*