

BOREAL FOREST OF CANADA & RUSSIA
Pruitt, W. O., Baskin L. M. 2004

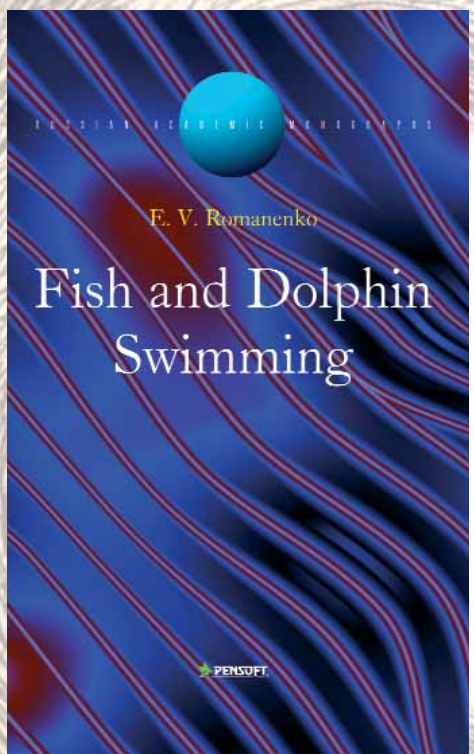
165x235, 84 figures, tables, index, references
In English & Russian
ISBN 954-642-199-5
Hardcover, 160 pp. EURO 28.90

Our planet's green halo is the circumpolar taiga or boreal forest. This forest is remarkably uniform in its climate, vegetation types and animal types. All life forms here have evolved adaptations to the long, cold and snowy winters, the short, hot and dry summers and the swiftly-changing seasons. The same genera and families of birds and mammals occur in this forest type in Eurasia and North America. Humans have invaded and exploited these northern coniferous forests differently in Canada and Russia. Although the history of human use has been different between the two countries the end results in both frequently have been catastrophic for vegetation, animals and some human groups. Such similarities and differences have been studied by biologists, human ecologists, anthropologists and other scientists at two research and teaching field stations in the taiga. Introductions to their work are presented here in both English and Russian in parallel texts. Such a format is ideal for students, not only of the natural sciences, but of both languages. This multi-level and inter-science approach has never before been accomplished.

Table of contents: Introduction * Taiga Biological Station in Canada * Kostroma Taiga Biological Station in Russia * The Taiga Environment in Russia * The Taiga Environment in Manitoba * Jackpine Ridge Plot * Alder-Ridge Ecotone Plot * Alder-Tamarack Bog Plot * Jackpine Sand Plain * Black Spruce Bog * Aspen Upland Plot * Prehistory of the Area * Wildlife of the Russian Taiga * Hazel Hen (*Tetrastes bonasia*)

– Capercaille (*Tetrao urogallus*) * Desman (*Desmana moschata*) * Hare (*Lepus timidus*) * Beaver (*Castor fiber*) * Marten (*Martes martes*) * Brown Bear (*Ursus arctos*) * Wolf (*Canis lupus*) - Moose (*Alces alces*) * European bison and cattle in the Russian taiga * Wildlife of the Canadian Taiga * White-tail Deer (*Odocoileus virginiana*) * Moose (*Alces alces*) * Woodland Caribou (*Rangifer tarandus caribou*) * Snowshoe Hare (*Lepus americanus*) * Lynx (*Lynx canadensis*) * Red Squirrel (*Tamiasciurus hudsonicus*) * Small Mammals (Shrews, Mice and Voles) * Deer Mice (*Peromyscus maniculatus*) * Voles (*Clethrionomys*, *Microtus*, *Synaptomys*, *Phenacomys*) * Weasel, Mink, Marten, Fisher, Wolverine (Family Mustelidae) * Beaver (*Castor canadensis*) * Wolf (*Canis lupus*) * Black Bear (*Ursus americanus*) * Grouse (Family Tetraonidae) * Woodpeckers (Family Picidae) * Chickadees (Family Paridae) * Jays and Ravens (Family Corvidae) * Owls (Family Strigidae) * Hawks (Family Accipitridae) * Other Birds * Amphibians and Reptiles * Invertebrates * Snow Fleas (Collembola) * Conclusions * Acknowledgements * References

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FISH AND DOLPHIN SWIMMING
RUSSIAN ACADEMIC MONOGRAPHS, NO 2
Romanenko, E. V. 2002

170x240, graphs, tables, photos, extended bibliography of over 800 references. In English
ISBN 954-642-150-2
Hardcover, 430 pp. EURO 68.00

This is a monographic, fully original treatment devoted to fish and dolphin swimming mechanics, with an up-to-date review of the modern concepts of and approaches to biohydrodynamics. The opinion is supported and advanced that at least the dolphins show certain mechanisms to control the boundary layer and to decrease the hydrodynamic friction resistance (Gray's paradox). The treatise is destined for students and specialists in biology, hydrodynamics and hydromechanics. Professor Evgeny V. Romanenko, DSc, Deputy of the A. N. Severtzov Institute of Ecology and Evolution, Russian Academy of Sciences, Moscow. Since 1960, one of Russia's leading research fellows in the field of biohydrodynamics, with special emphasis on the locomotion of such active and successful swimmers as fish and dolphins. His first monograph, of 1976, entitled „Foundations of statistic biohydrodynamics“ (Moscow) focused on the study of the fine structure of the boundary layer in free-living fish and dolphins. The next monograph, of 1986, entitled „Theory of fish and dolphin swimming“ (Moscow), concentrated on a mathematical simulation of the mechanisms controlling the formation of a favourable gradient of the dynamic pressure on undulating fish and dolphin bodies. Finally, his recent monograph, of 2001, entitled „Hydrodynamics of fishes and dolphins“ (Moscow), represents a Russian prototype of the present book, with several new theoretical and experimental results in body and fluke kinematics just proposed.

Table of contents: Preface * Introduction * Theoretical models of swimming * The law of body deformation in actively swimming fish or dolphin * Distribution of the dynamic pressure on the body of fish and dolphin caused by its oscillations * Basics of statistic biohydrodynamics * Devices and methods for experimental kinematic and hydrodynamic studies * The results of the experimental researches * Evaluation of dolphin's hydrodynamic characteristics on the basis of measured kinematical parameters. Theory and experiment * Conclusion * References

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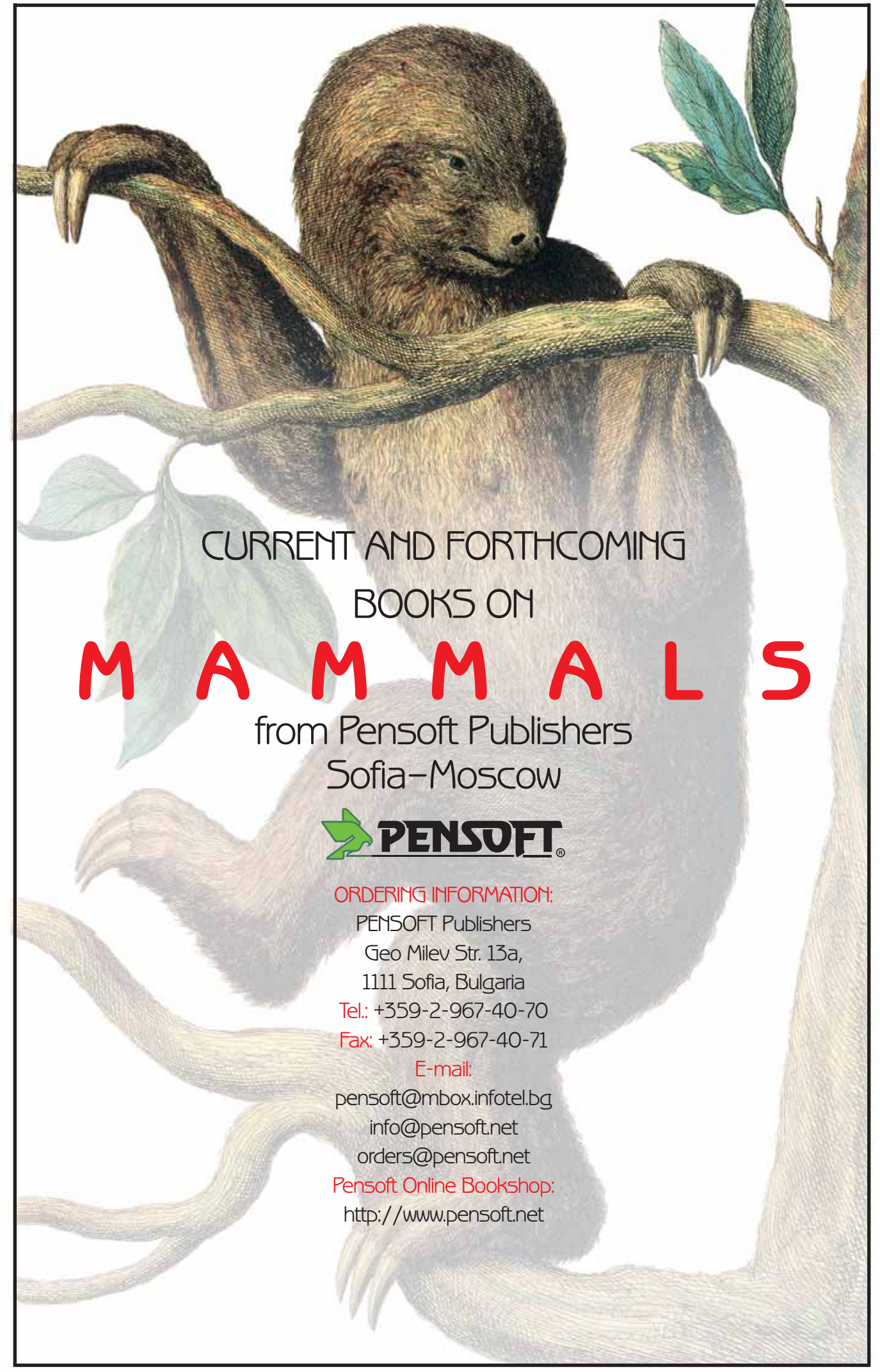
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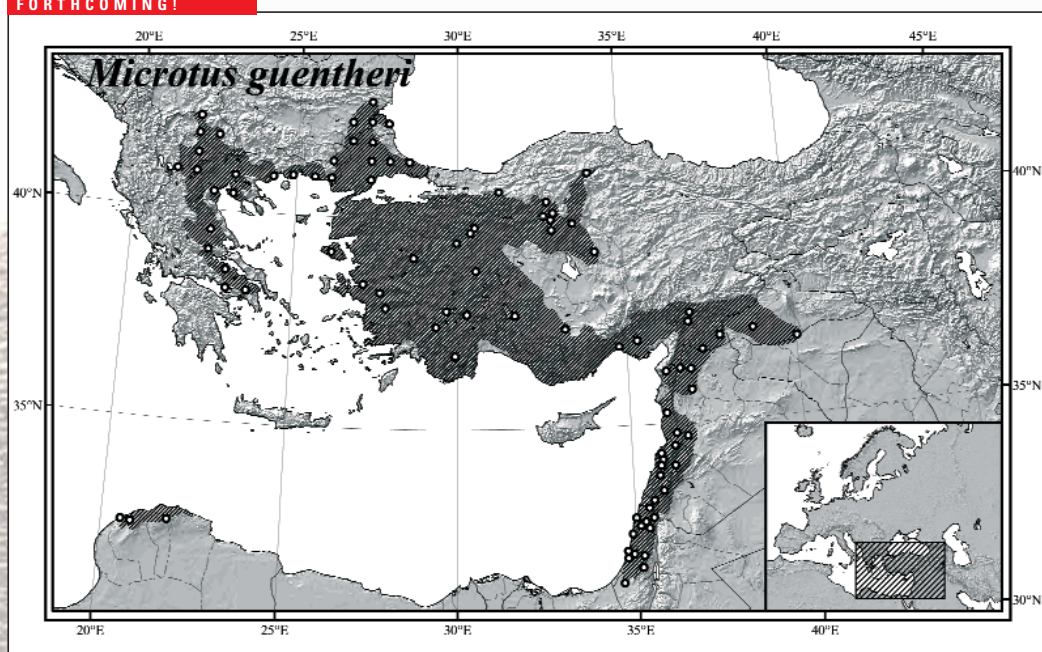
RETRACING THE AUROCHS: HISTORY, MORPHOLOGY AND ECOLOGY OF AN EXTINCT WILD OX
Cis van Vuure

165x240, numerous b/w and color photos and figures, references, index. In English Hardcover, 250 pp. Publication date: October, 2005 Prepublication price: EURO 54.90

This book tells a comprehensive story of the extinct aurochs (*Bos primigenius*), the wild ancestor of our domestic cattle, and of what is still left of it. Not only until its extinction in 1627, the aurochs, because of its appearance and nature, had left a deep impression on people, but also afterwards this bovine species, due to scanty information and questionable interpretations, has been subject to discussion and mystification. In spite of a growing amount of individual scientific studies, no exhaustive overview on this subject has ever been made. After many years of research at the Wageningen University, the existing information as well as numerous new or unused data from the fields of archaeozoology, history, philology, modern and palaeoecology have been brought together by the author to build up a complete picture of the physical appearance, the way of life and the environment of the aurochs. Directly related to the ecology of the aurochs is the ongoing discussion concerning the supposed impact the large herbivores render on forest structure, as well as on the appearance of the natural landscapes they live in. Here, too, the existing and new surprising data from various fields of science are compiled to elucidate this problem. In addition, due attention is paid to the origin, description and evaluation of the so-called bred-back aurochs (Heck cattle), used in several places for educational and nature conservation purposes. Only now can Heck cattle be properly compared with the original aurochs prototype. The book is addressed to specialists in theriology (interested in the archaeology, ecology, morphology and history of mammals), palaeoecology (because of the herbivore-impact debate concerning the former natural landscape), forest ecology and European nature conservation, to cattle breeders and other cattle lovers.

Table of contents: Preface * Word of thanks * Introduction * Sources for aurochs research * Systematics and evolution * The scientific name – Evolution – Systematics * Distribution area – North Africa – Asia – Europe – Occurrence within the range limits * Decline and disappearance – Outside Europe – Inside Europe – The last living area – Causes of extinction * Language and symbolism – Etymology – Toponyms – The aurochs–European bison confusion – Nature and symbolism * Characteristics of the aurochs – Size – Comparison of the Pleistocene and the Holocene aurochs – The Holocene aurochs – The height of the withers – Horns – Size – Colour – Shape – Position – The colour of the fur – Pictures and descriptions – Genetic aspects of the fur colour – Comparison with related bovine species – Reconstruction of the fur colour of the aurochs – Other physical characteristics – Hooves – Udder – Fur – Hide – Changes resulting from domestication * Ecology of the aurochs and other wild cattle – Habitat – The natural landscape of Europe – Introduction – Insects – Pollen research – Roman writers – Frontier forests – The last Central–European wilderness – Food – Reconstruction of the food of the aurochs in its original habitat – The habitat of the aurochs – Other bovine species – Reconstruction of the aurochs habitat – Seasonal migration – Summary – Predation – Social structure and reproduction – The impact of large herbivores on the forest growth – Introduction – Areas comparable to Europe – Population density of wild cattle – The effects of feeding: forest elephants, European bison and others – Wood Buffalo National Park: A case study – Discussion * The breeding-back experiment of the Heck brothers – Cattle breeds – The breeding-back experiment – Evaluation of the breeding-back experiment – Description of Heck cattle * Final remarks, conclusions and recommendations – The animal – Effects and landscape – The animal in the landscape – Summary of conclusions and recommendations * Appendix * References * Register

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AN ATLAS OF THE GEOGRAPHIC DISTRIBUTION OF THE ARVICOLINE RODENTS OF THE WORLD (RODENTIA: MURIDAE, ARVICOLINAE)
Georgy I. Shenbrot and Boris R. Krasnov

165x240, taxonomic checklist, maps for each of 140 species, comments, notes, references, index. In English. Hardcover, 350 pp. Pensoft Series Faunistica 45. ISSN 1312-0174 Publication date: November, 2005. Prepublication price: EURO 77.90

Any living organism is distributed someplace. Lots of information on species records are scattered in publications and museum catalogues, but only a few taxa have merited enough attention for a compilation of the available data on their geographic distribution. This book is aimed to fill in this gap for the voles of the rodent subfamily Arvicolinae. It represents an atlas of the global distribution of all 140 arvicoline

species. Distribution maps are compiled from records from the literature and museum catalogues. A map for each species is presented as both record points and a polygon of a predicted distribution. The record points were georeferenced while the polygons of predicted distributions were constructed using the GARP algorithm. The book provides also short characteristics of each of the species, a list of and distributional data for the subspecies, as well as taxonomic notes and references. The volume is addressed to specialists in theriology, taxonomists, biogeographers and conservationists. It will be of use to any zoological library.

Table of contents: Introduction * Methods * Checklist * Maps and Descriptions * References * Index

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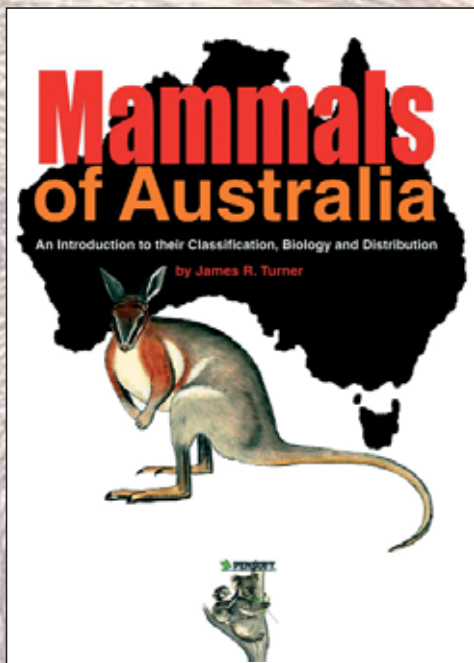
THE RETURN OF THE BEAVER
Edited by Goran Sjoberg and John P. Ball

165x240, richly illustrated by color photos, maps, tables, graphs, references, index In English. Hardcover, ca. 300 pp. Publication date: May, 2006 Prepublication price: EURO 68.70

The beaver was once almost extinct in Europe but, thanks to successful reintroduction, it is now again a viable species. As a result of cooperation between researchers in several countries, a new book is now being produced which will cover the results and effects of the restoration of beaver populations in northern Europe.

The contents will include the history and biology of both the Eurasian and the North American beaver species in Northern Europe. New data on beaver behavior, the relationship between the beaver and its predators, and development of local beaver populations will be presented. There will also be results of studies on the beavers' influence on landscape, vegetation, soil and other aspects on both terrestrial and aquatic ecosystems. Finally, there will be chapters on conflicts and benefits related to beaver and humans, and a forecast of the future of the beaver in Northern Europe.

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MAMMALS OF AUSTRALIA. AN INTRODUCTION TO THEIR CLASSIFICATION, BIOLOGY AND DISTRIBUTION
Turner, J. 2004.

Pensoft Series Faunistica 33 ISSN 1312-0174. ISBN 954-642-198-7 210x290, excellent color drawings & distributional maps of 320 species, references, index. In English Hardcover, 216 pp. EURO 38.50

This book introduces the species of Australian mammals. It includes a painting of each species, along with a distribution map. This book includes about 320 species of Australian mammals currently recognised in 2003. Almost all of the paintings in this book come from photographs taken of individual species in their natural settings, however in a few cases where no photograph exists, the author has used the published type description of the species or other available information to create the painting. The individual species are arranged in alphabetical order using their common name. However, a Quickfind index is provided at the front of the book to enable those familiar with scientific names to go directly to any specific species. Details are given for each Subclass, Order, Suborder, Superfamily, Family and Subfamily. The text on each species has clear, precise information and is presented in such a way, so as to make of value to readers from the layperson, naturalist through to the scientist. Indeed anyone who may have an interest in learning more about Australian mammals. The comprehensive reference list gives the reader access to thousands of scientific papers and articles for further reading.

Table of contents: Foreword * Preface * Acknowledgements * Quick Find Index. List of Species of Australian mammals * Introduction – Mammals, Marsupials, Monotremes, Eutherians, Introduced species – Some Diagnostic Characters in Mammals

* The Mammals of Australia: the Families – Subclass Prototheria (monotremes), Orders and Families * Subclass Marsupialia, Orders, Superfamilies and Families * Subclass Eutheria, Orders, Superfamilies and Families * The Mammals of Australia: the Species & Sub-species * Glossary * References * Index

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NONINVASIVE STUDY OF MAMMALIAN POPULATIONS

Evans, W & Yablokov, A. 2004

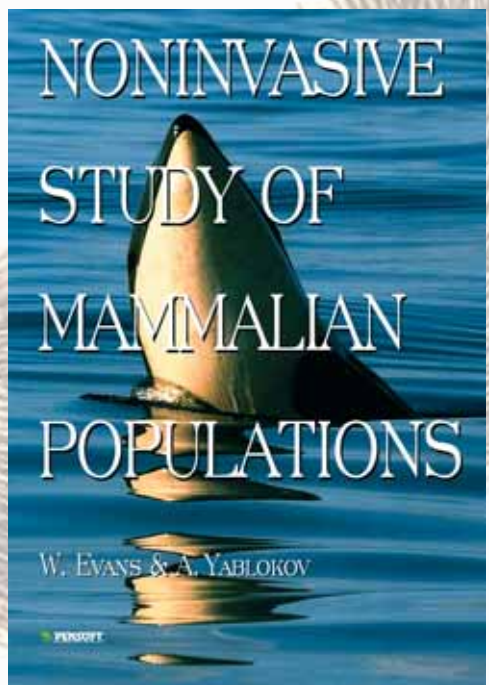
165x240, 53 figs, bibliography In English. Hardcover, 118 pp. ISBN 954-642-204-5 EURO 37.80

This is the first book on noninvasive approach to the study of animal populations in nature. The frequencies of the detectable individual variations (structural, behavioral, acoustics, etc.) give a possibility to study population structure and dynamics, interrelationships between populations and to understand phylogeographic (micro-evolutionary) pathways. The book offers historical and analytical review of the studies of color pattern, acoustic, behavior and the structural features (including many qualitative variations of nose, ears, tooth, eyes, tail, dermatoglyphics and other variations) of the whales, dolphins, seals and many other mammalian groups. The phenetic studies (the frequencies of qualitative detectable variations - phenes - which reflect the genetic characteristics of population) are discussed as a new powerful methodology of noninvasive study of the natural populations. The book is addressed to specialists in mammals, population biologists, taxonomists, biogeographers and conservationists.

Table of contents: Preface * Acknowledgments * Part One. SOME GENERAL APPROACHES TO THE STUDY OF MAMMALIAN POPULATION * Chapter I. The Problems in Mammalian Population Studies – I.1. Population studies as an important branch of field biology – I.2. The Importance of Genetics for all Population Studies – I.3. Three problems in mammalian population studies – I.4. Phenetics solutions of some problems in population studies * Chapter II. Population Phenetics as a Basis for Noninvasive Study of Mammals – II.1. A brief review of population phenetics – II.2. The study of phenes per se – II.3. Phene pool studies – II.3.1. Bio-chorological structure of the population – II.3.2. Dynamics of population structures – II.3.3. On individual identification – II.3.4. Phene pools as environmental markers – II.4. Phenogeography – II.4.1. Determination of population boundaries – II.4.2. Spatial structure of species – II.4.3. Reconstruction of microphylogenesis * Part Two. PHENETICS NON-INVASIVE STUDIES OF MAMMALS * Chapter

III. Color Pattern Variations in Some Mammals – III.1.–III.2. Head color pattern variation – III.3. Neck and breast color pattern variation – III.4. Dorsal color pattern variation – III.5. Ventral color pattern variation – III.6. Limb color pattern variation – III.7. Tail and rump color pattern * Charter IV. Cetacean Color Pattern Variation – IV.1. Inheritance of color pattern characters in Cetacea – IV.2. Population phenetics of color pattern of some Cetacea – IV.2.1. Killer whale *Orcinus orca* – IV.2.2. Sperm whale *Physeter macrocephalus* – IV.2.3. Dall porpoise *Phocoenoides* sp. – IV.2.4. Pilot whales *Globicephala* sp. – IV.2.5. Right whale dolphin *Lissodelphis borealis* – IV.2.6. *Stenella* sp. – IV.2.7. Common dolphin *Delphinus delphis* – IV.2.8. Notes about color patterns of some other Cetacea * Chapter V. Cetacean acoustic studies * Chapter VI. Acoustic studies of other mammals – VI.1. Pinniped acoustic studies – VI.2. Acoustic studies of bats – VI.3. Acoustic studies of other mammals * Chapter VII. Behavioral Approach to Phenetics Study * Chapter VIII. Phenetics Variation in Mammalian Structural Features – VIII.1. Body size and form. – VIII.2. Nose – VIII.3. Ears – VIII.4. Mouth and lips – VIII.5. Tooth position and shape – VIII.6. Eyes – VIII.7. Horn and antlers – VIII.8. Limbs – VIII.8.1. Shape of limbs – VIII.8.2. Digits (fingers and toes) – VIII.8.3. Claws and nails – VIII.9. Tail – VIII.10. Integument variations – VIII.10.1. Coat and hair – VIII.10.2. Vibrissae – VIII.10.3. Quills – VIII.10.4. Skin – VIII.10.5. Special cutaneous glands – VIII.10.6. Dermatoglyphics (ridge pattern variations) – VIII.10.6.a. Finger- and toeprints – VIII.10.5.b. Palm- and soleprint's variations – VIII.10.5.c. Noseprint variation – VIII.11. Superficial blood vessels pattern * Conclusion * APPENDIX – Preliminary list of phenetics variations in some Mammals * Referenses * Indexes

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