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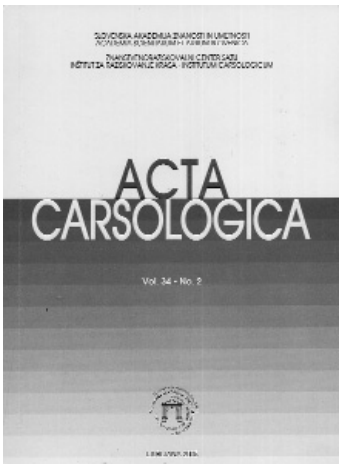

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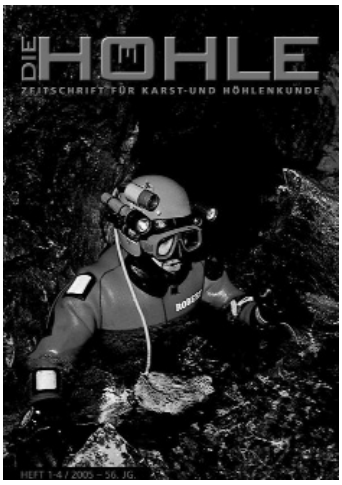

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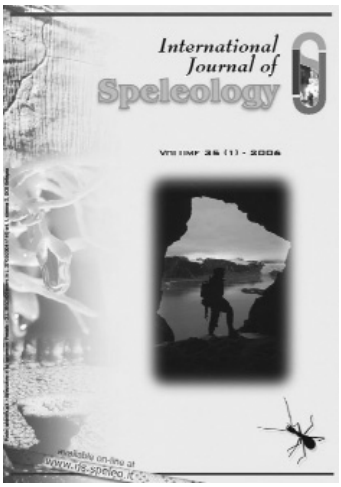

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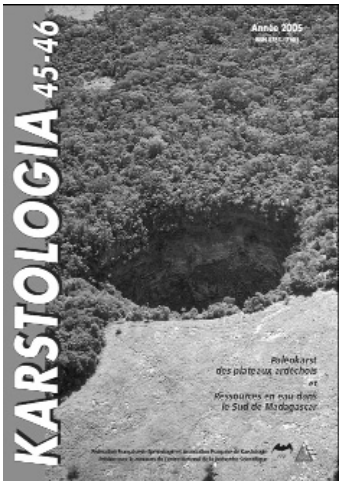

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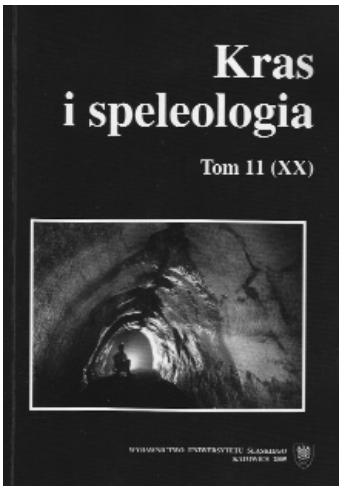

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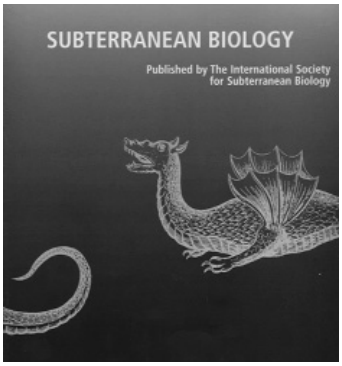

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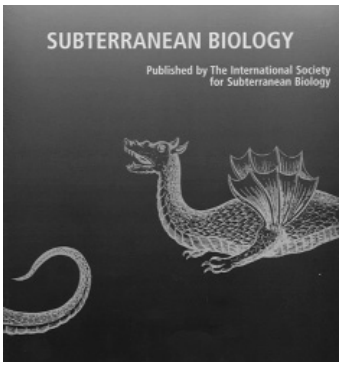

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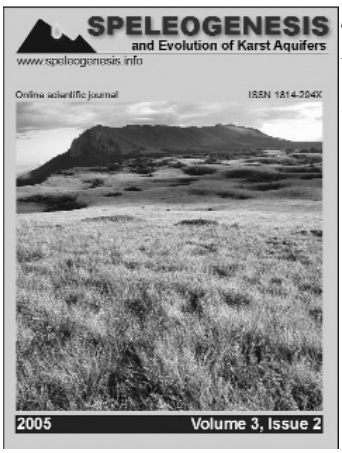

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Ground water flux distribution between matrix, fractures, and conduits: Constraints on modelling. White, W. and White, E., 6 pages.

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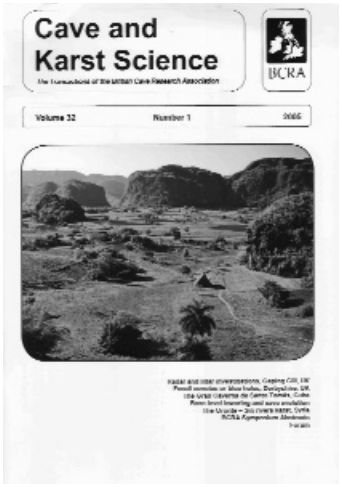

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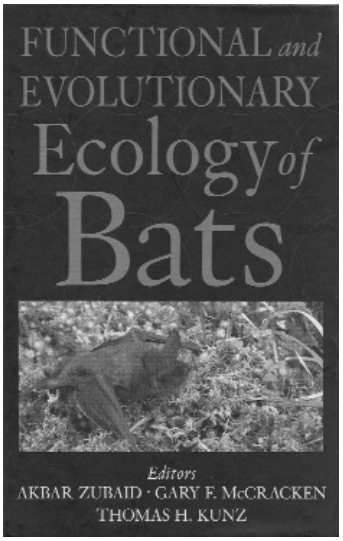

Functional and Evolutionary Ecology of Bats

Akbar Zubaid, Gary F. McCracken, and Thomas H. Kunz (eds.), 2006, Oxford University Press, New York, 342 p. ISBN 9-780195-154726, hardcover, 6¼ 9½ inches, $74.50.

Based primarily on papers presented at the 12th International Bat Research Conference (August 2001, Universiti Kebangsasn Malaysia, Kuala Lumpur), Functional and Evolutionary Ecology of Bats highlights many of the innovative methodologies in current use for the study of these elusive and secretive mammals. With 39 invited contributors, this text presents a wealth of detailed information about the interaction of bats and their environment. Chapters are well written and nicely illustrated with clear and relevant graphs, tables, or figures. Each chapter is well referenced.

The book is divided into three sections. Section I focuses on aspects of physiological ecology, emphasizing energetics and metabolism, thermoregulation, and hibernation. Section II presents various aspects of functional anatomy, notably tooth structure, wing form and function, aspects of quadrupedal locomotion, and evolution of skull morphology in relation to feeding behavior in fruit bats. Section III is a consideration of roosting ecology and population biology, including discussions of population genetics, life-history traits, social behavior, mating systems, and roosting ecology.

Throughout the book, species-specific aspects of anatomy, physiology, energetics, and behavior are considered in relation to the animal's environment and lifestyle. Adaptations are discussed with respect to potential benefits and costs. The usefulness of various models in the study of energy metabolism and temperature regulation is presented and put into perspective to habitat selection. The importance of micro- and macrohabitats—both cave and non-cave—is stressed.

In considering various aspects of cave environments in relation to roost suitability and energy metabolism of bats, this volume should have broad appeal to anyone interested in the intricacies of cave biology. It will be of particular interest to environmental physiologists, ecologists, behaviorists, mammalogists, evolutionary biologists, and lay readers with a back-