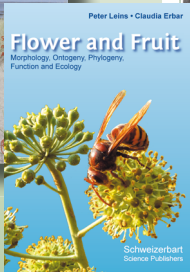
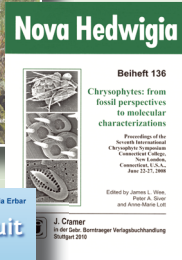
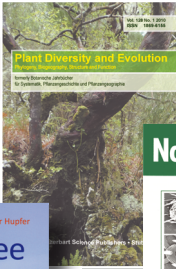


2010/2011

Neuerscheinungen und ausgewählte Publikationen New and selected titles



Schweizerbart



J. Cramer



Borntraeger



Senckenberg

Biowissenschaften – Biosciences

Contents/Inhalt

Books/Bücher

Flower and Fruit	3
Färberpflanzen	4
Die Ostsee	5
Schimmelpilze und deren Bestimmung	6
Marine Phytoplankton	7

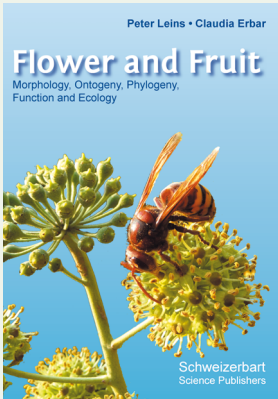
Series/Journals

Kleine Senckenberg Reihe.	8
Abh. d. Senckenberg Gesellsch. f. Naturf.	9
Plant Diversity	10
Bibliotheca Diatomologica	11
Bibliotheca Lichenologica	11
Algological Studies.	12
Limnologie aktuell	12
Nova Hedwigia Beihefte	13
Advances in Limnology	14
Beiträge zur Paläontologie	15
Verhandlungen IVL.	16
River Systems	16
Fundamental and Applied Limnology	17
Journals Overview/Zeitschriften Übersicht	18

Peter Leins, Claudia Erbar

Flower and Fruit

Morphology, Ontogeny, Phylogeny, Function and Ecology



“Flower and Fruit” describes the fascinating role that flowers and fruits play in the evolution of plants. It is an updated translation of the second edition of the successful standard textbook „Blüte und Frucht“ (2nd completely revised edition, 2008) by the same authors.

The origin of flowers and their important role in the life cycle of plants are described accompanied by an explanation of basic terms. The genetic approach to floral organ determination is introduced. On the basis of ontogeny, a morphological analysis of the manifold flower structures follows, laying the foundation for exploring further phylogenetic and diverse functional and ecological questions: the hermaphroditism problem, pollination optimization, pollen tube competition, adaptations to the pollinators, seed dispersal patterns, modes of diaspore dispersal and adaptations of plants and their diaspores to the dispersing agents. A very useful fruit classification is included in the book.

A comprehensive appendix containing more than 400 floral formulas serves as reference for placing the covered taxa in a classification of flowering plants.

This book addresses plant scientists, students, lecturers and teachers as well as readers interested in botany, plant reproduction, biodiversity and evolution.

2010. X, 440 pages, 258 figures, 3 tables, 17 x 24 cm.

ISBN 978-3-510-65261-7 hardcover € 69.–

Eberhard Prinz

Färberpflanzen

Anleitung zum Färben
Verwendung in Kultur und Medizin

- 117 Färberpflanzen, ganzseitig und in Farbe
- ausführliche Details zu Vorkommen, Historie, zur Verwendung als Färbemittel und in der Medizin
- Anleitungen für Pflanzenfärbungen auf Textilien oder Papier
- verloren gegangenes Wissen neu entdecken



Schon in der Frühzeit, in der Antike und im Mittelalter wurden Textilien und Leder mit Naturfarben aus Pflanzen gefärbt. Der Stand der Färber hatte hohes gesellschaftliches Ansehen. Durch das Aufkommen der synthetischen Farbstoffe im 20.

Jahrhundert ging das Wissen um die Färberpflanzen verloren, obwohl deren Nutzung sehr nachhaltig ist. Es ist das Verdienst von Eberhard Prinz, dieses verloren gegangene Wissen im 21. Jahrhundert wieder neu verfügbar zu machen.

In seinem Buch beschreibt er 117 Färberpflanzen, erklärt die Zusammensetzung der Farbstoffe, deren Vorkommen in den Pflanzen und erläutert die Färbeprozesse für verschiedene Textilien.

Biologen, Nutzpflanzenkundler, Pflanzenliebhaber, Museums- und Heilpädagogen werden die ganzseitigen, durchgehend farbigen Fotos für jede Färberpflanze ebenso zu schätzen wissen wie die detaillierten Beschreibungen ihres Vorkommens, ihrer Historie, ihrer Verwendung und Dosierung als Färbemittel und ihrer medizinischen Anwendungsgebiete auf der jeweils nebenstehenden Seite.

Das Buch vermittelt dem Leser die notwendigen Informationen, um selbst Pflanzenfärbungen auf Textilien oder Papier vorzunehmen, und ist daher eine Fundgrube für Künstler, Restauratoren, Textildesigner, Färber, Wollhändler und Pädagogen.

2009. 324 Seiten, 130 Farabbildungen und 22 Tabellen, 17 x 24 cm.

ISBN 978-3-510-65258-7 gebunden € 39.50

Peter Hupfer

Die Ostsee - kleines Meer mit großen Problemen

Eine allgemeinverständliche Einführung



OSTSEE. Schon das Wort fasziniert Millionen von Menschen in Deutschland und in all den Ländern, die das Meer säumen. Man denkt an Urlaub am Meer, an Fährpässagen und Kreuzfahrten, an unvergleichliche Küstenstädte und an die reizvoll abwechslungsreiche Natur aller Ostseeländer. Aber das kleine europäische Meer birgt in sich vielschichtige und ernste Umweltprobleme natürlichen und menschlichen Ursprungs, deren Besonderheiten für den Leser von Interesse sind.

Als die früheren Auflagen des Buches erschienen, war die Konvention zum Schutz der natürlichen Umwelt der Ostsee noch jung und koordinierte Maßnahmen zur Förderung der „Gesundheit“ des Meeres hatten gerade erst begonnen. In der vorliegenden Ausgabe werden eingetretene Fortschritte und neue Fragestellungen wie auch die internationalen Forschungsergebnisse zusammengestellt. Zu den bisherigen Problemen kommt nun noch die aktuelle Klimaänderung hinzu, durch die fast alle Vorgänge in diesem Meer betroffen werden und die im Buch genauer behandelt wird.

Ob es sich um Wetter und Klima, Sturmfluten, Seegang, Küstenschutz, Fischfang, Entwicklung der Ostsee, Bodden und Haffs oder die vielfältigen Prozesse innerhalb des reliefreichen Meeres, wie die enorm wichtigen Salzwassereinträge handelt, – auf nahezu alle interessierenden Fragen bekommt der Leser eine allgemeinverständliche Antwort und lernt damit die Ostsee erst richtig kennen.

2010. 5. vollständig neu bearbeitete Auflage. 262 Seiten, 125 Abbildungen, 42 Tabellen, 21 x 15 cm.

ISBN 978-3-443-01068-3 broschiert € 27,80

Liliane E. Petrini, Orlando Petrini

Schimmelpilze und deren Bestimmung

3. Auflage



Die 3. Auflage von „Schimmelpilze und deren Bestimmung“ wurde, basierend auf dem bewährten Grundkonzept, vollständig überarbeitet. Dabei wurde neue Literatur berücksichtigt, der Bestimmungsschlüssel optimiert, die Illustrationen ergänzt und die Nomenklatur auf den neuesten Stand gebracht.

Das Vorgehen bei der Bestimmung von Schimmelpilzen wird detailliert beschrieben, was den Einstieg in die Bestimmungspraxis erleichtert. Anhand vereinfachter Bestimmungsschlüssel können einzelne, häufig vorkommende Gattungen bestimmt werden. Auf weiterführende Literatur, mit Kommentaren zu ausgewählten Arten und unter Angabe spezieller Charakteristika, wird in der Gattungsliste hingewiesen. Zahlreiche Zeichnungen und Abbildungen erleichtern die Bestimmung.

Allgemeine Informationen über das „Reich der Pilze“ und zusammenfassende Anmerkungen über deren Ökologie, Mykotoxinbildung und die Problematik der Taxonomie runden den Inhalt ab. Die eigentliche Taxonomie wird – im Interesse der Anwendbarkeit – aufs Wesentliche beschränkt.

Dieses Buch wendet sich an Biologiestudenten, Labortechniker und Bausachverständige sowie interessierte Laien.

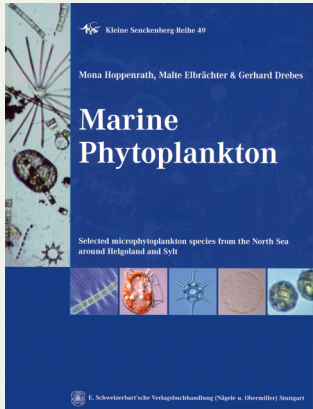
2010. 3. Auflage. X , 170 Seiten, 33 Abbildungen, 9 Tabellen, 23 x 14 cm.

ISBN 978-3-443-50035-1 broschiert € 39,80

**Mona Hoppenrath, Malte Elbrächter,
Gerhard Drebes**

Marine Phytoplankton

Selected microphytoplankton species from
the North Sea around Helgoland and Sylt



Marine phytoplankton forms the basis of the food web in the oceans. Phytoplankton, although small enough to be invisible to the naked eye, can under favourable conditions actually be seen from a space satellite, because it occurs in such huge quantities. According to NASA, phytoplankton produces between 50% and 90% of the oxygen in the air that we breathe, depending on the season.

Conversely, phytoplankton consumes most of the atmospheric CO₂, and so contributes greatly to maintaining a balanced ecosystem which is essential for all life and a healthy planet. More than 99% of all creatures inhabiting the oceans depend, either directly or indirectly, on phytoplankton for their survival.

This book provides a key to determine almost 300 phytoplankton species from the North Sea around Helgoland and Sylt, documenting them with close to 1100 images and 70 line drawings on 85 plates. This book is an important contribution to our understanding of marine phytoplankton of North Sea ecosystems.

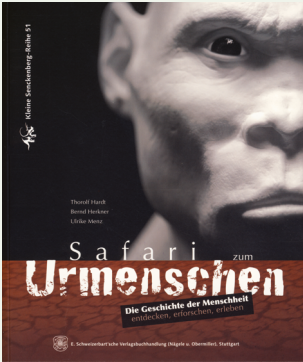
2009. 264 pages, 87 figures, 24 x 17 cm.
(Kleine Senckenberg-Reihe, Band 49)

ISBN 978-3-510-61392-2 paperback € 18.80

Thorolf Hardt, Bernd Herkner, Ulrike Menz

Safari zum Urmenschen

Die Geschichte der Menschheit
entdecken - erforschen - erleben



Woher kommt der Mensch?
Welche Stellung hat er in der Natur?
Und wie geht es weiter mit der Menschheit?

Die Safari beginnt in Afrika, wo Wissenschaftler des Senckenberg Forschungsinstitutes anhand von Fossilien die Ursprünge der Menschheit rekonstruieren. Der Leser erfährt anschaulich, wie man geeignete Fundorte ausfindig macht, wie man am besten vorgeht, um Reste von fossilen Menschen zu finden, wie diese ausgegraben, dokumentiert, geborgen und schließlich für den Transport verpackt werden. Weiter geht es dann mit der Auswertung der Daten, der Präparation und Datierung der Fossilien, die Daten werden dann mit modernsten Methoden im Senckenberg Forschungsinstitut ausgewertet.

Der zweite Teil des Buches beschreibt eine Zeitreise durch die Ahnengalerie des modernen Menschen – eine weltweit einzigartige Inszenierung von 27 lebensechten und mit individuellen Gesichtszügen versehenen Kopfmodellen. Die Ahnengalerie beginnt vor sieben Millionen Jahren mit dem *Sahelanthropus*, erstreckt sich über viele Stationen der Menschheitsgeschichte, um endlich bei uns, dem heutigen Menschen, *Homo sapiens*, zu enden.

Safari bedeutet auf Swahili „Reise“ – und auf eine ganz besondere Reise lädt Sie dieses Begleitbuch zur gleichnamigen Sonderausstellung „Safari zum Urmenschen“ ein.

2009. 144 Seiten, 146 farb. Abbildungen, 22.5 x 19 cm. (Kleine Senckenberg-Reihe, Band 51)

ISBN 978-3-510-61395-3 broschiert € 9,80

Andrej Ernst, Peter Königshof

Bryozoan fauna and microfacies from a Middle Devonian reef complex (Western Sahara, Morocco)

Devonian bryozoans from North Africa are poorly known. The present study is devoted to the investigation of bryozoan fauna and microfacies of the Middle Devonian reef complex in Western Sahara, Morocco. In total, 26 bryozoan species were identified. Two genera with two species are new: *Lenapora pulchra* n. g. n. sp. and *Dissotrypa sincera* n. g. n. sp. Furthermore, 15 new species were described: *Fistuliphragma parva* n. sp., *Sulcoretepora moderata* sp. n., *Leioclema crassiparietum* n. sp., *Eridotrypella minutiformis* n. sp., *E. modesta* n. sp., *Atactotoechus gaetulus* n. sp., *Acanthostictoporella angusta* n. sp., *Euspilopora spinigera* n. sp., *Acanthoclema triangularis* n. sp., *Rhombopora minutula* n. sp., *Prolixicella lata* n. sp., *Rhombocladia striata* n. sp., *Filites gaetulus* n. sp., *Anastomopora clara* n. sp., and *A. recta* n. sp. Four species are described in open nomenclature: *Spinofenestella* sp., *Hemitrypa* sp., *Ptylopora* sp., and *Semicscinium* sp. The studied fauna shows relations to the Middle Devonian of Holy Cross Mountains, Poland and Rhenish Massif, Germany, as well as to the Middle Devonian of North America.

2010. 91 pages, 6 figures, 1 table, 27 plates, 1 appendix, 30 x 21 cm.
(Abhandlungen der Senckenberg Gesellschaft für Naturforschung, Band 568)

ISBN 978-3-510-61397-7 paperback € 24.80



Heinz Hoffmann

The glass frog tadpoles of Costa Rica (Anura: Centrolenidae)

A study of morphology

Larvae of the neotropical frog family Centrolenidae live hidden on the bottom of rivers between stones, gravel, and leaf litter. Their lotic fossorial behavior makes it impossible to find and study these tadpoles in their natural habitat. Therefore, presently only poor reports and descriptions of them are available.

In the present study all known 13 Costa Rican centrolenid species (or taxa) were reared under laboratory conditions. Their live tadpoles are described in different stages of their development. Six of the 13 descriptions are new. A species key and detailed diagnostic descriptions with abundant illustrations allow the identification of tadpoles of the thirteen species.

2010. 78 pages, 142 figures, 14 tables, 30 x 21 cm.
(Abhandlungen der Senckenberg Gesellschaft für Naturforschung, 567)

ISBN 978-3-510-61396-0 paperback € 32.80



Plant Diversity and Evolution (formerly Bot. Jahrb. Syst.)

Plant Diversity and Evolution publishes original contributions to plant sciences from the fields of phytotaxonomy, systematics, morphology, anatomy and geobotany, ecology, synecology and their relationships to biogeography, plant distribution and dispersal. Emphasis is on vascular plants. The editors also encourage the submission of papers on ontogeny and its genetic aspects.

Progress in Apiales research – a multidisciplinary approach

Editors: Claudia Erbar, Peter Leins



In this volume, data are presented on the Apiales (now comprising the families Apiaceae, Araliaceae, Myodocarpaceae, Pittosporaceae and the rather small families Griselinaceae, Torricelliaceae and Pennantiaceae) resulting from investigations of various taxa by different molecular methods. Special attention is directed to the paraphyletic and polyphyletic genus *Polyscias* s.l. within the Araliaceae using nuclear ETS in addition to nuclear ITS and the plastid *trnL-trnF* for circumscribing the „pinnate genera“. In Australian *Trachymene*

species, molecular systematics can provide insights into aspects of the reproductive biology. *Eryngium* (Apiaceae-Saniculoideae) is a further example, in which the taxonomic complexity is unraveled by molecular data; the phylogenetic analysis of 11 non-coding cpDNA loci corroborates rapid radiations. Several molecular markers are an important basis for the phylogenetic classification of the Apiaceae-Apioideae, the core group of the Apiales.

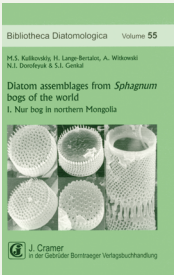
New results are presented from investigations of the inflorescence architecture and flowering sequence in Apiaceae-Apioideae which can be correlated with environmental factors. Floral developmental studies within Araliaceae as well as the taxonomic significance of pollen morphology in neotropical *Schefflera* are remarkable contributions in this issue. Very helpful for phylogenetic considerations not only within the whole order but also for its sister groups are the character states of the nectaries. Fruit structures, leaf anatomy, comparative bark anatomy, many other features being significant for taxonomy and information on the distribution of taxa in selected areas round off the knowledge on the Apiales.

2010. 326 pages, 393 figures, 26 tables, 24 x 16 cm.
(Plant Diversity and Evolution, Vol. 128 No. 1–2)

Order No. ES145012801 paperback € 249.–

2010. 326 pages, 197 figures, 24 tables, 24 x 16 cm.
(Plant Diversity and Evolution, Vol. 128 No. 3–4)

Order No. ES145012803 paperback € 209.–



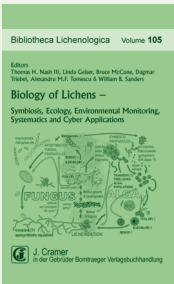
Diatom assemblages from Sphagnum bogs of the World

I. Nur bog in northern Mongolia

**Editors: Maxim S. Kulikovskiy,
Horst Lange-Bertalot, Andrzej
Witkowski, Nadwzdsda I.
Dorofeyuk, Sergei I. Genkal**

2010. 326 pages, 1 figure, 118 plates, 23 x 14 cm.
(Bibliotheca Diatomologica, Band 55)

ISBN 978-3-443-57046-0
paperback € 109.–



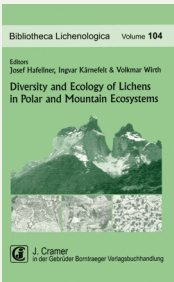
Biology of Lichens

Symbiosis, Ecology, Environmental
Monitoring, Systematics
and Cyber Applications

**Editors: Thomas H. Nash III,
Linda Geiser, Bruce Mc Cune,
Dagmar Triebel, Alexandru M.F.
Tomescu, William B. Sanders**

2010. VI, 256 pages, 81 figures, 19 tables, 23 x 14 cm.
(Bibliotheca Lichenologica, Band 105)

ISBN 978-3-443-58084-1
paperback € 79.–

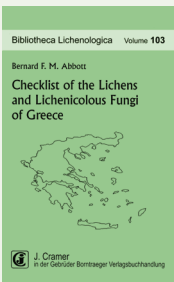


Diversity and Ecology of Lichens in Polar and Mountain Ecosystems

**Editors: Josef Hafellner, Ingvar
Kärnefelt, Volkmar Wirth**

2010. 389 pages, 71 figures, 8 tables, 23 x 14 cm.
(Bibliotheca Lichenologica, Band 104)

ISBN 978-3-443-58083-4
paperback € 104.–



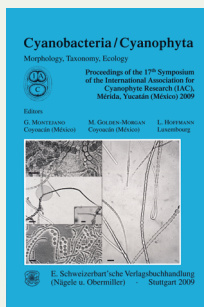
Bernard F.M. Abbott

Checklist of the Lichens and Lichenicolous Fungi of Greece

2009. 368 pages, 23 x 14 cm.
(Bibliotheca Lichenologica, Band 103)

ISBN 978-3-443-58082-7
paperback € 94.–

Algological Studies



Cyanobacteria / Cyanophyta – Morphology, Taxonomy, Ecology

Proceedings of the 17th Symposium of the International Association for Cyanophyte Research (IAC), Mérida, Yucatan (Mexico) 2009

Editors: G. Montejano, M. Golden-Morgan, L. Hoffmann

2009. 135 pages, 46 figures, 10 tables, 1 plate, 25 x 16 cm.
(Algological Studies, Volume 130)

Order No. ES221013000
paperback € 109.–

In honour of Dieter Mollenhauer on the occasion of his 70th anniversary



2009. 96 pages, 28 figures, 7 tables, 25 x 16 cm.
(Algological Studies, Volume 129)

Order No. ES221012900
paperback € 87.–

Limnologie aktuell

Renaturierung von Fließgewässern, EG-Wasserrahmenrichtlinie



Grundlagen und Effizienzprüfung aus

limnologischer Sicht

Herausgeber: Sonja Jähmig,
Daniel Hering, Mario
Sommerhäuser

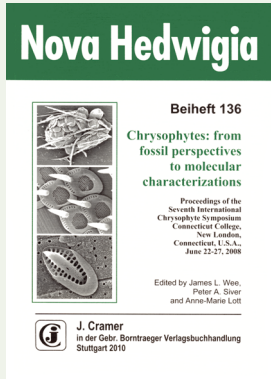
2011. ca. 300 Seiten, 24 x 17 cm.
(Limnologie aktuell, Band 13)

ISBN 978-3-510-65267-9

Chrysophytes: from fossil perspectives to molecular characterizations

Proceedings of the Seventh International Chrysophyte Symposium, Connecticut College, New London, Connecticut, USA, June 22 -27, 2008

Editors: James L. Wee, Peter A. Siver, Anne-Marie Lott



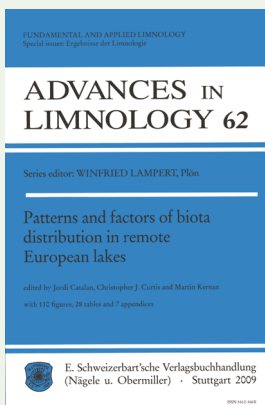
The present volume contains 21 papers presented at the Seventh International Chrysophyte Symposium 2008 spanning a broad range of topics on chrysophytes and related heterokont organisms. The contributions are on ecology, taxonomy, floristic works, phylogeny and evolution, molecular biology, physiology and paleolimnology. Of special interest are a group of papers that use geometric morphometric analyses to address taxonomic, biogeographic and phylogenetic questions related to chrysophytes and other microalgae. Ecological and floristic contributions include ones on lakes from the polar Ural Mountains, the Mesopotamia region of Argentina, the Pine Barrens of southern New Jersey, and the Swiss Alps. Gene sequences are used to study hidden diversity in *Synura* and differences between two geographically distinct *Heterosigma* isolates, and production of polyunsaturated aldehydes is examined in *Thalassiosira*. Other contributions cover mixotrophy, biofilm dynamics, the recent invasion of *Mallomonas pseudocoronata* into lakes in Sweden, use of cysts in climate change research, paleolimnology of eastern North American lakes, an evaluation of the age of the Hueyatenco early man site in Mexico, a comparison of the architecture of *Mallomonas* scale coverings between modern and 40 Ma specimens and bloom dynamics. Papers outlining the establishment of a Wiki for chrysophyte cysts, an online database for Eocene chrysophyte fossils, and ideas for preserving specimens in museums round out the volume.

2010. 331 pages, 128 figures, 46 tables, 3 plates, 24 x 17 cm.
(Beihefte zur Nova Hedwigia, Volume 136)

ISBN 978-3-443-51058-9 paperback € 139.–

Patterns and factors of biota distribution in remote European lakes

Editors: Jordi Catalan, Christopher J. Curtis, Martin Kernan



Remote mountain lakes are defined as those situated above the tree-line. There are over 50,000 of them across Europe, occurring from the high arctic to the south of Spain. These lakes have high ecological and environmental value and as the focal points of mountain landscapes, they support unique plant and animal communities. As headwater catchments for European water supplies they are excellent sensors of environmental change for entire mountain environments. However, although they are generally perceived to be in pristine condition, they are threatened by acid deposition (S and N), by the deposition of persistent organic pollutants (POPs) and by trace metals, and they are very sensitive to greenhouse gas-forced climate change.

The central objective of the EU project, EMERGE (European Mountain lake Ecosystems: regionalisation, diagnostic & socio-economic evaluation) was to comprehensively evaluate the status of remote mountain lake ecosystems across Europe. At its core, EMERGE oversaw a biological survey carried out on more than 350 lakes covering most European ranges from Finland to Spain, and from Scotland to Slovakia. The survey used common sampling protocols and a large number of biological groups and environmental variables were measured, including water column, littoral and sediment habitats. This special issue presents studies which examine the planktonic environment, the littoral and benthic zones, the indicative value of lake sediments for assessments of ecological status and several integrated regional assessments.

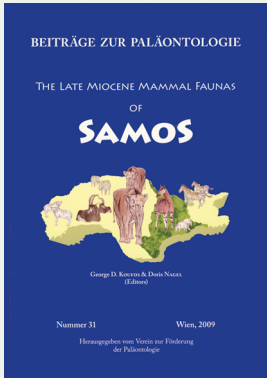
This special issue is of interest to all those engaged in environmental research in mountain regions, aquatic ecologists everywhere and policy makers and those tasked with implementing freshwater management strategies.

2009. 440 pages, 110 figures, 77 tables, 7 appendices, 25 x 16 cm.
(Advances in Limnology, Volume 62)

ISBN 978-3-510-47064-8 paperback € 96.-

The Late Miocene Mammal Faunas of Samos

Editors: George D. Koufos, Doris Nagel



The island of Samos (Aegean Sea, Greece) houses a rich fauna of late Miocene fossiliferous mammals, which was discovered at the end of the 19th century. Since that time, a large amount of fossil material, now housed at various museums and institutions, was collected by numerous researchers.

In 1993 a new concerted study of the Samos mammals was undertaken by a team of researchers of the University of Thessaloniki.

The papers in this volume present an overview of both the fossil inventory collected before 1993 and the new finds made since that time. An introductory paper attempts to place the Samos fossiliferous sites in their proper lithostratigraphic context. Subsequently papers focus on the palynological features and the microfloristic assemblages they represent, which span an age interval from the middle Miocene to Pliocene. Different mammal groups are covered in detail in the following 13 contributions. These mammal groups include micromammals, carnivores, tubulidentata, Hyracoidea, proboscids, rhinocerotids (rhinos), chalicotheriids, equids (horses), suidae (pigs), giraffids and bovids. A chapter discusses carnivore guild structure, and its paleoecological importance. Another chapter is devoted to clarifying the biochronological position of the newly collected samples by comparing the new findings with previously collected specimens, aided by newly acquired magnetostratigraphic data.

A synthetic review evaluates the available data in order to assess the paleoecology and paleobiography of the mammal assemblages of these faunas.

2009. 438 pages, 4 plates, numerous figures, 30 x 21 cm.
(Beiträge zur Paläontologie, Band 31)

Order No. ES179003100

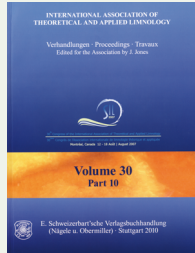
paperback

€ 169.–

30th Congress of the International Association of Theoretical and Applied Limnology, Montreal, Canada 12–18 August, 2007

Proceedings Part 1–10

**Editors: Jack Jones,
Janice Faaborg**

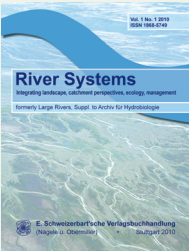


2010. 163 pages, 28 x 21 cm. (Verhandlungen IVL, Volume 30 Part 9)

ISBN 978-3-510-54080-8
paperback € 64.–

2010. IV , 209 pages, numerous figures (8 coloured), 28 x 21 cm.
(Verhandlungen IVL, Volume 30 Part 10)

ISBN 978-3-510-54081-5
paperback € 64.–



River Systems

**Integrating landscapes,
catchment perspectives,
ecology, management**

River Systems is an international journal that integrates landscape, catchment and human perspectives into a holistic view of river systems. It is dedicated to promoting innovative basic research results and their application in management and conservation. Interdisciplinary research on rivers from the catchment and landscape perspectives is particularly welcome. “River Systems” thus bridges the gap between inter- and transdisciplinary research and highlights management applications and science implementation at multiple temporal and spatial scales. An innovation of “River Systems” will be the inclusion of relevant science education cooperations.

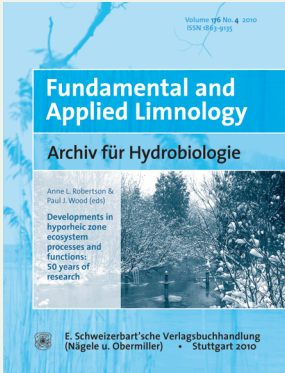
The language of the journal is English. “River Systems” is a relaunch of the “Large Rivers, Supplement to Archiv für Hydrobiologie”.

2010. 94 pages, 33 figures, 27 tables, 28 x 21 cm.
(River Systems, Volume 19, Issue 1)

Order No. ES342001901 paperback € 85.–

Developments in hyporheic zone ecosystem processes and functions: 50 years of research

Editors: Anne L. Robertson, Paul J. Wood



Just over 50 years ago, the seminal paper on the Ecology of the Hyporheic zone by Traian Orghidan was published in *Archiv für Hydrobiologie*, initially defining and describing the hyporheic zone.

This special issue of *Fundamental and Applied Limnology* recognizes the impact of this paper and the research it sparked with a collection of papers by leading scientists in the field, highlighting a number of observations and hyporheic zone processes and functions first articulated by Orghidan. The papers offer novel insights into the dynamics and the functioning within the hyporheic zone based on newly available data and facilitated by technological advances and interdisciplinary knowledge exchange. The papers present research developments that begin to acknowledge the importance of the hyporheic zone for studying lotic ecosystems and also wider ecosystem functioning.

The nine papers start out with an English translation of the original paper by Orghidan where the foundations for contemporary ecological research on the hyporheic zone can be found. An overview of historic developments, current status and future directions of Hyporheic Zone ecological research is provided with a particular focus on spatial and temporal heterogeneity and its function as a refugium from surface disturbance. The papers in this volume consider the various different aspects of Hyporheic Zone functioning first formulated by Orghidan (1959).

The volume addresses academic researchers and practitioners working in river and catchment management, water resources management and conservation agencies who are now increasingly recognising the ecosystem goods and services that the hyporheic zone provides to the whole stream system.

2010. VI, 128 pp., 57 figures, 18 tables, 28 x 21 cm
(*Fundamental and Applied Limnology*, Volume 176 Nr. 4)

Order No. ES141017604

paperback

€ 99.–

Journals/Zeitschriften

Overview/Übersicht

Diatom Research
Entomologia Generalis
Fundamental and Applied Limnology
Nova Hedwigia
Phytocoenologia
Plant Diversity and Evolution
(formerly Bot. Jahrb. Syst.)

Series/Reihen

Overview/Übersicht

Advances in Limnology
Algological Studies
Archiv für Molluskenkunde
Bibliotheca Botanica
Colloques Phytosociologiques
Cytotaxonomical Atlases
Ecoandes – Studies on Tropical Andean Ecosystems
Encyclopedia of Plant Anatomy / -
Handbuch der Pflanzenanatomie
Die Fliegen der paläarktischen Region
Flies of the Nearctic Region
Flora et Vegetatio Mundi
Flora Mycologica Iberica
Fungarum Rariorum Icones Coloratae
Index Hepaticarum
International Assoc. of Theoretical and
Applied Limnology/Proceedings
River Systems
Winter's Naturwissenschaftliche Taschenbücher
Zoologica

For more exhaustive information on our scientific journals, series and monographs (reviews, tables of contents, links to our online journals etc.) please visit us at:

www.schweizerbart.de

Hier finden Sie viele weitere Informationen über unsere Zeitschriften, Reihen und Monographien (Besprechungen, Inhaltsverzeichnisse, Links zu unseren Online-Journalen etc.)

The screenshot shows the homepage of E. Schweizerbart Science Publishers. The browser address bar displays 'http://www.schweizerbart.de/'. The page layout includes a top navigation bar with 'Home', 'Publications', and 'Journals & Series'. A main heading reads 'Welcome to Schweizerbart and Borntraeger science publishers'. Below this, there is a 'Featured releases' section with several book covers, a 'Catalogue' section, and a 'Contact us' section. The footer contains the publisher's name and address: 'E. Schweizerbart'sche Verlagsbuchhandlung (Nägele u. Obermiller) Gebrüder Borntraeger Verlagsbuchhandlung Johannesstr. 3 A 70176 Stuttgart / Germany'.

E. Schweizerbart'sche Verlagsbuchhandlung
(Nägele u. Obermiller)

Gebrüder Borntraeger Verlagsbuchhandlung

Johannesstr. 3 A

70176 Stuttgart / Germany

Tel.: +49 (0)711 351 456 - 0

Fax: +49 (0)711 351 456 - 99

www.schweizerbart.de mail@schweizerbart.de

Distribution of publications from:

- Senckenberg Forschungsinstitut und Naturmuseum
- BGR (Bundesanstalt für Geowissenschaften und Rohstoffe, Hannover) und LBEG (Landesamt für Bergbau, Energie und Geologie) [BGR (Federal Institute for Geosciences and Natural Resources) and LBEG (Geological Survey of Lower-Saxony)]

Bestellschein • Order Form

Hiermit bestelle ich / I order
durch / via

___ Ex. _____
___ Ex. _____
___ Ex. _____
___ Ex. _____
___ Ex. _____
___ Ex. _____
___ Ex. _____
___ Ex. _____

___ Bitte informieren Sie mich über Publikationen
aus dem Gebiet _____

___ Please send me information on publications
from the fields _____

Name:

Adresse / Address:

Datum / Date

Unterschrift / Signature

To our customers in the USA and Canada: We invoice in US\$.

US\$-cheques are accepted. Airmail delivery at an extra charge.
Our books are available in the US through Balogh International,
1911 N. Duncan Rd., Champaign, IL 61822, USA. Phone (217)
355 9331, Fax (217) 335 9413. balogh@balogh.com

Verbraucher i.S.d. BGB können Ihre Bestellung innerhalb von 14 Tagen nach Erhalt
der Ware widerrufen (D); Preise können ohne Vorankündigung geändert werden /
Prices subject to change without notice

09.10/4.000