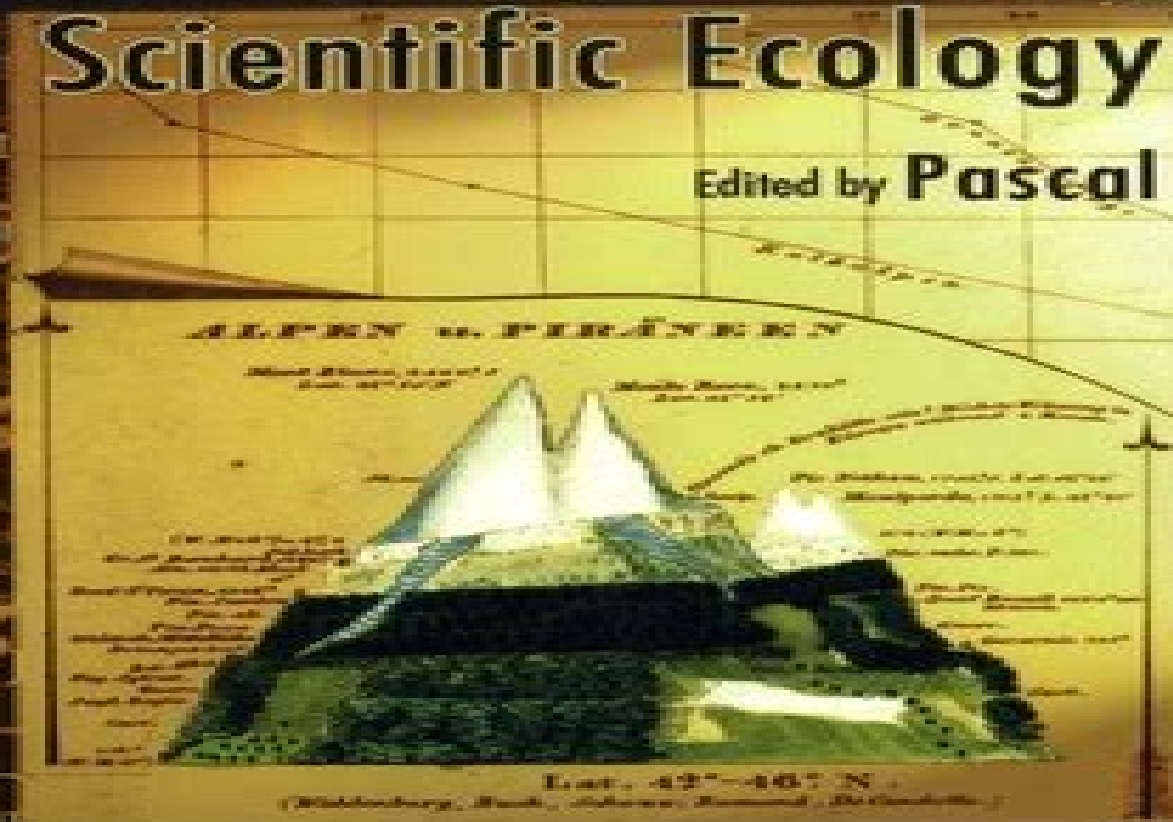


The European Origins of Scientific Ecology

Volume 1

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The European Origins Of Scientific Ecology

Karin Nielsen-Saines



The European Origins Of Scientific Ecology:

The European Origins of Scientific Ecology (1800-1901) Pascal Acot, Patrick Blandin, 2021-01-07 Over the last few decades historians of scientific ecology have brought to light the role of the European scientists who have laid the basic cornerstones of modern ecology between the end of the eighteenth century and the beginning of the twentieth century The foundations of geobotany were laid by Alexander von Humboldt 1769 1859 Augustin Pyramus de Candolle 1778 1841 Alphonse Jules Dureau de la Malle 1777 1857 Gaston Bonnier 1853 1922 and Charles Flahault 1852 1935 biocenotics by Erasmus Darwin 1731 1802 Charles Lyell 1797 1875 Pierre Fran ois Verhulst 1804 1849 Charles Darwin 1809 1882 Karl Moebius 1825 1908 Charles Valentine Riley 1843 1895 and Fran ois Alphonse Forel 1841 1912 agrochemistry and microbiology by Justus von Liebig 1803 1873 Jean Baptiste Boussingault 1802 1887 and Stanislas Winogradski 1856 1953 the taxonomy of communities by August Heinrich Grisebach 1813 1879 Anton Kerner von Marila n 1831 1898 Alphonse de Candolle 1806 1893 and Charles Flahault and anthropogeography by Karl Ritter 1779 1859 Elis e Reclus 1830 1905 and Friederich Ratzel 1844 1904 Together they created the conditions that with Eugenius Warming 1841 1924 gave birth to the autonomous discipline of scientific ecology thirty years after the German biologist Ernst Haeckel 1834 1919 had christened this new branch of biology Up to now the writings of these scientists have been scattered in various publications that were often not accessible which made a comparative study almost impossible There was thus a need to bring together the primary sources in their original form pagination and language whenever possible a version of the text has been made available in a second language as well They are gathered here in two volumes in an analytical framework that aids in understanding their relevant historical context and significance To deal with the complex multidisciplinary roots of the history of ecology Pascal Acot has brought together a group of historians with authoritative knowledge of the field s various sub branches without ever losing sight of ecology s relationship to the broader history of biology and the environmental sciences

The European Origins of Scientific Ecology (1800-1901) Pascal Acot, 1998 Over the last few decades historians of scientific ecology have brought to light the role of the European scientists who have laid the basic cornerstones of modern ecology between the end of the eighteenth century and the beginning of the twentieth century The foundations of geobotany were laid by Alexander von Humboldt 1769 1859 Augustin Pyramus de Candolle 1778 1841 Alphonse Jules Dureau de la Malle 1777 1857 Gaston Bonnier 1853 1922 and Charles Flahault 1852 1935 biocenotics by Erasmus Darwin 1731 1802 Charles Lyell 1797 1875 Pierre Fran ois Verhulst 1804 1849 Charles Darwin 1809 1882 Karl Moebius 1825 1908 Charles Valentine Riley 1843 1895 and Fran ois Alphonse Forel 1841 1912 agrochemistry and microbiology by Justus von Liebig 1803 1873 Jean Baptiste Boussingault 1802 1887 and Stanislas Winogradski 1856 1953 the taxonomy of communities by August Heinrich Grisebach 1813 1879 Anton Kerner von Marila n 1831 1898 Alphonse de Candolle 1806 1893 and Charles Flahault and anthropogeography by Karl Ritter 1779 1859 Elis e Reclus 1830 1905 and Friederich Ratzel 1844 1904 Together they

created the conditions that with Eugenius Warming 1841 1924 gave birth to the autonomous discipline of scientific ecology thirty years after the German biologist Ernst Haeckel 1834 1919 had christened this new branch of biology Up to now the writings of these scientists have been scattered in various publications that were often not accessible which made a comparative study almost impossible There was thus a need to bring together the primary sources in their original form pagination and language whenever possible a version of the text has been made available in a second language as well They are gathered here in two volumes in an analytical framework that aids in understanding their relevant historical context and significance To deal with the complex multidisciplinary roots of the history of ecology Pascal Acot has brought together a group of historians with authoritative knowledge of the field s various sub branches without ever losing sight of ecology s relationship to the broader history of biology and the environmental sciences

The European Origins of Scientific Ecology, 1998 Origins of Biogeography Malte Christian Ebach, 2015-07-03 This book presents a revised history of early biogeography and investigates the split in taxonomic practice between the classification of taxa and the classification of vegetation It moves beyond the traditional belief that biogeography is born from a synthesis of Darwin and Wallace and focuses on the important pioneering work of earlier practitioners such as Zimmermann Stromeyer de Candolle and Humboldt Tracing the academic history of biogeography over the decades and centuries this book recounts the early schisms in phyto and zoogeography the shedding of its bonds to taxonomy its adoption of an ecological framework and its beginnings at the dawn of the 20th century This book assesses the contributions of key figures such as Zimmermann Humboldt and Wallace and reminds us of the forgotten influence of plant and animal geographers including Stromeyer Prichard and de Candolle whose early attempts at classifying animal and plant geography would inform later progress p The Origins of Biogeography is a science historiography aimed at biogeographers who have little access to a detailed history of the practices of early plant and animal geographers This book will also reveal how biological classification has shaped 18th and 19th century plant and animal geography and why it is relevant to the 21st bio geographer

The Oxford Companion to the History of Modern Science John L. Heilbron, 2003-02-14 Containing 609 encyclopedic articles written by more than 200 prominent scholars The Oxford Companion to the History of Modern Science presents an unparalleled history of the field invaluable to anyone with an interest in the technology ideas discoveries and learned institutions that have shaped our world over the past five centuries Focusing on the period from the Renaissance to the early twenty first century the articles cover all disciplines Biology Alchemy Behaviorism historical periods the Scientific Revolution World War II the Cold War concepts Hypothesis Space and Time Ether and methodologies and philosophies Observation and Experiment Darwinism Coverage is international tracing the spread of science from its traditional centers and explaining how the prevailing knowledge of non Western societies has modified or contributed to the dominant global science as it is currently understood Revealing the interplay between science and the wider culture the Companion includes entries on topics such as minority groups art religion and

science's practical applications One hundred biographies of the most iconic historic figures chosen for their contributions to science and the interest of their lives are also included Above all The Oxford Companion to the History of Modern Science is a companion to world history modern in coverage generous in breadth and cosmopolitan in scope The volume's utility is enhanced by a thematic outline of the entire contents a thorough system of cross referencing and a detailed index that enables the reader to follow a specific line of inquiry along various threads from multiple starting points Each essay has numerous suggestions for further reading all of which favor literature that is accessible to the general reader and a bibliographical essay provides a general overview of the scholarship in the field Lastly as a contribution to the visual appeal of the Companion over 100 black and white illustrations and an eight page color section capture the eye and spark the imagination

The Cambridge History of Science: Volume 6, The Modern Biological and Earth Sciences David C. Lindberg, Peter J. Bowler, Ronald L. Numbers, Roy Porter, 2003 This book in the highly respected Cambridge History of Science series is devoted to the history of the life and earth sciences since 1800 It provides comprehensive and authoritative surveys of historical thinking on major developments in these areas of science on the social and cultural milieus in which the knowledge was generated and on the wider impact of the major theoretical and practical innovations The articles are written by acknowledged experts who provide concise accounts of the latest historical thinking coupled with guides to the most important recent literature In addition to histories of traditional sciences the book covers the emergence of newer disciplines such as genetics biochemistry and geophysics The interaction of scientific techniques with their practical applications in areas such as medicine is a major focus of the book as is its coverage of controversial areas such as science and religion and environmentalism

[A History of Biology](#) Michel Morange, 2023-08-15 This book presents a complete global history of the biological sciences from ancient times to today introducing a long term perspective to the history of biological thought while showing its fractures and upheavals through the ages The history of biology often neglects certain areas such as ecology ethology the study of non human animal behavior and plant biology areas which are covered in this work The broad global perspective offered here will allow the reader to better appreciate the nature of the interdisciplinary exchanges that have shaped the biological sciences perhaps more than any other discipline Much attention is also given to the contribution of technology the role of experimentation and more generally the social and technological environment within which scientific transformations develop

Concepts and Values in Biodiversity Dirk Lanzerath, Minou Friele, 2014-01-23 Biodiversity may refer to the diversity of genes species or ecosystems in general These varying concepts of biodiversity occasionally lead to conflicts among researchers and policy makers as each of them require a customized type of protection strategy This book addresses the questions surrounding the merits of conserving an existing situation evolutionary development or the intentional substitution of one genome species or ecosystem for another Any practical steps towards the protection of biodiversity demand a definition of that which is to be protected and in turn the motivations for protecting biodiversity Is

biodiversity a necessary model which is also useful or does it carry intrinsic value Debates like this are particularly complex when interested parties address it from different conceptual and moral perspectives Comprised of three parts each complemented by a short introductory paragraph this collection presents a variety of approaches to this challenge The chapters cover the perspectives of environmental scientists with expertise in evolutionary environmental biology systematic zoology and botany as well as those of researchers with expertise in philosophy ethics politics law and economics This combination facilitates a truly interdisciplinary debate by highlighting hitherto unacknowledged implications that inform current academic and political debates on biodiversity and its protection The book should be of interest to students and researchers of environment studies biodiversity environmental philosophy ethics and management The Zoological Record, 2002

Stations in the Field Raf De Bont, 2015-03-20 Modern zoological research aims to study the animal in its own dwelling place Otto Zacharias a German plankton specialist and former science journalist made this claim in 1905 More than hundred years later it might sound surprising When we think of sites of animal research that symbolize modernity the first places that come to mind are notto use Zacharias s examplethe parts of inland lakes favored by freshwater plankton The period around 1900 after all witnessed the rise of grand urban research institutes that housed industrial type laboratories filled with mercury pumps new fangled microscopes galvanometers electric centrifuges gas motors and spectrometers Yet Zacharias belonged to a group of zoologists who were establishing a novel way of studying nature in the field They developed what ecologists today describe as place based research It focuses on complex systems of interacting organisms usually through studies over long periods of time in a natural field context This was a modern approach and as such it needed modern infrastructure the field station Beginning in the 1870s a growing number of biological field stations were foundedfirst in Europe and later elsewhere around the world Thousands of zoologists received their training and performed their research at these sites By revealing the intricate activities that enabled them to perform science in the animal s dwelling place Raf de Bont is the first to give this history of how life scientists were brought closer to living nature *The Story of N* Hugh S. Gorman, 2013-01-24 In *The Story of N* Hugh S Gorman analyzes the notion of sustainability from a fresh perspective the integration of human activities with the biogeochemical cycling of nitrogen and provides a supportive alternative to studying sustainability through the lens of climate change and the cycling of carbon It is the first book to examine the social processes by which industrial societies learned to bypass a fundamental ecological limit and later began addressing the resulting concerns by establishing limits of their own The book is organized into three parts Part I *The Knowledge of Nature* explores the emergence of the nitrogen cycle before humans arrived on the scene and the changes that occurred as stationary agricultural societies took root Part II *Learning to Bypass an Ecological Limit* examines the role of science and market capitalism in accelerating the pace of innovation eventually allowing humans to bypass the activity of nitrogen fixing bacteria Part III *Learning to Establish Human Defined Limits* covers the twentieth century response to the

nitrogen related concerns that emerged as more nitrogenous compounds flowed into the environment A concluding chapter The Challenge of Sustainability places the entire story in the context of constructing an ecological economy in which innovations that contribute to sustainable practices are rewarded

Ecology and Justice—Citizenship in Biotic Communities David R. Keller, 2019-03-30 This is the first book to outline a basic philosophy of ecology using the standard categories of academic philosophy metaphysics axiology epistemology aesthetics ethics and political philosophy The problems of global justice invariably involve ecological factors Yet the science of ecology is itself imbued with philosophical questions Therefore studies in ecological justice the sub discipline of global justice that relates to the interaction of human and natural systems should be preceded by the study of the philosophy of ecology This book enables the reader to access a philosophy of ecology and shows how this philosophy is inherently normative and provides tools for securing ecological justice The moral philosophy of ecology directly addresses the root cause of ecological and environmental injustice the violation of fundamental human rights caused by the inequitable distribution of the benefits economies and costs diseconomies of industrialism Philosophy of ecology thus has implications for human rights pollution poverty unequal access to resources sustainability consumerism land use biodiversity industrialization energy policy and other issues of social and global justice This book offers an historical and interdisciplinary exegesis The analysis is situated in the context of the Western intellectual tradition and includes great thinkers in the history of ecological thinking in the West from the natural sciences social sciences and humanities Keller asks the big questions and surveys answers with remarkable detail Here is an insightful analysis of contemporary classical and ancient thought alike in the ecological sciences the humanities and economics the roots and fruits of our concepts of nature and of being in the world Keller is unexcelled in bridging the is ought gap bridging nature and culture and in celebrating the richness of life its pattern process and creativity on our wonderland Earth Holmes Rolston III University Distinguished Professor Colorado State University Author of A New Environmental Ethics The Next Millennium for Life on Earth 2012 Mentored by renowned ecologist Frank Golley and renowned philosopher Frederick Ferré David Keller is well prepared to provide a deep history and a sweeping synthesis of the idea of ecology including the metaphysical epistemological and ethical aspects of that idea as well as the scientific J Baird Callicott University Distinguished Research Professor University of North Texas Author of Thinking Like a Planet The Land Ethic and the Earth Ethic 2013

Landscape Interfaces Hannes Palang, G. Fry, 2013-06-29 This book has been initiated by the workshop on Cultural heritage in changing landscapes held during the IALE International Association for Landscape Ecology European Conference that started in Stockholm Sweden in June 2001 and continued across the Baltic to Tartu Estonia in July The papers presented at the workshop have been supported by invited contributions that address a wider range of the cultural heritage management issues and research interfaces required to study cultural landscapes The book focuses on landscape interfaces Both the ones we find out there in the landscape and the ones we face while doing research

We hope that this book helps if not to make use of these interfaces then at least to map them and bridge some of the gaps between them The editors wish to thank those people helping us to assemble this collection First of all our gratitude goes to the authors who contributed to the book We would like to thank Marc Antrop Mats Widgren Roland Gustavsson Marion Potschin Barbel Tress Tiina Peil Helen Soovali and Anu Printsmann for their quick and helpful advice opinions and comments during the different stages of editing Helen Soovali and Anu Printsmann together with Piret Pungas thank you for technical help

Origin, Conservation, and Restoration of the Threatened European Grassland Ecosystem in the Anthropocene Grégory Mahy,Thierry Dutoit,Kathrin Kiehl,Armin Bischoff ,Péter Török,2024-11-07 Natural and Semi Natural Grassland Ecosystems NSG represent high value biodiversity hotspots for biodiversity of the European continent as well as an invaluable cultural heritage forged through millennia of human nature interactions While pristine natural European grasslands result mainly from constrained specific climatic and soil conditions semi natural grasslands largely result from the activities of humans and their livestock e g grazing mowing burning during millennia of low intensity land use European NSG their biodiversity and the cultural heritage they represent are highly threatened since the beginning of the 20th century in a context of multifactorial global change including environmental dimensions climate change habitat fragmentation pollution biological invasions and land use changes with the accelerating of socio economic evolution of agricultural practices intensification or abandonment and urbanization

The Blackwell Companion to the Bible and Culture John F. A. Sawyer,2012-06-04 The Blackwell Companion to the Bible and Culture provides readers with a concise readable and scholarly introduction to twenty first century approaches to the Bible Consists of 30 articles written by distinguished specialists from around the world Draws on interdisciplinary and international examples to explore how the Bible has impacted on all the major social contexts where it has been influential ancient medieval and modern world wide Gives examples of how the Bible has influenced literature art music history religious studies politics ecology and sociology Each article is accompanied by a comprehensive bibliography Offers guidance on how to read the Bible and its many interpretations

Economies of Recycling Catherine Alexander,Joshua Reno,2012-08-09 For some recycling is a big business for others a moralised way of engaging with the world But for many this is a dangerous way of earning a living With scrap now being the largest export category from the US to China the sheer scale of this global trade has not yet been clearly identified or analysed Combining fine grained ethnographic analysis with overviews of international material flows Economies of Recycling radically changes the way we understand global and local economies as well as the new social relations and identities created by recycling processes Following global material chains this groundbreaking book reveals astonishing connections between persons households cities and global regions as objects are reworked taken to pieces and traded With case studies from Africa Latin America South Asia China the former Soviet Union North America and Europe this timely collection debunks common linear understandings of production exchange and consumption and argues for a complete

re evaluation of North South economic relationships **Green History** Derek Wall,2003-09-02 Charting the origins of the modern ecology movement over more than two thousand years this volume gives a voice to those hidden from history revealing green themes within artistic and scientific thought **Exploring Environmental History** T. C Smout,2011-08-16 This volume brings together the best of T C Smout s recent articles and contributions to books and journals on the topic of environmental history **Political Economy, Race, and the Image of Nature in the United States, 1825-1878** Evan Robert Neely,2024-05-01 Political Economy Race and the Image of Nature in the United States 1825 1878 is an interdisciplinary work analyzing the historical origins of a dominant concept of Nature in the culture of the United States during the period of its expansion across the continent Chapters analyze the ways in which Nature became a discursive site where theories of race and belonging adaptation and environment and the uses of literary and pictorial representation were being renegotiated forming the basis for an ideal of the human and the nonhuman world that is still with us Through an interdisciplinary approach involving the fields of visual culture political economy histories of racial identity and ecocritical studies the book examines the work of seminal figures in a variety of literary and artistic disciplines and puts the visual culture of the United States at the center of intellectual trends that have enormous implications for contemporary cultural practice The book will be of interest to scholars working in art history visual culture American studies environmental studies ecocriticism critical race theory and semiotics **Managing the Unknown** Frank Uekötter,Uwe Lübken,2014-03-01 Information is crucial when it comes to the management of resources But what if knowledge is incomplete or biased or otherwise deficient How did people define patterns of proper use in the absence of cognitive certainty Discussing this challenge for a diverse set of resources from fish to rubber these essays show that deficient knowledge is a far more pervasive challenge in resource history than conventional readings suggest Furthermore environmental ignorance does not inevitably shrink with the march of scientific progress these essays suggest more of a dialectical relationship between knowledge and ignorance that has different shapes and trajectories With its combination of empirical case studies and theoretical reflection the essays make a significant contribution to the interdisciplinary debate on the production and resilience of ignorance At the same time this volume combines insights from different continents as well as the seas in between and thus sketches outlines of an emerging global resource history

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