



Blue Green Algae

Charles Krebs



Blue Green Algae:

The Biology of Blue-green Algae N. G. Carr, Brian A. Whitton, 1973 Flora of the Bluegreen Algae of the Netherlands Anton M.T. Joosten, 2017-02-13 The Netherlands are a small country characterized by a large diversity of fresh to slightly brackish oligo to hypereutrophic stagnant and flowing inland waters This diversity is reflected in a remarkable richness of phytoplankton species with blue green algae as an important component Identification of phytoplankton frequently brings on serious problems due to the scarcity of up to date floras This book written by an acknowledged Dutch phytoplankton expert presents a new modern approach to the identification of phytoplankton of The Netherlands treats 95 species belonging to 23 genera of non filamentous blue green algae in the plankton of Dutch inland waters including one new genus and 15 new species nomenclature according to modern insights and in agreement with international rules 500 original black and white photographs show all the details necessary for light microscopical identification contains an identification key to the species and comparing every species to similar forms information on ecology and occurrence in different water types relevant literature references **Blue-green Algae for Rice Production** G. S. Venkataraman, 1981-01-01 Distribution and succession of blue green algae in rice fields Algal nitrogen fixation in rice soils Methods for the assay of nitrogen fixation Algal application and soil properties Pesticides and blue green algae Crop alga association Establishment of blue green algae in rice soils Algal application and rice yield Production of algae for field application Recommendations for field application of blue green algae Economics of algal production and application Indian State level organizational pattern for the transfer of blue green algae technology Elements of development programmes Appendices General features of blue green algae List of nitrogen fixing blue green algae Keys to the orders and genera of some nitrogen fixing blue green algae Description of the nitrogen fixing blue green algal genera Culture media Isolation and quantification procedures Proforma for compiling information on the production and performance of algal fertilizer material *Blue-green Algae and Rice* P. A. Roger, S. A. Kulasoorya, 1980 Record of the literature on blue green algae and rice Ecology of blue green algae in paddy fields Physiology of blue green algae in paddy fields Blue green algae and the rice plant Algalization **Cyanobacterial (blue-green Algal) Toxins** Richard Scott Yoo, 1995 **The Freshwater Algal Flora of the British Isles** David M. John, Brian A. Whitton, Alan J. Brook, Natural History Museum (London, England), British Phycological Society, 2002-04-25 Table of contents **AQUIRE** Rosemarie C. Russo, Anne Pilli, 1985 **Algae** Christiaan Hoek, D. G. Mann, H. M. Jahns, 1995 Algae are ubiquitous A multitude of species ranging from microscopic unicells to gigantic kelps inhabit the world's oceans freshwater bodies soils rocks and trees To understand the basic role of algae in the global ecosystem a reliable and modern introduction to their kaleidoscopic diversity systematics and phylogeny is indispensable This volume provides such an introduction The text represents a completely revised and updated edition of a highly acclaimed German textbook which was heralded for its clarity as well as its breadth and depth of information This new edition takes into account recent re

evaluations in algal systematics and phylogeny which have been made necessary by insights provided by the powerful techniques of molecular genetics and electron microscopy as well as more traditional life history studies Toxic Blue-green Algae Great Britain. National Rivers Authority, 1990 **The Ecology of Cyanobacteria** B.A. Whitton, M. Potts, 2007-05-08 Cyanobacteria make a major contribution to world photosynthesis and nitrogen fixation but are also notorious for causing nuisances such as dense and often toxic blooms in lakes and the ocean *The Ecology of Cyanobacteria Their Diversity in Time and Space* is the first book to focus solely on ecological aspects of these organisms Its twenty two chapters are written by some thirty authors who are leading experts in their particular subject The book begins with an overview of the cyanobacteria or blue green algae for those who are not specialists then looks at their diversity in the geological record and goes on to describe their ecology in present environments where they play important roles Why is one of the key groups of organisms in the Precambrian still one of the most important groups of phototrophs today The importance of ecological information for rational management and exploitation of these organisms for commercial and other practical purposes is also assessed Accounts are provided of nuisances as well as the ecology of the commercially successful *Spirulina* and the role of cyanobacteria in ecosystem recovery from oil pollution Many chapters include aspects of physiology biochemistry geochemistry and molecular biology where these help general understanding of the subject In addition there are three chapters dealing specifically with molecular ecology Thirty two pages of colour photos incorporate about seventy views and light micrographs These features make the book valuable to a wide readership including biologists microbiologists geologists water managers and environmental consultants The book complements the highly successful *The Molecular Biology of Cyanobacteria* already published by Kluwer *Detritus and Microbial Ecology in Aquaculture* D. J. W. Moriarty, 1987-01-01

Freshwater Algae of North America John D. Wehr, 2002-12-15 Freshwater algae are among the most diverse and ubiquitous organisms on earth They occupy an enormous range of ecological conditions from lakes and rivers to acidic peat swamps inland saline lakes snow and ice damp soils wetlands desert soils wastewater treatment plants and are symbionts in and on many plants fungi and animals In North America the variety of freshwater habitats colonized by algae is very rich and offers an enormous and fascinating range of environments for their study They form the base of most aquatic food webs and are critical to studies of ecosystem health Algal ecologists and taxonomists play an important role in the understanding of aquatic ecosystems their biodiversity productivity interactions with other organisms and water quality This book provides in one volume a practical and comprehensive guide to the genera of freshwater algae known from North America The format combines the necessary ecological taxonomic and methodological information for all scientists working in aquatic environments whether their specialty is in environmental monitoring and water quality assessment biological composition ecology evolution or molecular biology Key Features The first complete accounting of North America's freshwater algal genera in more than 50 years Includes a guide to the current literature on species identification in each group of algae High

quality photographs and drawings of more than 770 genera A clear easy to use introductory key to the diagnostic chapters
Synthetic chapters on freshwater habitats use of algae in environmental assessment and control of nuisance algae
Contributions from 27 experts in all areas of freshwater algae Extensive literature citations Companion volume of Ecology
and Classification of North American Freshwater Invertebrates 2nd edition edited by Throp and Covich *The Water
Environment* Wayne Carmichael, 2013-03-09 The conference on The Water Environment Algal Toxins and Health was held at
Wright State University in Dayton Ohio on June 29 30 July 1 2 1980 Its principal objectives were to bring together for the
first time researchers public officials and interested parties in order to present and discuss what is known about algal toxins
The conference concentrated almost exclusively on toxins and toxic blooms of blue green algae Cyanobacteria Since the most
common Cyanobacteria bloom forming species are also the ones most likely to produce toxins they are a problem in the
maintenance of safe animal and human water supplies While poison ings by Cyanobacteria involve mainly domestic and wild
animals they may also be responsible for cases of human gastroenteritis and con tact poisoning Even though human
poisonings by Cyanobacteria have historically not been a widespread problem continued deterioration of our recreational and
municipal water supplies suggests that blooms of non toxic and toxic Cyanobacteria blooms will increase In addi tion to
studies on their role as disease agents there is basic research being done on their pharmacological properties to determine
their mode of action and usefulness as tools in the study of basic neuromuscular mechanisms These papers were centrally
typed for reproduction as camera ready copy Each paper was reviewed and edited by at least two per sons of the editorial
committee This volume is organized into five major sections 1 *The Ecological World View* Charles Krebs, 2008-04-02
Filled with many examples of topic issues and current events this book develops a basic understanding of how the natural
world works and of how humans interact with the planet s natural ecosystems It covers the history of ecology and describes
the general approaches of the scientific method then takes a look at basic principles of population dynamics and applies them
to everyday practical problems Thermophilic Microorganisms and Life at High Temperatures T.D. Brock, 2012-12-06
From 1965 through 1975 I conducted an extensive field and laboratory research project on thermophilic microorganisms The
field work was based primarily in Yellowstone National Park using a field laboratory we set up in the city of W Yellowstone
Montana The laboratory work was carried out from 1965 through 1971 at Indiana University Bloomington and subsequently
at the University of Wisconsin Madison Although this research project began small it quickly ramified in a wide variety of
directions The major thrust was an attempt to understand the ecology and evolutionary relationships of thermophilic
microorganisms but research also was done on biochemical physiologic and taxonomic aspects of thermophiles Four new
genera of thermophilic microorganisms have been discovered during the course of this 10 year period three in my laboratory
In addition a large amount of new information has been obtained on some thermophilic microorganisms that previously had
been known In later years a considerable amount of work was done on Yellowstone algal bacterial mats as models for

Precambrian stromatolites In the broadest sense the work could be considered geomicrobiological or biogeochemical and despite the extensive laboratory research carried out the work was always firmly rooted in an attempt to understand thermophilic microorganisms in their natural environments Indeed one of the prime motivations for initiating this work was a view that extreme environments would provide useful models for studying the ecology of microorganisms As a result of this 10 year research project I published over 100 papers

Health Effects of Toxic Cyanobacteria (blue-green Algae)
,1993 Krishna's Diversity of Microbes, Fungi & Lichens , **The Ecological Bases for Lake and Reservoir**

Management David M. Harper,1999-09-30 The Ecological Bases for Lake and Reservoir Management provides a state of the art review of the range of ecologically based techniques necessary for the holistic management of lakes and their catchments Most of the methods case studies and national policies reviewed are directed towards management of the largest problem eutrophication with the emphasis on the multiple scale approach needed for successful management and restoration Case studies come from the USA and ten European countries and range from single lakes through to lake districts and national inventories Several essays precede the practical chapters with thought provoking comments on the political social and economic climate of water management Arrivals and Departures Otto Latva,Heta Lähdesmäki,Kirsi Sonck-Rautio,Harri Uusitalo,2024-09-23 This book explores the human relationship to changing biodiversity by bringing together multidisciplinary insights into human nature relations from the humanities New animal and plant species arrive and previously existing ones may disappear However the historical and social perspectives of the changes have been understudied so far This book approaches the human relationship with changing biodiversity from three different angles belonging and non belonging emotions and environmental policy The question of belonging and non belonging is crucial when it comes to changing biodiversity The authors ask who decides where species can move and live and when invasive becomes native Similarly emotions have a big role in human nature relations The book shows why we grieve the loss of some species and hate some other species and how our emotions change over time The writers also aim to show how environmental policies or the practice of governing species are affected by societal discussion emotions scientific research and topical concepts as well as how these policies shape biodiversity and our perceptions of different species The authors provide fresh insights into human nature relations and explain why we need multidisciplinary approaches in order to fully understand their complexity **Public Health Service Publication** ,1959

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