

# The Subaerial And Freshwater Algal Flora Of The Tropics

Algal flora of Korea Algal Flora of Sundarbans Mangals Algal Flora of Korea The Freshwater Algal Flora of the British Isles Algal Flora of Chilika Lake Algal Flora of Ladakh Algal Flora of Dehradun District, Uttaranchal Algal Flora of Iran Algal Flora of Bihar The Turf Algal Flora of the Great Barrier Reef I. The Algal Flora of Loring Cascade ... Algal Flora of Jharkhand The Turf Algal Flora of the Great Barrier Reef: Rhodophyta Fresh Water Algal Flora of Andaman and Nicobar Islands Algal Flora of the Chilka Lake A Preliminary List of the Algal Flora of the Midway Islands The Algal Flora of Chungking and Vicinity The Marine Benthic Algal Flora of Puerto Rico The Algal Flora of the Tornionjoki, Muonionjoki and Könkämäeno in North Finland Algal Flora of Chilika Lake Neera Sen David M. John Rath Jnanendra Shashi Kant Raj Kumar Gupta T. V. Dogadina A. N. Kargupta Ian Russell Price Grace Mon-chen Woo Ian Russell Price Braj Nandan Prasad Kalipada Biswas Richard G. Buggeln Hao-Jan Chu David L. Ballantine Frank Eric Round Jnanendra Rath

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the mangrove ecosystem in indian sundarbans has great role in the estuarine fish production and sustenance of large number of aquatic amphibious and terrestrial forms of living organisms this is because an ideal mangrove habitat releases more than 6 000 tons litter on dry weight basis per hectare per annum and this huge volume of organic matter after mineralisation or after complete decomposition releases nutrients to the estuarine in shore and off shore water and the soil phases as well as such the soil and water in the estuaries and delta regions dominated with dense

mangrove vegetation are considered as one of the most nutrient rich and productive areas among the tropical forest zones the sundarbans dominated with large number of mangrove associated and major and minor mangle species along with vast number of aqua terrestrial mangrove habitat faunal assemblage are categorized as the world heritage site by iucn and unesco 1984 it is worth mentioning that the uniqueness of the mangrove ecosystem along with its rich productive nature is governed mostly by large number of micro and macro organisms but the algae play a very dominant role as primary producer group of organisms both in the aquatic as well as the terrestrial habitats in this mangrove habitat the algal species in the form of planktonic benthic and periphytic green vegetation were overlooked and less mentioned for its small to tiny structures and occasionally invisible to open eyes but their impact and importance are very interacting important and high scientific value to investigate these algal species in the salt dominated estuarine water of delta forest lands are somehow different in their identity from fresh water species but have played the most important role by trapping the solar energy and inorganic substances of the sea water and salty soil consequently transforming them into important food for the consumer group of aqua terrestrial fauna of this estuarine delta sea land interphase zone for all these reasons it is important to collect and identify the different algal flora of this less explored mangrove habitats of indian sundarbans and finding out their direct and indirect use as fish food and the enhancement of fishery activities for enrichment in knowledge of science and identifying their impact on fishery development is imperative taking these propositions as priority areas exploration identification and estimation of the nutrient value of dominant algal flora of sundarbans have been carried out and based on the field and laboratory studies the collected information and data are highlighted in the book contents chapter 1 introduction chapter 2 geology and geography of indian sundarbans chapter 3 factors governing habitats of algae chapter 4 phycological studies india and bangladesh chapter 5 field and laboratory methodologies for the investigations of algae chapter 6 taxonomy and morphology chapter 7 ecology chapter 8 applied phycology

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the book presets a detail account of algae of chilika lake the largest brackish water lagoon in asia in the east coast of india the algal forms of the lake were collected during the year 1999 to 2001 documented with microphotograph and camera lucida diagrams and identified by us the taxonomic account of these algal forms has also been prepared besides the documentation of algal forms resource mapping and biomass estimation of economically important algal species in different salinity gradients of the lake was carried out for the first time and presented in this book viable protocol for agar agar extraction from gracilaria verrucosa occurring in the lake and its possible commercial exploitation is also given details of algal forms presented in this book with descriptions photographs line diagrams and

site of occurrence in chilika lake can be used as a monograph for future study of algal diversity changes in chilika lake and other wetlands elsewhere contents chapter 1 chilika lake and its biodiversity general features of chilika lake origin and history of the lagoon importance of chilika lake chilika lake as a ramsar site hydrology and water quality climate problems encountered by the lake biodiversity of chilika lake biodiversity of marine algae in the brackish water lakes estuaries and coastal regions of india chapter 2 algal flora of chilika lake the study sites collection observation and identification systematic account of algae of chilika lake chapter 3 algal biomass of chilika lake at different salinity gradient physico chemical characteristics of water biomass of macro algae of chilika lake biomass of phytoplankton of chilika lake chapter 4 agar yield of gracilaria verrucosa at different salinity gradients of chilika lake pre treatment of the material extraction of agar yield of agar gelling temperature melting temperature gel strength estimation of 3 6 anhydrogalactose estimation of sulphate contents in agar

this monograph covers a comprehensive review of indian works on zygnemataceae updating the list of new taxa described so far record of originally described species from indian habitats and addition of taxa to indian algae

this treatment is a taxonomic study of the benthic species of ochrophyta known from puerto rico caribbean sea in all 3 classes 10 orders 16 families 33 genera and 77 species occur in the benthic marine communities in puerto rico of these three species of sargassum are found only as unattached and free floating a brief summary of phycological studies in puerto rico and ecological descriptions of the most common marine habitats are presented along with date place and author s of valid publication for all genera and species type locality information and descriptive accounts of vegetative morphological and reproductive anatomy are provided distribution of each species is given and where relevant comments on their habitat and their taxonomic and nomenclatural status are discussed a key to the genera and keys to species within genera are included either an in situ or other illustration accompanies most species two new geographical distribution records for puerto rico and a description of one new species lobophora brooksii d l ballant et j n norris are included volume i page ii

chilika lake situated in orissa india

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