Abid A. Ansari · Sarvajeet Singh Gill · Guy R. Lanza · Walter Rast Editors

Eutrophication: Causes, Consequences and Control



Contents

Fore	word	v
Prefa	ace	vii
1	Eutrophication and Climate Change: Present Situation and Future Scenarios Martin T. Dokulil and Katrin Teubner	1
2	Controlling Eutrophication in the Baltic Sea and the Kattegat Lars Håkanson and Andreas C. Bryhn	17
3	Eutrophication Processes in Arid Climates	69
4	Eutrophication and Restoration of Shallow Lakesfrom a Cold Temperate to a Warm Mediterraneanand a (Sub)Tropical ClimateMeryem Beklioglu, Mariana Meerfhoff, Martin Søndergaard,and Erik Jeppesen	91
5	Trophic State and Water Quality in the Danube FloodplainLake (Kopački Rit Nature Park, Croatia) in Relationto Hydrological ConnectivityVesna Peršić, Dubravka Čerba, Irella Bogut, and Janja Horvatić	109
6	Mediterranean Climate and Eutrophication of Reservoirs:Limnological Skills to Improve ManagementLuigi Naselli-Flores	131
7	Eutrophication: Threat to Aquatic Ecosystems	143
8	Eutrophication Problem in Egypt	171
9	Freshwater Wetland Eutrophication	195
10	Effects of Contamination by Heavy Metals and Eutrophication on Zooplankton, and Their Possible Effects on the Trophic Webs of Freshwater Aquatic Ecosystems Ana María Gagneten	211

11	Impact of Eutrophication on the Seagrass Assemblages of the Mondego Estuary (Portugal) Marina Dolbeth, Patrícia Cardoso and Miguel Ângelo Pardal	225
12	Aquatic Plant Diversity in Eutrophic Ecosystems	247
13	Linking Anthropogenic Activities and Eutrophication in Estuaries: The Need of Reliable Indicators	265
14	Successful Restoration of a Shallow Lake: A Case Study Based on Bistable Theory	285
15	Biomanipulation in Lake Årungen, Norway: A Tool for Biological Control	295
16	Reasons and Control of Eutrophication in New Reservoirs Cuiling Jiang, Liqin Zhu, Xiaoqin Hu, Junyu Cheng and Minghua Xie	325
17	Plant Nutrient Phytoremediation Using Duckweed	341
18	Nitrogen Removal from Eutrophicated Water by Aquatic Plants Olga Babourina and Zed Rengel	355
19	Accelerated Eutrophication in the Mekong River Watershed: Hydropower Development, Climate Change, and Waterborne Disease	373
nde	x	387

x

٠