



From limnology to fisheries: Lake Tanganyika and other large lakes /

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Monografía

Based on modern limnology and environmental research, syntheses of the composition, functions and production of pelagic ecosystems are being provided in the Great Lakes of Africa. Special attention is given to Lake Tanganyika and recent research activities. New findings on relationships between lake hydrophysics, climatic patterns and biological productivity are presented. The roles of organic matters and microbes are discussed. The implications of environmental and fishery research on regional fisheries management are presented, together with the outcomes of the recent major research projects in lakes Tanganyika and Malawi, particularly in practical fisheries development

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Contenido: Fisheries research towards resource management on Lake Tanganyika -- A three dimensional-circulation model of Lake Tanganyika -- Mathematical modelling of Lake Baikal hydrodynamics -- Limnological annual cycle inferred from physical-chemical fluctuations at three stations of Lake Tanganyika -- Meromixis, stratification and internal waves in Kigoma waters of Lake Tanganyika -- The inflow of the Rusizi River to Lake Tanganyika -- Chemical composition of the small rivers of the north-western part of Lake Tanganyika -- The

stoichiometry of particulate nutrients in Lake Tanganyika -- implications for nutrient limitation of phytoplankton -- Phytoplankton in Lake Tanganyika -- vertical and horizontal distribution of in vivo fluorescence -- Spatial and temporal changes in copepod zooplankton communities of Lake Tanganyika -- Vertical distribution and migration of pelagic Copepoda in Lake Tanganyika -- Macrozooplankton communities in Lake Tanganyika indicate food chain differences between the northern part and the main basins -- Feeding ecology of *Lates stappersii* in Lake Tanganyika -- Genetic differentiation of endemic Nile perch *Lates stappersii* (Centropomidae, Pisces) populations in Lake Tanganyika suggested by RAPD markers -- Trophic structure of Lake Tanganyika: carbon flows in the pelagic food web -- The food and feeding behaviour of *Limnothrissamiodon* (Boulenger, 1906) in Lake Kariba, Zimbabwe -- Prospects for the fishery on the small pelagic *Rastrineobolaargentea* in Lake Victoria -- Spatial and temporal patterns of zooplankton standing biomass and production in Lake Malawi -- Simulation of reproductive rate, prey selection and the survival of pelagic fish of the African Great Lakes

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