

Reading free Biogeography of freshwater algae proceedings of the workshop on biogeography of freshwater algae he (2023)

what do we mean by the biogeography of freshwater ecosystems factors influencing freshwater biogeography species diversity in freshwater ecosystems patterns of distribution and endemism human impacts on freshwater biodiversity conservation and management strategies case studies and examples the biogeography of freshwater fish species has always been driven by the geological history of the earth for example the two supercontinental regions and the six major regions of freshwater fishes had almost completely distinct faunas with 99 24 species endemic to their native region we based our bioregionalization on the most comprehensive global database on freshwater fish species occurrence in drainage basins tedesco et al 2017 this database comprises 110 331 occurrence records for 14 953 species in 3 119 drainage basins of the world we present a new map depicting the first global biogeographic regionalization of earth s freshwater systems this map of freshwater ecoregions is based on the distributions and compositions of freshwater fish species and incorporates major ecological and evolutionary patterns the biogeography of freshwater fishes is tightly linked to numerous mechanistic factors such as the capability for dispersal physiological constraints of climate and interactions with other species a listing of the accepted freshwater diatom genera worldwide is presented indicating the distribution of the genera by continent out of a total of 249 genera 63 25 of those genera are endemic to a single continent the continent with the largest number of endemic genera is asia hosting 35 endemic genera in this paper we use molecular data to study the global diversity and biogeographic patterns of freshwater diatom communities along a broad latitudinal gradient we analyzed a large dataset of 711 river diatom communities sampled in four continents across the subpolar temperate and tropical climate zones freshwater fishes are among the most effective faunas to explain biogeography for their limited ability to disperse in the present study totally 375 fish species in 146 genera 26 families and 9 orders were included four key areas with higher diversity were randomly distributed in the province to define the major biogeographical regions and transition zones for freshwater fish species taxon strictly freshwater species of actinopterygian fish i e excluding marine and amphidromous fish families methods the distribution of freshwater taxa is a good biogeographic model to study pattern and process of vicariance and dispersal the subfamily leuciscinae cyprinidae teleostei consists of many species distributed widely in eurasia and north america freshwater mussels are ecosystem engineers and keystone species in aquatic environments unfortunately due to dramatic declines this fauna is among the most threatened globally freshwater biology is the scientific biological study of freshwater ecosystems and is a branch of limnology this field seeks to understand the relationships between living organisms in their physical environment these physical environments may include rivers lakes streams ponds lakes reservoirs or wetlands 1 freshwater organisms are surrounded by water and are constantly in danger of having water rush into their cells because of osmosis many adaptations of organisms living in freshwater environments have evolved to ensure that solute concentrations in their bodies remain within appropriate levels emerging research trends such as mapping habitat alteration in freshwater ecosystems and trait biogeography show great promise in mechanistically linking global anthropogenic stressors to freshwater biodiversity decline and extinction risk fresh water is a precious resource on earth s surface it is also home to many diverse fish plant and crustacean species the habitats that freshwater ecosystems provide consist of lakes rivers ponds wetlands streams and springs 1 to disentangle the effects of local environmental conditions and space at multiple scales in order to uncover and explain biogeographical signals in microbial communities of freshwater diatoms 2 to assess the role of species traits related to dispersal capacities in diatom biogeography the guangxi zhuang autonomous region has one of the most abundant aquatic biodiversity in china and it is a hotspot of global biodiversity research in the present study we explored the diversity distribution and biogeography of freshwater fishes in guangxi a listing of the accepted freshwater diatom genera worldwide is presented indicating the distribution of the genera by continent out of a total of 249 genera 63 25 of those genera are endemic to a single continent historical biogeography of neotropical freshwater fishes explores the evolutionary origins of this unique ecosystem the chapters address central themes in the study of tropical biodiversity why is the amazon basin home to so many distinct evolutionary lineages key words freshwater fishes areas of endemism phylogenetic systematics historical biogeography

the biogeography of freshwater ecosystems and their species

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what do we mean by the biogeography of freshwater ecosystems factors influencing freshwater biogeography species diversity in freshwater ecosystems patterns of distribution and endemism human impacts on freshwater biodiversity conservation and management strategies case studies and examples

major shifts in biogeographic regions of freshwater fishes as

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the biogeography of freshwater fish species has always been driven by the geological history of the earth for example the two supercontinental regions and the six major regions of freshwater fishes had almost completely distinct faunas with 99 24 species endemic to their native region

global biogeographical regions of freshwater fish species mnhn

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we based our bioregionalization on the most comprehensive global database on freshwater fish species occurrence in drainage basins tedesco et al 2017 this database comprises 110 331 occurrence records for 14 953 species in 3 119 drainage basins of the world

freshwater ecoregions of the world a new map of

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we present a new map depicting the first global biogeographic regionalization of earth's freshwater systems this map of freshwater ecoregions is based on the distributions and compositions of freshwater fish species and incorporates major ecological and evolutionary patterns

conservation biogeography of freshwater fishes recent

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the biogeography of freshwater fishes is tightly linked to numerous mechanistic factors such as the capability for dispersal physiological constraints of climate and interactions with other species

a worldwide listing and biogeography of freshwater diatom

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a listing of the accepted freshwater diatom genera worldwide is presented indicating the distribution of the genera by continent out of a total of 249 genera 63 25 of those genera are endemic to a single continent the continent with the largest number of endemic genera is asia hosting 35 endemic genera

revisiting global diversity and biogeography of freshwater

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in this paper we use molecular data to study the global diversity and biogeographic patterns of freshwater diatom communities along a broad latitudinal gradient we analyzed a large dataset of 711 river diatom communities sampled in four continents across the subpolar temperate and tropical climate zones

explaining freshwater fish biogeography history versus

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freshwater fishes are among the most effective faunas to explain biogeography for their limited ability to disperse in the present study totally 375 fish species in 146 genera 26 families and 9 orders were included four key areas with higher diversity were randomly distributed in the province

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to define the major biogeographical regions and transition zones for freshwater fish species taxon strictly freshwater species of actinopterygian fish i.e. excluding marine and amphidromous fish families methods

phylogeny and biogeography of highly diverged freshwater fish

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the distribution of freshwater taxa is a good biogeographic model to study pattern and process of vicariance and dispersal the subfamily leuciscinae cyprinidae teleostei consists of many species distributed widely in eurasia and north america

integrative taxonomy biogeography and conservation of

Jul 03 2023

freshwater mussels are ecosystem engineers and keystone species in aquatic environments unfortunately due to dramatic declines this fauna is among the most threatened globally

freshwater biology wikipedia

Jun 02 2023

freshwater biology is the scientific biological study of freshwater ecosystems and is a branch of limnology this field seeks to understand the relationships between living organisms in their physical environment these physical environments may include rivers lakes streams ponds lakes reservoirs or wetlands 1

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freshwater organisms are surrounded by water and are constantly in danger of having water rush into their cells because of osmosis many adaptations of organisms living in freshwater environments have evolved to ensure that solute concentrations in their bodies remain within appropriate levels

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emerging research trends such as mapping habitat alteration in freshwater ecosystems and trait biogeography show great promise in mechanistically linking global anthropogenic stressors to freshwater biodiversity decline and extinction risk

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fresh water is a precious resource on earth s surface it is also home to many diverse fish plant and crustacean species the habitats that freshwater ecosystems provide consist of lakes rivers ponds wetlands streams and springs

disentangling the processes driving the biogeography of

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1 to disentangle the effects of local environmental conditions and space at multiple scales in order to uncover and explain biogeographical signals in microbial communities of freshwater diatoms 2 to assess the role of species traits related to dispersal capacities in diatom biogeography

diversity distribution and biogeography of freshwater

Dec 28 2022

the guangxi zhuang autonomous region has one of the most abundant aquatic biodiversity in china and it is a hotspot of global biodiversity research in the present study we explored the diversity distribution and biogeography of freshwater fishes in guangxi

a worldwide listing and biogeography of freshwater diatom

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historical biogeography of neotropical freshwater fishes

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historical biogeography of neotropical freshwater fishes explores the evolutionary origins of this unique ecosystem the chapters address central themes in the study of tropical biodiversity why is the amazon basin home to so many distinct evolutionary lineages

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