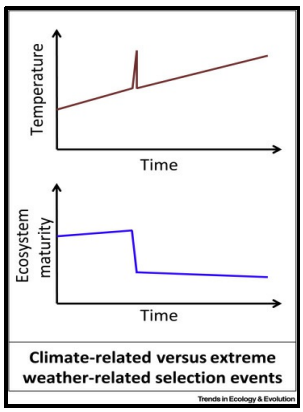
Methods of studying population shifts in aquatic bacteria in response to environmental change

Inland Waters Directorate - The influence of light and water mass on bacterial population dynamics in the Amundsen Sea PolynyaBacterial population dynamics in the ASP



Description: -
-
Philosophy, American.
Methodist Church -- Relations -- Church of England.
Church of England -- Relations -- Methodist Church.
T͡Serkov′ Spasa na Nereditse (Novgorod, Russia)
Charitable uses, trusts, and foundations -- Illinois.
Freshwater ecology -- Research -- Technique.
Freshwater microbiology -- Research -- Technique.Methods of studying population shifts in aquatic bacteria in response to environmental change
-
no. 124.
Scientific series (Canada. Inland Waters Directorate) ;
no. 124
Scientific series ;Methods of studying population shifts in aquatic bacteria in response to environmental change
Notes: Bibliography: p. 99-103.
This edition was published in 1981

Filesize: 62.48 MB

Tags: #Methodological #approaches #for #studying #the #microbial #ecology #of #drinking #water #distribution #systems

The influence of light and water mass on bacterial population dynamics in the Amundsen Sea PolynyaBacterial population dynamics in the ASP

Besides the filamentous bacteria, other complex bacterial morphotypes have been described, such as spiral-shaped and star-like cells or bacterial flocs, clumps and aggregates e.

Grazing of protozoa and its effect on populations of aquatic bacteria

The strain was resuscitated from freeze-dried vials following the protocol of Paton et al. The role of beta-lactamase-producing-bacteria in mixed infections.

Grazing of protozoa and its effect on populations of aquatic bacteria

While the effect of ecological context upon antibiotic resistance is important in clinical environments, it should also be addressed in natural microbial communities that are regularly exposed to antibiotic residues through contaminated manure, sewage and wastewater. Bacteria are involved in many vital biogeochemical functions in aquatic ecosystems. .

Comparison of methods to investigate microbial populations in soils under different agricultural management

However, it is not known whether bacteria from different habitats respond similarly at the physiological level to protistan grazing. There has long been an interest in the relationship between community diversity and the stability of communities responding to perturbations, such as toxic challenges. However, the selection dynamics of resistance would typically depend upon the nature of protection provided by the community.

Comparison of methods to investigate microbial populations in soils under different agricultural management

When protection is provided by a single resistant species, for example through exposure protection via antibiotic inactivation, selection for this resistant genotype would be expected to follow negative frequency dependence.

Ecology and evolution of antimicrobial resistance in bacterial communities

The factors affecting the size and composition of microbial populations in soils are poorly understood. In the ASP, Roseobacter was rather scarce and, despite being known to share many metabolic and ecological traits with Polaribacter, was apparently not competitive in any of the incubation experiments.

Related Books

- How to sleep.
- The dynamite club - how a bombing in fin-de-siècle Paris ignited the age of modern terror
- Qing dai pei du sheng jing yan jiu.
- Military planes
- Applied numerical methods for engineers using MATLAB and C