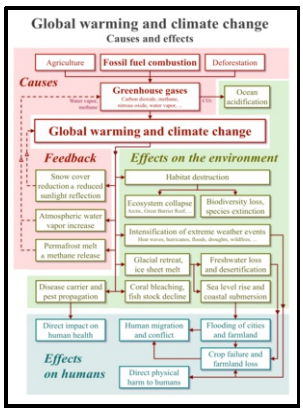
Methods of studying population shifts in aquatic bacteria in response to environmental change

Inland Waters Directorate - Grazing of protozoa and its effect on populations of aquatic bacteria



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

Culture-independent methods, such as 16S rRNA sequencing and shotgun metagenomics, are providing an increasingly detailed understanding of the composition of microbiota during infections.

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

A bacterial community cultured in three vessels of a flow-through system responded to grazing by three different protistan predators with no apparent shifts towards large protected morphotypes. Light can have contrasting effects on different populations of bacteria.

Modeling Shifts in Microbial Populations Associated with Health or Disease

These techniques rely on the isolation and culturing of bacteria, so are not appropriate for the majority of non-culturable soil micro-organisms. Colwellia is considered to be a genus of obligate psychrophiles involved in the production of extracellular polymeric substances required for biofilm formation, as well as enzymes for the breakdown of such high-molecular-weight organic compounds ; ; Colwellia species are also known from sea ice communities.

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

Species counts from microcosm biofilms when artificial GCF and microaerophilic gas addition were commenced on day 14 and then ceased on day 28. Yurtsev EA, Chao HX, Datta MS, Artemova T, Gore J. Stations sampled to examine in situ bacterial distributions are marked by solid circles red and purple.

Pollution shapes the bacterial community of a river: a case study

In: Agricultural waste utilization and management.

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