

UV RADIATION AND ARCTIC ECOSYSTEMS  
(ECOLOGICAL STUDIES)

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Most studies on effect of UV radiation (UV-R) are aut-ecological approaches, focusing on single organisms or single cellular targets. Few studies are syn-

Ecological impacts of ultraviolet-B radiation on marine ecosystems In recent years, there has been a substantial increase in studies related to.

Ecological Studies UV Radiation and Arctic Ecosystems.  
Bearbeitet von. D.O. Hessen. 1. Auflage Buch. xx, S.  
Hardcover. ISBN 3

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effects on aquatic ecosystem structure and function. address responses to increased UV radiation in arctic tundra . Other studies observed that the effect of .

Effects of ultraviolet radiation and contaminant-related stressors on arctic (1) National Water Research Institute of Environment Canada, Department of to produce cumulative and/or synergistic effects on aquatic ecosystem structure and .

the polar vortex over the Antarctic conti- Effects of Ultraviolet Radiation on the Pelagic Antarctic Ecosystem tems will necessitate ecosystem studies in.

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In contrast, further south there is less mixing, fewer clouds and consequently lower phytoplankton productivity. In addition, susceptibility to infection of the amphipod secondary host increased when the host was exposed to UV radiation. UV radiation exposure levels in aquatic ecosystems exhibit strong gradients over time daily to annual depth, and distance from the shore.

Multifactorial effects including UV-B radiation and ocean acidification on diverse organisms as well as ecosystems should to be studied in order to understand the impacts of future ocean climate changes. At the same time, decreased UV radiation in such surface waters reduces the capacity of solar UV radiation to inactivate viruses and other pathogens and parasites, and increases the difficulty and price of purifying drinking water for municipal supplies. Aquatic ecosystems generate important regional food supplies as well as stimulate regional economies.

In the tropics, phytoplankton is under considerable UV-B radiation stress. the satellite cannot detect these shorter wavelengths, algorithms have been developed that lead to an accurate

relationship between spectral slope in this range and thus DOM source. In addition, susceptibility to infection of the amphipod secondary host increased when the host was exposed to UV radiation.