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In the ocean, a faster evolution of microorganisms than their dispersal by ocean currents has been suggested in the Atlantic and Pacific oceans (oceanic surface current speed around 0.05 m/s, [123,124]). However, air currents could be

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100 even 1000 times faster than surface oceanic currents.

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The majority of life on Earth—notably, microbial life—occurs in places that do not receive sunlight, with the habitats of the oceans being the largest of these reservoirs. Sunlight penetrates only a few

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tens to hundreds of meters into the ocean, resulting in large-scale microbial ecosystems that function in the dark.

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Heterotrophic protists (protozoans) play a key role in marine as well as in freshwater microbial food webs.

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abundance and taxonomic composition as well as size structure of bacteria and archaeans and thus regulate nutrient and carbon transfer in aquatic systems.

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The book brings together concepts from autoecological studies of individual bacterial groups and from ecological studies of microbial assemblages in the oceans. In addition to drawing on the rich history of microbiology, *Microbial Ecology of the Oceans* uses the latest advances in biological and chemical

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Eukaryota, Archaea, and Bacteria —as well as viruses.

Microorganisms, by their omnipresence, impact the entire biosphere.

## **Microbial ecology - Wikipedia**

The plastisphere, which comprises the microbial community on plastic debris, rivals that of the built environment in spanning multiple

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biomes on Earth. Although human-derived debris has been entering the ocean for thousands of years, microplastics now numerically dominate marine debris and are primarily colonized by microbial and other microscopic life.

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