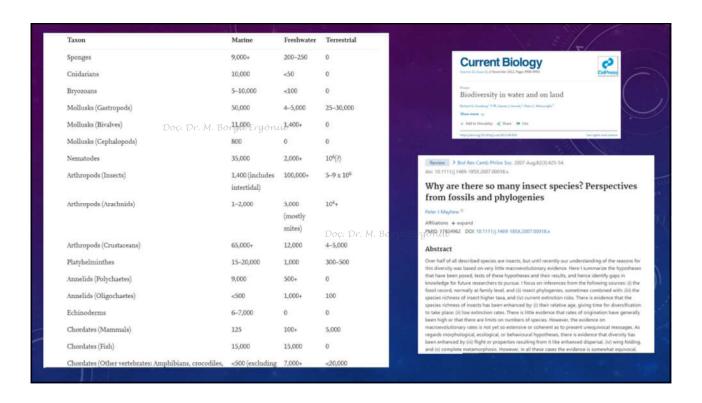




Freshwater ecosystems cover 0.8% of the Earth's surface and inhabit 0.009% of its total water. They generate nearly 3% of its net primary production*. Although, they cover a very narrow surface area compared to marine environments, freshwater ecosystems contain 41% of the world's known fish species. We know that marine communities contain more species in total. But, number of species per unit volume of water is quite high in freshwater ecosytems compared to the seas. Why could it be?







A paranthesis here:

In ecology, primary production is the synthesis of organic compounds from carbon dioxide (either atmospheric or dissolved in aqueous media) through

- i. photosynthesis which uses sun light as a source of energy.
- ii. or through chemosynthesis, which uses the oxidation or reduction of inorganic chemical compounds as a source of energy.

Nearly all of the life on earth relies directly or indirectly on primary producers or autotrophs (such as plants or algae or phytoplankton). Primary producers form up the base of the food chain.

Net primary production accounts for losses to cellular respiration.

Gross production = Net production + Losses (Cellular respiration)

