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# Marine Organic Matter Biomarkers Isotopes And Dna The Handbook Of Environmental Chemistry Reactions And Processes

**on the impacts of phytoplankton-derived organic matter on ...** - organic matter released by marine biota might affect marine aerosol properties, little is known on the effect of these or-ganics on the behaviour of aerosols produced in areas of high biological activity. the chemical composition of the marine aerosol deter-  
**aerobic and anaerobic decomposition of organic matter in ...** - organic matter decomposition. our purpose was to determine rate-limiting steps and relative speed of aerobic and anaerobic decomposition processes in marine surface sediments. we examined the impact of molecular oxygen on the initial microbial attack and the terminal oxidative mineralization of two <sup>14</sup>c- **spatial distribution of organic matter in the surface ...** - analyses of organic matter content, organic carbon, nitrogen, sulfur and granulometric variables were per-formed on 101 surface sediment samples from ubatuba bay in order to investigate the spatial distribution of organic matter, its origin and the relationships among its components. the samples were obtained with a **selective preservation of organic matter in marine ...** - 484 k. a. f. zonneveld et al.: selective preservation of organic matter in marine environments 1 introduction sedimentary organic matter (om) is the major reservoir of organic carbon in the global carbon cycle. in the marine envi-ronment it is composed of material derived from the various plankton species that comprise the ecology of primary pro-  
**dissolved organic matter in aquatic systems - researchgate** - the marine realm. chromophoric dissolved organic matter (cdom) the fraction of dissolved organic matter that absorbs ultraviolet and visible radiation. chemoautotrophy ability of an organism to ... **organic carbon preservation in marine sediments** - organic substances such as kerogen, soil humus, and riverine organic matter are extensively oxidized back to co<sub>2</sub> in relatively short time periods on land and in the ocean, whereas seemingly reactive remains of recently living marine organisms are preserved in depositing marine sediments. by what process **isolation and characterization of bacteria that degrade ...** - semi-labile dissolved organic matter (dom) accumulates in surface waters of the oligotrophic ocean gyres and turns over on seasonal to annual timescales. this reservoir of dom represents an important source of carbon, energy, and nutrients to marine microbial communities but the identity of the microorganisms and the **why is carbon preserved in marine sediments? - whoi** - why is carbon preserved in marine sediments? enhanced productivity - more organic matter is produced which leads to a greater flux through the water column and ultimately greater accumulation in sediments. **burial of terrestrial organic matter in marine sediments ...** - burial of terrestrial organic matter in marine sediments: a re-assessment david j. burdige department of ocean, earth and atmospheric sciences, old dominion university, norfolk, virginia, usa **large-scale variations in the stoichiometry of marine ...** - the elemental composition of marine organic matter governs resource competition among plankton, and couples the global cycles of carbon, nutrients and oxygen. observations have revealed systematic large-scale variation in the ratios of these essential elements removed from surface waters by phytoplankton<sup>1-5</sup>. however, an impact of this ...

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