

## **Silicon Biogeochemical Cycle In Oceans**

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### ***Silicon Biogeochemical Cycle In Oceans***

***In the biogeochemical dynamics of marine ecosystems, silicon is a major element whose role has, for a long time, been underestimated. It is however indispensable to the activity of several biomineralizing marine organisms, some of which play an essential role in the biological pump of oceanic carbon.***

### ***The Biogeochemical Cycle of Silicon in the Ocean | Wiley ...***

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### ***The Biogeochemical Cycle of Silicon in the Ocean (Focus ...***

***The silica cycle is the biogeochemical cycle in which silica is transported between the Earth's systems. Opal silica is a chemical compound of silicon, and is also called silicon dioxide. Silicon is considered a bioessential element and is one of the most abundant elements on Earth. The silica cycle has significant overlap with the carbon cycle and plays an important role in the sequestration of carbon through continental weathering, biogenic export and burial as oozes on geologic timescales.***

### ***Silica cycle - Wikipedia***

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***Silicon Cycle in Oceans by Bernard Quéguiner (2016 ...***

***The Biogeochemical Cycle of Silicon in the Ocean. The author then moves on to study the most up-to-date processes to control the use of silicon and its regeneration in natural conditions, before mentioning the central role played by this original element in the control of all the biogeochemical cycles in the global ocean.***

***The Biogeochemical Cycle of Silicon in the Ocean ...***

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***The biogeochemical cycle of silicon in the ocean in ...***

***Over the past few decades, we have realized that the silica cycle is strongly intertwined with other major biogeochemical cycles, like those of carbon and nitrogen, and as such is intimately related to marine primary production, the efficiency of carbon export to the deep sea, and the inventory of carbon dioxide in the atmosphere.***

***The World Ocean Silica Cycle | Annual Review of Marine Science***

***Biogeochemical cycle of silicon in the world ocean at steady state: a possible balance that is in reasonable agreement with the individual range of each flux (F). The dotted line represents the ...***

***(PDF) THE WORLD OCEAN SILICA CYCLE - ResearchGate***

***Abstract. Silicon is one of the most important elements in the current age of the anthropocene. It has numerous industrial applications, and supports a high-tech multi-billion Euro industry. Silicon has a fascinating biological and geological cycle, interacting with other globally important biogeochemical cycles.***

***The Global Biogeochemical Silicon Cycle | SpringerLink***

***The latest IBiS volume - a collection of papers - on silicon cycling was recently published in the journal SILICON (The Biogeochemical Silica Cycle from Land to Ocean, volume 5, issue 1, January 2013 -link).***

***The Global Silicon Cycle by Prof Melanie Leng***

***Silicon and zinc biogeochemical cycles coupled through the Southern Ocean. ... P. et al. Thick-shelled grazer-protected diatoms decouple ocean carbon and silicon cycle in the iron-limited ...***

***Silicon and zinc biogeochemical cycles coupled through the ...***

***Today, the budget needs revisiting to incorporate advances that have notably changed estimates of river and groundwater inputs to the ocean of dissolved silicon and easily dissolvable amorphous silica, inputs from the dissolution of terrestrial lithogenic silica in ocean margin sediments, reverse weathering removal fluxes, and outputs of biogenic silica (especially on ocean margins and in the form of nondiatomaceous biogenic silica).***

***The world ocean silica cycle.***

***In the biogeochemical dynamics of marine ecosystems, silicon is a major element whose role has, for a long time, been underestimated. It is however indispensable to the activity of several biomineralizing marine organisms, some of which play an essential role in the biological pump of oceanic carbon.***

***The Biogeochemical Cycle of Silicon in the Ocean eBook by ...***

***In the ormat provided by the authors and unedited. Silicon and zinc biogeochemical cycles coupled through the Southern Ocean Derek Vance, Susan H. Little, Gregory F. de Souza, Samar Khatiwala, Maeve C. Lohan***

***Silicon and zinc biogeochemical cycles coupled through the ...***

***Silica in marine environments. As a result, diatoms, and other silica-secreting organisms, play a crucial role in the global carbon cycle, and have the ability to affect atmospheric CO<sub>2</sub> concentrations on a variety of time scales, by sequestering CO<sub>2</sub> in the ocean. This connection between biogenic silica and organic carbon,...***

***Biogenic silica - Wikipedia***

***As for all other fundamental biogeochemical cycles of the ocean (carbon, nitrogen, phosphorous, etc.), the marine silicon cycle is thought to be in internal equilibrium. This means that the amount of dissolved silicon entering the ocean every year should be equivalent to the one going out.***

***New paper in Nature Geoscience unveils the role of sponges ...***

***In the open ocean, biogeochemical cycles follow a relatively simple scheme: plankton takes up nutrients, dies and sinks to the deep ocean. The sinking organic matter is progressively remineralised and only a very small fraction reaches the sea floor and is buried in the sediments on a geological time scale.***

***Contribution of riverine nutrients to the silicon ...***

***In the contemporary ocean the biogeochemical cycle of silicon is dominated by the activity of the diatoms (class Bacillariophyceae) [Tréguer et al., 1995]. This group is estimated to contribute up to 45% of total oceanic primary production [ Mann , 1999 ], making them major players in the cycling of all biological elements.***

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