

Silicon Biogeochemical Cycle In Oceans

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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.

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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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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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The Biogeochemical Cycle of Silicon in the Ocean Release on 2016-06-20 | by Bernard Quéguiner This book presents notions indispensable to the knowledge on the silicon biogeochemical cycle in ocean systems, first of all describing the main quantitative analysis techniques and examination of the major organisms involved in the cycle.

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Zhouling Zhang, Xiaole Sun, Minhan Dai, Zhimian Cao, Guillaume Fontorbe, Daniel J. Conley, Impact of human disturbance on the biogeochemical silicon cycle in a coastal sea revealed by silicon isotopes, Limnology and Oceanography, 10.1002/lno.11320, 65, 3, (515-528), (2019).

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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...

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S. ilicon (Si) is widely recognized as an im-portant regulator of the global carbon cycle via its effect on diatom productivity in oceans (1) and the weathering of sili- cate minerals on continents...

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Variations in the silicon (Si) cycle are large and its coupling to other nutrient biogeochemical cycles is still not well understood in this ocean. Results of two different isotopic approaches suggested that a strong silicon pump was quickly initiated in spring by a switch from regenerated to new biogenic silica production.

~~The biogeochemical silicon cycle in the Southern Ocean ...~~

Thus, understanding the Si cycle in the ocean is critical for understanding issues such as carbon sequestration by the ocean's biological pump. In this review, we show that recent advances in process studies indicate that total Si inputs and outputs, to and from the world ocean, are 57 % and 18 % higher, respectively, than previous estimates.

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~~Role of diatoms in regulating the ocean's silicon cycle ...~~

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Key aspects of the global biogeochemical silicon cycle remain poorly understood, such as the biological cycling of Si on the continents [Conley, 2002a], the role of the coastal zones in regulating the transfer of reactive Si from land to the open ocean [Conley, 1997; DeMaster, 2002], the fate of biogenic silica produced in oceanic surface waters and its decoupling from carbon during sinking ...

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Here a simple model is developed to study the relationship between the diatoms and the ocean's silicon cycle. The ecological component of this model pits the slightly superior diatoms against all other algae, with both groups competing for phosphate while the diatoms additionally require silicic acid.

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