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A biogeological approach to ocean acidification

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Ocean acidification is occurring today and will continue to intensify, closely tracking global CO₂ emissions. Given the potential threat to marine ecosystems and its ensuing impact on human society and economy, especially as it acts in conjunction with ocean warming, there is an urgent need for immediate action. This “double trouble” is arguably the most critical environmental issue that humans will have to face in the immediate future. The impacts of ocean acidification will be global in scope yet are some of the least understood of all climate change phenomena. The information stored in Earth’s sedimentary archives in combination with laboratory and field research offers a challenge for the biogeosciences community at large to fully understand the consequences of and eventually help mitigate ocean acidification.

キーワード: 海洋酸性化, 二酸化炭素, 海洋生物

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