

Since serpentinite is very common in the ocean floor, the results from the Mariana Trench can be transferred to many other areas. "There are even indications that similar processes take place where other types of rock such as basalt are predominant. With that, our results could be transferred to the large ocean basins", Dr. Geilert adds. "In any case, we have been able to add an important piece of the puzzle to our knowledge of the silicon cycle".

Reference:

Geilert, S., P. Grasse, K. Wallmann, V. Liebetrau, C. D. Menzies (2020): Serpentine alteration as source of high dissolved silicon and elevated ^{30}Si values to the marine Si cycle.
, <https://doi.org/10.1038/s41467-020-18804-y>

Links:

www.geomar.de GEOMAR Helmholtz Centre for Ocean Research Kiel
www.iodp.org International Ocean Discovery Program

Images:

At www.geomar.de/n7319-e images are available for download.

Kontakt:

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