

Early Diagenetic Processes in Marine Cold Seeps

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Message from the Guest Editors

Dear Colleagues,

Cold seeps are a widespread phenomenon that occur on the shelves and continental slopes of inland and marginal seas around the world. The seepage of hydrocarbon-rich fluids causes a change in the biogeochemical environment in sediments and in bottom water. This contributes to the formation of carbonate and sulphide minerals, the enrichment of sediments with some trace elements, the transformation of communities of benthic animals and microorganisms, etc. In addition, cold seeps are a source of methane (the strongest greenhouse gas), the emission of which into the atmosphere can lead to positive feedback on climate warming. The study of modern cold seeps is the key to understanding their role in sedimentary processes and climate change in past geological periods.

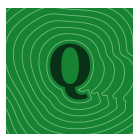
Multidisciplinary studies of cold seep marine sediments based on a variety of laboratory methods and covering various research aspects regarding the impact of fluid seepage are welcome.

Dr. Alexey Ruban

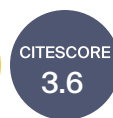
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Message from the Editor-in-Chief

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