# **Special Issue**

# Natural Methane Release—from Old Subsurface Origins to Recent Biogenic Production

### Message from the Guest Editors

Trace gases are a minor part of our atmospheric dry air (around 0.1%), but they have a crucial role in controlling air temperature and climate. The main components include the so-called greenhouse gases (GHG), namely, methane (CH4), the most potent, with less than 2 ppm (vol). The natural occurrence of methane is related to several different mechanisms and origins, namely, abiogenesis, thermogenesis, and methanogenesis. Its release to the atmosphere is driven mainly by diffusive gas transfer and ebullition, but natural emissions of CH4 are highly uncertain in terms of atmospheric content and budget. Therefore, recognizing, mapping, and characterizing the main sources are crucial for increasingly accurate climate modeling. With this Special Issue, we intend to contribute to increasing the knowledge about natural methane occurrences and their potential impact on global changes.

#### **Guest Editors**

Dr. Gabriel Barberes

Center of Geoscience, University of Coimbra, 3004-531 Coimbra, Portugal

Dr. Nuno Lamas Pimentel

Instituto Dom Luiz (IDL), Faculdade de Ciências, Universidade de Lisboa, Lisbon, Portugal

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Methane
Editorial Office
MDPI, Grosspeteranlage 5
4052 Basel, Switzerland
Tel: +41 61 683 77 34
methane@mdpi.com

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Prof. Dr. Patrick Da Costa

Institut d'Alembert, Sorbonne Université, CNRS UMR7190, 2 pl de la Gare de Ceinture, 78210 St Cyr L'Ecole, France

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