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Disturbance Effects on Soil Carbon and Greenhouse Gas Emissions in Forest Ecosystems

Guest Editors:

Prof. Dr. Scott X. Chang
Department of Renewable Resources, University of Alberta, Edmonton, AB T6G 2E3, Canada

Dr. Yanjiang Cai
State Key Laboratory of Subtropical Silviculture, Zhejiang A & F University, Hangzhou 311300, China

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Message from the Guest Editors

Forest ecosystems are often disturbed by agents such as harvesting, fire, wind, insects and diseases, and acid deposition, with differing intensities and frequencies. Such disturbances can markedly affect the amount, form and stability of soil organic carbon in and the emission of greenhouse gases, including CO_2, CH_4, and N_2O, from forest ecosystems. It is vitally important that we improve our understanding of the impact of different disturbance regimes on forest soil carbon and greenhouse gas emissions to guide our future research, forest management practices, and policy development. Through this special issue, we aim to bring together researchers working on different aspects of forest ecology to share their findings on disturbance effects on soil carbon and greenhouse gas emissions in forest ecosystems. Comparisons on disturbance effects can be made among biomes and climate regions.

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Department of Mathematics and Physics, Catholic University of Brescia, I-25121 Brescia, Italy

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Contact Us

Forests Editorial Office
MDPI, Grosspeteranlage 5
4052 Basel, Switzerland

Tel: +41 61 683 77 34
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forests@mdpi.com
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