



Environmental and Ecological Effects of Recent Deforestation and Biodiversity Loss in the Amazon Region

Guest Editors:

Dr. Gabriel de Oliveira

Dr. Liming He

Dr. Guilherme Mataveli

Dr. Carlos A. C. dos Santos

Dr. Yosio Edemir Shimabukuro

Deadline for manuscript
submissions:

closed (10 December 2021)

Message from the Guest Editors

The Amazon region has the largest rainforest in the world; however, the anthropogenic pressure and associated land cover changes have led to large-scale forest losses.

The Amazon rainforest influences the terrestrial climate system due to the exchanges of energy, carbon, and water between the surface and the atmosphere. In addition to providing water vapor to the environment through evapotranspiration, influencing the general circulation in the tropics and contributing to regional precipitation, the Amazon rainforest plays an important role in the global carbon cycle.

We welcome original research articles as well as review articles addressing, though not exclusively, the following topics:

New satellite data and tools to assess deforestation, forest fragmentation, and natural recovery; belowground biogeochemistry, plant demography and ecophysiology, plant functional traits, and aquifer-to-canopy hydrology; forest-atmosphere interactions; impacts of severe events such as droughts and fire; and resilience of the Amazon rainforest to extreme events, taking into consideration the drivers of land degradation and deforestation and further transitions under a climate change scenario.





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Editors-in-Chief

Prof. Dr. Cate Macinnis-Ng

Department of Biological Sciences, Faculty of Science, University of Auckland, Private Bag 92019, Auckland 1142, New Zealand

Prof. Dr. Giacomo Alessandro Gerosa

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

Message from the Editorial Board

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Journal Rank: JCR - Q1 (Forestry) / CiteScore - Q1 (Forestry)

Contact Us

Forests Editorial Office
MDPI, St. Alban-Anlage 66
4052 Basel, Switzerland

Tel: +41 61 683 77 34
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