



Climatic, Biotic and Structural Feedbacks on Drought-Induced Forest Declines

Guest Editors:

Dr. Adrià Barbeta

Bordeaux Science Agro, INRA,
Villenave d'Ornon, France

Dr. Jofre Carnicer

CSIC, Global Ecology Unit CREAF-
CEAB-CSIC-UAB, Cerdanyola del
Vallès, Catalonia, Spain

Dr. Christian Zang

Technische Universität München,
Professorship for Land Surface-
Atmosphere Interactions, Hans-
Carl-von-Carlowitz-Platz 2, 85354
Freising, Germany

Deadline for manuscript
submissions:

closed (20 January 2018)

Message from the Guest Editors

Dear Colleagues,

Climatic extremes have triggered episodes of forest decline globally. In the last decade, the understanding of the physiological mechanisms involved in tree mortality has improved enormously. However, we still lack predictive capacity from the ecological perspective. Trees are long-lived organisms and forests are highly structured ecosystems with complex biotic interactions. The activity of pathogens would be enhanced by species-specific climatic constraints prior or after the drought episode. Therefore, we invite manuscripts with a focus on one or several of the following questions:

- 1) How do forest structural characteristics interact with extreme drought episodes?
- 2) How does previous climate influence the magnitude of drought effects on forests?
- 3) Are successional trajectories accelerated or delayed by extreme droughts?
- 4) Is the activity of pathogens enhanced by the climate prior or posterior to a extreme drought episode?

Dr. Adrià Barbeta
Prof. Jofre Carnicer
Dr. Christian Zang
Guest Editors





forests



an Open Access Journal by MDPI

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

Forests (ISSN 1999-4907) is an international and cross-disciplinary, scholarly forestry journal. The distinguished editorial board and refereeing process ensures the highest degree of scientific rigor and review of all published articles. Original research articles and timely reviews are released online, with unlimited free access.

Our goal is to have *Forests* be recognized as one of the foremost publication outlets for high quality, leading edge research in this broad and diverse field. We therefore invite you to be one of our authors, and in doing so share your important research findings with the global forestry community.

Author Benefits

Open Access: free for readers, with article processing charges (APC) paid by authors or their institutions.

High Visibility: indexed within Scopus, SCIE (Web of Science), Ei Compendex, GEOBASE, PubAg, AGRIS, PaperChem, and other databases.

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
www.mdpi.com

mdpi.com/journal/forests
forests@mdpi.com
X@Forests_MDPI