Special Issue

Long-Term and Seasonal Population Dynamics of Forest Insects at Climate Change

Message from the Guest Editors

Phenological asynchrony between host trees, and herbivorous and entomophagous insects, may be of great importance in changing the dynamics of populations. These changes may depend on the biology of individual species (sites of hibernation, the presence of obligate or facultative diapause, and the ability to increase the number of generations). Changes in the seasonal dynamics of species may also affect the long-term dynamics of their outbreaks and the injuriousness of certain pests. This SI welcomes novel research focused on various aspects of phytophagous insect interaction with the forest environment, host trees, entomophagous insects, and other components of the forest ecosystem, which increase or decrease the probability of outbreaks, the frequency, duration, and intensity of these outbreaks, and the change in the role of individual species in complexes. Potential topics of interest include, but are not limited to:

- Phenological resistance of trees to phytophagous insects;
- Phenological asynchrony between host trees, herbivorous and entomophagous insects, and vectors of pathogens;
- Probability, frequency, duration, and severity of forest insect outbreaks in new climate.

Guest Editors

Prof. Dr. Valentyna Meshkova
Prof. Dr. Jaroslav Holuša
Dr. Mihai-Leonard Duduman

Deadline for manuscript submissions

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

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Editor-in-Chief

Prof. Dr. Giacomo Alessandro Gerosa
Department of Mathematics and Physics, Catholic University of Brescia, I-25121 Brescia, Italy

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