



Advances in Terrestrial Remote Sensing of Arctic Environments

Guest Editors:

Prof. Dr. Paul Treitz

Department of Geography and
Planning, Queen's University,
Kingston, ON K7L 3N6, Canada

Dr. Heather Reese

Department of Earth Sciences,
University of Gothenburg,
Guldhedsgatan 5A, 41320
Göteborg, Sweden

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Message from the Guest Editors

The Arctic is experiencing warming at a rate two to three times that of the global average. As a result, there is strong evidence of environmental change occurring in the High Arctic that can be attributed to this warming. Such changes might occur, for example, in vegetation composition, productivity, nutrient cycling, and ecosystem functioning. The Arctic is also extremely remote and inaccessible. Hence, remote sensing provides a very effective method of examining Arctic environments across scales and for large areas. Advances in remote sensing, such as multi-resolution and multi-source data from UAV to LiDAR to satellite, machine/deep-learning algorithms, and extended time series data are providing new approaches to studying the Arctic environment. This Special Issue is intended to provide a forum for researchers (i) conducting remote sensing to assess Arctic vegetation at local, landscape, and regional scales; (ii) analyzing biogeophysical processes impacting vegetation greening and browning (productivity, permafrost degradation, snow cover and properties, moisture regime, etc.); and (iii) modelling vegetation dynamics under various climate change scenarios.





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Center (WGSC), 2255, N. Gemini
Dr., Flagstaff, AZ 86001, USA

Message from the Editor-in-Chief

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

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