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Advances in Scaling and Modelling of Essential Variables for Environmental Monitoring with Multiscale Earth Observations

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Deadline for manuscript submissions:
closed (31 March 2023)

Message from the Guest Editors

Many water–energy–vegetation satellite products are currently available as down streaming services. However, these are at coarse resolutions and not suitable to characterize the environment at field or finer scale. On the other hand, although proximity sensing can provide very high resolution products, they require considerable efforts for cal/val procedures (e.g., geometric and radiometric calibrations in both labs and fields). Furthermore, the intercomparison between high resolution and coarser resolution products require either downscaling or upscaling methodologies.

Key questions are “How are these downscaling/upscaling approaches are carried out currently and what are their accuracy and uncertainty? And How these quality assurance information can be traced back to geometric and radiometric calibrations?” This issue is dedicated to collect the output of recent advances in the scaling and modelling of essential variables for environmental monitoring with multiscale Earth Observations, which include satellite products, in-situ measurements, (process-based) environmental modelling, and proximity sensing imagery (UAS).

mdpi.com/si/81188

Special Issue

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