



Advance on Net Surface Radiation Inversion Using Remote Sensing Technology

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Deadline for manuscript
submissions:

closed (15 October 2022)

Message from the Guest Editors

Up to now, many efforts have been made to net surface radiation (NSR) using remote sensing data, and many parameterization schemes have been successfully developed to estimate NSR, NSSR, and NSLR from satellite-based data. However, it should be pointed out that most of the methods are just for the estimations of NSR, NSSR, and NSLR for clear-sky days. The estimations of above variables over cloudy skies are still problematic.

Note that the daily average net surface radiation (DANSR) has more meaning than instantaneous NSR for atmospheric and hydrologic modeling and the estimate of evapotranspiration from remotely sensed data. Currently, estimation of DANSR is usually using one single instantaneous NSR with a sinusoidal model deduced from the diurnal cycle of surface temperature for clear days. This clear-based sinusoidal approximation model may not accurately capture the diurnal variation of NSR for days when cloud cover was present during a portion or entire day.

This Special Issue is being planned to focus on the latest advance on retrieval and validation of NSR, NSSR, and NSLR from space measurements and grow interest in estimations and analyses of those parameters.





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