



## Remote Sensing of the Atmospheric Boundary Layer

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### Message from the Guest Editors

Dear Colleagues,

Active and passive remote sensing methods have a long history of being used to better understand and characterize the structure and dynamics of the atmospheric boundary layer (ABL). The spatial scales observed span from meso- and sub-meso-scale phenomena (fronts and severe storms and precipitation) over local scale effects (wind turbine wakes and urban and orographic forcings) down to the characterization of small scale atmospheric turbulence. We aim to compile a Special Issue that highlights the latest development in active and passive remote sensing technology applied to ABL studies. Potential topics we can foresee are:

- ABL wind profiling by sodar, Lidar and radar
- 3D wind field evaluation by scanning Lidar and radar
- Characterization of BL clouds and precipitation by radar
- ABL scintillometry
- Temperature and humidity profiling by passive microwave radiometry and spectroscopy
- Acoustic tomography
- Validation and field campaigns



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*Guest Editors*

# Special Issue



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## Message from the Editor-in-Chief

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