



Earth Radiation Budget and Earth Energy Imbalance

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Message from the Guest Editor

Dear Colleagues,

The Earth Radiation Budget (ERB) at the top of the atmosphere describes how the Earth gains energy from the Sun and loses energy to space through reflection of solar radiation and the emission of thermal radiation. The ERB is measured from space with dedicated remote sensing instruments. Its long-term monitoring is of fundamental importance for understanding climate change.

The most fundamental quantity to be monitored is the Earth Energy Imbalance (EEI), which is closely related to Ocean Heat Content (OHC) and Sea level Rise (SLR).

For this Special Issue, original contributions are invited focusing on ERB and EEI remote sensing for either

- the establishment of past and current ERB and EEI Climate Data Records (CDRs)
- the outlook for continued or improved future ERB and EEI monitoring
- insight in climate change gained from the analysis of ERB and EEI CDRs. e.g. related to aerosol radiative forcing or climate feedback





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Message from the Editor-in-Chief

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