



Current and Future Earth Observing Sensor Systems aboard the International Space Station (ISS)

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Message from the Guest Editors

The International Space Station (ISS) is a unique platform with a human crew, which can contribute to Earth observations. Recently-launched sensors for Earth observation include ECOSTRESS, GEDI, OCO-3, DESIS, and HISUI that have all begun operations from ISS after 2018 with each sensor already providing useful information to understand planet Earth.

The current and future Earth observing sensor systems on the ISS have huge potential for research on the interactions among the geosphere, hydrosphere, atmosphere, and biosphere because their sensors can measure the Earth surface simultaneously. Data sharing obtained by Earth observing sensors onboard ISS can promote international collaboration under the international partnership.

This Special Issue invites manuscripts on research updates on the above instruments as well as other planned and previously-operated Earth observation sensors onboard the ISS. Topics can include but are not limited to descriptions of sensor calibration, validation of higher-level products, results from using multiple ISS sensors, and challenges and benefits of the ISS platform for Earth observation measurements.

