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## Observability of the lower stratospheric perturbations caused by overshooting convections

Deep convections overshooting the tropopause can strongly influence the lower stratosphere. Seeing such impacts with satellites however has been a challenge. We discuss what thermodynamic anomalies can be observed and what cannot with different observing techniques (nadir vs. limb), based on Observing System Simulation Experiments utilizing high-resolution atmospheric models.

### Topic

Upcoming Earth observation limb and occultation instruments

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