Contribution ID: **42** Type: **Oral**

Approaches to capturing coupled solar-ozone variability in climate models

Thursday 19 September 2024 15:30 (30 minutes)

Solicited talk

Solar variability contributes to climate variability at global and regional scales. It is therefore important to include this forcing alongside other natural and anthropogenic factors to simulate past climate and to account for the potential solar influence on future climate projections. However, many challenges exist particularly around how to capture the full effect of spectral solar irradiance variations and associated impacts of composition, particularly stratospheric ozone. This talk will review the approaches for capturing solar-ozone forcing in past CMIP exercises, reflect on what we have learned, and consider what could be done for the upcoming CMIP7 simulations.

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Session Classification: Stratosphere / mesosphere / thermosphere response and coupling of atmospheric layers

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