



ID de Contribution: 24

Type: **Oral presentation**

Water ice clouds in the Martian atmosphere during the 2018 Global Dust Storm

vendredi 28 février 2020 18:00 (15 minutes)

Water ice clouds have been observed in the Martian atmosphere since 1972, but as recent studies have shown their important role in the martian climate there is a growing need to better characterize the properties of water ice aerosols with observational constraints.

The Atmospheric Chemistry Suite (ACS) instrument onboard the ExoMars Trace Gas Orbiter (TGO) ESA-Roscosmos mission began science operations in March 2018. Here we use the Solar Occultation IR observations in the 3 μm region of the Mid-Infrared (MIR) channel to monitor the water ice clouds in the Martian atmosphere before and during the 2018 Global Dust Storm, and retrieve their particles sizes.

Field

Planetology (including small bodies and exoplanets)

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Classification de Session: Talk

Classification de thématique: Astrophysics