



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  $\mu\text{m}$  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 (incuding small bodies and exoplanets)

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**Classification de Session:** Talk

**Classification de thématique:** Astrophysics