

Towards a better understanding of the processes controlling distribution, variability and long-term evolution of stratospheric aerosol load

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The results presented rely on a synergistic approach to exploitation of ground-based lidar, balloon-borne and satellite observations and will address the following aspects:

- sources of stratospheric aerosol: volcanism, biomass burning and anthropogenic emissions
- transport processes controlling global distribution and interannual variability of stratospheric aerosol
- seasonal and decadal variability of non-volcanic aerosol in the stratosphere
- unprecedented levels of smoke aerosols in the stratosphere after the wildfire season 2017 (Mother of all PyroCb)