

**NAME, First Name:** VON HOBE, Marc

**Affiliation:** Forschungszentrum Jülich GmbH

**Role in the project:**

Marc von Hobe will contribute his particular expertise on airborne observations (Task 3). He will act as liaison to the proposed ESA mission CAIRT (a novel satellite instrument that can measure both aerosols and sulfur gases), relevant for Task 2.

**Current position:** Research Scientist at Inst. for Energy and Climate Research (IEK-7: Stratosphere) since 2001

**Former Position(s):** Postdoc, MPI for Chemistry, Mainz (2000 – 2001)

**Education:** B.Sc. in Environmental Chemistry, University of East Anglia, 1996

Ph.D. in Environmental Sciences, University of East Anglia, 2000

**Services in National and/or International Committees (most recent nominations):**

Member of the SPARC (Stratospheric and upper tropospheric processes and their role in climate) scientific steering group since January 2023

**Honors:** FRP.NRW Award 2011 for outstanding coordination of an EU collaborative project under FP7

**Selected Publications (total 43 journal articles, 2 book chapters, 5 proceedings):**

von Hobe, M., et al.: Upward transport into and within the Asian monsoon anticyclone as inferred from StratoClim trace gas observations, *Atmos. Chem. Phys.*, 21, 1267–1285, 2021.

Kloss, C., et al.: Airborne Mid-Infrared Cavity enhanced Absorption spectrometer (AMICA), *Atmos. Meas. Tech.*, 14, 5271–5297, 2021.

Lennartz, S. T., Gauss, M., von Hobe, M., and Marandino, C. A.: Monthly resolved modelled oceanic emissions of carbonyl sulphide and carbon disulphide for the period 2000–2019, *Earth Syst. Sci. Data*, 13, 2095–2110, 2021.

Kremser, S., et al.: Stratospheric aerosol-Observations, processes, and impact on climate. *Rev. Geophys.* 54, 278-335, 2016.

Ploeger, F., et al.: A potential vorticity-based determination of the transport barrier in the Asian summer monsoon anticyclone. *Atmos. Chem. Phys.* 15, 13145-13159, 2015.