

**LEIBNIZ-INSTITUTE OF ATMOSPHERIC PHYSICS
OSTSEEBAD KÜHLUNGSBORN, GERMANY**

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Curriculum Vitae

Franz-Josef Lübken

- 1985: PhD in Physics at the „Physikalisches Institut der Universität Bonn“. Topic of thesis: Sounding rocket mass spectroscopy.
- 1988 - 1989: Post-doc at the York University in Toronto, Canada. Topic of research: Development of a tunable diode laser spectrometer for application on a research aircraft.
- 1993: „Habilitation“ in Physics at the „Physikalisches Inst. der Univ. Bonn“. Topic: Experimental results on the role of turbulence for the heat budget of the upper atmosphere.
- Since 1994: Professor of Physics at the „Physikalisches Inst. der Univ. Bonn“.
- Project Scientist of the following sounding rocket projects: SCALE (1993), ECHO (1994), AEROSOLE (1992-1995), RONALD (1995), TRAMP (1996), MIDAS (1999), ROMA (1999), ECOMA (2005), WADIS (2012)
- 1997: Co-Chairman of the ICMA Working Group „Layered Phenomena in the Mesopause Region“
- Since September 1, 1999: Professor of Physics at the Rostock University
- Since September 1, 1999: Director of the Leibniz Institute of Atmospheric Physics in Kühlungsborn, Germany (appr. 70 employees)
- 2002-2013 Member of the program advisory panel of the DLR (German space agency) for extra-terrestrial research
- 2004-2008 Member of the advisory panel „Atmosphere and Ocean Research“ of the German Research Foundation (DFG)
- 2004-2009 Chairman of the „Atmospheric Coupling“ theme of SCOSTEP's program CAWSES (Climate and Weather of the Sun-Earth System)
- 2005-2012 Chairman of the priority program CAWSES of the German Research Foundation (DFG). This program runs for 6 years and involves appr. 100 scientists and PhD students from 30 institutes (total support from DFG: appr. 10 Mio Euro).
- Since 2009: Chairman of ASAC (ALOMAR Science Advisory Committee)

- Since 2009: Member of the „Synthesis Team“ of CAWSES-II
- Since 2010: Chairman of the German SCOSTEP Committee
- Since 2011: Member of Science Steering Committee for ESA mission QB50 (Cubesats)
- Since 2011: Vice-president of SCOSTEP
- Since 2011: Member of the science and management committee of the EU COST action ES1005 on „Towards a more complete assessment of the impact of solar variability on the Earth’s climate“
- Since 2013: Coordinator of ROMIC (Role Of Middle atmosphere in Climate), a research program of BMBF
- Co-Editor of several scientific journals (*Geophysical Research Letters*, *Journal of Atmospheric and Solar Terrestrial Physics*, *Atmospheric Chemistry and Physics*)
- Author and coauthor of approximately 210 scientific publications (appr. 144 in peer reviewed journals) on atmospheric physics etc.
- Since Oct. 2013: Co-Chair of ROSMIC, a project within SCOSTEP’s new program VarSITI

Six selected publications:

F.-J. Lübken, *On the extraction of turbulent parameters from atmospheric density fluctuations*. J. Geophys. Res., 1992.

F.-J. Lübken et al., *First insitu temperature measurements at the Antarctic summer mesopause*. Geophys. Res. Lett., 1999.

F.-J. Lübken et al., *Maserati: A rocket borne tunable diode laser absorption spectrometer*, Appl. Optics, 1999.

F.-J. Lübken et al., *Seasonal and latitudinal variation of noctilucent cloud altitudes*, Geophys. Res. Lett., 2008.

F.-J. Lübken et al., *Stratospheric and solar cycle effects on long-term variability of mesospheric ice clouds*, J. Geophys. Res., 2009.

F.-J. Lübken et al., *First measurements of thermal tides in the summer mesopause region at Antarctic latitudes*, Geophys. Res. Lett., 2011.

Kühlungsborn, October 21, 2013

(Prof. Dr. F.-J. Lübken)