PD Dr. Christoph Kalicinsky

Curriculum Vitae

Education

2023 **Habilitation in physics**, *University of Wuppertal*.
Title of thesis: Ground-based OH(3,1) rotational temperature observations: A basis for the analysis of differently caused fluctuations of atmospheric temperatures: - solar cycle influences, long-term behaviour, planetary wave activity, and gravity wave activity -

2012 **Phd in physics**, *University of Wuppertal*, Germany.
Title of PhD thesis: CRISTA-NF observations in the vicinity of the polar vortex

2008–2012 **Phd candidate**, *University of Wuppertal*, Germany.

2002–2008 **Study of physics**, *University of Osnabrück*, Germany.
Diploma in physics
Title of Diploma thesis: Prezipierende magnetosphärische Teilchen und die Zuverlässigkeit von Satellitenmessungen

1992-2001 **Abitur (high school graduation)**, *Gymnasium Marianum, Meppen*, Germany.

Professional career

2012–Present **Scientific assistant (Postdoctoral researcher)**, *School of Mathematics and Natural Sciences, Institute for Atmospheric and Environmental Research: Atmospheric Physics*, University of Wuppertal, Germany.

Projects

2023–Present **ALEMOH** (Analysis of the Long-term Evolution of the Mesopause region derived from OH(3,1) rotational temperatures); **DFG project** with temporary position as principal investigator

2020–2023 **CHIARA** (CHaracterisation of the Internal vARiability of the Atmosphere) in the frame work of the **BMBF program ROMIC-II** (Role Of the Middle atmosphere In Climate – II)

2017–2020 **CRISTA-NF** observations of polar stratospheric clouds and trace gas volume mixing ratios in the Arctic winter stratosphere; **DFG project** with temporary position as principal investigator

2014–2017 **MALODY** (Middle Atmosphere LOng period DYnamics) in the frame work of the **BMBF program ROMIC** (Role Of the Middle atmosphere In Climate)

Research interests

Analysis of the **long-term evolution of the atmosphere** using temperature observations (e.g. OH(3,1) rotational temperatures)

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Detection of PSCs and discrimination of particle types using infrared limb emission measurements

Trace gas retrieval using infrared limb emission measurements

06/21–09/21 **3-month parental leave**.

06/17–08/17 **2-month parental leave**.

10/13–03/14 **5-month parental leave**.

2008–2012 **Scientific assistant (Phd candidate)**, *School of Mathematics and Natural Sciences, Institute for Atmospheric and Environmental Research: Atmospheric Physics*, University of Wuppertal, Germany.

Projects

2010 Participant of the airborne measurement campaign **RECONCILE** (Reconciliation of essential process parameters for an enhanced predictability of Arctic stratospheric ozone loss and its climate interactions)

Research interests

Trace gas retrieval using infrared limb emission measurements