

## Abgeschlossene Dr. Arbeiten Atmosphäre

### 2020

- *Dinger, Anna Solveig:*  
[Quantitative imaging of turbulent tracer dispersion in the atmospheric boundary layer with a tomographic setup of SO<sub>2</sub> cameras](#)

### 2019

- *Nasse, Jan-Markus:*  
[Halogens in the coastal boundary layer of Antarctica](#)

### 2018

- *Kleinschmitt, Christoph:*  
[Climate Engineering with Stratospheric Sulphate Aerosol: Development and Application of a Global Atmosphere-Aerosol Model for Studying Potential Efficacy and Impacts](#)

### 2016

- *Schmitt, Stefan:*  
[The Dynamics of Reactive Halogen Species at the Dead Sea Valley](#)

### 2015

- *Deutschmann, Tim:*  
On Modeling Elastic and Inelastic Polarized Radiation Transport in the Earth Atmosphere with Monte Carlo Methods, Universität Leipzig
- *Horbanski, Martin:*  
[Emissions and Distribution of Reactive Iodine from Seaweed in Coastal Regions - Investigations using new mobile and in-situ DOAS techniques](#)
- *Werner, Bodo:*  
[Spectroscopic UV/vis limb measurements from aboard the NASA Global Hawk: Implications for the photochemistry and budget of bromine in the tropical tropopause layer](#)
- *Zielcke, Johannes:*  
Observations of reactive bromine, iodine and chlorine species in the Arctic and Antarctic with Differential Optical Absorption Spectroscopy

### 2014

- *General, Stephan:*  
[Development of the Heidelberg Airborne Imaging DOAS Instrument \(HAIDI\) - A novel remote sensing device for the investigation of two- and three-dimensional trace](#)

## gas distributions in the troposphere

- *Großmann, Katja:*  
[Aircraft-borne DOAS limb observations of UV/visible absorbing trace gas species over Borneo: Implications for the photochemistry of iodine, volatile organic oxide degradation, and lightning-produced radicals](#)
- *Lampel, Johannes:*  
[Measurements of reactive trace gases in the marine boundary layer using novel DOAS methods](#)
- *Lübcke, Peter:*  
[Optical remote sensing measurements of bromine and sulphur emissions: Investigating their potential as tracers of volcanic activity](#)
- *Tobias Wolfgang Tröndle*  
[Development of a global electricity supply model and investigation of electricity supply by renewable energies with a focus on energy storage requirements for Europe](#)
- *Le Cao*  
[Numerical Investigation of Tropospheric Halogen Release and Ozone Depletion in the Polar Spring](#)

## **2013**

- *Hörmann, Christoph:*  
[Space-based Monitoring of Volcanic Emissions Using the GOME-2 Instrument](#)
- *Walter, David:*  
[DOAS spectroscopy onboard the CARIBIC passenger aircraft – trace gas concentration, and flux measurement of localized sources](#)
- *Steinke, Isabelle*  
[Ice nucleation properties of mineral dusts](#)
- *Tschritter, Jens*  
Untersuchung mariner Halogenemissionen im tropischen Atlantik
- *Thieser, Jim*  
Atmospheric Reactive Nitrogen Chemistry via Cavity Ringdown Spectroscopy - From short-lived compounds to reservoir species

## **2012**

- *Buxmann, Joëlle:*  
['Bromine and Chlorine Explosion' in a Simulated Atmosphere](#)

- *Holla, Robert:*  
[Reactive Halogen Species above Salt Lakes and Salt Pans](#)
- *Sihler, Holger:*  
[Halogen Activation in the Polar Troposphere](#)
- *Yilmaz, Selami:*  
[Retrieval of Atmospheric Aerosol and Trace Gas Vertical Profiles using Multi-Axis Differential Optical Absorption Spectroscopy](#)

## 2011

- *Vogel, Leif:*  
[Volcanic plumes: Evaluation of spectroscopic measurements, early detection, and bromine chemistry](#)

## 2010

- *Cheng, Liu:*  
[Evaluating the CO distributions from current atmospheric chemistry models using satellite observations from MOPITT and SCIAMACHY](#)
- *Pöhler, Denis:*  
[Determination of two dimensional trace gas distributions using tomographic LP-DOAS measurements in the city of Heidelberg, Germany](#)

## 2009

- *Grzegorski, Michael:*  
[Cloud retrieval from UV/VIS satellite instruments : \(SCIAMACHY and GOME\)](#)
- *Kern, Christoph:*  
[Spectroscopic measurements of volcanic gas emissions in the ultra-violet wavelength region](#)
- *Seitz, Katja:*  
[The Spatial Distribution of Reactive Halogen Species at the Irish West Coast](#)

## 2008

- *Merten, André:*  
[Neues Design von Langpfad-DOAS-Instrumenten basierend auf Faseroptiken und Anwendung der Untersuchung der urbanen Atmosphäre](#)
- *Sanghavi, Suniti Vinod:*  
[Model and algorithm development for the retrieval of atmospheric aerosol properties from nadir mode measurements by the DOAS instrument SCIAMACHY onboard Envisat](#)

- *Sinreich, Roman*  
Multi-Axis Differential Optical Absorption Spectroscopy Measurements in Polluted Environments.
- *Smoydzin Linda*  
Modelling Gas Phase and Aerosol Phase Chemistry in the Atmospheric Boundary Layer.

## 2007

- *Piot, Matthias*  
Modeling Halogen Chemistry during Ozone Depletion Events in Polar Spring: A Model Study.
- *Hartl, Andreas*  
Tomographic Reconstruction of 2-D Atmospheric Trace Gas Distributions from Active DOAS Measurements.
- *Dix Barbara*  
Spectroscopic Measurements of Atmospheric Trace Gases on Long-Distance Flights.

## 2006

- *Boßmeyer, Jens*  
Studies of Aldehydes in an Atmosphere Simulation Chamber Degradation of Higher Aldehydes by Nitrate Radicals.
- *Khokhar, Muhammad Fahim Akhtar*  
Retrieval and Interpretation of Tropospheric SO<sub>2</sub> from UV/VIS Satellites Instruments.
- *Hak, Claudia*  
Variabilität von Formaldehyd-Konzentrationen in der Verschützten Planetaren Grenzschicht: Messungen im Ballungsraum von MMilano.  
Referent: Prof. Dr. H. Fischer, Korreferent: Prof. Dr. U. Platt