Abgeschlossene Dr. Arbeiten Atmosphäre

2020

- Dinger, Anna Solveig:
  Quantitative imaging of turbulent tracer dispersion in the atmospheric boundary layer with a tomospheric setup of SO₂ 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\textsubscript{2} from UV/VIS Satellites Instruments.

- **Hak, Claudia**  
  Referent: Prof. Dr. H. Fischer, Korreferent: Prof. Dr. U. Platt