Abgeschlossene Dr.-Arbeiten Atmosphäre

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

- 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

Tröndle, Tobias Wolfgang:
Development of a global electricity supply model and investigation of electricity supply by renewable energies with a focus on energy storage requirements for Europe

Cao, Le:
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

Deutschmann, Tim:
On A Fully Spherical Three Dimensional Bilinearized Vector Radiation Transport Model With Rotational Raman Scattering

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

Prados-Román, Cristina: 
Aircraft-borne spectroscopic limb measurements of trace gases absorbing in the UV-A spectral range. Investigations of bromine monoxide in the Arctic troposphere. Erstgutachter: K. Pfeilsticker

Seitz, Katja: 
The Spatial Distribution of Reactive Halogen Species at the Irish West Coast

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

Ibrahim, Ossama: 

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

• Dix, Barbara:  
  Spectroscopic Measurements of Atmospheric Trace Gases on Long-Distance Flights.

• Hartl, Andreas:  
  Tomographic Reconstruction of 2-D Atmospheric Trace Gas Distributions from Active DOAS Measurements.

• Piot, Matthias:  
  Modeling Halogen Chemistry during Ozone Depletion Events in Polar Spring: A Model Study.

2006

• Boßmeyer, Jens:  
  Studies of Aldehydes in an Atmosphere Simulation Chamber Degradation of Higher Aldehydes by Nitrate Radicals.

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

• Khokhar, Muhammad Fahim Akhtar:  
  Retrieval and Interpretation of Tropospheric SO₂ from UV/VIS Satellites Instruments.