



## Agenda HALO-SPP Status Colloquium: 14 – 16 February 2018

### 14 February 2018:

Location: Felix-Klein-Hörsaal (Universität Leipzig, Augustusplatz 10, Paulinum, 5. Etage)

- |                      |   |
|----------------------|---|
| 13:30 – 13:50        | M. Wendisch: Welcome and introduction   |
| <b>13:50 – 15:20</b> | <b>Session 1: NARVAL &amp; NAWDEX</b><br>Presentations (20 min) and discussion (10 min)<br>Chair: M. Scheinert                |
| 13:50 – 14:20        | F. Ament: "NARVAL-II campaign overview"   |
| 14:20 – 14:50        | A. Schäfler: "NAWDEX campaign overview"   |
| 14:50 – 15:20        | L. Höppler: "Cloud top height and optical thickness retrieval with the hyperspectral imager specMACS at NARVAL II and NAWDEX" |
| 15:20 – 15:50        | <i>Coffee break</i>   |
| <b>15:50 – 16:50</b> | <b>Session 1: Continued</b><br>Presentations (20 min) and discussion (10 min)<br>Chair: F. Ament                              |
| 15:50 – 16:20        | K. Wolf: "Estimating droplet number concentrations by combining airborne remote sensing data"                                 |
| 16:20 – 16:50        | O. Sourdeval et al.: "Ice crystal number concentrations - assessment from satellite and HALO"                                 |
| <b>16:50 – 17:20</b> | <b>Session 2: Geophysical Missions</b><br>Presentation (20 min) and discussion (10 min)<br>Chair: M. Wendisch                 |
| 16:50 – 17:20        | M. Scheinert: „GEOHALO, ANTHALO“  |
| 18:30                | <i>Dinner, Restaurant Thüringer Hof (no host party)</i>   |



**15 February 2018:**

Location: Felix-Klein-Hörsaal (Universität Leipzig, Augustusplatz 10, Paulinum, 5. Etage)

- 09:00 – 10:30**      **Session 3: POLSTRACC, GW-LCYCLE; SALSA (PGS)**  
Presentations (20 min) and discussion (10 min)  
Chair: J. Curtius
- 09:00 – 09:30      H. Oelhaf: “PGS: introduction and overview”
- 09:30 – 10:00      A. Engel: “Seasonal differences in trace gas distributions of the LMS from HALO measurements”
- 10:00 – 10:30      W. Woiwode: “GLORIA observations in Arctic winter 2015/16: tropopause fold and lowermost stratosphere composition”
- 10:30 – 11:00      *Coffee break*
- 11:00 – 12:30**      **Session 4: WISE**  
Presentations (20 min) and discussion (10 min)  
Chair: H. Oelhaf
- 11:00 – 11:30      D. Kunkel: “Wave-driven Isentropic Exchange (WISE): objectives, meteorological situation and first results”
- 11:30 – 12:00      J. Ungermann: “Rossby wave breaking and STE during the WISE campaign - a GLORIA perspective”
- 12:00 – 12:30      A. Schäfler: “Ozone and water vapor in the UTLS from WALES during WISE”
- 12:30 – 13:30      *Lunch break (Soup and Sandwiches will be provided)*
- 13:30 – 15:00**      **Session 5: EMERGe**  
Presentations (20 min) and discussion (10 min)  
Chair: P. Hoor
- 13:30 – 14:00      L. Andrés Hernández: “EMERGe update: overview of the campaign in Europe”
- 14:00 – 14:30      H. Schlager: “Measurements of urban chemical emissions during EMERGe-EU”
- 14:30 – 15:00      J. Schneider/K. Kaiser: „Aerosol composition above European major population centers during EMERGe-EU - first results”
- 15:00 – 15:30**      **M. Wendisch, J. Curtius, M. Scheinert:**  
**Awards and introduction to poster session**
- 15:30 – 16:00      *Coffee break*
- 16:00 -**              **Poster session**



**16 February 2018**

Location: Seminar room 420 (Universität Leipzig, Seminargebäude)

- 09:00 – 10:30**      **Session 6: Missions planned for 2018 – 2020**  
 Presentations (20 min) and discussion (10 min)  
 Chair: J. Quaas
- 09:00 – 09:30      A. Fix: „CoMet: Carbon Dioxide and Methane Mission for HALO”
- 09:30 – 10:00      P. Hoor: “SOUTHTRAC - mission plan and objectives”
- 10:00 – 10:30      B. Stevens: “EUREC4A”
- 10:30 – 11:00      *Coffee break*
- 11:00 – 12:15**      **Session 6: Continued**  
 Presentations (20 min) and discussion (10 min)  
 Chair: M. Riese
- 11:00 – 11:15      J. Curtius: “CAFE – Brazil”
- 11:15 – 11:45      A. Wieser: "KITsonde the novel multi sensor dropsonde system for HALO"
- 11:45 – 12:15      M. Wendisch: “Prospects of HALO-SPP”

**Poster Session**

**Session 1: NARVAL & NAWDEX**

M. Jacob	Poster	"Retrieval of water vapour and liquid water column from the microwave and lidar perspective"
H. Konow	Poster	"Cloud regimes during NARVAL-II and their characteristics"
S. Pavicic, F. Gödde, L. Höppler, T. Kölling, M. Gutleben, M. Jacob, H. Konow, K. Wolf	Poster	"Multi-sensor cloud cover during NARVAL-II and NAWDEX"
S. Groß, F. Ewald, J. Delanoë, M. Wirth, M. Hagen, Q. Cazenave, J. Pelon, A Schäfler	Poster	Airborne lidar-radar measurements during NAWDEX in preparation for ESA's EarthCARE mission



### Session 3: PGS

M. Volk	Poster	"In situ measurements of CO <sub>2</sub> and various tracers with the new HAGAR-V instrument during PGS and WISE"	PGS/WISE
A. Marsing	Poster	"Two comprehensive perspectives on the UTLS at high latitudes during Arctic winter 2015/2016: chlorine partitioning and Arctic cirrus"	POLSTRACC
A. Engel	Poster	"Organic Bromine in the UTLS: contribution of VSLs"	WISE/PGS
H. Ziereis	Poster	"Redistribution of total reactive nitrogen in the lowermost stratosphere during the POLSTRACC winter 2015/16"	POLSTRACC
B. Buchholz, A. Afchine, F. Bubser, M. Krämer, V. Ebert	Poster	"HAI on HALO: A metrological approach to improve airborne atmospheric water vapor measurements"	PGS/WISE
F. Haenel	Poster	"Analysis of high-latitude cirrus cloud feedbacks on the trace gas composition of the UTLS – ICECREAM"	POLSTRACC

### Session 4: WISE

K. Pfeilsticker	Poster	"Mini-DOAS Measurements from HALO"	POLSTRACC, WISE
T. Kaluza	Poster	"Turbulent stratosphere troposphere exchange across regions of enhanced static stability during WISE"	WISE
P. Hoor/B. Kluschat	Poster	"In-situ observations of N <sub>2</sub> O and CO during WISE: Implications for transport pathways and ozone distribution"	WISE (tentative)
I. Bartolome Garcia	Poster	"Preliminary results on the observation of cirrus clouds with GLORIA during the WISE campaign"	WISE
B. Vogel	Poster	"Air mass origin in the lower stratosphere using HALO measurements and CLaMS simulations (AMOS)"	WISE/TACTS



## Session 5: EMeRGe

H. Schlager et al.	poster	"Measurements of tracer and precursor gases of secondary photooxidants and aerosols in pollution plumes of major European and Asian population centers (MEPOLL)"
E. Förster et al.	poster	"Overview of volatile organic compound (VOC) and ozone measurements during EMeRGe-EU"
M. Pöhlker et al.	poster	"Cloud Condensation Nuclei and Black Carbon measurements during EMeRGe-EU"
M. George et al.	poster	"Peroxy radical measurements during the EMeRGe campaign in Europe"
U. Platt et al.	poster	"HAIDI on HALO: Aircraft-based 2- and 3D Measurements of Trace Gas Emissions of Megacities"
K. Pfeilsticker/M. Rotemund et al.	poster	"Mini-DOAS measurements from HALO"
M. Krebsbach et al.	poster	"Data Overview and Progress of Measurements of Stable Carbon Isotope Ratios in VOC aboard HALO"

## Session 6: Future Missions

H. Bovensmann, S. Krautwurst	Poster, CoMet	HALO COMET - Methane observations in Upper Silesian Basin from the 2017 pre-survey activities
A. Fix	Poster, CoMet	"Recent Results and Performance Analyses of CHARM-F, the Airborne IPDA Lidar for Methane and Carbon Dioxide"
A. Afchine	Poster, ML-Cirrus	"Ice particle sampling from aircraft – influence of the probing position on the ice water content"
C. Jentsch et al.	Poster, Cirrus-HL	High and Low Volume Aerosol Sampler (Hera4Halo) for medium and high-altitude aircraft applications