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Objectives

- Central coordination and efficient administration of SPP 1294
- Steer collaboration between all participating scientists and research projects
- Support of logistic organization and realization of HALO missions
- Managing and controlling of DFG share of mission costs and of further DFG funding to SPP 1294
- Scientific and financial reporting to DFG

Major Areas of HALO-based Research

- [A] Sources, Properties and Processing of Aerosol Particles
- [B] Formation, Evolution and Radiative Effects of Clouds and Precipitation
- [C] Transport and Dynamics in the Troposphere and Lower Stratosphere
- [D] Transport and Transformation of Chemical Composition: Multiphase and Photochemical Processing
- [E] Atmospheric Coupling Processes
- [F] Geodesy and Geophysics

Overview of the Work Packages

WP 1: Management and Coordination

- Collaborative efforts of coordination team to lead the SPP 294 in all aspects
- Close communication with and report to DFG

WP 2: Communication and Exchange

- Annual status workshops of SPP 1294
- Topical workshops on specific scientific and technical issues

WP 3: Training

- Summer school on airborne measurement techniques
- Awards for best papers and conference contributions
- Travel and support program for young scientists
- Promotion through EUFAR program

WP 4: Promotion of gender equality

- Promoting equal access opportunities for women and man in project employment
- Encouraging female scientists to take over leadership positions, supporting through career programs and reconciliation of family and work

WP 5: Outreach

- Present research activities to the public by lectures, talks, press releases, cooperation with schools, social media
- Organizing scientific events of high visibility like special sessions at conferences

WP 6: Web page

- www.halo-spp.de

WP 7: Campaign Coordination

- Supporting participation of university groups in HALO missions
- Managing the DFG share of mission costs

Schedule of HALO Missions for 2016-2018

Year	HALO Mission	Area	Principal Investigator
2016	NARVAL 2.0 Next Generation Remote Sensing for Validation Studies	B	B. Stevens (MPI-M Hamburg) F. Ament (Universität Hamburg)
	NAWDEX North Atlantic Waveguide and Downstream Impact Experiment	C	A. Schäfler (DLR-IPA, Oberpfaffenhofen) G. Craig (LMU München)
2017	CoMet Carbon Dioxide and Methane Mission for HALO	D	A. Fix, G. Ehret (DLR-IPA, Oberpfaffenhofen)
	EMeRGe-EU Effect of Megacities on the Transport and Transformation of Pollutants on the Regional and Global Scale	C, D	J. P. Burrows A. D. Andrés Hernández (Universität Bremen)
	WISE Wave Driven Isentropic Exchange	B, C	M. Riese (FZ Jülich) P. Hoor (JGU Mainz)
	ANTHALO-BI Feasibility Study for Geoscientific and Atmospheric Investigation of Antarctica using HALO (ANTHALO Blue Ice)	E, F	M. Scheinert (TU Dresden)
2018	EMeRGe-ASIA Effect of Megacities on the Transport and Transformation of Pollutants on the Regional and Global Scale	C, D	J. P. Burrows, M. D. Andrés Hernández (Universität Bremen)
	CAFE Convection African Field Experiment	C, D	J. Lelieveld, H. Harder, H. Fischer (MPI-C, Mainz)

National and International Cooperation

- Active involvement in global and European programs such as IGBP (International Geosphere-Biosphere Program) and WCRP (World Climate Research Program)
- Participation and integration into umbrella programs and international research initiatives such as EUFAR (European Facility for Airborne Research)
- Invitation of internationally recognized experts
- Cooperation and scientific exchange with similar initiative(s), especially with NSF/NCAR High-performance Instrumented Airborne Platform for Environmental Research (HIPAR)



Photo: DLR, Flugexperimente