

Casino

Lunch Break

13:30 - 14:30

	Building:	Programme on Monday – 10 July, 2017
	Room	
08:30 - 10:00	135	Registration desk open
10:00 – 10:15	135: 103-107	Conference opening ceremony
		Plenary session 1A Session Chair: Phil Brown
10:15 – 10:45	135: 103-107	Thorsten Fehr (ESA) "Enhanced airborne observations and science through collaboration: an overview of ESA and NASA joint airborne activities from 2010 to the present and future"
10:45 – 11:15	135: 103-107	Hal Maring (NASA) "NASA Earth Science Division Utilization of Airbone Platforms"
11:15 – 11:30	135: 103-107	Albrecht von Bargen "The role of in-situ infra-structure for satellite remote sensing from German National perspective"
11:30 – 12:00	135	Coffee/ Tea Break
12100		
		Plenary session 1B Session Chair: Linnea Avallone
12:00 – 12:15	135: 103-107	Conference Welcome - Rolf Henke (DLR)
12:15 – 12:30	135: 103-107	Mengistu Wolde "An Airborne Demonstrator Campaign for WIVERN Satellite Concept"
12:30 – 13:00	135: 103-107	Steve Arnold (Leeds University) "Improving understanding of Arctic air pollution and its impacts through airborne observations"
13:00 – 13:30	135: 103-107	Ulrich Schumann (DLR) "Improving Static Pressure and Turbulence Measurements with Numerical Weather Prediction and Aircraft Dynamics Models"

	Building:	Programme on Monday – 10 July, 2017
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		Plenary session 1C Session Chair: Jeff Stith
14:30 – 15:00	135:	Sebastian Schmidt (University of Colorado)
	103-107	"Understanding atmosphere / radiation / surface interactions in the Arctic – the role of past and future aircraft experiments"
		unclas/ polar
15:00 – 15:15	135:	Joerg Schmidt
	103-107	"The High Altitude and Long Range Research Aircraft (HALO): Completed and Planned Campaigns, Research Fields"
15:15 – 15:30	135:	Andreas Herber
	103-107	"Airborne campaigns with AWI aircraft POLAR 5 & POLAR 6 during MPSAiC"
15:30 – 16:00	135	Coffee Break
		Plenary session 1D Session Chair: Christiane Voigt
16:00 – 16:30	135:	Greg McFarquhar (University of Illinois)
	103-107	"Use of In-Situ Observations for Quantifying Ice Cloud Microphysical Properties and Processes, and their Uncertainties"
16:30 – 17:00	135:	Hans Schlager (DLR)
	103-107	"Ten years of high-accuracy airborne sulfur dioxide measurements in the UTLS: Measurement technique, results and outlook"
		clouds
17:00 – 17:15	135:	Evelyn Jaekel
	103-107	"Quantification of uncertainties on cloud radiative forcing caused by surface heterogeneity"
17:15 – 17:30	135:	Jeff French
	103-107	"Observations from the UWKA Research Aircraft to evaluate the impact of cloud seeding in wintertime orographic clouds"
		gas/ aerosol
17:30 – 17:45	135:	Armin Wisthaler
	103-107	"The state of the art in airborne organic trace gas detection by online chemical ionization mass spectrometry (CIMS)"
17:45 – 18:00	135:	Bruce Anderson
	103-107	"NASA Airborne Measurement of Aircraft Emissions and Contrails"
18:00	End Day 1	
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18:15 – 18:45	Tour	Galileo Control Center (GCC), Microwaves and Radar Institute (HR)



	Building:	Programme on Tuesday – 11 July, 2017
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09:00 – 10:00	135	Registration desk open
		Plenary session 2A Session Chair: Ils Reusen
10:00 – 10:30	135:	Jose Dematte
	103-107	"From Ground to Space Platforms with Multi to Hyperspectral Soll Sensing sensors and its Important relationship with Spectral Libraries"
10:30 – 11:00	135:	Claudia Giardino
	103-107	"Airborne imaging spectrometry of inland and coastal waters; from techniques to applications"
11:00 – 11:15	135:	Yunusali Pulpadan
	103-107	"Bathymetric Mapping in Lake and Coastal regions using Sentinel 2 images"
11:15 – 11:30	135:	Sumaira Zafar
	103-107	"Above-ground biomass estimation of mangrove forest using WORLDVIEW-II data"
11:30 – 12:00	135	Coffee/ Tea Break
		Plenary session 2B Session Chair: Andrew Skidmore
12:00 – 12:30	135:	Nicholas Coops
12.00	103-107	"Use of Airborne Technologies to Increase our Understanding of Vegetation Structure and Function"
12:30 - 13:00	135:	Ruben Van De Kerchove (Vito)
	103-107	"Airborne imaging spectroscopy for mapping and impact assesment of invasive species"
13:00 – 13:30	135:	Zbynek Malenowsky
	103-107	"Upscaling in air- and space-borne imaging spectroscopy of vegetation using radiative transfer modelling"
13:30 – 14:30	Casino	Lunch Break

	Building: Room	Programme on Tuesday – 11 July, 2017						
		Session 2C1 clouds/ dynamics Session Chair: Manfred Wendisch/ Greg McFarquhar		Session 2C2 soils/ minerals Session Chair: Eyal Ben-Dor				
14:30 – 14:45	135: 103-107	Jeffrey Stith "Small ice and cloud dropslets: What holography can tell us about clouds and precipitation in future airborne science campaigns"	124: 211-212	Sabine Chabrillat "Digital soil mapping from hyperspectral imagery: Potential and challenges"				
14:45 – 15:00	135: 103-107	Christiane Voigt "Ice clouds in the Arctic-Recent observations of Arctic stratospheric ice clouds and plans for a cirrus mission in high latitudes with HALO"	124: 211-212	Eyal Ben-Dor "Spectral Imaging of Soils: past present and future"				
15:00 – 15:15	135: 103-107	Holger Voemel "Targeted observations using the NCAR Dropsonde"	124: 211-212	Martin Chamberland "Data acquisition and processing to produce mineral maps using airborne TIR-HSI"				
15:15 – 15:30	135: 103-107	Larry Oolman "Exploring the Marine Boundary Layer with the Wyoming Multi function Airborne Raman Lidar (MARLi)"	124: 211-212	Thomas Schmid "Soil erosion and land degradation mapping with hyperspectral data"				
15:30 – 16:00	135	Coffee/ Tea Break	124	Coffee/ Tea Break				
16:00 – 17:00	135	Poster Session						
		1 03(01 303)011						
17:00	End Day 2							
17:15 – 17:45	Tour	Galileo Control Center (GCC), Microwaves and Radar Institut	e (HR), Germa	in Space Operations Center (GSOC)				

Invited speakers are printed in red.



	Building: Room	Programme on Wednesday – 12 July, 2017
09:00 – 10:00	135	Registration desk open

		Session 3A1 Airborne campaign organisation and operation		Session 3A2
		Session Chair:		Session Chair: Bruce Doddridge/ other
10:00 – 10:15	135: 103-107	Aircraft Fleet Overview – DLR	124: 211-212	Silke Groß "Combined airborne and A-Traing measurements in preparation for future EarthCARE mission"
10:15 – 10:30			124: 211-212	Jorgen Jensen "The airborne 1-D and 3-D Laser Air Motion System (LAMS): Uses for state parameter, wind measurements, and future possibilities"
10:30 – 10:45	135: 103-107	Aircraft Fleet Overview - FAAM	124: 211-212	Wolfgang Junkerman "What can we learn from airborne measurements of ultrafine particles?"
10:45 – 11:00			124: 211-212	Chandrashekhar Deshpande "Airborne measurements over Bay of Bengal revealing new particle formation process"
11:00 – 11:15	135: 103-107	Aircraft Fleet Overview – US (joint NASA/NCAR)	124: 211-212	Florian Ewald "Using Coordinated Aircraft to Study a Synergistic Retrieval of Ice Cloud Properties at Different Wavelengths"
11:15 – 11:30			124: 211-212	Alexandra Tsekeri "EUFAR campaigns in the ACTRIS framework"
11:30 – 12:00	135	Coffee/ Tea Break	124	Coffee/ Tea Break

	Building: Room	Programme on Wednesday – 12 July, 2017						
		Session 3B1 Airborne campaign organisation and operations Session Chair:		Session 3B2 Instruments/ Data Session Chair:				
12:00 – 12:30	12:00 – 12:30 135: 10 Years of Science Support with the Gulfstream GV, HIAPER: A Retrospective (L. Avallone/ NSF)		124: 211-212	Vanda Grubisic "New Airborne Instrumentation within the Context of the US- European Collaboration on Airborne Science"				
12:30 – 12:45	- 12:45 135: Global challenges of dropsonde operations (P. Romashkin/ NCAR)		124: 211-212	Samuel Haimov "A Novel Airborne Ka-band Precipitation Radar: enhancing the remote sensing capability of UWKA Research Aircraft"				
12:45 – 13:00			124: 211-212	Frank Flocke "Testing a new reactive gas inlet system for the NSF/ NCAR GV large wing pod"				
13:00 – 13:15	135: 103-107	NSF Antarctic Operations & Phoenix (virtual) (Gary James/ NSF)	124: 211-212	Andrew Pazmany "Airborne Dual-Polarized Mircowave Radiometers for Vegetation and Soil Moisture Research"				
13:15 – 13:30			124: 211-212	Kate Szpek "Extinction, Scattering and Absorption of Light for Airborne Aerosol Research, an introduction to the ESCALABAR instrument"				
13:30 – 14:30	Casino	Lunch Break						
	Cusino	zanen break						
14:30 – 17:00	Airport apron	Aircraft Exhibition						
17:00	End Day 3							
17:00	Bus transfer to I	o location of conference dinner (starts at "Bus" inside DLR)						
18:00 – 22:00	Restaurant SeePost am Ammersee	Conference Dinner						
22:00	Bus transport ba	ack						

Invited speakers are printed in red.



	Building: Room	Programme on Thursday – 13 J	uly, 2017					
09:00 - 10:00	135	Registration desk open						
		Session 4A1 Airborne campaign organisation and operation		Session 4A2 Instruments/ Data		Session 4A3 Platforms		
		Session Chair:		Session Chair: Clara Lee		Session Chair:		
10:00 – 10:30	120: 003	NPW Follow-up Discussions (Facilitator: C. Wolff/NCAR)	135: 103-107	Gao Chen "Airborne Data Management for NASA: Challenges and User-driven Strategies"	124: 211-212	Matt Fladeland "An overview of new technologies driving innovation in the Airborne Science community"		
10:30 – 10:45			135: 103-107	Graeme Nott "Towards a community-driven upgrade to PMS canister connectors""	124: 211-212	Steffen Schäufele "Airborne Research with the Zeppelin NT Airship"		
10:45 – 11:00			135: 103-107	Reno Choi "A Compact Troposheric Observation Instrument for High Altitude Pseudo- Satellite"	124: 211-212	Jan Hanuš "Flying Laboratory of Imaging Spectroscopy at CzechGlobe"		
11:00 – 11:15			135: 103-107	James Moore "The next Generation of Airborne Polarimetric Doppler Weather Radar; NCAR/ EOL Airborne Phased Array Radar (APAR) Development"	124: 211-212	Victor Petrov "Aircraft-laboratory Yak-42D < <roshydromet>> for enviroment research and weather modification"</roshydromet>		
11:15 – 11:30			135: 103-107	Jörg Brauchle "MACS-Modular Airborne Camera System customized to specific carriers, enviroments and scientific challenges"	124: 211-212	Thomas Rausch "Aspects on the development of future scenarios for airborne research platforms"		
11:30 – 12:00	120	Coffee/ Tea Break	135	Coffee/ Tea Break	124	Coffee/ Tea Break		

	Building: Room	Programme on Thursday – 13 J	luly, 2017			
		Session 4B1 Airborne campaign organisation and operations Session Chair:		Session 4B2 Instruments/ Data Session Chair:		Session 4B3 Platforms Session Chair: Andreas Minikin/ other
12:00 – 12:15	120: 003	Diplomatic and Operational Challenges (FAAM, DLR, NASA)	135: 103-107	Greg Stossmeister "The NCARI EOL Field Catalog: A tool for flight planning, real-time decision-making	124: 211-212	William Oxford "Bio-Systems: Airborne Hyperspectral Remote Sensing Capability"
12:15 – 12:30				and post mission review"	124: 211-212	Konrad Bärfuss "Callenges of meteorological research with manned and unmanned airborne systems"
12:30 – 12:45			135: 103-107	Valéry Catoire "SPECIES: a multi-channel OF-EAS infrared laser spectrometer for in situ airborne measurements"	124: 211-212	Yannick Boucher "TERRISCOPE: A new platform for research in optical remote sensing from manned airplanes and UAVs"
12:45 – 13:00			135: 103-107	Martin Hagen "The Microwave Package for Cloud and Preciption Research with the HALO Aircraft"	124: 211-212	David Plummer "Observational capabilities of the University of Wyoming King Air research aircraft facility"
13:00 – 13:15	120: 003	International Science and Diplomacy (Hal Maring/ NASA)	135: 103-107	Terry Hock "Overview of the NCAR AVAPS* Dropsonde Systems New Capabilities"	124: 211-212	Grant Petty "A low-cost, flexible platform for airborne enviromental measurements"
13:15 – 13:30			135: 103-107	Bruno Neininger "An airborne wind LIDAR for METAIR- DIMO"	124: 211-212	Andreas Minikin "HALO as a platform for atmospheric and geophysical research"
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13:30 – 14:30	Casino	Lunch Break				
14:30 – 15:30	135: 103-107	Plenary Session 4C				
15:30 – 16:00	135	Coffee Break				
16:00 – 16:30	135	Conference closing session				
16:30	End Day 4					