



7th COPS Workshop 27-29 October 2008

Collège Doctoral Européen
46 Boulevard de la Victoire,
67000 Strasbourg, France

http://edc.ustrasbg.fr/edc/residence/acces_eng.html

Programme Overview

	Mon, 27 October	Tue, 28 October	Wed, 29 October
08 :30 – 09 :00		Moisture/Aerosol /Cloud	Data synergies Future plans
09 :00 – 09 :30			
09 :30 – 10 :00			
10 :00 – 10 :30		Coffee	Coffee
10 :30 – 11 :00		Poster	WGs reports + Final Discussion
11 :00 – 11 :30	Registration	Poster	
11 :30 – 12 :00		Cloud/Precipitation	
12 :00 – 12 :30			
12 :30 – 13 :00	Lunch	Lunch	Lunch
13 :00 – 13 :30			
13 :30 – 14 :00	Opening		
14 :00 – 14 :30		Data assimilation	ISSC Meeting
14 :30 – 15 :00	Convection Initiation	Model Evaluation	
15 :00 – 15 :30		Poster	
15 :30 – 16 :00	Coffee	Coffee	
16 :00 – 16 :30	Poster	Poster	
16 :30 – 17 :00	Poster		
17 :00 – 17 :30	Convection Initiation	WGs meetings	
17 :30 – 18 :00			
18 :00 – 18 :30			
18 :30 – 19 :00			
19 :00 – 19 :30	Banquet		
19 :30 – 20 :00			

Monday 27 October

13:45 – 14:00	Welcome address : V. Wulfmeyer / WWRP / Organizing Committee
14:00 – 15:30	Session 1 : Convection Initiation Chair: Hans Volkert
14:00 – 14:15	Beyond case studies: mechanisms initiating convection during the COPS experiment. Christoph Kottmeier et al., IMCR, KIT, Germany
14:15 – 14:30	Observations of shallow convection over the Black Forest during COPS Steven Mobbs et al., Univ. of Leeds, UK
14:30 - 14:45	Triggering of convection by boundary-layer processes during IOP4b Heike Konow et al., IMCR, KIT, Germany
14:45 - 15:00	The Impact of Convergence Zones on the Initiation of Deep Convection during IOP8b Bianca Adler et al., IMCR, KIT, Germany
15:00 - 15:15	Observations & High Resolution Modelling of decoupled surface flows during IOP9c of the COPS field experiment Victoria Smith et al., Univ; of Leeds, UK
15:15 - 15:30	Preliminary Observations from the Doppler on Wheels Radars during COPS 2007 Lindsay Bennet et al., Univ. of Leeds, UK
15:30 - 17:00	Coffee Break and Poster Session A
17:00 – 18:00	Session 2: Convection Initiation Chair: Christoph Kottmeier
17:00 – 17:15	Representativity study of surface observations over complex topography Reinhold Steinacker at al., Univ. of Vienna, Austria
17:15 – 17:30	Investigation of Moisture Flux Divergence from COPS Mesonet data Felizitas Zeitz et al., Univ. of Vienna, Austria
17:30 – 17:45	Soil moisture network during COPS: Comparison to model values and impact on convective indices Christian Barthlott et al., IMCR, KIT, Germany
17:45 – 18:00	Generation of free convection in a valley due to changes of the local circulation system Rafael Eigenmann et al., Univ. of Bayreuth, Germany
19:00 – 21:00	Cocktail and Buffet

Tuesday 28 October

8:30 – 10:00	Session 3 : From Moisture to Clouds Chair: Reinhold Steinacker
8:30 – 8:45	Airborne Water Vapour and Wind Lidars to Estimate Latent Heat Fluxes over Complex Terrain Christoph Kiemle et al., DLR, Germany
8:45 – 9:00	GPS tomography validation using radiosoundings, ground-based and airborne lidar Cédric Champollion et al., Geosciences Montpellier, France
9:00 – 9:15	Overview of measurements performed by the Raman Lidar BASIL in the frame of the Convective and Orographically-induced Precipitation Study Paolo Di Girolamo et al., Univ. of Basilicata, Italy
9:15 – 9:30	Numerical Simulation of a Saharan Dust Event and its Radiative Impact on the Atmosphere in the COPS Domain Bernhard Vogel et al., IMCR, KIT, Germany
9:30 – 9:45	Air Pollution and Convection - The Lagrangian Experiment of the TRACKS Campaign Walburga Wimls-Grabel et al., IMCR, KIT, Germany
9:45 – 10:00	Observed and modelled long-term cloud statistics for the Murg valley Kerstin Ebell et al., Univ. of Cologne, Germany
10:00 – 11:30	Coffee Break and Poster Session B
11:30 – 12:30	Session 4 : From Clouds to Precipitation Chair: Steve Mobbs
11:30 – 11:45	Preliminary analysis of cloud microphysics measurements made with the BAE 146 aircraft Alan Blyth et al., Univ of Leeds, UK
11:45 – 12:00	Evaluation of particle shape and orientation within ice clouds using the S-band Doppler Polarimetric radar Tara supersite H Yann Dufournet et al., Univ of Delt, The Netherlands
12:00 – 12:15	Influence of the Wind Profile on the Life Cycle of Convective Precipitation Martin Hagen et al., DLR, Germany
12:15 – 12:30	Estimation and characterisation of precipitations with an X-band radar in the framework of COPS Frédéric Tridon et al., LaMP, Clermont-Ferrand, France

12:30 – 14:00	Lunch Break
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14:00 – 15:00	Session 5: Data assimilation / Model Evaluation Chair: Heini Wernli
14:00 – 14:15	Progress in the assimilation of ground-based GPS observations with the MM5 4D-Var system Florian Zus et al., Univ. of Hohenheim, Germany
14:15 – 14:30	Assimilation of ground-based GPS and radar data in the AROME model for IOP9 Olivier Caumont et al., Météo-France, Toulouse, France
14:30 – 14:45	QPF uncertainty of Radar Rainfall Data Assimilation Christian Keil et al., DLR, Germany
14:45 – 15:00	Fuzzy verification of precipitation forecasts during the DOP - on the benefit of high resolution models with explicit convection Tanja Weusthoff et al., MeteoSchweiz, Switzerland

15:00 – 16:30	Coffee Break and Poster Session C
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16:30 – 18:00	Session 6: Working Groups meetings Chair: Andreas Behrendt
	<ul style="list-style-type: none"> - Convection Initiation - Aerosol and Cloud Microphysics - Precipitation Processes and Life Cycle - Data Assimilation and Predictability - Data analysis of energy balance stations

Wednesday 29 October

8:30 -10:00	Session 7 : Data synergies and future plan Chair: Paolo Di Girolamo
8:30 – 8:45	Ideas to use the Synergy of COPS Remote Sensing Data to Analyze Convection Initiation Processes in Complex Terrain Andreas Behrendt et al., Univ. of Hohenheim, Germany
8:45 – 9:00	Water vapour intercomparison effort in the frame of the Convective and Orographically-induced Precipitation Study Rohini Bhawar et al., Univ. of Basilicata, Italy
9:00 – 9:15	Using microwave radiometer and Doppler lidar data to estimate latent heat Chris Collier et al., Univ. of Salford, UK
9:15 – 9:30	The GTS and non-GTS data set for COPS and MAP D-PHASE Theresa Gorgas et al., Univ. Of Vienna, Austria
9:30 – 9:45	Quality controlled data base of the cops surface energy balance network Thomas Foken et al., Univ of Bayreuth, Germany
9:45 – 10:00	One Year After COPS: The Paramount Scientific Issues Volker Wulfmeyer et al., Univ. of Hohenheim, Germany
10:00 – 10:30	Coffee Break
10:30 – 12:30	Session 8 : Working group reports / Final discussion Chair: Volker Wulfmeyer
12:30 – 14:00	Lunch Break
14:00 – 16:00	ISC meeting

Monday 27 October, 15:30 – 17:00 : Poster Session A

Convection Initiation	
A1	Convection-permitting COSMO model simulations for COPS IOP 8b (15 July 2007) Bastian Kern et al., Univ of Mainz, Germany
A2	Convergence zones during COPS IOP 8b: Results of COSMO simulations with 2.8 and 1 km grid resolution Christian Barthlott et al., IMCR, KIT, Germany
A3	The combination of GPS IWV column retrievals with radiosonde data for a better representation of initiation of convection Samiro Khodayar et al, IMCR, KIT, Germany
A4	Idealized simulations of topography-induced convection in the COPS area J. Stadler et al., Univ. of Trier, Germany
A5	WRF model runs of 15 July and 12 August Sarah-Jane Lock et al., Univ. of Leeds, UK
A6	Complex valley flows and their impact on water vapor transport in pre-convective and convective environments: a case study Cyrille Flamant et al., IPSL, France
A7	Raman Lidar observations of a MCS in the frame of the Convective and Orographically-induced Precipitation Study Rohini Bhawar et al., Univ. of Basilicata, Italy
A8	Driving processes for convection initiation over complex terrain: measurements and simulations of IOP9c Ulrich Corsmeier et al., IMCR, KIT, Germany
Surface processes	
A9	Satellite-derived surface radiation: Validation with COPS observations and data set for model evaluation Jörg Trentmann et al., DWD, Germany
A10	Soil Moisture Measurements during COPS: Spatial and Temporal Variability Liane Krause et al., IMCR, KIT, Germany
A11	Streamflow data assimilation for root zone soil moisture analysis Kirsten Warrach-Saga et al., Univ. of Hohenheim, Germany
A12	Analysis of the regional water balance for COPS IOPs using COSMO model simulations Romi Schnitter et al., IMCR, KIT, Germany

Tuesday 28 October, 10:00 – 11:30 : Poster Session B

PBL / Moisture analysis	
B1	Determination of convective boundary layer height from Doppler lidar measurements in complex terrain Katja Träummer et al., IMCR, KIT, Germany
B2	Atmospheric lids: what exactly are they? Andrew Russel et al., Univ. of Manchester, UK
B3	Profiles of vertical velocity skewness as measured by Doppler lidar Jenny Davis et al., Univ. of Salford, UK
B4	Comparison of Raman lidar and GPS measurements at the COPS Vosges supersite Pierre Bosser et al., IGN, France
B5	GPS Tomography using ZTD and STD on COPS campaign. Mathieu Reverdy et al., LaMP, Clermont-Ferrand, France
B6	High-resolution measurements of water-vapor and aerosol fields with UHOH scanning DIAL system at Hornisgrinde Max Schiller et al., Univ. of Hohenheim, Germany
B7	Progress in the Analysis of the Dataset Collected with A Multi-Wavelength Raman Lidar and A Doppler Lidar of the Leibniz Institute for Tropospheric Research Leipzig at Supersite M Ronny Engelmann et al., IFTR, Leibnitz, Germany
Aerosols and Clouds	
B8	In-situ aerosol and cloud properties measured onboard the BAe146 aircraft and at the Supersite Hornisgrinde during COPS-UK Hazel Jones et al., Univ. of Manchester, UK
B9	Numerical study of convective precipitation using a high resolved 3D cloud model with detailed microphysics during the COPS Field Campaign Céline Planche et al., LaMP, Clermont-Ferrand, France
B10	Long-term evaluation of NWP water vapor and cloud forecasts: How does the COPS period relate to the GOP data set? Christoph Selbach et al., Univ. of Cologne, Germany
B11	Observation of a Saharan dust outbreak on 1-2 August 2007: determination of size and microphysical particle parameters Paolo Digriolamo et al., Univ. of Basilicata, Italy
B12	Scavenging of trace gases by deep convection: Sensitivity studies with a cloud system resolving model L. Smoydzin et al., Univ. of Mainz, Germany
B13	Lidar and Radar Measurements of the melting layer in the frame of the Convective and Orographically-induced Precipitation Study Donato Summa et al., Univ. of Basilicata, Italy

Tuesday 28 October, 15:00 – 16:30 : Poster Session C

Clouds and Precipitation	
C1	Current status and first results of the SPP1167 project COPS-GRID Hans-Stefan Bauer et al., Univ. of Hohenheim, Germany
C2	Model Evaluation and Predictability Studies Using the COPS/D-PHASE Dataset Volker Wulfmeyer et al., Univ. of Hohenheim, Germany
C3	Meso-NH forecasts during COPS: Assessment of cloud cover and precipitation Jean-Pierre Chaboureau et al., LA, Toulouse, France
C4	Combined visualizations of MSG multi-channel data, DWD radar composite data and GPS integrated water vapour data for process studies within COPS Fumiko Aoshima et al., Univ. of Hohenheim, Germany
C5	Reliability of precipitation measurements Stefan Schneider et al., Univ. of Vienna, Austria
C6	Investigation of precipitation events with vertically pointing UHOH X-band radar at Hornisgrinde during COPS Sandi Pal et al., Univ. of Hohenheim, Germany
C7	The three months of COPS-2007 as seen by geostationary satellites Hans Volkert et al., DLR, Germany
New instruments / New technologies	
C8	The new airborne disdrometer 'Flying Parsivel' Holger Mahlke et al., IMCR, KIT, Germany
C9	Novel observations for a better description of atmospheric water vapour and cloud liquid with microwave radiometry S. Kneifel et al., Univ. of Cologne, Germany
C10	Measurement highlights of temperature and aerosol fields with rotational Raman lidar at Hornisgrinde Markus Radlach et al., Univ. of Hohenheim, Germany
C11	Combining remote-sensing instruments at work during the COPS Campaign in order to provide vertical profiles of temperature, humidity and wind Lienor Feuga et al., Météo-France, France
Future Modelling plans	
C12	Status of WRF and WRF 4DVAR and its application within the SPP1167 project COPS/GRID Thomas Schwitalla et al., Univ. of Hohenheim, Germany
C13	Environment Canada's experimental numerical prediction system for the 2010 Vancouver Winter Olympic Games Stéphane Bélair et al., Environment Canada, Dorval, Canada