

## Aerosols, Clouds, Precipitation and Climate (ACPC)

### Workshop, 13 – 15 April 2016, University of Oxford

Programme (as of 24 March 2016)



#### Wednesday, 13 April 2016

- 12:30 pm Coffee  
Opening session (Chair: Johannes Quaas)
- 1:00 pm Opening and organisational remarks (Philip Stier, Danny Rosenfeld)
- 1:30 pm ACPC in GEWEX and iLEAPS (Ann Fridlind, Hans-Christen Hansson)
- 2:00 pm Cross-panel GEWEX initiative aerosols-clouds-precipitation (Sue van den Heever, Philip Stier)
- 2:20 pm PDRMIP initiative (Piers Forster / Gunnar Myhre)
- 2:30 pm Overview shallow group activities (Rob Wood)
- 3:00 pm Overview deep group activities (Ann Fridlind)
- 3:30 pm Coffee
- Joint ACPC – ESA CCI satellite session (Chair: Ralph Kahn)
- 4:00 pm ACI studies: New opportunities from CCI (Thomas Popp, Rainer Hollmann)
- 4:40 pm Contributed talks on satellite-based aerosol-cloud-precipitation research (10 min per talk)
- Lars Klüser (Tropical convection and dust)
- David Neubauer (use of ATSR)
- Pekka Kolmonen (use of ADV)
- Nick Schutgens (sampling)
- Matt Christensen (ideas based on ship track analysis)
- Matt Christensen (Earth radiation budget)
- Cintia Carbajal-Henken (AATSR-MERIS synergy retrievals)
- Ed Gryspeerd (overview on new developments on statistical relationships)
- 6:00 pm Discussion on ACPC – satellite (Chair: Rainer Hollmann; Notes: Johannes Mülmenstädt)
- 7:00 pm Pub/dinner  
(ACPC SSC dinner)

#### Thursday, 14 April 2016

- 9:00 am Contributions to deep cloud activities (10+5 min per group; Chair: Minghuai Wang)
- Daniel Rosenfeld (Date selection from satellite and other observations)
- Jeff Snyder and Alexander Ryzhkov (NEXRAD dual-polarimetric field analysis)
- Alexander Ryzhkov and Pengfei Zhang (NEXRAD rain DSD parameter retrieval analysis)
- Ann Fridlind/Marcus Van Lier-Walqui (NEXRAD dual-pol and LMA analysis & NU-WRF simulation of June 8th case with 500-m resolution)
- Ann Fridlind/Jiwen Fan (WRF simulation of June 19th case with 500-m resolution)
- Ann Fridlind/Corinna Hoose (COSMO simulations of June 19th case)
- Sue van den Heever (RAMS preliminary simulations with 500-m resolution)
- 11:00 am Coffee

- 11:30 am Ideas on deep clouds (10 min per talk; Chair: Philip Stier)  
 Annette Miltenberger (Ideas from the COPE project)  
 Paul Field (Ideas based on Aquaplanet approaches)  
 Andy Andreae (ACRIDICON, GoAmazon)  
 Danny Rosenfeld (related simulations)
- 12:15 pm Discussion on next steps (focus deep clouds; Chair: Ann Fridlind; Notes: Zak Kipling)  
 1.30 pm Lunch
- 3:00 pm Contributions to shallow cloud activities (10+5 min per group; Chair: Sue van den Heever)  
 Dan Grosvenor (Aerosol-sc interactions with the UKMO UM)  
 Dipu Sudhakar (COSMO simulations and some results on model intercomparisons)  
 Rob Wood (VOCA, detectability of aerosol signature)  
 Bernhard Vogel (Aerosol effects and subgrid-scale clouds)
- 4:00 pm Coffee
- 4:30 pm Ideas on shallow clouds (10 min per talk; Chair: Andy Andreae)  
 Tom Goren (Cases of open-closed cell sc transitions)  
 Robin Stevens (ideas from the ASCOS intercomparison)  
 Rob Wood (ideas from the ORACLES and SOCRATES campaigns)  
 Philip Stier (ideas from the CLARIFY campaign)  
 Graham Feingold (ideas for constraints of aerosol-cloud interactions)  
 Johannes Quaas/Corinna Hoose (HD(CP)<sup>2</sup> project)  
 Johannes Quaas (project Stevens/Bony: EUREC4A)
- 5:15 pm Discussion on next steps (focus shallow clouds; Chair: Rob Wood; Notes: Ilona Riipinen)  
 7:00 pm Joint dinner

#### Friday, 15 April 2016

- 9:00 am Notes from Discussions (Johannes Mülmenstädt / Zak Kipling / Ilona Riipinen)
- 10:30 am Coffee
- 11:00 am Next steps (Chair: Graham Feingold)  
 - Revision of the simulation case definitions  
 - Simulation of observables ("OSSE")
- 12:30 am Lunch
- 2:00 pm Plenary final discussion, decisions (Chairs: Daniel Rosenfeld / Johannes Quaas)  
 3.30 pm End of meeting