



Workshop Program

Moist Processes in Future High Resolution NWP/Climate Models

SMHI, Norrköping, June 15-17 2009

Monday June 15	
Session: Overview—challenges in high resolution modelling Room: Hörsalen	
09:00-09:20	Welcome
09:20-10:20	Experience of transition from shallow to deep convection in the Met Office Unified Model at convective scales <i>Invited speaker</i> Peter Clark (UK Met-Office)
10:20-10:40	Coffee
10:40-11:40	Challenges for bridging the gap between theory and parameterisation practice for precipitating clouds. The multi-scale and convective-memory-oriented 3MT approach in ALARO-0 <i>Invited speaker</i> Jean-Francois Geleyn (LACE)
11:40-12:10	Status and plans for AROME Francois Bouyssel (MF)
12:10-12:40	Investigations on COSMO 2.8 Km precipitation forecast Frederico Grazzini (ARPA-SIMC)
12:40-14:00	Lunch
Session: Overview—challenges in high resolution modelling Room: Plenisalen	
14:00-14:30	Cloud/radiation parameterization issues in high resolution NWP Bent Hansen Sass
14:30-15:00	3MT in ARPEGE/ALADIN Jean-Marcel Piriou (MF)
15:00-15:45	Discussion on challenges in high-resolution modelling <i>Discussion leader</i> Peter Clark (UK Met-Office)
15:45-16:15	Coffee

Session: Aerosols and microphysics Room: Plenisalen	
16:15-16:45	Impact of explicit and non-explicit treatment of aerosols on simulated deep convective cloud properties Annica Ekman (MISU)
16:45-17:15	The impact of cloud condensation nucleus concentration on clouds and precipitation in HIRLAM Karl-Ivar Ivarsson (SMHI)
17:15-17:35	Explicit cloud microphysics for non-hydrostatic HIRLAM Andres Luhamaa (UT)
17:35-18:00	Discussion on important aspects of aerosols <i>Discussion leader</i> Annica Ekman (MISU)
Tuesday June 16 Session: Deep convection Room: Hörsalen	
09:00-10:00	Global aspects of convection and waves <i>Invited speaker</i> Peter Bechtold (ECMWF)
10:00-10:30	Use of a deep convection parameterization scheme at high resolution Luc Gerrard (RMI Belgium)
10:30-11:00	Coffee
11:00-11:30	Behaviour of resolved convection in ALARO and AROME Sander Tijm (KNMI)
11:30-12:00	Impact of semi-lagrangian horizontal diffusion on resolved deep convection in ALARO-0 Lisa Bengtsson (SMHI)
12:00-12:30	The difficult life of a cloud within NWP models Eric Bazile (MF)
12:30-14:00	Lunch
14:00-15:00	Academic case studies of resolved convection on a small planet <i>Invited speaker</i> Sylvie Malardel (ECMWF)
15:00-16:30	Discussion on deep convection issues and Coffee <i>Discussion leader</i> Peter Bechtold (ECMWF)
16:45-17:45	Meeting on inter-comparison study of deep convection Group meeting with representatives from COSMO/UM/HARMONIE/ECMWF/...
18:00	Bus leaves SMHI for excursion and Workshop dinner

Wednesday June 17 Session: Evaluation Room: Hörsalen	
09:00-09:30	Evaluation of modelled clouds using passive satellite imagery (AVHRR) and active sensors from the A-Train satellites (CloudSat/CALIPSO) Karl-Göran Karlsson (SMHI)
09:30-10:00	Verification of high-resolution precipitation forecasts by using the SAL method Sami Niemelä (FMI)
10:00-10:30	Coffee
10:30-11:00	Radar-based precipitation forecasts Magnus Lindskog (SMHI)
11:00-12:30	Closing up discussion
12:30	Lunch

List of participants

Name		Affiliation	E-mail
Banciu	Doina	Romanian National Met Adm	doina.banciu@meteoromania.ro
Bazile	Eric	Meteo France	eric.bazile@meteo.fr
Bechtold	Peter	ECMWF	Peter.Bechtold@ecmwf.int
Bengtsson	Lisa	SMHI	lisa.bengtsson@smhi.se
Bouyssel	Francois	Meteo France	Francois.Bouyssel@meteo.fr
Clark	Peter	UK Met Office	peter.clark@metoffice.gov.uk
Dahlbom	Mats	DMI	mda@dmi.dk
Devasthale	Abhay	SMHI	abhay.devasthale@smhi.se
Ekman	Annica	MISU	annica@misu.su.se
Geleyn	JeanFrancois	CHMI	jean-francois.geleyn@chmi.cz
Gerard	Luc	RMI Belgium	luc@oma.be
Grazzini	Federico	ARPA-SIMC	fgrazzini@arpa.emr.it
Hansen Sass	Bent	DMI	sass@tele2adsl.dk
Ivarsson	Karl-Ivar	SMHI	karl-ivar.ivarsson@smhi.se
Johnston	Marston	Chalmers Univ of Technology	marston@chalmers.se
Jones	Colin	SMHI	colin.jones@smhi.se
Karlsson	Karl-Göran	SMHI	karl-goran.karlsson@smhi.se
Källén	Erland	Stockholm University	erland@misu.su.se
Lindskog	Magnus	SMHI	magnus.lindskog@smhi.se
Luhamaa	Andres	Univ of Tartu	andres.luhamaa_5742@eesti.ee
Malardel	Sylvie	ECMWF	Sylvie.Malardel@ecmwf.int
Niemelä	Sami	FMI	sami.niemela@fmi.fi
OnVee	Jeanette	KNMI	Jeanette.OnVee@knmi.nl
Piriou	Jean-Marcel	Meteo France	Jean-Marcel.Piriou@meteo.fr
Pristov	Neva	EARS	neva.pristov@rzs-hm.si
Samuelsson	Patrick	SMHI	patrick.samuelsson@smhi.se
Tijm	Sander	KNMI	tijm@knmi.nl