



3rd International Lund Regional-Scale Climate Modelling Workshop
21st Century Challenges in Regional Climate Modelling
Lund, Sweden, 16-19 June 2014

Programme and Participant List



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Baltic Earth
Earth System Science for the Baltic Sea Region

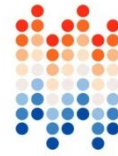
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Baltic Earth
Earth System Science for the Baltic Sea Region



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- Babatunde Abiodun (South Africa)
- Raymond Arritt (U.S.A.)
- Lars Bärring (Sweden)
- Michel Déqué (France)
- Jason Evans (Australia)
- Jens Hesselbjerg Christensen (Denmark)
- Elizabeth Kendon (U.K.)
- Rupa Kumar Kolli (Switzerland)
- René Laprise (Canada)
- Ruby Leung (U.S.A)
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- Burkhardt Rockel (Germany)
- Silvina Solman (Argentina)
- Izuru Takayabu (Japan)
- Shuyu Wang (China)

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- Markku Rummukainen (Sweden)
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**3rd Lund Regional-scale Climate Modelling Workshop
21st Century Challenges in Regional Climate Modelling Lund, Sweden, 16 - 19 June 2014
Programme Overview**

Sunday	Monday	Tuesday	Wednesday	Thursday
Registration 16:00 to 18:00	Registration 8:30 - 9:50	Begin: 9:00	Begin: individually	Begin: 9:00
	Opening Ceremony and Welcome Addresses	Topic 2	Breakout Meetings	Topic 4
	Topic 1	Break		Break
	Lunch	Topic 2	Lunch	Topic 4
	Topic 1 Poster Presentations	Open Discussion		Open Discussion
	Topic 1	Lunch	Topic 3 Poster Presentations	Final Workshop Discussion
	Break	Topic 3	Topic 3	
	Topic 1	Break	Break	Closing 13.00
	Open Discussion	Topic 3	Topic 3	
	Topic 1 Poster Presentations	Topic 3 Poster Presentation	Topic 3 Poster Presentations	Topic 4 Poster Presentations
End: 18:30	End: 19:00	End: 19:00	End: 19:00	
Ice Breaker 19:00	Workshop Dinner 19:30	Guided City Walk 19:00		

Sessions

Topic 1: Regional Climate and Earth System Models

Topic 2: Very-high-resolution RCMs

Topic 3: Challenges for RCM evaluation and application

Topic 4: RCM Ensembles

**3rd Lund Regional-scale
Climate Modelling Workshop**

**21st Century Challenges
in Regional Climate Modelling**

Lund, Sweden, 16 - 19 June 2014

Workshop Programme

SUNDAY, 15 June 2014

16:00-18:00 Registration at the Conference Venue

MONDAY, 16 June 2014

08:30-09:50 Registration at the Conference Venue

10:00 **Opening Ceremony**
Chair: Burkhardt Rockel

Welcome Addresses

- **Prof. Per Eriksson**
Vice Chancellor of Lund University
- **Prof. Markku Rummukainen**
Coordinator of the Strategic Research Area MERGE

Topic 1: Regional Climate and Earth System Models

Chair: Raymond Arritt

- 10:30** **Keynote 1.1**
Regional Climate and Earth System Models – Added Value Revisited
Jens Hesselbjerg Christensen
- 11:00** **Modeling Arctic Climate with a Regional Arctic System Model (RASM)**
John Cassano, DuVivier, A., Hughes, M., Roberts, A., Brunke, M., Craig, A., Fisel, B., Gutowski, W., Maslowski, W., Nijssen, B., Osinski, R., Zeng, X.
- 11:15** **Arctic climate variability and change in the regional models RCA and RCAO**
Torben Koenigk, Berg, P., Döscher, R.
- 11:30** **Coupled regional climate and hydrology modelling at the catchment scale**
Morten Andreas Dahl Larsen, Drews, M., Refsgaard, J.C., Jensen, K.H., Butts, M.B., Christensen, J.H., Christensen, O.B.
- 11:45** **Impacts of different coupling methods on regional atmosphere - ocean simulations**
Ha Ho Hagemann, Rockel, B., Kapitza, H., Behrens, J.
- 12:00** **Lunch**
- 13:00** **Topic 1 Poster presentations (authors attending) 30 min**

Chair: Shuyu Wang
- 13:30** **Keynote 1.2**
Land-cover dynamics and feedbacks in RCMs: State-of-the-art, outlook, and lessons learned
Benjamin Smith
- 14:00** **Improvement of simulated monsoon precipitation over South-Asia with a regionally coupled model ROM**
Pankaj Kumar, Sein, D., Cabos, W., Jacob, D.
- 14:15** **Contribution of anthropogenic aerosols to the Euro-Mediterranean climate trends since 1980 using a regional coupled modelling approach**
Pierre Nabat, Somot, S., Mallet, M., Sanchez-Lorenzo, A., Wild, M.

- 14:30** **Impacts of aerosols in the CORDEX-Europe domain using the regional aerosol-climate model REMO-HAM**
 Armelle Reca C, Remedio, Teichmann, C., Pietikäinen, J.-P., Sudarchikova, N., Jacob, D., Brasseur, G.
- 14:45** **On the importance of inclusion of air-sea interactions in the simulation of austral summer precipitation over southern Africa using a regional model**
 Venkata Ratnam Jayanthi, Morioka, Y., Behera, S.K., Yamagata, T.
- 15:00** **Break**
- Chair: Markku Rummukainen*
- 15:30** **Keynote 1.3**
Challenges in regional climate system modeling for the Baltic Sea and North Sea regions
 H.E. Markus Meier and members of the Baltic Earth Working Group on Regional Climate System Modelling
- 16:00** **Comparison of air-sea momentum parameterizations in atmosphere-wave coupled system: storm cases study**
 Lichuan Wu, Rutgersson, A., Sproson, D., Sahlée, E.
- 16:15** **Med-CORDEX: a first coordinated inter-comparison of fully-coupled regional climate system models (RCSM) for the Mediterranean**
 Samuel Somot, Ruti, P., Med-CORDEX Group
- 16:30** **Development and evaluation of a new regional coupled atmosphere-ocean model in the North Sea and the Baltic Sea**
 Shiyu Wang, Dieterich, C., Döscher, R., Höglund, A., Hordoir, R., Meier, H.E.M., Samuelsson, P., Schimanke, S.
- 16:45** **Future climate change RCP4.5 and RCP8.5 scenarios downscaling for the Northern Europe with the focus on the North and Baltic Seas**
 Dmitry Sein, Cabos, W., Jacob, D.
- 17:00** **Open Discussion on Topic 1**
Chair: Jens Hesselbjerg Christensen; Rapporteur: Burkhardt Rockel
- 17:30** **Topic 1 Poster presentations (authors attending) 60 min**
- 19:00** **Ice Breaker**

TUESDAY, 17 June 2014

Topic 2: Very-high-resolution RCMs

Chair: Izuru Takayabu

- 09:00** **Keynote 2.1:**
A Review of Very High Resolution Climate Modeling
L. Ruby Leung
- 09:30** **Amplified climate change signal due to urban expansion at local scales from a regional climate model**
Daniel Argüeso, Evans, J.P., Fita, L., Pitman, A.J., Di Luca, A.
- 09:45** **Ensuring a robust regional model experimental design for future projection of extreme weather during the North American monsoon in the Southwest U.S.**
Christopher L. Castro, Chang, H.-I., Luong, T., Jares, M., Lahmers, T., Carrillo, C.
- 10:00** **Keynote 2.2:**
Very high resolution regional climate modeling – Benefits and future prospects
Elizabeth J. Kendon
- 10:30** **Break**
- Chair: Elizabeth J. Kendon*
- 11:00** **Feasibility Study of Very High Resolution Regional Climate Modelling Through Grid Telescoping Applied to the Canadian Regional Climate Model (CRCM5)**
Mélissa Cholette, Laprise, R.
- 11:15** **Climate change signal of convective precipitation through convection permitting climate model simulations**
Giorgia Fosser, Khodayar, S., Berg, P.
- 11:30** **Keynote 2.3:**
Usage of high-resolution dynamical downscaling around East and South-East Asia
Izuru Takayabu

12:00 **Application of High-resolution RCM to Climate Change Projection and Urban Climatology Research**
Nobuyuki Kayaba, Harada, M., Yamada, T., Murai, H., Hagiya, S., Oikawa, Y.

12:15 **Convection permitting climate simulations (CPCS) – Lessons learned at the Wegener Center**
Heimo Truhetz, Prein, A., Gobiet, A.

12:30 **Open Discussion on Topic 2**
Chair: Ruby Leung; Rapporteur: Faye Cruz

13:00 **Lunch**

14:00 **Topic 2 Poster presentations (authors attending) 60 min**

Topic 3: Challenges for RCM evaluation and application

Chair: Michel Déqué

15:00 **Keynote 3.1**
Bruce Hewitson

15:30 **Creating a model consistent reference data set for bias correction applications**
Peter Berg, Bosshard, T., Yang, W.

15:45 **Quantifying uncertainty in observed rainfall datasets across Africa: A probabilistic history**
Chris Lennard, Dosio, A., Nikulin, G.

16:00 **Evaluating temperature distributions in a high-resolution RCM at 6 km horizontal resolution over Europe**
Erik Kjellström, Lind, P., Lindstedt, D., Landelius, T.

16:15 **Break**

Chair: René Laprise

16:45 **Keynote 3.2**
Strategies and measures for determining the skill of dynamical downscaling
Hans von Storch

- 17:15** **Is it possible to separate model calibration and evaluation? A multi-physics study with modern radiation and soil datasets**
Markel Garcia-Diez, Fernandez, J., Vautard, R.
- 17:30** **Spatially explicit climate model evaluation with complex networks**
Stefan Lange, Feldhoff, J.H., Donges, J.F., Volkholz, J., Kurths, J.
- 17:45** **A framework to study the potential benefits of using high-resolution regional climate model simulations**
Alejandro Di Luca, De Elia, R., Laprise, R.
- 18:00** **Topics 3 Poster presentations (authors attending) 60 min**
- 19:30** **Workshop Dinner**

WEDNESDAY, 18 June 2014

08:00 – 12:00 Breakout Meetings

12:00 **Lunch**

Topic 3: Challenges for RCM evaluation and application *continued*

13:00 **Topic 3 Poster presentations (authors attending) 30 min**

Chair: Lai-Yund Leung

13:30 **Keynote 3.3**
Challenges for RCM evaluation and application when moving to high resolutions
Hayley J Fowler, Elizabeth J. Kendon, Stephen Blenkinsop, Steven C. Chan, Nigel Roberts, Christopher A. T. Ferro

14:00 **Some sources of bias in the Eurocordex historical runs**
Michel Déqué, Alias, A., Dubois, C., Somot, S.

14:15 **Large Scale Meteorological Patterns Associated with Temperature Extremes in the North American Regional Climate Change Assessment Program Hindcast Experiment**

Paul C. Loikith, Waliser, D.E., Kim, J., Lee, H., Neelin, J.D., McGinnis, S., Lintner, B., Mattmann, C., Mearns, L.O.

14:30 **Systematic temperature and precipitation biases in the CLARIS-LPB ensemble simulations over South America and possible implications for climate change projections**

Silvina Solman

Chair: Babatunde Abiodun

14:45 **Keynote 3.4**
Climate information for decision making – The challenge of responding to user needs

Diane Chaumont, Isabelle Charron, David Huard

15:15 **Evaluating teleconnection responses of the CORDEX models: A case study over Eastern Africa**

Hussen Seid, Lennard, C., Hewitson, B.

15:30 **Break**

16:00 **Simulation Strategies for Optimal Detection of Regional Climate Model Response to Parameter Modifications**

Leo Separovich, De Elia, R., Laprise, R.

16:15 **Studies of scale interaction in a two-way nesting climate model**

Laurent Li, Li, S., Le Treut, H.

16:30 **Open Discussion on Topic 3**

Chair: René Laprise; Rapporteur: Alejandro di Luca

Topic 4: RCM Ensembles

Chair: Lars Barring

17:00 **Keynote 4.1**
Seasonal-to-decadal prediction and opportunities for downscaling
Noel Keenlyside

17:30 **Seasonal forecasting: Opportunities and challenges for use of regional climate models**

Raymond Arritt W., Castro, C.L.

- 17:45** **Energy cycle associated with Inter-member Variability in a large ensemble of simulations of the Canadian RCM (CRCM5)**
Oumarou Nikiéma, Laprise, R.
- 18:00** **Topic 4 Poster presentations (authors attending) 60 min**
- 19:00** **Guided City Walk**

THURSDAY 19 June 2014

Topic 4: RCM Ensembles *continued*

Chair: Jason Evans

- 09:00** **Keynote 4.2**
Use of RCM ensembles to produce regional climate projections: Key issues and the CORDEX perspective
Filippo Giorgi
- 09:30** **Precipitation in the EURO-CORDEX 0.11 ° and 0.44 simulations: High resolution, High benefits?**
Andreas Prein, Gobiet, A., Truhetz, H., Keuler, K., Gørgen, K., Teichmann, C., Fox Maule, C., Van Meijgaard, E., Déqué, M., Grigory, N., Vautard, R., Kjellström, E., Colette, A.
- 09:45** **Europe in a 6 Degrees Warmer Climate**
Ole Bøssing Christensen, Yang, S., Boberg, F., Fox Maule, C., Olesen, M., Drews, M., Sørup, H.J.D., Christensen, J.H.

Chair: Silvina Solman

- 10:00** **Keynote 4.3**
The design and interpretation of RCM ensembles: Lessons from GCM simulations in the Coupled Model Intercomparison Project
Jouni Räisänen and Jussi. S. Ylhäisi
- 10:30** **Strategic sub-selection of CMIP5 GCMs for dynamical downscaling**
Carol McSweeney, Jones, R.
- 10:45** **Including model performance and independence in ensemble design**
Jason Evans, Argüeso, D., Di Luca, A., Ison, R., Fita, L

11:00

Break

11:30

Keynote 4.4

How to establish the value of multiple GCM-RCM simulation programs

Linda O. Mearns, Francina Dominguez, Gregg Garfin, William Gutowski, Dorit Hammerling, Dennis Lettenmaier, Ruby Leung, Sarah Michaels, Sara Pryor, Stephan Sain

12:00

Open Discussion on Topic 4

Chair: Jason Evans; Rapporteur: Marie Ekström

12:30

Final Workshop Discussion

Chair: Markku Rummukainen; Rapporteur: NN

13:00

Closing

Afternoon:

Excursions

Posters

Topic 1: Regional Climate and Earth System Models

Poster T1-01

Role of atmosphere-ocean coupling in the simulation of a polar low: a case study with the COAWST modeling system

Muralidhar Adakudlu, Sobolowski, S.

Poster T1-02

Medicanes in an ocean-atmosphere coupled regional climate model

Naveed Akhtar, Brauch, J., Dobler, A., Béranger, K., Ahrens, B.

Poster T1-03

Forcing a hydrological discharge model with RCM and GCM outputs in the Euphrates-Tigris Basin: Evaluation of the model performance and projected river discharges

Deniz Bozkurt, Sen, O. L., Hagemann, S.

Poster T1-04

Coupling of COSMO/CLM and NEMO in two regions

Jennifer Brauch, Früh, B., Pham, T.V., Akhtar, N., Ahrens, B.

Poster T1-05

Regional climate and streamflow projections in North America under IPCC CMIP5 scenarios

Hsin-I Chang, Castro, C., Troch, P., Mukherjee, R.

Poster T1-06

Surface Heat Budget over the North Sea in Climate Change Simulations

Christian Dieterich, Wang, S., Schimanke, S., Gröger, M., Klein, B., Hordoir, R., Samuelsson, P., Liu, Y., Höglund, A., Meier, H.E.M.

Poster T1-07

A new regional climate system model setup for the EuroCORDEX domain

Alberto Elizalde, Mathis, M., Mikolajewicz, U.

Poster T1-08

Towards a LMD regional Earth simulator with WRF

Lluís Fita, Arsouze, T., Stéfanon, M., Berthou, S., Bastin, S., Polcher, J., Mailler, S., Drobinski, P., Hourdin, F., Fairhead, L.

Poster T1-09

The study and modeling of rainfall spatial and temporal changes in East Azarbaijan, Iran

Hojjatollah Fouladi Osgouei, Zarghami, M.

Poster T1-10

Added value of interactive air-sea coupling assessed from hindcast simulations for the North and Baltic seas

Matthias Gröger, Dieterich, C., Schimanke, S., Meier, H.E.M.

Poster T1-11

Assessing environmental changes and risks using a regional coupled ocean – atmosphere – sediment model

Alexandra Gronholz, Paul, A., Schulz, M.

Poster T1-12

The impact of two land-surface schemes on the characteristics of summer precipitation over East Asia from the RegCM4 simulations

Suchul Kang, Im, E.-S., Ahn, J.-B.

Poster T1-13

Sea Salt Generation Function in the Baltic Sea region as the important component to regional atmospheric model

Piotr Markuszewski, Petelski, T., Piskozub, J., Jakacki, J.

Poster T1-14 (will be presented in T4 session)

Regional Arctic Climate System Model (RASM): An overview and selected results on sea ice sensitivity to variable parameter space

Wieslaw Maslowski, Osinski, R., Roberts, A., Kinney, J.-C., Cassano, J.

Poster T1-15

Sea state projections for the North Sea: Impact of climate change on very high waves?

Jens Möller, Groll, N., Heinrich, H.

Poster T1-16

The potential impacts of forestation in mitigating climate change over Southern Africa

Myra Naik, Abiodun, B.J.

Poster T1-17

Simulation of snowbands on the Baltic Sea with coupled model COSMO-CLM/NEMO

Trang Van Pham, Brauch, J., Früh, B., Ahrens, B.

Poster T1-18

Analysis of nucleation events in the European boundary layer using the regional aerosol-climate model REMO-HAM

Joni-Pekka Pietikäinen, Mikkonen, S., Hamed, A., Hienola, A.I., Birmili, W., Kulmala, M., Laaksonen, A.

Poster T1-19

Air-Sea Interactions in a Coupled Atmosphere-Ocean Model for the Baltic Sea

Thomas Raub, Lehmann, A., Jacob, D.

Poster T1-20

Simulated canopy vegetation effects on snow conditions for a forest site using the Multi-Energy Balance option in SURFEX

Patrick Samuelsson, Boone, A., Gollvik, S.

Poster T1-21

The sensitivity of major Baltic inflows simulated with the RCM NEMO-Nordic

Semjon Schimanke, Dieterich, C., Gröger, M., Meier, H.E.M.

Poster T1-22

Regionally coupled modelling of the Tropical Atlantic

Dmitry Sein, Cabos, W., Jacob, D.

Poster T1-23

Recent development in regional earth system modelling

Jun She, Tian, T., Madsen, K.C., Poulsen, J.W., Berg, P., Jonasson, L.

Poster T1-24

Soil moisture interaction with surface climate for different vegetation types in the La Plata Basin

Anna Sörensson, Berbery, H.

Poster T1-25

Coupled atmosphere – wave simulations of high-impact weather systems in the North-Atlantic and Baltic Region

David Sproson, Sahlée, E., Wu, L., Rutgersson, A.

Poster T1-26

Testing coupling techniques for a regional climate model : What are the advantages?

Marc Stéfanon, Polcher, J.

Poster T1-27

Ocean feedback mechanism in a coupled atmosphere-ocean model system for the North Sea

Jian Su, Moseley, C., Elizalde, A., Sein, D., Mayer, B., Pohlmann, T.

Poster T1-28

An impact of historical land-cover conversion on regional climate change during winter in Hokkaido Island, Japan

Shiori Sugimoto, Sato, T., Sasaki, T.

Poster T1-30

Simulation of the surface mass balance of the ice caps in Arctic Canada and Patagonia with the Regional Atmospheric Climate Model RACMO2

Willem Jan Van de Berg, Lenaerts, J., Van Meijgaard, E., Van den Broeke, M.

Poster T1-31

Potential mechanism of vegetation-induced reduction in tropical rainfall in Africa: analysis based on regional Earth system model simulations

Minchao Wu, Smith, B., Schurgers, G., Siltberg, J., Rummukainen, M., Samuelsson, P. Jansson, C.

Poster T1-32

Severity of climate change dictates the direction of biophysical feedbacks of vegetation change to Arctic climate - results from the coupled regional climate-vegetation model CMIP5 simulations

Wenxin Zhang, Jansson, C., Miller, P. A., Smith, B., Samuelsson, P.

Poster T1-33

Dynamical downscaling with RIEMS over East Asia

Deming Zhao, Fu, C., Yan, X.

Topic 2: Very-high-resolution RCMs

Poster T2-01

Using High Resolution climate Modelling to Study the Effect of Climate Change on Lylan Valley Ground Water Characteristic in Kirkuk City in Iraq

Sameer S. Al-Juboori, Omer, F.M.

Poster T2-02

Cloud-resolving regional climate modeling approach in decade-long simulations

Nikolina Ban, Schmidli, J., Schär, C.

Poster T2-03

Downscaling of precipitation for the Himalayas using WRF model

Bhuwan Chandra Bhatt

Poster T2-04

Precipitation intensity and return level change projections by a convective-permitting regional climate model

Steven C. Chan, Kendon, E.J., Fowler, H.J., Roberts, N.M., Blenkinsop, S.

Poster T2-05

Land surface feedbacks on spring precipitation in the Netherlands

Emma Daniels, Lenderink, G., Hutjes, R.W.A., Ronda, R. Holtslag, A.A.M.

Poster T2-06

High-resolution sensitivity studies over Crete with the non-hydrostatic regional climate model REMO-NH

Bastian Eggert, Marien, L., Jacob, D.

Poster T2-07

Pursuing high resolution downscaling for hydrological applications in the Victorian Climate Initiative (VicCI)

Marie Ekström

Poster T2-08

Impact of using the surface scheme SURFEX within ALARO-0 for the ERA-Interim high-resolution dynamical downscaling over Belgium

Oliver Giot, De Troch, R., Hamdi, R., Deckmyn, A., Termonia, P.

Poster T2-09

Implementation and initial results from convection-resolving Pan-European TerrSysMP and WRF simulations

Klaus Goergen, Keune, J., Gasper, F., Shrestha, P., Sulis, M., Knist, S., Ohlwein, C., Kollet, S., Simmer, C., Vereecken, H.

Poster T2-10

Simulating historical wind storms in Switzerland with WRF: identification of the optimal setup and its performance in high-resolution simulations

Juan Jose Gomez-Navarro, Messmer, M., Raible, C.

Poster T2-11

Impact of the horizontal resolution on extremes investigated with convection-resolving COSMO-CLM simulations

Oliver Gutjahr, Heinemann, G., Schefczyk, L.

Poster T2-12

Precipitation in complex orography simulated by the regional climate model RCA3

Ivan Güttler, Stepanov, I., Nikulin, G., Jones, C., Branković, Č.

Poster T2-13

Air quality and climate interaction within urban environment

Tomas Halenka, Huszar, P., Belda, M., Zemankova, K.

Poster T2-14

Assessment of three dynamical urban climate downscaling methods: application for Brussels and Paris

Rafiq Hamdi

Poster T2-15

Implementation of the tidal forces into the models of the selected Svalbard fjords

Jaromir Jakacki, Przyborska, A., Kosecki, S.

Poster T2-16

Climate change projections for the North Sea from three coupled high-resolution models

Birgit Klein, Bülow, K., Dieterich, C., Heinrich, H. Hüttl-Kabus, S., Mayer, B., Meier, H.E.M., Mikolajewicz, U., Narayan, N., Pohlmann, T., Rosenhagen, G., Sein, D., Su, J.

Poster T2-17

Urban Climate Projection in Tokyo for the 2050's August: Impact of Urban Planning Scenarios and RCMs

Hiroyuki Kusaka, Suzuki-Parker, A., Aoyagi, T., Adachi, S.A., Yamagata, Y.

Poster T2-18

Response of hourly precipitation extremes to temperature and moisture perturbations: results from a mesoscale model

Geert Lenderink, Attema, J., Loriaux, J., Van Meijgaard, E.

Poster T2-19

Simulating extreme precipitation in the island of Crete with non-hydrostatic high-resolution RCMs

Petter Lind, Lindstedt, D., Jones, C., Kjellström, E.

Poster T2-20

A new regional climate model operating at the meso-gamma scale performance over Europe

David Lindstedt, Lind, P., Jones, C., Kjellström, E.

Poster T2-21

Convection permitting regional climate simulations of precipitation over a southwestern region of Japan

Akihiko Murata, Sasaki, H., Hanafusa, M., Nosaka, M.

Poster T2-22

Evaluation of the coupling between NWP and LES-based CFD models for simulating urban boundary layer flows

Hiromasa Nakayama, Takemi, T., Nagai, H.

Poster T2-23

The GAME project: challenges in modeling circulation of Svalbard fjords

Jacek Piskozub, Jakacki, J., Kosecki, S., Przyborska, A.

Poster T2-24

Simulation of salty bottom water penetration in a Deep

Nadezda Podrezova, Tsarev, V.

Poster T2-25

Projection of Future Climate Change around Japan in a Non-hydrostatic Regional Climate Model

Hidetaka Sasaki, Murata, A., Oh'izumi, M., Kurihara, K.

Poster T2-26

Reproducibility of Regional difference of Altitudinal Dependence of Snow Depth using 1.5km High Resolution Experiments

Fumichika Uno, Kawase, H., Ishizaki, N.N., Yoshikane, T., Hara, M., Kimura, F., Iyobe, T., Kawashima, K.

Poster T2-27

Investigations of urban climate characteristics with SURFEX/TEB model: preliminary results for Budapest city

Gabriella Zsebeházi, Krüzselyi, I., Szépszó, G.

Topic 3: Challenges for RCM evaluation and application

Poster T3-01

Objective type comparison and classification of precipitations variability over Ethiopia based on CORDEX simulations and GPCP datasets

Nigus Hiluf Abay

Poster T3-02

How well do regional climate models simulate extreme rainfall events in South Africa?

Babatunde J. Abiodun, Abba Omar, S.

Poster T3-03

Climate projection over the East Asia based on RCP scenarios using WRF

Joong-Bae Ahn, Hong, J.-Y.

Poster T3-04

CRCM5: performance errors, boundary forcing errors and climate projections over India

Adelina Alexandru, Sushama, L.

Poster T3-05

Impacts of using spectral nudging on COSMO-CLM simulations of single Vb-events

Ivonne Anders, Paumann, M., Chimani, B., Hofstätter, M.

Poster T3-06

The Indian Summer Monsoon Projections: Climate variability or Climate Change?

Shakeel Asharaf, Ahrens, B.

Poster T3-07

Submesoscale hydrodynamic response of the Black Sea coastal zone to the surface forcing provided by the regional climate model

Andrii Bagaiev, Ivanov, V.A., Demyshev, S.G.

Poster T3-08

Capitalizing on high resolution projections in application on regional climate change adaptation planning in Japan

Yingjiu Bai, Kaneko, I., Kobayashi, H., Sasaki, H., Hanafusa, M., Kurihara, K., Takayabu, I., Murata, A.

Poster T3-09

A new high-resolution European region reanalysis dataset for RCM evaluation and calibration – first tests and comparison to other datasets

Lars Bärring, Landelius, T., Wilcke, R.A., Dahlgren, P., Nikulin, G., Villaume, S., Undén, P., Kållberg, P.

Poster T3-10

On the integrated climate assessment using climate classification

Michal Belda, Halenka, T., Kalvova, J., Holtanova, E.

Poster T3-11

Statistical downscaling for assessing GCMs, RCMs and vice versa

Rasmus Benestad, Mezghani, A., Landgren, O., Haugen, J.-E., Haakenstad, H.

Poster T3-12

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