

The 4th Workshop of the Southeast Asia Regional Climate Downscaling (SEACLID)/ CORDEX Southeast Asia Project & Discussion on the Formation of Empirical-Statistical Downscaling (ESD) Group in CORDEX Asia

Hanoi, Vietnam
23-25 November 2016



Workshop venue: Le Van Thiem lecture hall, VNU University of Science, 19 Le Thanh Tong str., Hoan Kiem, Hanoi

WORKSHOP PROGRAM

(For latest update please visit the project website <http://www.ukm.edu.my/seaclid-cordex/>)

November 23 (Wednesday)	Formation of Empirical-Statistical Downscaling (ESD) Group in CORDEX Asia
13.00 – 13.30	Registration
	Presentation Session (13.30 – 15.30) Chair: Prof. Dr. Ailikun
13:30-13:45	Dr. Koji Dairaku (CORDEX Asia ESD Leader): Opening and Brief Introduction of CORDEX Asia ESD
14:00-14:15	Dr. Nishimori (Japan): Bias Correction, Weather Generator and Empirical Statistical Downscale for Impact Studies on Agriculture -Previous and Ongoing Activities of NIAES-
14:15-14:30	Dr. Lianhua ZHU (China): Downscaling daily precipitation over the Yangtze-Huaihe River Basin in China using multiple statistical Methods
14:30-14:45	Dr. Liew Juneng (Malaysia): Downscaling and Bias Correction of Precipitation and Surface Air Temperature over the Southeast Asia Regions

14:45-15:00	Dr. Jerasorn Santisirisomboon (Thailand): Statistical Downscaling Activities of RU-CORE	
15:00-15:15	Dr. Yatagai (Japan): APHRODITE-2: Asian Precipitation -- Highly Resolved Observational Data Integration Towards Evaluation of Extreme Events	
15:15-15:35	Coffee break	
16.00 – 17.30	<p>Discussion Session</p> <p>Chair: Dr Koji Dairaku</p> <p>Rapporteur: Juneng, Ailikun</p> <p>Topics:</p> <ol style="list-style-type: none"> 1. The main objectives of ESD group 2. What kinds of ESD datasets, methodologies or software can be shared in Asian group? 3. What kinds of products can be provided by ESD group? 4. Task allowance of ESD Asian team and coordination mechanism 5. Plan of Joint activity and funding opportunities 	
17.30 – 18.30	<p>SEACLID Project Meeting</p> <p>(By invitation only)</p>	
November 24 (Thursday)	<p>The 4th Workshop of SEACLID/CORDEX Southeast Asia</p> <p>Opening Session</p> <p>(Chair: Prof. Dr. Phan Van Tan, HUS)</p>	
08.30 – 09.00	Registration	
09.00 – 09.20	Welcome Remarks	<p>Professor Dr. Phan Tuan Nghia, Vice-Rector, VNU Hanoi University of Science</p> <p>Professor Dr. Patrick Boiron, Rector, University of Science and Technology of Hanoi (USTH)</p>
09.20 – 09.40	Opening Remarks	<p>Prof. Dr. Fredolin Tangang Coordinator/Project Leader, SEACLID/CORDEX Southeast Asia The National University of Malaysia</p> <p>Dr Irène Lake, Director, International Project Office for CORDEX (IPOC) SMHI</p>
09.40 – 10.00	Keynote Address: Summary of APN	Prof. Dr. Ailikun

	CORDEX-Asia project	SPG Member, Asia-Pacific Network for Global Change Research (APN) / Director of TPE IPO, Institute of Tibetan Plateau Research (ITP), Chinese Academy of Sciences (CAS), China
10.00 – 10.15	Group Photo	
10.15 – 10.30	Coffee Break	
November 24 (Thursday)	Session 1 Progress of SEACLID/CORDEX Southeast Asia (Regional-level analysis) Chair: Prof. Phan Van Tan	
10.30 – 10.50	Overall Progress of SEACLID/CORDEX Southeast Asia Project	Prof. Dr. Fredolin Tangang Coordinator/Project Leader, SEACLID/CORDEX Southeast Asia The National University of Malaysia
10.50 – 11.10	CORDEX-SEA multi-model simulations of current and future temperature changes over Southeast Asia	Dr. Rochelle Cayanan Coronel , Manila Observatory, Philippines
11.10 – 11.30	CORDEX-SEA multi-model simulations of current and future rainfall changes over Southeast Asia	Chung Jing Xiang , National University of Malaysia
11.30 – 11.50	CORDEX-SEA multi-model simulations of current and future atmospheric circulation and monsoon changes over Southeast Asia	Assoc. Prof. Dr. Thanh Ngo-Duc , University of Science and Technology of Hanoi (USTH), Vietnam
11.50 – 12.10	CORDEX-SEA multi-model simulations of current and future extremes over Southeast Asia	Supari , National University of Malaysia / BMKG Indonesia
12.10 – 13.30	Lunch / Poster Viewing	
November 24 (Thursday)	Session 2 Progress of SEACLID/CORDEX Southeast Asia (Country-level analysis) Chair: Prof Dr Edvin Aldrian	
13.30 – 13.45	Changes in mean climate and extremes over Indonesia based on SEACLID/CORDEX-SEA simulations	Dr Ardhasena Sopaheluwakan/ Utoyo Ajie Linarka, BMKG, Indonesia
13.45 – 14.00	Changes in mean climate and extremes over Vietnam based on multi-model simulations of CORDEX-SEA	Nguyen Thi Tuyet , VNU, Vietnam
14.00 – 14.15	Changes in mean climate and extremes over Malaysia based on multi-model simulations of CORDEX-SEA	Dr. Ester Salimun , National University of Malaysia
14.15 – 14.30	Changes in mean climate and extremes over the Philippines based on multi-model simulations of CORDEX-SEA	Dr Faye Cruz / Dr Rochelle Coronel , Manila Observatory / Ateneo de Manila University, Philippines

14.30 – 14.45	Changes in mean climate and extremes over Thailand based on multi-model simulations of CORDEX-SEA	Kamphol Promjiraprawat , Ramkhamhaeng University / Dr Patama Singhruk , Chulalongkorn University, Bangkok
14.45 – 15.05	Brief Poster Presentations (3 minutes each presentation) Chair: Dr. Faye Cruz	
15.05 – 15.40	Coffee break / Poster Viewing	
November 24 (Thursday)	Session 2 Progress of SEACLID/CORDEX Southeast Asia Chair: Assoc Prof Dr. Thanh Ngo-Duc	
15.40 – 16.00	Changes in mean and extremes of climate in HadGEM2-ES downscaled by PRECIS over the CORDEX Southeast Asia region	David Hein , Met Office Hadley Centre for Climate Science and Services, United Kingdom (Remote Presentation via Skype)
16.00 – 16.15	Present and future climate simulations over CORDEX Southeast Asia using NHRCM	Dr. Faye Cruz , Manila Observatory, Philippines
16.15 – 16.30	Projections of Climate Indices over the area of Thailand using SEACLID/CORDEX SEA products	Dr. Waranyu Wongseeree , Faculty of Engineering, King Mongkut's University of Technology North Bangkok
16.30 – 16.45	Downscaling three GCMs for SEACLID/CORDEX-SEA using CCAM	Dr John McGregor , CSIRO, Australia
16.45 – 17.00	Statistical Downscaling of SEACLID/CORDEX SEA products over the Petchaburi and Prachuap Khiri Khan Coast river basins in the Southern Part of Thailand	Dr Jerasorn Santisirisomboon , Research Center of Regional Climate Change and Renewable Energy, Ramkhamhaeng University, Bangkok
17.00 – 17.15	Detection of Tropical Cyclones in a Downscaled Regional Climate: Model over the CORDEX-SEA Domain	Jennifer B. Tibay , Manila Observatory, Philippines
17.30 – 20.00	Reception Dinner (Nhà hàng Tu Do, 42 Tang Bat Ho)	

November 25 (Friday)	Session 3 Other CORDEX-SEA presentations and other initiatives from within and outside the region Chair: Assoc. Prof. Dr. Gemma Narisma	
08.30 – 08.50	How to draw a worst case scenario in the future world - Fruits of SOUSEI program	Dr Izuru TAKAYABU , Meteorological Research Institute, Japan
08.50 – 09.05	Analysis of the influence of sea surface temperature representation in downscaled regional climate using the SEACLID/CORDEX-Southeast Asia simulations	Ms. Angela Monina T. Magnaye , Manila Observatory, Philippines
09.05 – 09.20	Future changes in Asian summer monsoon precipitation extremes as inferred from 20-km AGCM simulations	Dr Chi Yung Francis Tam , Earth System Science Programme, the Chinese University of HongKong

09.20 – 09.35	Future Projections of Extreme Rainfall Events using Statistical Downscaling in Malaysia	Noor Shazwani binti Osman Universiti Teknologi Malaysia, Malaysia
09.35 – 09.50	Rainfall Diurnal Cycle over the Maritime Continent in the SEACLID/CORDEX-SEA multi-model simulations.	Ahmad Fairudz Jamaluddin , National University of Malaysia / MetMalaysia
09.50 – 10.20	Coffee Break/Poster Viewing	
November 25 (Friday)	Session 3 Other CORDEX-SEA presentations and related initiatives from within and outside the region Chair: Assoc. Prof. Dr. Liew Juneng	
10.20 – 10.40	Regional Climate Modelling at the Rossby Centre of SMHI	Dr Grigory Nikulin , Swedish Meteorological and Hydrological Institute (SMHI), Sweden
10.40 – 10.55	Regional precipitation extremes over the MC	Dr Hongwei Yang , APEC Climate Center, Busan, Korea
10.55 – 11.10	The use of climate and weather data to support precise decision making for efficient agricultural resource allocation	Prof Attachai Jintrawet , Center for Agricultural Resource System Research, Chiang Mai University, Chiang Mai, Thailand
11.10 – 11.25	A combined statistical downscaling and disaggregation model of hourly precipitation in Hong Kong	Dr. Fan Lijun , Institute of Atmospheric Physics, Chinese Academy of Science, China
11.25 – 11.40	High-resolution regional climate simulations for future climate projection in Japan and collaborations with Southeast Asia	Dr. Hiroaki Kawase , Meteorological Research Institute, Japan
11.40 – 11.55	Regional Climate Downscaling Activities carried out by IMHEN, Vietnam	Dr Mai Van Khiem , Director of Center for Meteorology and Climatology, IMHEN, Vietnam
11.55 – 12.10	Regional Climate Downscaling Activities carried out by NAHRIM, Malaysia	Mohd Syazwan Faisal Bin Mohd , NAHRIM, Malaysia
12.10 – 13.30	Lunch / Poster Viewing	
November 25 (Friday)	Session 4 Discussion # 1 (Topic: SEACLID/CORDEX Southeast Asia Downscaled Data & Products: Dissemination and bridging to users and stakeholders) Chair: Prof. Fredolin Tangang & Dr Faye Cruz Rapporteur: Dr Ardhasena Sopaheluwakan / Dr Thanh Ngo-Duc	
13.30 – 15.30	<ul style="list-style-type: none"> Establishment of SEACLID/CORDEX SEA ESGF node and related issues (Invite Dr Jerasorn Santisirisomboon of Ramkhamhaeng University to make a brief presentation on ESGF ~ 5-10 minutes) What are the best ways to disseminate SEACLID/CORDEX SEA key findings to users and stakeholders? (Invite Dr Grigory Nikulin of SMHI to share experience of EURO-CORDEX in dealing with user groups ~ 5-10 minutes) What is the best way to bridge and engage user groups? (Invite 	

	<ul style="list-style-type: none"> ▪ Prof. Dr. Attachai Jintrawet of Chiang Mai University to provide input from user perspectives~ 5-10 minutes) ▪ Ms Nuzba Shaheen to share her vision of her project: Exploring new approaches and devising strategies for climate change adaptation in South Asia (~ 5 – 10 minutes) • Data products limitations (Model biases and inadequacies): How to convey these to users? • Data products limitations (Model biases and inadequacies): Enhancing the products e.g. bias correction. Do we need go towards this? • Other related issues 	
15.30 – 16.00	Coffee Break / Poster Viewing	
November 25 (Friday)	Session 5 Discussion # 2 (Topic: Future collaboration: Opportunity and the way forward) Chair: Prof. Ailikun & Dr. Irene Lake Rapporteur: Dr Patama Singhruck / Dr Liew Juneng	
16.00 – 17.30	<ul style="list-style-type: none"> • CORDEX: Status and future plan (Invite Dr Irene Lake of CORDEX IPOC to make a brief presentation ~ 10 minutes) • SEACLID/CORDEX Southeast Asia Phase 2 (Invite Dr Jerasorn Santisirisomboon to briefly introduce the project~ 5 minutes) • CORDEX Asia: how to enhance inter-domains collaboration? • Collaboration in Empirical-Statistical downscaling (ESD) (Invite Dr Koji Dairaku / Prof. Ailikun to make a very brief presentation ~ 5 minutes) • CORDEX and IPCC AR6, IPCC SR 1.5C (Invite Prof Edwin Aldrian, IPCC WG1 Vice Chair to give a briefing ~ 5 minutes) • PARIS AGREEMENT & COP22 (Invite Ms Jessica Dator Bercilla, Christian Aid/Wanun Permpibul of the Asia Climate Change Consortium and Climate Watch Thailand, to give a brief presentation: Paris Agreement and COP22 and How science can inform climate action) • Other related issues 	
17.30 – 17.45	Closing Remarks	Prof. Phan Van Tan (HUS) Assoc. Prof. Dr. Thanh Ngo-Duc (USTH) Prof. Fredolin Tangang (SEACLID/CORDEX-SEA)
POSTERS		
1	Comparison Between CLM45 and BATS Land-Surface Scheme in RegCM 4.4.5.10 for Climate Projection Baseline in Indonesia: A Sensitivity Study	Ratna Satyaningsih/Jose Rizal/Adi Mulsandi, BMKG, Indonesia
2	Future projection of extreme rainfall events in Malaysia using statistical downscaling	Syafarina Abdul Halim /, International Islamic University, Malaysia
3	Surface Heat Fluxes from GCMs over the CORDEX-SEA	Pipatthra Saesin, Chulalongkorn University, Bangkok, Thailand
4	Regional climate analogue studies using CORDEX-SEA multi-model	Nguyen Thi Tuyet, VNU, Vietnam

	simulations	
5	Development of High Resolution Ensemble Climate Projection Using Multi-Window Constructed Analogue Statistical Downscaling on Bengawan Solo Watershed	Muhammad Ridho Syahputra, Weather and Climate Prediction, Institut Teknologi Bandung
6	Influence of bias-correction on the Future projected change of the CORDEX-SEA regional climate model over Malaysia	Ngai Sheau Tieh, National University of Malaysia
7	Characterization of Daily and Monthly Precipitation Over Indochina Region	Rattana Chhin / Prof Shigeo Yoden, Cambodia/Kyoto University, Japan
8	The climatology and variability of the Malaysian Southwest Monsoon in the SEACLID/CORDEX-SEA multi-model simulations.	Diong Jeong Yik, National University of Malaysia / MetMalaysia