

Best Practice Workshop on Climate Change Projections and their Applications in ASEAN Countries 20 – 23 March 2018, Singapore.



This project was undertaken with the financial support of:
Ce projet a été réalisé avec l'appui financier de :



Environment and
Climate Change Canada

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Changement climatique Canada



Venue: Village Hotel Bugis (Quartz Room, Level 6), 390 Victoria Street, Singapore 188061

Day 1 –Tuesday, 20 th of March 2018		
Welcome and Introduction		Chair: Muhammad Hassim Notetaker: Ryan Kang
08.00-09.00	Registration	
	Opening address	
09.00	Ms Chin Ling Wong, DG, MSS, Singapore	Workshop opening
	Dr Erland Källén, Director, CCRS, Singapore	Welcome address
09.50	Mr Abdalah Mokssit, IPCC, WMO, Geneva	WMO perspective
	Dr Bertrand Timbal, CCRS, Singapore	Workshop overview and objectives
09.50-10.20	Group Photo	
	Coffee break	
National Climate Projections – NMHs (Continental SEA)		Chair: Gemma Narisma Notetaker: Ryan Kang
10.20	Mr Soim Monichoth, Ministry of Water Resources and Meteorology, Cambodia	Climate Changes Impact on Water Using for Irrigations
10.45	Mr Sengduangduan Phouthanoxay, Department of Meteorology and Hydrology, Lao PDR	Climate change projections for Lao PDR
11.10	Dr Zin Mie Mie Sein, Department of Meteorology and Hydrology, Myanmar	Future Projection of summer monsoon rainfall over Myanmar based on CMIP5 data
11.35	Ms Ruthaikarn Buaphean, Thai Meteorological Department, Thailand	The experience of Thai Meteorological Department on Climate Projection
12.00	Dr Nguyen Dang Quang, National Hydro-Meteorological Service of Vietnam, Vietnam	Climate Change projections for Vietnam
12.25		
12.30-13.30	Lunch	
National Climate Projections – NMHs (Maritime Continent)		Chair: Fredolin Tangang Notetaker: Junhua Yang
13.30	Ms Harnina Binti Morani, Brunei Darussalam Meteorological Department, Brunei Darussalam	Applications of Climate Change Projections in Brunei"
13.55	Ms Apriliana Rizqi Fauziyah, Meteorological Climatological and Geophysical Agency, Indonesia	Climate Change in Indonesia
14.20	Mr Muhammad Firdaus Ammar bin Abdullah, Malaysian Meteorological Department, Malaysia	Informed Decisions using Climate Change Projections over Malaysia
14.45	Ms Thelma Cinco, Philippine Atmospheric, Geophysical & Astronomical Services Administration, Philippines	Provision of Climate Projections for the Philippines
15.10		
15.15-15.45	Coffee break	
National Climate Projections – NMHs (Maritime Continent and Pacific Islands)		Chair: Bertrand Timbal Notetaker: Junhua Yang
15.45	Dr Chris Gordon, Centre for Climate Research Singapore, Singapore	Singapore's Second National Climate Change Study
16.10	Mr Salesa Nihmei, Secretariat of the Pacific Regional Environment Programme, Samoa	An overview of PACSAP Regional Projections and applications and learnings from the Pacific
16.30	Dr Geoff Gooley, CSIRO & Dr Scott Power, Bureau of Meteorology, Australia	Future directions for Pacific Climate Change Science and Services in the Pacific: opportunities for inter-regional collaboration
17.00	Open floor to discuss the key lessons from today presentation	
17.30	End of Day 1	
19.00	Dinner Reception at Quartz Room, Village Hotel Bugis	

Day 2 – Wednesday 21 st of March 2018		
		Chair: Marcus Thatcher Notetaker: Muhammad Hassim
09.00-09.30	Dr Geoff Gooley CSIRO, Australia	Lesson(s) learnt from example of national climate change projections work across South-East Asia and Pacific Island nations NMHs – summary of Day 1
SEA regional climate projections (I)		
09.30	Prof Fredolin Tangang CORDEX-SEA chair, Malaysia	CORDEX-SEA: existing climate change simulations
10.10	Dr Nicola Golding UKMO, UK	UKMO contribution to deliver regional climate change simulations of relevance to SEA
10.50		
10.50-11.20	Coffee break	
SEA regional climate projections (II)		Chair: Kathy McInnes Notetaker: Peter Heng
11.20	Dr Marcus Thatcher CSIRO, Australia	CSIRO contribution to deliver regional climate change simulations of relevance to SEA and the Pacific
12.00	Dr Muhammad Hassim CCRS, Singapore	Singapore's Second National Climate Change Study: regional climate modelling over Southeast Asia with the Unified Model
12.20	Dr Sri Vijayaraghavan TMSI, NUS, Singapore	Climate Downscaling at High Resolution over SEA using the WRF model
12.40		
12.40-13.40	Lunch	
Key scientific issues of relevance to regional CC projections (I)		Chair: Nicola Golding Notetaker: Muhammad Hassim
13.40	Dr Ben Horton EOS, NTU, Singapore	Global sea level, past and present and the implications for future projections
14.05	Dr Kathy McInnes CSIRO, Australia	Sea Level Projections and Extreme Sea Levels for Coastal Applications and Adaptation: examples from Asia, Australia and the Pacific
14.30	Dr Scott Power BoM, Australia	On overview on the impact of global warming on ENSO and ENSO teleconnections across SEA
14.55		
15.00-15.30	Coffee break	
Key scientific issues of relevance to regional CC projections (II)		Chair: Geoff Gooley Notetaker: Peter Heng
15.30	Dr Bertrand Timbal CCRS, Singapore	Climate change and monsoon circulation across SEA: the march of the ITCZ across the Western Maritime continent, now and in the future
15.50	Dr Marcus Thatcher CSIRO, Australia	Convection permitting simulations: CSIRO experience
16.10	Dr Muhammad Hassim CCRS, Singapore	Convection permitting simulations: Singapore experience running the UM model at 1.5km
16.30		
16.30	Plenary discussion:	
17.30	"What are the key scientific challenging in delivering Climate Change simulations across SEA?"	
17.30	End of Day 2	

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Day 3 – Thursday 22 nd of March 2018		
		Chair: Ben Horton Notetaker: Thea Turkington
09.00-09.30	Dr Scott Power BoM, Australia	Lesson(s) learnt from climate change science talks – summary of Day 2
Using climate change information – end-user's perspectives (I)		
9.30-9.55	Mr Qingyuan Pang AHA Centre	Climate change and disasters: what we know of the past and present to inform the future
9.55-10.20	Dr Dakshina Murthy Kadiyala ICRISAT	Assessing climate change impacts and adaptation strategies for smallholder agricultural systems in semi-arid regions
10.20-10.45	Mr Sutardi Sudirman Indonesia Water Partnership	The Needs for Best Practices on Climate Change Projections (A Case In Indonesia)
10.45-11.10	Ms Minghui Teo Public Utilities Board, Singapore	Using Climate Change Projections to Assess Impacts for Singapore's Water Utility
Coffee break		
		Chair: Scott Power Notetaker: Thea Turkington
Using climate change information – end-user's perspectives (II)		
11.40-12.05	Mr Jack Huang Ministry of National Development, Singapore	Singapore's Approach to Climate Change Resilience
12.05-12.30	Dr Nguyen Dinh Cong Mekong River Commission	Use of climate change scenarios for Mekong Adaptation Strategy and Action Plan in Lower Mekong Basin
12.30-12.50	Dr Jothiganesh Shanmugasundaram RIMES	Enhancing availability of climate information to guide sectoral agencies in adaptation planning
12.50-13.15	Mr Salesa Nihmei Secretariat of the Pacific Regional Environment Programme, Samoa	Case Study from the Pacific-Australia Climate Change Science Adaptation Planning (PACCSAP) Programme and from the Regional Climate Consortium for Asia-Pacific (RCC-AP)
Lunch		
Discussions on the Climate Change science and its applications across SEA		
		Chair: Chris Gordon Notetaker: Elaine Gao & Thea Turkington
13.30-15.30	Break-up group discussions: 1) The Climate Change science 2) Application of the CC science	
Coffee break (and continued discussions)		
16.00-17.30	Plenary discussion: 1) Report from break-up groups 2) Do we have a consensus emerging about key issues?	
End of Day 3		

Day 4 – Friday 23 rd of March 2018		
		Chair: Bertrand Timbal Notetaker: Anurag Dipankar
09.00-09.30	Dr Chris Gordon RA-V WG CLS, Singapore	Lesson(s) learnt from the application of the climate change science – summary of Day 3
Climate change science – future perspective		
09.30-09.50	Mr Abdalah Mokssit IPCC, WMO, Geneva	The upcoming IPCC AR6: what to expect?
09.50-10.05	Prof Fredolin Tangang National University of Malaysia	CORDEX-SEA: Future plan for CORDEX-2 and regional FPs studies
10.05-10.20	Dr Nicola Golding UKMO, UK	UKCP18: what it will deliver and is that a good example for SEA?
10.20-10.35	Dr Scott Power BoM, Australia	Future plans to deliver National Climate Change projections in Australia
Coffee break		
Using climate change information – Best practice guidelines (I)		
Break-up group discussions to identify best practice guidelines:		
11.00-13.00	1) Generating climate change projections 2) Using climate change projections in planning and policy development 3) Benefiting from advances in the climate change science	
Lunch		
Using climate change information – Best practice guidelines (II)		
		Chair: Bertrand Timbal & Scott Power Notetaker: Elaine Gao & Anurag Dipankar
14.00-15.30	Plenary discussion: 1) Report from break-up groups 2) Do we have a consensus emerging about key issues?	
Close of the Workshop		