The Third International Workshop on Prevention and Mitigation of Meteorological Disasters in Southeast Asia

PROGRAM

March 1 (Mon) - 3 (Wed), 2010 Room H-202, Ritsumeikan Asia Pacific University, Beppu, Japan

March 1 (Mon)

08:15	Bus leaves Nishitetsu Resort Inn Beppu for APU				
09:00	Registration				
Openir	ng session (Chair: Sanga-N. KAZADI)				
09:15	Sanga-N. KAZADI (APU, Japan)				
	Welcome, opening remarks, and logistics				
09:20	Takashi NISHIGAKI (JST, Japan)				
	Welcome address				
09:30	Malcolm J. M. COOPER (APU, Japan)				
	Welcome address				
09:40	Shigeo YODEN (DG/Kyoto U., Principal Investigator, Japan)				
	International collaborations on prevention and mitigation of meteorological disasters in				
	Southeast Asia				
10:10	Indratmo SOEKARNO (ITB, Vice President, Indonesia)				
	Flood protection in Bandung - West Java due to Citarum River				
10:40	(Coffee break)				
•	ng session - continued (Chair: Kazuo SAITO)				
11:00	Naoyuki HASEGAWA (Head of Office Int. Affairs/JMA, Japan)				
	Regional cooperation in meteorological services in Asia and the Pacific				
11:30	Mu MU (IAP/CAS, China)				
	A comparison study on adaptive observation approaches: Singular vector, conditional nonlinear				
	optimal perturbation and ensemble transform Kalman filter				
12:00	Kaoru TAKARA (DPRI/Kyoto U., Leader of GCOE-ARS, Japan)				
	Sustainability science for a resilient society adaptable to extreme weather conditions				
12:30	<<< Group photo >>>				
12:40	(Lunch)				
	Set up of posters				

Session	on I: High-impact weather - prediction and analysis (Chair: Tieh Y	ong KOH)				
14:00	Tetsuo NAKAZAWA (MRI/JMA, Japan)					
	How does the global ensemble forecast data detect high-impact weather events?					
14:30	Venkata Bhaskar Rao DODLA (Jackson State U., US)					
	A new strategy for improvement in the prediction of tropical cyclone intensity a	and movement				
	using FDDA and vortex initialization					
15:00	Introduction of posters					
15:30	(Coffee break)					
Session	on I: - continued (Chair: Tri Wahyu HADI)					
16:00	Fredolin TANGANG (National U. of Malaysia, Malaysia)					
	Impact of the Madden-Julian Oscillation (MJO) on the maritime continent's rai	nfall				
16:30	Samsul BAHRI (Weather Modification Unit/BPPT, Indonesia)					
	The use of radar for weather modification in order to mitigate weather and clir	nate disaster in				
	Indonesia					
17:00	(End of the first day sessions)					
17:20	Bus leaves APU for Hotel New Tsuruta					
18:00	Banquet at Hotel New Tsuruta					
20:00	End of Banquet					
	March O(Tax)					
	March 2 (Tue)					
08:15	Bus leaves Nishitetsu Resort Inn Beppu for APU					
00.15	bus leaves Mishitetsu Nesort IIIII beppu for Al O					
Session	on II: Tropical disturbances (Chair: Takehiko SATOMURA)					
09:00	Chun-Chieh WU (National Taiwan U, Taiwan)					
	Targeted observation, data Assimilation, and tropical cyclone dynamics and p	redictability				
09:30		,				
	Data assimilation of GPS PWV for Myanmar cyclone NARGIS					
09:50	• •					
	Prediction of tropical cyclone over Bay of Bengal using NHM high resolution r	nodel				
10:10						
	Numerical prediction and dynamical analysis of a super cyclonic system over	north Indian Ocean				
10:30						

Session	II: - continued (Chair: Chun-Chieh WU)				
11:00	Takeshi ENOMOTO (JAMSTEC, Japan)				
	Precursory signals of typhoon genesis in analysis ensemble spread				
11:30	Palikone THALONGSENGCHANH (LMNRRI/PMO, Lao PDR)				
	Flood event on meteorological disaster "TC Ketsana's Case FY 2009" in Lao PDR				
11:50	Thanh NGO-DUC (AMO/NHMS, Vietnam)				
	Extreme climate events in Vietnam - tropical cyclones and heavy rainfall phenomena observed in				
	the past				
12:10	Shigenori OTSUKA (DG/Kyoto U., Japan)				
	Decision support system for prevention and mitigation of meteorological disasters based on				
	ensemble NWP data: an experimental use for the forecasts of Nargis				
12:30	(Lunch)				
Session	III: Heavy precipitation and microphysics (Chair: Thi Xin KIEU)				
13:30	Takehiko SATOMURA(DG/Kyoto U., Japan)				
	Toward the mitigation of water disaster in countries in the Indochina Peninsula				
14:00	Juneng LIEW (National U. of Malaysia, Malaysia)				
	Numerical investigation of a severe afternoon thunderstorm over west coast of Peninsular				
	Malaysia				
14:20	Tetsuya TAKEMI (DPRI/Kyoto U., Japan)				
	Representation of extreme weather events in convection-resolving simulations at 100-m				
	resolution				
14:40	Siriluk CHUMCHEAN (Mahanakorn U. of Technology, Thailand)				
	Bangkok rainfall forecasting system: An operational radar and RTC application				
15:00	(Coffee break)				
Session	III: - continued (Chair: Hirohiko ISHIKAWA)				
15:30	Seon Ki PARK (Ewha Womans U., Korea)				
	Characteristics of fog occurrence over the Korean Peninsula				
16:00	Ryoji NAGASAWA (NPD/JMA, Japan)				
	Problem of cloud overlap in the radiation calculation in the JMA Nonhydrostatic Model				
16:20	Chee-Kiat TEO (Nanyang Tech. U., Singapore)				
	Nadir correction to AIRS radiances				
16:40	Hiromu SEKO (MRI/JMA, Japan)				
	Data assimilation of side-looking radio occultation by observing system simulation experiment				
17:00	(End of the second day sessions)				
17:20	Bus leaves APU for Nishitetsu Resort Inn Beppu				

March 3 (Wed)

08:15 Bus leaves Nishitetsu Resort Inn Beppu for APU

Session IV: Mesoscale NWP (Chair: Seon Ki PARK)

09:00 Kazuo SAITO (MRI/JMA, Japan)

Achievement of MRI for the International Research for Prevention and Mitigation of

Meteorological Disasters in Southeast Asia

09:30 Takuya KAWABATA (MRI/JMA, Japan)

Cloud-resolving 4D-Var with Radar and GPS data

09:50 Masaomi NAKAMURA (MRI/JMA, Japan)

Projection of the change in future extremes around Japan using a nonhydrostatic regional model

10:10 Santi SUMDIN (TMD, Thailand)

The conversion operational Unified Model output to GrADS and GIS data for weather forecasting

activities in Thai Meteorological Department

10:30 (Coffee break)

Session IV: - continued (Chair: Tetsuya TAKEMI)

11:00 Tri Wahyu HADI (ITB, Indonesia)

Multiscale precursors of extreme weather and climatic events in Indonesia: Process study and experimental predictions

11:30 Wai-kin WONG (Hong Kong Observatory, Hong Kong)

Development of an operational rapid update non-hydrostatic NWP and data assimilation systems in the Hong Kong Observatory

11:50 Shugo HAYASHI (MRI/JMA, Japan)

Statistical verification of short range forecasts by NHM and WRF-ARW over Southeast Asia and Japan areas

12:10 Tieh Yong KOH (Nanyang Tech. U., Singapore)

Improved diagnostics for NWP verification

12:30 (Lunch)

Session V: Global to regional scales and applications (Chair: Hiromu SEKO)

13:30 Hirohiko ISHIKAWA (DPRI/Kyoto U., Japan)

Reproduction of hazardous weather in Asia in 2009 using dynamic downscaling from global analysis

14:00 Kumarenthiran SUBRAMANIAM (MMD, Malaysia)

Performance of ensemble prediction for numerical weather prediction (NWP) models during the northeast monsoon over Peninsular Malaysia

14:20 Shozo YAMANE (Doshisha U., Japan)

Properties of ensemble perturbations evolving in an atmospheric general circulation model

14:40 Zhina JIANG (LaSW/CAMS, China)

A New Approach to the Generation of Initial Perturbations for Ensemble Prediction: Conditional nonlinear optimal perturbations

15:00 (Coffee break)

Session V: - continued (Chair: Shigeo YODEN)

15:30 Ivonne Milichristi RADJAWANE (ITB, Indonesia)

Sea level rise assessment in the northern part of Java coastal area

16:00 Yoichi ISHIKAWA (DG/Kyoto U., Japan)

Formation of ocean surface barrier layer simulated by high-resolution atmosphere-ocean coupled model

16:20 Rita Tisiana Dwi KUSWARDANI (Ocean University of China, China)

The effects of surface waves on the upper ocean and climate system and its application to the development of an ocean forecast system in Indonesian Seas

Closing

16:40 Yoshinori SHOJI (MRI/JMA, Japan)

Report on the 16th Session of the Asia-Pacific Regional Space Agency Forum and the first Asia Oceania Region Workshop on GNSS

16:50 Shigeo YODEN (DG/Kyoto U., Japan)

Summary

17:00 (End of the workshop)

17:20 Bus leaves APU for Nishitetsu Resort Inn Beppu

Poster presentations

March 1 (Mon) 12:40-14:00 Set up of posters

15:00-15:30 Introduction of posters

in every breaks Poster sessions

March 3 (Wed) 15:00-15:30 put back of posters

P-1 Taiichi HAYASHI (DPRI/Kyoto U., Japan)

Recent research trend of heavy rainfall and severe local storm in the northeastern Indian subcontinent

P-2* Hitoshi HIROSE (DG/Kyoto U., Japan)

Comparison between cloud cover variations from satellite observations and those from surface observations

P-3* Kosuke ITO (DG/Kyoto U., Japan)

Estimation of air-sea fluxes in a tropical cyclone by using variational method with an intermediate atmosphere-ocean coupled mode

P-4 Thi Xin KIEU (Vietnam National U. at Hanoi, Vietnam)

On some tests of rainfall forecast using NHM in Vietnam

P-5* Yoshiaki MIYAMOTO (DPRI/Kyoto U., Japan)

Axisymmetric and asymmetric processes of tropical-cyclone vortex during the rapid intensification phase

P-6 Findy RENGGONO (Weather Modification Unit/BPPT, Indonesia)

Precipitating cloud observed by C-band radar at Sorowako, Indonesia

P-7* Naoaki SAITO (DG/Kyoto U., Japan)

Interaction between thermal convection and mean flow in a rotating system

P-8 Tri Handoko SETO (Weather Modification Unit/BPPT, Indonesia)

Weather modification technology for flood prevention in Indonesia

P-9 Widada SULISTYA (Centre for Public Meteorolgy/BMKG, Indonesia)

Indonesian extreme weather

P-10 Fredolin TANGANG (National U. of Malaysia, Malaysia)

Simulation of heavy precipitation episode over eastern Peninsular Malaysia using MM5:

Sensitivity to cumulus parameterization schemes

P-11 Palikone THALONGSENGCHANH (LMNRRI/PMO, Lao PDR)

TC Ketsana's effect in Lao (FY2009)

P-12* Nurjanna Joko TRILAKSONO (DG/Kyoto U., Japan)

Study of heavy rainfall during Jakarta flood event January-February 2007

P-13* Hiroki YAMAMOTO (DG/Kyoto U., Japan)

Laboratory experiments on two coalescing axisymmetric turbulent plumes in a rotating fluid

P-14* Ryuji YOSHIDA (DPRI/Kyoto U., Japan)

A Numerical simulation of tropical cyclogenesis with MCS merger

^{*} GCOE-ARS graduate students

Open Symposium on Meteorological Disasters and Adaptable Society in the Asia-Pacific Region

PROGRAM

March 4 (Thu), 2010 Room-H202, Ritsumeikan Asia Pacific University, Beppu, Japan

March 4 (Thu)

08:45 Bus leaves Nishitetsu Resort Inn Beppu for APU

Open S	Symposium (Chair: Sanga-N. KAZADI)
10:00	Sanga-N. KAZADI (APU, Japan)
	Opening remarks
10:10	Shigeo YODEN (DG/Kyoto U., Japan)
	International collaborations on prevention and mitigation of meteorological disasters in
	Southeast Asia
10:30	Shunso TSUKADA (APU, Japan)
	Socio-economic implications of meteorological disasters and possible measures to mitigate their
	impacts
10:50	Tieh Yong KOH (Nanyang Tech. U., Singapore)
	Towards a mesoscale observation network in Southeast Asia
11:10	Toshitaka TSUDA (RISH/Kyoto U., Research Leader of GCOE-ARS, Japan)
	Fusion of science and engineering for extreme weathers and global warming
11:30	Takashi NISHIGAKI (JST, Japan)
	Comments
11:40	Masahiro KOBAYASHI (JICA Kyushu, Japan)
	Comments
11:50	Sanga-N. KAZADI (APU, Japan)
	Closing remarks
12:00	(end of the Symposium)

12:15 – 13:15 **Lunch buffet** at the APU cafeteria all participants are invited to have further discussions/conversations

13:30 - 18:00

Field observations at some key spots related to Geohazards in and around Beppu

Schedule summary

	1 (Mon)	2 (Tue)	3 (Wed)	4 (Thu)
Bus leaves Hotel	8:15	8:15	8:15	8:45
morning	(9:15-12:30)	(9:00-12:30)	(9:00-12:30)	(10:00-12:00)
(9:00-12:30)	Opening session	Session II	Session IV	Open
				Symposium
Lunch	(12:30-12:40)			Lunch buffet
(12:30-13:30)	Group photo			at APU cafeteria
Afternoon	(<mark>14:00</mark> -17:00)	(13:30-17:00)	(13:30-17:00)	(13:30-18:00)
(13:30-17:00)	Session I	Session III	Session IV	Field
				observation at
				Geo-hazard
				spots
Bus leaves APU	17:20	17:20	17:20	
Evening	Banquet			
(18:00-20:00)				