

APEC Climate Symposium 2010: Pre-Symposium		
Sunday, June 20, 2010		APEC Climate Center Cosmos
12:30-13:00	<b>Registration</b>	
13:00-18.00	<b>Working Group Meeting</b>	
WS1	<b>Selection of Chair and Approval of agenda</b>	Chair to transfer from Mr. Foong Chee Leong, Director General of the Meteorological Services Division, NEA, Singapore to the APCC Director Chin-Seung Chung  Rapporteur: Dr. Siegfried Schubert (NASA/USA)
WS2	<b>Review and Progress of APCC Activities</b> <ul style="list-style-type: none"> <li>• Progress of operational and research work and online services</li> <li>• Future plans and strategic directions of APCC</li> </ul>	Led by: Dr. R.H. Kripalani, Ms. Soo-Jin Sohn and Ms. Young-Mi Min (APCC/Korea)  Rapporteur: Dr. Dmitry Kiktev (HMC/Russia) and Dr. Valentina Davydova Belitskaya (SMN/Mexico)
<b>Break</b>		
WS3	<b>Stocktake on the Capacities and Needs of NHMSs in Communicating Climate Information to User Groups</b> <ul style="list-style-type: none"> <li>• Presentation of WG members (10 minutes each)</li> <li>• Preliminary results of the Climate Information for Disaster Preparedness Survey</li> <li>• Common themes among NHMSs</li> </ul>	Led by: Dr. James Renwick, New Zealand  Rapporteur: Mr. Antoyo Setyadipratikto (BMG/Indonesia) and Mr. John Low, (NEA/Singapore)  Presenters: Dr. Hai Lin, Mr. Jaime Leyton,, Dr. Jyh Wen Hwu, Dr. T.C. Lee, Mr. Antoyo Setyadipratikto, Mr. Kiyotoshi Takahashi, Dr. Ji-Young Lee, Prof. Joong-Bae Ahn, Mr. Kwan Kok Foo, Mrs. Valentina Davydova Belitskaya, Dr. James Renwick, Mr. Kasis Inape, Mrs. Amelia Diaz, Dr. Flaviana Hilario, Dr. Dmitry Kiktev, Mr. John Low, Dr. David DeWitt, Dr. Siegfried Schubert, Prof. James Kinter, Dr. Jae-Kyung Schemm, Mr. Nguyen Dang Quang, Ms. Mara Baviera
WS4	<b>Information sharing on regional activities</b> <ul style="list-style-type: none"> <li>• APCC Participation in meetings, trainings and workshops</li> <li>• Update on Virtual Center and CLIK</li> <li>• Other initiatives, trainings, workshops, and conferences in the APEC region (WG members)</li> </ul>	Led by: Dr. R.H. Kripalani and Mr. Jin-Young Heo (APCC/Korea)  Rapporteur: Mr. Kwan Kok Foo (MMD/Malaysia), Ms. Munirah Ariffin (MMD/Malaysia) and Mr. Kiyotoshi Takahashi (JMA/Japan)
WS5	<b>Others:</b> <ul style="list-style-type: none"> <li>• APCS 2011 Concept Note</li> <li>• Date and Place of the 7<sup>th</sup> Working Group Meeting</li> <li>• Recommendations and suggestions</li> </ul>	Led by: Dr. R.H. Kripalani and Ms. Mara Baviera (APCC/Korea)  Rapporteur: Mr. Jaime Leyton (DMC/Chile)

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<b>Joint Session: APEC Climate Symposium 2010 and US-Korea Workshop</b> <b>Monday June 21, 2010</b>			<b>APEC Climate Center</b> <b>Lotus</b>
<b>8:00-9:00</b>	<b>Registration</b>		
<b>9:00-10:00</b>	<b>Opening Ceremony</b>		
9:00-9:05	Opening Remarks	Dr. Chin-Seung Chung (APCC/Korea)	
9:05-9:10	Opening Remarks (US-Korea Workshop)	Dr. Emilia K. Jin (GMU/USA)	
9:10-9:15	Congratulatory Address	Byung-Seong Chun (KMA Administrator/Korea)	
9:15-9:20	Congratulatory Address	Mayor Nam-Sik Hur (Busan Metropolitan City/Korea)	
9:20-9:25	Congratulatory Address	Byoung-Soo Seo (National Assembly/Korea)	
<b>9:25-9:45</b>	<b>Coffee Break</b>		
<b>9:45-11:45</b>	<b>Session I</b>	<b>Theme: Keynote Presentations</b> <b>Chair: Dr. Vladimir Kattsov (MGO/Russia)</b> <b>Rapporteur: Mr. John Low (NEA/Singapore)</b>	
9:45-10:15	On the Role of Unforced Natural Coupled Ocean-Atmosphere Multidecadal Variability in Twentieth Century Global Warming	Prof. Jagadish Shukla (COLA,GMU/USA)	
10:15-10:45	Dynamical Intraseasonal Prediction and its Predictability	Prof. In-Sik Kang (SNU/Korea)	
10:45-11:15	Multi-Institutional ISO Hindcast Experiment	Prof. Bin Wang (UH/USA)	
11:15-11:45	Interannual predictability of tropical Atlantic rainfall variability	Prof. Masahide Kimoto (UT/Japan)	
<b>11:45-13:30</b>	<b>Lunch</b>		
<b>APEC Climate Symposium 2010</b> <b>Monday June 21, 2010</b>			<b>APEC Climate Center</b> <b>Lotus</b>
<b>13:30-18:00</b>	<b>Session II</b>	<b>Theme: Climate Services and Applications</b> <b>Chair: Mr. Kiyotoshi Takahashi (JMA/Japan)</b> <b>Rapporteur: Dr. Jyh-Wen Hwu (CWB/Chinese Taipei), Dr. Hai Lin (MSC/Canada)</b>	
13:30-13:50	Science and Technology in APEC (provisional)	Mr. Yung-Suh Park (APEC/Singapore)	
13:50-14:10	APEC Center for Typhoon and Society: An Introduction	Prof. Ben Jou (NTU/Chinese Taipei)	
14:10-14:30	Application of Seasonal Forecast to Electric Power Companies	Dr. Daisuke Nohara (CRIEPI/Japan)	
14:30-14:50	Climate Prediction Services in Hong Kong	Dr. Tsz-cheung Lee (HKO/Hong Kong)	
14:50-15:10	Climate projection and information for decision making in Malaysia	Kwan Kok Foo (MMD/Malaysia)	
15:10-15:30	Discussion		
<b>15:30-15:50</b>	<b>Coffee Break</b>		
15:50-16:10	Climate Prediction Services in Papua New Guinea	Mr. Kasis Inape (PNGMET/Papua New Guinea)	
16:10-16:30	Climate and Natural Disasters in Cambodia	Mrs. Bin Chann Mony (DOM/Cambodia)	

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16:30-16:50	Downscaling Approaches and Extreme Events	James Renwick (NIWA/New Zealand)
16:50-17:10	The Hydromet Centre of Russia: Seasonal Forecasting 2010	Dr. Dmitry Kiktev (HMC/Russia)
17:10-17:30	Seasonal tropical cyclone activity prediction using a regional climate model	Prof. Johnny Chan (City University of Hong Kong/Hong Kong)
17:30-18:00	Discussion	
<b>US-Korea Workshop</b>		
<b>Monday June 21, 2010</b>		<b>APEC Climate Center Cosmos</b>
<b>13:30-18:00</b>	<b>Session III</b>	<b>Theme: Overview: Scientific drivers and Current status of Dynamical Seasonal Prediction</b> <b>Chair: Prof. James L. Kinter (COLA/USA)</b> <b>Rapporteur: Prof. Kyong-Hwan Seo (PNU/Korea)</b>
13:30-13:50	Introduction	Prof. E. Jin (GMU/USA)
13:50-14:10	On the contrasting storm track-jet relationships between the Pacific and Atlantic	Prof. Kyung-Ja Ha (PNU/Korea)
14:10-14:30	Interannual variability in the Indian and Pacific Oceans simulated by coupled ocean-atmospheric general circulation models	Prof. Bohua Huang (COLA/USA)
14:30-14:50	Intensified El Nino teleconnection under the greenhouse warming	Dr. Jong-Seong Kug (KORDI/Korea)
14:50-15:10	An Assessment of CFS Hindcast and Forecast Skills over the Tropics	K.P. Sooraj et al. (IPRC/USA) to be presented by Dr. Kenneth R. Sperber (Lawrence National Lab/USA)
15:10-15:30	Discussion	
<b>15:30-15:50</b>	<b>Coffee Break</b>	
15:50-16:10	The global circulation response to diabatic heating associated with the Madden-Julian Oscillation	Prof. Kyong-Hwan Seo (PNU/Korea)
16:10-16:30	A New Method for Identification of Madden-Julian Events	Dr. Kenneth R. Sperber (Lawrence National Lab/USA)
16:30-16:50	Development of Monsoon ISO Diagnostics and Evaluation Metric and Application to the CliPAS ISO Hindcast Experiment	Prof. Bin Wang (UH/USA)
16:50-17:10	Intraseasonal and Seasonal Predictability of Monsoon	Prof. Emilia Jin (GMU/USA)
17:10-18:00	Discussion on future US-Korea collaborations (Moderator : Prof. J. Shukla)	

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Tuesday June 22, 2010		APEC Climate Symposium 2010	APEC Nurimaru
<b>9:00-12:00</b>	<b>Session IV</b>	<b>Forum on Emergency Preparedness</b> <b>Chair: Prof. Cheng-Ta Chen (NTNU/Chinese Taipei)</b> <b>Rapporteur: Dr. Flaviana Hilario (PAGASA Philippines)</b>	
9:00-9:20	Establishment of the APEC Emergency Preparedness Working Group and Its Activities in 2010	Mr. Vincent Liu (EPWG/Singapore)	
9:20-9:40	The Impact of Extreme Events on Disaster Management - Lessons Learned from Typhoon Morakot	Dr. Liang-Chun Chen (NCDR/Chinese Taipei)	
9:40-10:00	WEB-GIS Based Typhoon Committee Disaster Information System for Typhoon Related Disaster Risk Reduction	Mr. Waon Ho-Yi (NIDP/Korea)	
<b>10:00-10:20</b>	<b>Coffee Break</b>		
10:20-10:40	TBD	Dr. Prisco Nilo (PAGASA/Philippines)	
10:40-11:00	Adaptation Options for Future Risks from Monsoon-driven Sea Level Extremes in a Coastal Agricultural Community	Dr. Anond Snidvongs (NCKMC/Thailand)	
11:00-11:30	Discussion		
<b>11:30-13:30</b>	<b>Lunch</b>		
<b>13:30-18:00</b>	<b>Field Excursion</b>		
	<b>Dinner</b>		

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APEC Climate Symposium 2010		
Wednesday June 23, 2010		APEC Climate Center Lotus
9:00-12:00	Session V	<b>Theme: Intraseasonal and Short-Term Climate Prediction</b>  <b>Chair: Dr. Swadhin K. Behera (FRCGC, JAMSTEC/Japan)</b>  <b>Rapporteur: Dr. Vladimir Kryzhov (HMC/Russia) Mr. Nguyen Dang Quang (NCHMF/Vietnam)</b>
9:00-9:20	Change of Siberian-Mongolian high intensity between November and December- January	Prof. Chih-Pei Chang (NPGS/USA)
9:20-9:40	Progress towards understanding and predicting weather and short-term climate extremes at NASA Global Modeling and Assimilation Office	Dr. Siegfried Schubert (NASA, GSFC/USA)
9:40-10:00	2010 Hurricane / Typhoon Season Prediction with the NCEP T382 CFS CGM	Dr. Jae-Kyung Schemm (NCEP, NOAA/USA)
10:00-10:20	Discussion	
10:20-10:40	<b>Coffee Break</b>	
10:40-11:00	Dynamical Seasonal Typhoon Ensemble Simulation and Prediction over Northwest Pacific Basin	Prof. Cheng-Ta Chen (NTNU/Chinese Taipei)
11:00-11:20	Impact of the Madden-Julian Oscillation on wintertime surface air temperature and precipitation in Canada	Dr. Hai Lin (MSC/Canada)
11:20-11:40	Impacts of initial conditions on monsoon Intraseasonal forecast	Dr. Xiouhua Fu (UH/USA)
11:40-12:00	Discussion	
12:00-13:30	<b>Lunch</b>	
APEC Climate Symposium 2010		
Wednesday June 23, 2010		APEC Climate Center Lotus
13:30-18:00	Session VI	<b>Theme: Interannual, Decadal and Millennial Variability</b>  <b>Chair: Dr. Tsz-cheung Lee (HKO/Hong Kong)</b>  <b>Rapporteur: Mr. Kasis Inape (PNGMET/Papua New Guinea), Dr. Jae-Kyung Schemm (NCEP, NOAA/USA)</b>
13:30-13:50	Decadal northward shift of the Meiyu belt and the possible cause	Prof. Yihui Ding (CMA/China)
13:50-14:10	APCC extending its scope over decadal through centennial time scales?	Dr. Vladimir M. Kattsov (MGO/Russia)
14:10-14:30	The unusual El Nino of 2009	Dr. Swadhin K. Behera (FRCGC, JAMSTEC/Japan)
14:30-14:50	Indian Ocean dipole mode: A possible precursor for the East Asian summer monsoon	Dr. R.H. Kripalani (APCC/Korea)

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14:50-15:10	Monsoon Variability in the Last Millennium: A model study	Dr. Jian Liu (CAS and UH/USA)
15:10-15:30	Discussion	
<b>15:30-15:50</b>	<b>Coffee Break</b>	
15:50-16:10	Predictability of Summer Northwest Pacific Climate and the Possible Role of the Tropical Indian Ocean: Analysis of Eleven Coupled Model Hindcasts	Dr. Jasti Sriranga Chowdary (UH/USA)
16:10-16:30	Climate Trends in the Philippines	Dr. Flaviana Hilario (PAGASA/Philippines)
16:30-16:50	A Preliminary Verification of the CWB Seasonal Forecast System	Dr. Jyh-Wen Hwu (CWB/Chinese Taipei)
16:50-17:10	The Hy-BMG method for onset of seasonal prediction in Pacitan, East Java province, Indonesia	Mr. Antoyo Setyadipratikto (BMG/Indonesia)
17:10-17:30	Seasonal Climate Prediction Activity at CMCC: Developments and latest results	Dr. Andrea Alessandri (CMCC/Italy)
17:30-18:00	Discussion	
<b>US-Korea Workshop</b>		
<b>Wednesday June 23, 2010</b>		<b>APEC Climate Center Cosmos</b>
<b>13:30-18:00</b>	<b>Session VII</b>	<b>Theme: Strategies for improvement of Dynamical Seasonal Prediction</b>  <b>Chair: Prof. Kyung-Ja Ha (PNU/Korea)</b>  <b>Rapporteur: Prof. Adam Sobel (Columbia Univ./USA)</b>
13:30-13:50	Dedicated high-end computing to revolutionize climate modeling: An international collaboration	Prof. James L. Kinter (COLA/USA)
13:50-14:10	New developments in climate prediction at NCAR	Dr. Joe Tribbia (NCAR/USA)
14:10-14:30	Assimilating Snow Cover Fraction Observations into CLM	Ms. Kristi Arsenault (GMU/USA)
14:30-14:50	LES of the Ocean Mixed Layer with the Application to its Parameterization in a Climate Model	Prof. Yign Noh (Yonsei University/Korea)
14:50-15:10	What control the ENSO amplitude in a coupled POP and ECHAM model	Mr. Baoqiang Xiang (UH/USA)
15:10-15:30	Discussion	
<b>15:30-15:50</b>	<b>Coffee Break</b>	
15:50-16:10	Modulation of tropical cyclones by natural climate variability	Prof. Adam Sobel (Columbia Univ./USA)
16:10-16:30	Optimal Detection of Multi-Year Predictability over Land	Ms. Jia Liwei (GMU/USA)
16:30-16:50	Circulation regimes: Bridging weather and climate predictability	Prof. David M. Straus (GMU/USA)
16:50-17:10	How predictable is the Northern Hemisphere summer upper-tropospheric circulation?	Dr. June-Yi Lee (UH/USA)
17:10-18:00	Discussion on future US-Korea collaborations (Moderator: Prof. J. Shukla)	

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<b>APEC Climate Symposium 2010: Tutorial Session</b> <b>Thursday June 24, 2010</b> <span style="float: right;"><b>APEC Climate Center</b> <b>Cosmos</b></span>		
<b>9:00-12:00</b>	<b>Session VIII</b>	<b>Theme: Tutorial Session on Multi-model Ensemble Forecast and Downscaling Conducted by Dr. Saji Hameed (Aizu University/Japan) with Lecture by Dr. RH Kripalani / Mr. Sudir Sabade</b>
9:00-10:00	NCL Crash course	Reading and writing netcdf data Performing simple meteorological calculations Visualization
10:00-10:15	<b>Coffee Break</b>	
10:15-11:00	Recreating Super Synthetic Ensemble MME in NCL	Introduction to Super Synthetic Ensemble (SSE) Coding practice
11:00-12:00	Forecast and Hindcast Skill	Introduction to skill metrics Coding to generate skill metrics for SSE forecasts and hindcasts Visualization of results
<b>12:00-13:30</b>	<b>Lunch</b>	
13:30-15:00	Introduction to downscaling tools	Brief introduction to downscaling libraries Practice of downscaling using Aphrodite data and NCEP reanalysis Introduction to K-means clustering Redo downscaling after clustering station data based on K-means clustering
15:00-15:30	<b>Coffee Break</b>	
15:30-16:00	Introduction to SOM clustering approach	Introduction to SOM algorithm Applying SOM-based clustering to station data derived from Aphrodite
<b>APEC Climate Symposium 2010: APCC SAC Meeting</b> <b>Thursday June 24, 2010</b> <span style="float: right;"><b>APEC Climate Center</b> <b>Edelweiss</b></span>		
<b>9:30-12:00</b>	<b>Session IX</b>	<b>Co-Chairs: Prof. Jagadish Shukla and Prof. In-Sik Kang</b>  <b>Rapporteur: Ms. Mara Baviera</b>
9:30-9:35	Opening Remarks	Prof. Jagadish Shukla
9:35-9:40	Opening Remarks	Prof. In-Sik Kang
<b>9:40-11:00</b>	<b>Stocktake of APCC Activities and Future Directions:</b>	Presentation by APCC Representative
9:40-9:55	<ul style="list-style-type: none"> <li>• Review of APCC Activities</li> <li>• Actions Taken on SAC 2009 Recommendations</li> </ul>	
9:55-10:10	<ul style="list-style-type: none"> <li>• Strategic future directions for APCC: Needs, requirements and capacity</li> </ul>	
10:10-10:40	Discussion on Cooperative Activities of APCC and other issues	SAC Members
10:40-12:30	Discussion	
<b>12:30-13:30</b>	<b>Lunch</b>	

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US-Korea Workshop: Org. Committee Meeting		APEC Climate Center Pacific
Thursday June 24, 2010		
<b>9:00-12:00</b>	<b>Session X</b>	<b>Theme: Collaborative research project between U.S. and Korea</b> <b>Chair: Prof. Emilia K. Jin (GMU/USA)</b> <b>Rapporteur: Dr. Ken Sperber (Lawrence National Lab/USA)</b>
9:00-9:05	Opening Remarks	Prof. Jagadish Shukla
9:05-9:10	Opening Remarks	Prof. In-Sik Kang
9:10-9:30	US-Korea Collaboration Discussion (E. Jin, J. Kinter)	
9:30-10:30	Breakout Session, Preparation of Joint Proposal	
<b>10:30-11:00</b>	<b>Coffee Break</b>	
11:00-11:30	Presentation of Joint Proposal	
<b>12:00-13:30</b>	<b>Lunch</b>	

\* Note: Tabled presentations are provisional and subject to change.