The First Taiwan-West Pacific Global Forecast System Development Workshop

第一屆臺灣與西北太平洋全球預報系統發展研討會

中央氣象局 310 會議室 CWB, Taipei, Taiwan, May 24-26, 2016

PROGRAM

May 24, Tuesday				
Opening Ses	sion			
Chair: Chia-Ping (Mark) Cheng 程家平, Director, R&D Center, CWB, Taiwan				
09:00-09:05	Tien-Chiang Yeh <i>葉天降</i> Deputy Director-General, CWB, Taiwan	Welcome Remarks		
09:05-09:15	Mong-Ming Lu <i>盧孟明</i> Chief Researcher, R&D Center, CWB, Taiwan	Brief review the history of TWPCFS Planning Workshop / Objective of the 1st TWPGFS Development Workshop / Invitee (Panel) intro, /Logistic		
Keynote Spe	ech			
09:15-10:05	Hendrik Tolman Director, EMC/NCEP/NWS/NOAA,USA	NCEP operational modeling; past present and future		
10:05-10:10	Group Photo			
10:10-10:20	Tea Break			
Chair: Henry J	CEP Global Model uang, Senior Scientist ,EMC/NCE u Fong <i>馮欽賜</i> , Deputy Director, N	P/NWS/NOAA, USA Ieteorological Information Center, CWB, Taiwan		
10:20-11:10	YueJian Zhu Ensemble Lead, EMC/NCEP/NWS/NOAA,USA	The Recent Development of NCEP Global Ensemble Forecast System (GEFS)		
11:10-12:00	Daryl Kleist Professor, UMD, USA	Status and plans for improving hybrid 4D EnVar for the NCEP GFS and potential for coupled		
12:00-13:30	Lunch Break			
13:30-14:20	Henry Juang Senior Scientist , EMC/NCEP/NWS/NOAA, USA	Current EMC global model dynamics and beyond		
14:20-15:10	Ruiyu Sun Senior Scientist , EMC/NCEP/NWS/NOAA, USA	The current and future Microphysics, PBL, and Convection in NCEP GFS/GSM		
15:10-15:20	Tea Break			
15:20-16:10	Jesse Meng Senior Scientist , EMC/NCEP/NWS/NOAA, USA	Improving the GFS Land Surface T2m Forecast for the Q3FY16 GDAS/GFS		
16:10-17:00	Hyun-Chul Lee Senior Scientist , CPC/NCEP/NWS/NOAA, USA	Effects of Ocean Initial Perturbation on ENSO prediction		
17:00-17:50	Weather Briefing and Touring	СШВ		
18:00	Conference Dinner			
May 25, Wednesday				

Section 2a: 0	CWB Global Forecast Model			
Chair: Mong-Ming Lu <i>盧孟明,</i> Chief Researcher, R&D Center, CWB, Taiwan				
09:10-09:30	Jen-Her Chen 陳建河 Senior Meteorologist, Meteorological Information Center, CWB, Taiwan	Introduction of Global Forecast System of CWB		
09:30-09:45	Mei-Yu Chang <u>張美玉</u> Senior Meteorologist, R&D Center, CWB, Taiwan	Impact of NCEP Radiation Package in the CWBGFS		
09:45-10:00	Feng-Ju Wang 汪鳳如 Assistant Researcher, R&D Center, CWB, Taiwan	Update of model physics in CWB GFS		
10:00-10:15	Pei-Hsuan Kuo <i>郭珮萱</i> Associate Researcher, R&D Center, CWB, Taiwan	Introduction of one column ocean warm layer model and effects on MJO prediction		
10:15-10:30	Deng-Shun Chen <i>陳登舜</i> Assistant Researcher, R&D Center, CWB, Taiwan	The Vertical and Scale-dependent Weighting for Ensemble Covariance in Hybrid Data Assimilation System		
10:30-10:40	Tea Break			
10:40-10:55	Jonq-Gong Chern 陳重功 Associate Researcher, R&D Center, CWB, Taiwan	The Development of CWB GFS-EPS SPP (Statistical Post-Processing)		
10:55-11:10	Chien-Han (John) Tseng 曾建翰 Senior Meteorologist, R&D Center, CWB, Taiwan	Introduction of Global Ensemble Typhoon Forecast System of CWB		
11:10-11:25	Tzu-Yu Wu 吳子榆 Assistant Researcher, R&D Center, CWB, Taiwan	Introduction of Climate Forecast System 1-Tier model of CWB		
11:25-11:40	Yea-Ching Tung <i>童雅卿</i> Assistant Researcher, R&D Center, CWB, Taiwan	CWB Coupled GCM Simulations with and without Heat Flux Correction		
Section 2b: 0	CWB Subseasonal-to-Seasonal	Climate Forecast System		
Chair: Jen-Her	· Chen 陳建河, Senior Meteorologist	, Meteorological Information Center, CWB, Taiwan		
11:40-12:00	Mong-Ming Lu 盧孟明 Chief Researcher, R&D Center, CWB, Taiwan	An overview of the short-range climate operational forecast system at CWB		
12:00-13:30	Lunch Break			
13:30-13:45	Ching-Teng Lee <i>李清縢</i> Associate Researcher, R&D Center, CWB, Taiwan	The forecast skill of the short-range climate operational forecast system at CWB		
13:45-14:00	Chih-Hui Shiao <i>蕭志惠</i> Researcher, R&D Center, CWB, Taiwan	Preliminary Validation of the Dynamically Downscaled Regional Climate Forecast System of CWB		
14:00-14:15	Meng-Shih Chen 陳孟詩 Chief, Long-range Weather Forecast Section, Weather Forecast Center, CWB	CWB Long-range Forecast Services		
Special Session: KMA Subseasonal-to-Seasonal Climate Monitoring, Forecast and Analysis				
Chair: Ming-De	e <mark>an Cheng 鄭明典, Director, Weathe</mark> Byoung-kwon Park Deputy Director, Climate Prediction Division, KMA, KOR	er Forecast Center, CWB, Taiwan Long range forecast services in KMA and Introduction of Joint Seasonal Forecasting System		

14:55-15:15	Tea Break			
Section 3: Dis	scussion - CWB-NCEP collabo	rations		
Chia-Ping (Mark) Cheng 程家平, Director, R&D Center, CWB, TaiwanR311				
15:15-17:30	 Noticity <u>Hawar</u>, Director, Rub Center, OWB, Hawar Correspondence of the provided state of the provid			
18:00	City Tour			
May 26, Thurs	sday			
Section 4a: G	lobal Weather and Climate Mo	delling and Forecast		
Chair: Chia-Pin	g (Mark) Cheng 程家平, Director, R	&D Center, CWB, Taiwan		
Keynote Spee	ech			
09:10-09:40	Hendrik Tolman Director, EMC/NCEP/NWS/NOAA, USA	Wave modeling at NCEP: WAVEWATCH III and community wave modeling		
09:40-10:00	Ying-Hwa (Bill) Kuo Director, Developmental Testbed Center, Senior Scientist, Mesoscale Prediction Group, NCAR/MMM,USA	Development of a Community Common Physics Package in support of the Next-General Global Prediction System		
10:00-10:20	Hung-Chi Kuo <i>郭鴻基</i> Professor, National Taiwan University, Taiwan	The long-lived concentric eyewall tropical cyclones with large moat and outer eyewall		
10:20-10:30	Tea Break			
10:30-10:50	Huang-Hsiung Hsu 許晃雄 Deputy Director and Research Fellow, Research Center for Environmental Changes, Academia Sinica, Taiwan	Simulating and projecting tropical cyclone activities using HiRAM		
10:50-11:10	Chia-Ying Tu 杜佳潁 Assistant Research Specialist, Research Center for Environmental Changes, Academia, Taiwan	Preliminary Evaluation of High-Resolution GCM Coupled 1-D Ocean Model for MJO Forecast During DYNAMO Period		
11:10-11:30	Li-Huan Hsu 徐理寰 Project Assistant Researcher, Taiwan Typhoon and Flood Research Institute, National Applied Research Labs/MOST, Taiwan	Evaluation of MPAS forecast performance in TTFRI		
11:30-11:50	Jui-Lin (Frank) Li Doctor, Jet Propulsion Laboratory, NASA,USA	Quantification of Systematic Biases of Cloud-Radiation and their Impacts on Global climate Models using Satellite Observations		
11:50-12:10	Chian-Yi Liu 劉千義 Professor, National central university, Taiwan	Assessment of the NWP Model Physical Fields from Radiative Quantity		
12:00-13:30	Lunch Break			

Section 4b: Global Weather and Climate Analysis				
Chair: Ting-Huai Chang 張庭槐, Section Chief, R&D Center, CWB, Taiwan				
13:30-13:50	Chung-Hsiung Sui 隋中興 Professor, National Taiwan University, Taiwan	Interannual Oscillations in the tropical Pacific climate system		
13:50-14:10	Shih-Yu (Simon) Wang Associate Professor, Utah State University, USA	Polar Express: From the Missouri Flood in December 2015 to the Taiwan Snowfall in January 2016		
14:10-14:30	Min-Hui Lo 羅敏輝 Professor, National Taiwan University, Taiwan	Applications of Remote Sensing Dataset on Studies of Biases in Land Surface Models		
14:30-17:40	Breakout discussion meetings Group 1: Marine meteorology forecast <i>R617</i> Group 2: Global weather and climate forecast model development			
R311 × R319 × R501				
17:40	Workshop closing			
18:00	City Tour			

Section 5: Ma	Section 5: Marine Meteorology ForecastR617			
Chair: Chuen-teyr Terng 滕春慈, Director, Marine Meteorology Center, CWB, Taiwan				
14:30-14:40	Chi-Hao Chu <i>朱啟豪</i> Senior Meteorologist, Marine Meteorology Center, CWB, Taiwan	Observation, forecasting and service of Marine Meteorology Center at Central Weather Bureau		
14:40-14:50	Heng-Wen Chang 張恆文 Researcher, Green Energy and Environment Research Laboratories, Industrial Technology Research Institute, Taiwan	Wave ensemble system in CWB		
14:50-15:00	Yang-Ming Fan 范揚洺 Leader of R&D Department, Coastal ocean monitoring center National cheng kung university, Taiwan	Optimization of multi-model ensemble forecasting of typhoon waves		
15:00-15:10	Yu-Lin Tsai 蔡育霖 PhD student, Research Graduate Institute of Hydrological and Oceanic Science, National Central University, Taiwan	Simulation of Storm Surge by a Depth-integrated Non-hydrostatic Nested-gird Model		
15:10-15:20	Hao-Cheng Yu 尤皓正 Postdoc, National Sun Yat-Sen University, Taiwan	A regional ocean current forecast operational system (ROCFORS) for the seas around Taiwan.		
15:20-15:30	Tea Break			
15:30-16:30	Wave simulation team, MMC	Technical discussion I		
16:30-17:30	Surge and current simulation team, MMC	Technical discussion II		
17:30-17:40	Panel Discussion			