

The 3rd Taiwan West Pacific Global Forecast System Development Workshop

第三屆臺灣與西北太平洋全球預報系統發展研討會

CWB, Taipei, Taiwan, June 19 - 22, 2018

CWB conference room 310, 617

PROGRAM

Day 1 - Tuesday, June 19 (room 310)		
Opening Session		
Chair : Chia-Ping (Mark) Cheng 程家平, Director, Meteorological Information Center, CWB, Taiwan		
09:00-09:05	Tien-Chiang Yeh 葉天降 Director General, CWB, Taiwan	Welcome Remarks
09:05-09:15	Ming-Dean Cheng 鄭明典 Deputy Director General, CWB, Taiwan	Objective of the 3rd TWPGFS Development Workshop / Invitee (Panel) introduction
09:15-09:55	Brian Gross Director, EMC/NCEP/NWS/NOAA,USA	Directions of agency and community modeling efforts, pathways for CWB to engage in collaborative research and development
09:55-10:10	Group Photo and Tea Break	
Section 1 : The EMC NGGPS and its New Physics Processes		
Chair : Jen-Her Chen 陳建河, Senior Meteorologist, Meteorological Information Center, CWB, Taiwan		
10:10-10:50	Vijay Tallapragada Global Branch Chief, EMC/NCEP/NWS/NOAA,USA	Development of non-hydrostatic unified modeling system, progress and plan for development of advanced physics in NGGPS era (NGGPS/FV3)
10:50-11:00	Tea Break	
11:00-11:30	RuiYu Sun Senior Scientist EMC/NCEP/NWS/NOAA,USA	Testing of alternate cloud microphysics schemes in NGGPS/FV3
11:30-12:00	FangLin Yang Senior Scientist EMC/NCEP/NWS/NOAA, USA	The installation and evaluation of FV3 dycore and advancement physics in GFS for Q1FY19 operational implementation
12:00-13:30	Lunch Break (room 311)	
Discussion I : Cumulus Parameterization and Others		
Section 2 : CWB/GFS Cumulus Physical Processing and others		
Chair : Jen-Her Chen 陳建河, Senior Meteorologist, Meteorological Information Center, CWB, Taiwan		
13:30-13:40	Mei-Yu Chang 張美玉 Senior Meteorologist, R&D Center, CWB, Taiwan	The Overview of CWB/GFS Physical Parameterization
13:40-14:00	Chang-Hong Lin 林昌鴻 Assistant Researcher, Meteorological Information Center, CWB, Taiwan	The cumulus schemes in CWB/GFS
14:00-15:00	Discussion	
15:00-15:20	Tea Break	
15:20-15:40	Tzu-Ling Lai 賴姿伶, Associate Researcher, Meteorological Information Center, CWB, Taiwan	Gravity drag in CWB/GFS

15:40-16:00	Pei-Hsuan Kuo 郭珮萱 Associate Researcher, Meteorological Information Center, CWB, Taiwan	Ocean Coupling
16:00-17:00	Discussion	
18:00	Conference Dinner	
Day 2- Wednesday, June 20 (room 310)		
Section 3 : The EMC Ensemble Prediction, Data Assimilation, and Postprocesses		
Chair : Jyh-Wen Hwu 胡志文, Associate Researcher, R&D Center, CWB, Taiwan Hui-Lin Chang 張惠玲, Senior Meteorologist, R&D Center, CWB, Taiwan		
09:00-09:30	Yuejian Zhu Ensemble lead EMC/NCEP/NWS/NOAA,USA	Update on FV3-based GEFSv12, plans for weeks 3-4
09:30-10:00	Philip Pegion Senior Scientist ESRL//NOAA,USA	Development and testing of stochastic parameterizations for use in data assimilation and ensemble prediction systems
10:00-10:10	Tea Break	
10:10-10:40	Daryl Kleist Senior Scientist EMC/NCEP/NWS/NOAA,USA	Enhancements to Hybrid 4DEnVar through shifting/lagging, scale-dependent localization, and expanding all-sky capabilities with new GFDL MP
10:40-11:10	Catherine Thomas Senior Scientist EMC/NCEP/NWS/NOAA, USA	Update on data assimilation activities for NGGPS/FV3: impacts on data assimilation within context of new microphysics scheme, cloud analysis, and plans for higher vertical resolution
11:10-11:20	Tea Break	
11:20-11:50	Jason Levit Postprocess and verification lead EMC/NCEP/NWS/NOAA,USA	Current and Future Strategies for Verification and Post-Processing of Numerical Weather Prediction Models at the NOAA Environmental Modeling Center
11:50-12:20	Jun Wang Senior Scientist Engineering and Implementation Branch EMC/NCEP/NWS/NOAA,USA	An overview of the NOAA Environmental Modeling System infrastructure
12:00-13:30	Lunch Break (room 311)	
Discussion II: data assimilation and ensemble prediction		
Section 4: FVGFS in Taiwan, CWB Data Assimilation and Ensemble Prediction		
Chair : Chien-Han (John) Tseng 曾建翰, Senior Meteorologist, R&D Center, CWB, Taiwan		
13:30-14:00	Chia-Ying Tu 杜佳穎 Assistant Research Specialist, RCEC, Academia Sinica	Preliminary evaluation of typhoon forecasts using a variable-resolution fvGFS model
14:00-14:30	Deng-Shun Chen 陳登舜 Assistant Researcher, R&D Center, CWB, Taiwan	Data Assimilation in CWB/GFS
14:30-14:50	Chien-Han (John) Tseng 曾建翰 Senior Meteorologist, R&D Center, CWB, Taiwan	The EPS in CWB/GFS
14:50-15:10	Chung-Ho Horng 洪忠和 Assistant Researcher R&D Center, CWB, Taiwan	The Verification in CWB/GFS
15:10-15:50	Discussion about DA, EPS/SPPT and verification	
15:50-16:00	Tea Break	
16:00-17:00	Round Table Discussion (room 311)	

Day 3- Thursday, June 21 (room 617)	
Section 5 : EMC modeling infrastructure and NGGPS Tutorial	
09:00-10:30	Tutorial Course (1)
10:30-10:40	Tea Break
10:40-12:00	Tutorial Course (2)
12:00-13:30	Lunch break (room 501)
13:30-14:30	Tutorial Course (3)
14:30-14:40	Tea break
14:40-15:40	Tutorial Course (4)
15:40-15:50	Tea break
15:50-16:50	Tutorial Course (5)
Day 4- Friday, June 22	
08:00-17:00	<i>Local tour</i>