ISSI-BJ/ISSI Joint Workshop on *Tropical and Subtropical Cyclones with Improved Satellite Observations*

07-10 May 2018

MONDAY 07 May 2018

Session 1 Introduction and Overview		**Chair:** Xiaolong Dong
8:30-9:00	Registration	
9:00-9:15	Welcome and introduction to ISSI-BJ and workshops	Maurizio Falanga
9:15-9:45	Introduction to the Objectives of the Workshop and general plan of the book	Xiaolong Dong
9:45-10:45	Theory and overview of tropical cyclones	Johnny Chan
10:45-11:15	*Coffee Break*	
11:15-12:00	Tropical cyclone forecast and analysis: progress and challenges	Hui Yu
12:00-13:30	*Lunch*	
Session 2 Observations of Ocean Surface Wind I		**Chair:** Xiaolong Dong
13:30-14:10	Development and status of global ocean surface vector wind constellations & NOAA satellite observations for Cyclones	Paul S. Chang
14:10-14:50	Comparison of the strength and weakness of different methods for measurement and retrieval of winds	Zorana Jelenak
14:50-15:30	China ocean satellite missions and observations for tropical cyclones in northwest Pacific	Juhong Zou
15:30-15:50	*Coffee Break*	
15:50-16:20	Perspective of the dual-frequency FY-3E WindRAD scatterometer for ocean surface wind observations of cyclones	Fangli Dou
16:20-16:50	Estimating hurricane force from satellite microwave measurements	Ad Stoffellen
16:50-17:20	Correlating extremes in wind and stress divergence with extremes in rain over the Tropical Atlantic	Marcos Portabella
18:30-20:30	*Dinner by ISSI-BJ*	

TUESDAY 08 May 2018		
Session 3 Observations of Ocean Surface Wind II		**Chair:** Marcos Portabella
9:00-10:00	Overview of satellite observations of ocean surface wind vector	Mark Bourassa (Remotely)
9:45-10:15	The validation of GNSS-R wind retrievals in the hurricane environment	Zorana Jelenak
10:45-11:10	*Coffee Break*	
11:10-12:00	Ocean surface wind observations by L-band microwave observations	Simon Yueh
12:00-13:30	*Lunch*	
13:30-14:00	Rain effects on scatterometer wind data processing	Wenming Lin
14:00-14:45	Spaceborne Synthetic Aperture Radar (SAR) in tropical cyclone monitoring	Xiaofeng Li/ Xiaofeng Yang
14:45-15:30	Microwave remote sensing of tropical cyclones	Biao Zhang
15:30-15:50	*Coffee Break*	
15:50-16:20	Extreme wind observations by passive microwave	Xiaobin Yin
16:20-16:45	Combined Active/passive retrieval of wind	Xingou Xu (YS)
16:45-17:30	Discussions and plan for the book chapters	Marcos Portabella
17:30-17:40	Wrap up	Xiaolong Dong, Hui Yu

WEDNESDAY 09 MAY 2018		
Sesssion 4 Observations of Atmospheric Thermodynamics and Precipitations		**Chair:** Qifeng Lu
8:30-9:20	Satellite observations and its potential to understanding the thermodynamics of cyclone and precipitation	Qifeng Lu
9:20-9:55	High temporal and spatial resolution observations from FY-4A and its capability in tropical cyclones monitoring	Qiang Guo

9:55-10:30	Development of Microwave Capabilities for geostationary observations of tropical cyclones	Hao Liu
10:30-11:00	*Coffee Break And Group Photo*	
11:00-11:30	Understanding and predicting tropical cyclones with measurements from new generation of weather satellites	Jun Li
11:30-12:00	Operational tropical cyclone monitoring and requirements with multiple spaceborne observations in CMA	Xin Wang (remotely)
12:00-13:30	*Lunch*	
13:30-14:00	Understanding the role of climate in extreme events for predictability and societal applicability	Swadhin Behera
14:00-14:30	Tropical cyclone reconnaissance by the Hong Kong Observatory	K. K. Hon
14:30-15:00	Development of typhoon monitoring system and field experiment in East China	Bingke Zhao
15:00-15:25	Ocean surface pressure by satellite observations	Xiaolong Dong
15:00-15:20	*Coffee Break*	
15:20-15:50	The operational development of the multi-source merged precipitation dataset and its application	Yan Shen
15:50-16:20	Precipitation in tropical cyclones by microwave observations	Jieying He (YS)
16:20-17:10	Discussions and Book chapter plan	Qifeng Lu
17:10-17:20	Wrap up	Xiaolong Dong, Hui Yu
18:30-20:30	*Dinner by MiRS/NSSC*	

THURSDAY 10 May 2018

Session 5 Modeling, Analysis, Assimilation and Forecast		**Chair:** Hui Yu
8:30-9:10	The use of EUMETSAT satellite data for tropical storm monitoring	Kenneth Holmlund
9:10-9:50	Assimilation of observations at ECMWF and their impact on tropical cyclones	Mohamed Dahoui
9:50-10:30	Assimilation of satellite data to improve typhoon forecasts at NWPC of CMA	Wei Han
10:30-10:50	*Coffee Break*	
10:45-11:15	Progress of UPDRAFT project	Yuan Wang
11:15-11:45	Recent advancement of satellite data assimilation with WRFDA	Zhiquan Liu
11:45-12:15	Intensity detection of Western Pacific typhoons with Deviation Angle Variance Technique	Wei Zhong
12:15-13:30	*Lunch*	
13:30-14:00	Radar observations of landfalling tropical cyclones in China	Kun Zhao
14:00-14:30	A simulation study on the rapid intensification of typhoon Meranti (2016) based on the assimilation of ATOVS data	Fan Ping
14:30-15:00	A modelling study of rainfall processes associated with tropical cyclone	Xiaopeng Cui
15:00-15:30	The impacts of mineral dust on ice cloud top temperature inferred from satellite observations and WRF simulation	Rui Li
15:30-15:50	*Coffee Break*	
15:50-16:20	Real-time hybrid EnVAR data assimilation and forecasts for tropical cyclones	Hong Li
16:20-16:50	Parameterizing sea surface temperature cooling induced by tropical cyclones	Xin Liu (YS)
16:50-17:30	Discussion and book chapter plan	Hui Yu
17:30-17:40	Wrap up	Xiaolong Dong, Hui Yu