NTU-KU Joint Workshop on Severe Weather and Climate Impacts in East Asia 21-23 November 2022

Agenda

Venue : Room B105 & A100, Department of Atmospheric Sciences, National Taiwan University

21 November 2022 Monday (Day 1)		
09:40 ~10:00	Registration	(Room B105)
10:00 ~ 10:30	Welcome Session Chair: Profs. Cheng-Ku Yu and Tetsuya Takemi	(Room B105)
	 Opening Remarks: Prof. Chun-Chieh Wu, Dean of the College of Science, Prof. Shigeo Yoden, Kyoto University (video message Introduction to Faculty and Students Group Photo 	, NTU ?)
Session 1	Climate and Large-scale Circulations Chair: Prof. Min-Hui Lo	(Room B105)
10:30 ~ 10:55	Downscaling the impacts of climate change on extreme weather in complex topography. <i>Prof. Tetsuya Takemi*, Disaster Prevention Research Institute, Kyoto</i> <i>University.</i>	
10:55~ 11:20	What is the equivalent depth of the Pekeris mode? <i>Prof. Keiichi Ishioka[*]</i> , <i>Division of Earth and Planetary Sciences, Graduate School of Science, Kyoto University</i> . (online)	
11:20~11:35	Report on coding a mechanistic general circulation model from scratch. <i>Shun Fujita*, Division of Earth and Planetary Sciences, Graduate School of Science, Kyoto University.</i>	
11:35~12:00	Linking Arctic Sea-ice Loss to Midlatitude Surface Climate via Stratos troposphere Coupling. Prof. Yu-Chiao Liang*, Young-Oh Kwon, Claude H Guillaume Gastineau, Karen L. Smith, Lorenzo M. Polvani, Lantao Sun, Ya Clara Deser, Rounan Zhang, and James Screen, Department of Atmospheri National Taiwan University.	phere- Frankignoul, unnick Peings, ic Sciences,
12:00~13:30	Lunch Time (Room B105)	
Session 2.1	Observations, Forecasting and Microphysics Chair: Prof. Tetsuya Takem	1i (Room B105)
13:30~13:55	Observation plan of ice particles in precipitating stratiform cloud. <i>Prof.</i> <i>Shige*, Division of Earth and Planetary Sciences, Graduate School of Scien</i> <i>University</i>	Shoichi nce, Kyoto
13:55~14:20	Skillful forecasts of springtime CONUS tornado activity up to a year in Kai-chih Tseng*, Nathaniel C. Johnson, Andrew T. Wittenberg, Thomas L. E Hosmay Lopez, Dongmin Kim, Arun Kumar, Hui Wang, Feiyu Lu, William C J. Rosati, Liping Zhang, Colleen McHugh, Xiaosong Yang, Matthew Harris Zeng, Hiroyuki Murakami, Mitchell Bushuk and Liwei Jia, Department of A Sciences, National Taiwan University.	a dvance. Prof. Delworth, Cooke, Anthony con, Fanrong atmospheric

14:20~14:45	Typhoon predictions with large-size ensemble simulations and hybrid data	
	Institute. Japan Meteorological Agency.	
14:45~15:00	Narrowing the blind zone of the GPM dual-frequency precipitation radar to improve	
	shallow precipitation detection in mountainous areas. <i>Riku Shimizu*</i> , <i>Shoichi Shige</i> ,	
	Toshio Iguchi, and Cheng-Ku Yu, Division of Earth and Planetary Sciences, Graduate	
	School of Science, Kyoto University.	
15:00~15:30	Coffee/Tea Break	
Session 2.2	Observations, Forecasting and Microphysics Chair: Prof. Po-Hsiung Lin (Room A100)	
15:30~15:55	Taiwan-Area Heavy rain Observation and Prediction Experiment (TAHOPE). Prof. Ming-Jen Yang*, Ming-Dean Cheng, Ching-Yuang Huang, Pay-Liam Lin, Po-Hsiung Lin, Cheng-Shang Lee, Chung-Chieh Wang, Ching-Hwang Liu, Pao-Liang Chang, Jou-Ping Hou, Kao-Shen Chung, Wei-Yu Chang, and Ping-Fang Lin, Department of Atmospheric Sciences, National Taiwan University.	
15:55~16:10	Proposed function for raindrop size distribution in a mixed convective and stratiform	
	precipitating system as revealed by field observations. Megumi Okazaki*, Satoru Oishi,	
	Yasuhiro Awata, Tomoro Yanase, and Tetsuya Takemi. Division of Earth and Planetary	
	Sciences, Graduate School of Science, Kyoto University.	
16:10~16:25	Characteristics of hail-producing convection in Bandung Basin, Indonesia as derived	
	From Himawari-8 nigh resolution data and X-band radar data. H. Ikeda*, S. Shige, K.	
	Kombara Division of Earth and Planetary Sciences Graduate School of Science Kyoto	
	University.	
16:30~17:30	NTU Campus Tour	
18:00~	Banquet at Taidatable (曉鹿鳴樓)	
22 November 2022 Tuesday (Day 2)		
Session 3.1	Tropical Cyclones and Convective Systems Chair: Prof. Shoichi Shige (Room B105)	
10:15 ~ 10:40	Typhoon Rapid Intensification with 200 PVU Convective Potential Vorticity Tower	
	in Numerically Simulated Supertyphoon Haiyan (2013). Prof. Hung-Chi Kuo* and	
	Satoki Tsujino, Department of Atmospheric Sciences, National Taiwan University.	
10:40~ 11:05	A Tale of Two Rapidly-Intensifying Super Typhoons: Hagibis (2019) and Haiyan	
	(2013). Froj. II. Lin ^{**} , Kobert F. Kogers, Hslao-Ching Huang, Yi-Chun Liao, Derrick Harndon, Jin Yi Yu, Ya Ting Chang, Jun A. Zhang, Christing M. Patricola, Jam Foi Dun	
	and Chun-Chi Lien Department of Atmospheric Sciences National Taiwan University	
11:05~11.20	Orographic Precipitation Associated with Typhoon Chanthy (2021) Observed by a	
	Polarimetric Doppler Radar. Tsubaki Hosokawa* and Cheng-Ku Yu, Department of	

	Atmospheric Sciences, National Taiwan University.	
11:20~11:35	Subtropical cyclone controlled by a cut-off low - Case study: Tropical Storm	
	Nepartak (2021). Kenta Irie* and Tetsuya Takemi, Division of Earth and Planetary Sciences, Craduate School of Science, Kyoto University (online)	
12.00, 12.20	L 1 T. (D D105)	
12:00~13:30	Lunch Time (Room B105)	
Session 3.2	Tropical Cyclones and Convective Systems Chair: Prof. Wei-Ting Chen (Room B105)	
13:30~13:45	Orographic Precipitation over Da-Tun Mountain Associated with Typhoon	
	Saola(2012). Ming-Jen Hsu*, Cheng-Ku Yu, and Lin-Wen Cheng, Department of	
12.15.14.00	Atmospheric Sciences, National Taiwan University.	
13:45~14:00	The Multi-scale Interactions between the Long-lived Convective Systems and the	
	Northwest Pacific Monsoon Trough: Satellite Observation Perspectives. Shao-Yu	
	Iseng*, wei-1ing Chen, Department of Atmospheric Sciences, National Taiwan	
14.00~14.15	The Role of Convection in a Minimal Model of OBO-like Oscillation Trung-Yu Tsai*	
11.00 11.15	and Chien-Ming Wu. Department of Atmospheric Sciences, National Taiwan University.	
14:15~14:30	Building a Climatological Model for Typhoon Precipitation Forecast Over Northern	
	Taiwan Based on Radar-Derived Rainfall. Wei-Chiang Lun*, Cheng-Ku Yu, Lin-Wen	
	Cheng, Department of Atmospheric Sciences, National Taiwan Normal University.	
Session 4.1	Diurnal and land effectsChair: Prof. Yen-Ting Huang(Room B105)	
14:30~14:45	Diurnal Cycle of Convective Activity and Environmental Conditions over Yangtze-	
	Huai River Valley during 4-9 July 2020. Ling Tong*, Tetsuya Takemi, Division of Earth	
	and Planetary Sciences, Graduate School of Science, Kyoto University. (online)	
14:45~15:00	Remote response of Maritime Continent's deforestation to the Northern Pacific	
	during the Winter. He-Ming Xiao*, Department of Atmospheric Sciences, National	
15.00 15.15	Taiwan University.	
15:00~15:15	Acki* Shoighi Shiga Division of Earth and Planetary Sciences, Graduate School of	
	Science, Kvoto University	
15:15~15:30	Orographic Locking of Diurnal Convection in Taiwan: Deep-inflow Mixing Features.	
	Yu-Hung Chang*, Wei-Ting Chen, Chien-Ming Wu, Yi-Hung Kuo, and J. David Neelin,	
	Department of Atmospheric Sciences, National Taiwan University.	
15:30~16:00	Coffee/Tea Break	
Session 4.2	Diurnal and land effectsChair: Prof. Chien-Ming Wu(Room B105)	
16:00~16:15	Mean-states Dependence of Deforestation Induced Precipitation Changes in the	
	Maritime Continent. Chun-Lien Chiang*, Ting-Hui Lee, and Min-Hui Lo, Department of	
	Atmospheric Sciences, National Taiwan University.	

16:15~16:30	Uniqueness of Relative Humidity in Cloud Forest Areas in Eastern Taiwan. Tzu-Ying	
	Yang* and Min-Hui Lo, Department of Atmospheric Sciences, National Taiwan	
	University.	
16:30~16:45	Contrasting Responses of Surface Heat Fluxes to Tropical Deforestation. Hung-Chen	
	Chen*and Min-Hui Lo, Department of Atmospheric Sciences, National Taiwan University.	
16:45~17:00	Turbulence Observation. Chen-Wei Chung*, Po-Hsiung Lin, and Yong-Ren Lin,	
	Department of Atmospheric Sciences, National Taiwan University.	
23 November 2022 Wednesday (Day 3)		
9:30~17:30	Free discussion among the attendees and observational site survey	