

2019 Taipei SWEP Workshop

2034 Lecture Hall, RCEC Building, Academia Sinica

Day 1 April 24th (Wednesday)

Time	Program	Oral presentation title / Speaker (affiliation)	Session Chair
08:30-09:00	Registration		
09:00-09:20	Opening Remark		
	Academician Pao K. Wang (王寶貫 院士) Director, Research Center for Environmental Changes, Academia Sinica, Taiwan		
09:20-10:00	Keynote (I)	<i>Satellite observations of gravity waves, generated by convective storms into the upper atmosphere</i> Martin Setvák Czech Hydrometeorological Institute, Czech	Yu-Chieng Liou (廖宇慶) National Central University, Taiwan
10:00-10:25	D1-01	<i>Storm top dynamics - a review</i> Pao K. Wang (王寶貫) Research Center for Environmental Changes, Academia Sinica, Taiwan	
10:25-10:50	D1-02	<i>Diagnosis of the Dynamic Efficiency of Latent Heat Release and the Rapid Intensification of Supertyphoon Haiyan (2013)</i> Hung-Chi Kuo (郭鴻基) National Taiwan University, Taiwan	
10:50-11:10	Group Photo / Break		
11:10-11:35	D1-03	<i>Heavy Rain Events in Taipei, An Observational Study</i> Ben J.-D. Jou (周仲島) National Taiwan University, Taiwan	Chian-Yi Liu (劉千義) National Central University, Taiwan
11:35-12:00	D1-04	<i>Development of variational-based data assimilation systems and their applications in analyzing heavy rainfall processes</i> Yu-Chieng Liou (廖宇慶) National Central University, Taiwan	
12:00-13:30	Lunch		

Time	Program	Oral presentation title / Speaker (affiliation)	Session Chair
13:30-13:55	D1-05	<i>Taiwan-area Heavy rain Observation and Prediction Experiment (TAHOPE)</i> Ming-Jen Yang (楊明仁) National Taiwan University, Taiwan	Shih-Hao Su (蘇世顥) Chinese Culture University, Taiwan
13:55-14:20	D1-06	<i>High-Resolution Time-Lagged Ensemble Quantitative Precipitation Forecasts for Typhoons in Taiwan using the Cloud-Resolving Storm Simulator</i> Chung-Chieh Wang (王重傑) National Taiwan Normal University, Taiwan	
14:20-14:45	D1-07	<i>Steps towards using all-sky radiances for severe weather forecasting</i> Jeffrey Steward University of California, Los Angeles, USA	
14:45-15:10	Break / Poster		
15:10-15:35	D1-08	<i>Developing an extreme rainfall warning system with the machine learning method</i> Shih-Hao Su (蘇世顥) Chinese Culture University, Taiwan	Jeffrey Steward University of California, Los Angeles, USA
15:35-16:00	D1-09	<i>Upper-air Radiosonde and "Storm Tracker" Observations in TASSE 2018</i> Hungjui Yu (尤虹叡) National Taiwan University, Taiwan	
16:00-16:25	D1-10	<i>Shor-Duration Heavy Rainfall Quantitative Precipitation Nowcasting - Toward the Big Ensemble and Radar Data Mining Approach</i> Treng-Shi Huang (黃椿喜) Weather Forecast Center, Central Weather Bureau, Taiwan	
16:25-16:50	D1-11	<i>Essential factors for organization of afternoon thunderstorm in the Taipei basin: A case study on 30 Jun 2018</i> Satoki Tsujino (辻野智紀) National Taiwan University, Taiwan	
18:00	Banquet (Invitation only)		

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Day 2 April 25th (Thursday)

Time	Program	Oral presentation title / Speaker (affiliation)	Session Chair
08:30-09:00	Registration		
09:00-09:40	Keynote (II)	<i>Compositing visible, near-infrared, and infrared wavelengths for meteorological feature identification</i> Jordan Gerth University of Wisconsin-Madison/SSEC, USA	Kao-Shen Chung (鍾高陞) National Central University, Taiwan
09:40-10:05	D2-01	<i>Diurnal Variation of Mesoscale Circulation and Precipitation During Mei-Yu Season over Taiwan and Surrounding Area</i> Pay-Liam Lin (林沛練) National Central University, Taiwan	
10:05-10:30	D2-02	<i>Dynamical Downscaling Simulation and Future Projection of Extreme Precipitation Activities in Taiwan during the Mei-Yu Seasons</i> Wan-Ru Huang (黃婉如) National Taiwan Normal University, Taiwan	
10:30-11:00	Break / Poster		
11:00-11:25	D2-03	<i>Challenges and improvements in short-term precipitation prediction based on the WRF-LETKF radar data assimilation system</i> Shu-Chih Yang (楊舒芝) National Central University, Taiwan	Wan-Ru Huang (黃婉如) National Taiwan Normal University, Taiwan
11:25-11:50	D2-04	<i>Evaluation the performance of very short-term forecast by dual-polarimetric radar observations</i> Kao-Shen Chung (鍾高陞) National Central University, Taiwan	
11:50-12:15	D2-05	<i>Assimilating radar observed and retrieved variables to improve the model convective scale rainfall forecast : OSSE and a real case study</i> Yu-Ting Cheng (鄭羽廷) National Central University, Taiwan	
12:15-13:30	Lunch		

Time	Program	Oral presentation title / Speaker (affiliation)	Session Chair
13:30-13:55	D2-06	<i>Sudden Intensification of Typhoon Hato (2017)</i> Iam-Fei Pun (潘任飛) National Central University, Taiwan	Balaji Kumar Seela National Central University, Taiwan
13:55-14:20	D2-07	<i>Deep Convective Cloud Properties of Tropical Cyclone (TC) Meranti (2016): A Case Study of TC Intensity Change</i> Jason Pajimola Punay National Central University, Taiwan	
14:20-14:45	D2-08	<i>Microphysical Characteristics of Different seasons and type of Precipitation over Northern Taiwan</i> Meng-Tze Lee (李孟澤) National Central University, Taiwan	
14:45-15:10	Break / Poster		
15:10-15:35	D2-09	<i>Raindrop Size Distribution Characteristics of Summer and Winter Season Rainfall Over North Taiwan</i> Balaji Kumar Seela National Central University, Taiwan	Iam-Fei Pun (潘任飛) National Central University, Taiwan
15:35-16:00	D2-10	<i>A sensitivity study of the ventilation effect and the hail's shape parameter on the structures of developing supercells</i> Yen-Liang Chou (周彥良) Research Center for Environmental Changes, Academia Sinica, Taiwan	
16:00-16:25	D2-11	<i>Remote Triggering Effect of a Tropical Cyclone in the Bay of Bengal on a Heavy Rainfall Event in Subtropical East Asia</i> Sho Arakane (荒金匠) Research Center for Environmental Changes, Academia Sinica, Taiwan	
16:25-16:50	D2-12	<i>Characteristics of the Marine Boundary Layer Jet over the South China Sea during the Early Summer Rainy Season of Taiwan</i> Chuan-Chi Tu (涂絹琪) National Central University, Taiwan	

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Day 3 April 26th (Friday)

Time	Program	Oral presentation title / Speaker (affiliation)	Session Chair
08:30-09:00	Registration		
09:00-09:25	D3-01	<i>Tropical cyclone structures as depicted by WWLLN data – Convection asymmetry</i> Shu-Jeng Lin (林書正) Chinese Culture University, Taiwan	Shu-Jeng Lin (林書正) Chinese Culture University, Taiwan
09:25-09:50	D3-02	<i>Characteristics of Deep Convections and Associated Dynamic Conditions from Cloudsat Over the South China Sea and Maritime Continent</i> Chian-Yi Liu (劉千義) National Central University, Taiwan	
09:50-10:15	D3-03	<i>The Numerical Study of Severe Precipitation Induced by Local Circulation in Taiwan</i> Jou-Ping Hou (侯昭平) Chung Cheng Institute of Technology, National Defense University, Taiwan	
10:15-10:35	Break		
10:35-11:00	D3-04	<i>Mechanisms of Orographically Enhanced Precipitation Associated with Typhoon Meari (2011) over Mt. Da-Tun</i> Shaun-Ping Chen (陳渲屏) National Taiwan University, Taiwan	Jou-Ping Hou (侯昭平) Chung Cheng Institute of Technology, National Defense University, Taiwan
11:00-11:25	D3-05	<i>Reconstructed typhoon series 1644-1911 and implications of general atmospheric-oceanic circulation</i> Kuan-Hui Elaine Lin (林冠慧) Research Center for Environmental Changes, Academia Sinica, Taiwan	
11:25-13:30	Discussion & Working Lunch		

Posters

No.	Presenter (affiliation)	Poster Title
P01	Tzu-Chin Tsai (蔡子衿) National Taiwan University, Taiwan	<i>Evaluating the role of physical parameterizations on the simulations of afternoon thunderstorm precipitation with a multi-moment bulkwater microphysics scheme in the WRF mode</i>
P02	Yian Chen National Central University, Taiwan	<i>Verification of multiple-Doppler-radar derived vertical velocity using profiler data</i>
P03	Yi-Chen Liu (劉宜真) National Central University, Taiwan	<i>Cloud Top Features of Atmospheric Convections from Himawari-8</i>
P04	Yu-Chen Lin National Central University, Taiwan	<i>Investigation of the Cloud and Precipitation Properties of Deep Convective Core from CloudSat Observation</i>
P05	Hua Hsu National Taiwan University, Taiwan	<i>Afternoon Thunderstorm in Taipei Basin during Summer</i>
P06	Chi-June Jung National Taiwan University, Taiwan	<i>A Case Study of Afternoon Thunderstorm in Taipei City: Characteristics of Rainfall Structure</i>
P07	Jason Pajimola Punay National Taiwan University, Taiwan	<i>Deep Convective Cloud Properties of Tropical Cyclone (TC) Meranti (2016): A Case Study of TC Intensity Change</i>
P08	Chih-Heng Wang (王志亨) National Central University, Taiwan	<i>Satellite QPE</i>