## Research and perspective of extreme weather and climate events and climate change

氣候變遷、極端氣候與天氣事件之研究與展望

Date: 15-16 May

Venue: GIS NTU Convention Center, Taipei

Time		15 May (Fri) morning	Room: The Forum (國際會議廳)		
08:20-	Registration				
09:00-	Opening & Picture-taking				
09:30					
09:30-	09:30- Atmospheric Sciences and my Career beyond 30 years (Past, Present, and Future)				
10:00	我與大氣科學 30 年 (Past, Present, and Future)				
	Ching-Yen Tsay (蔡清彦), Industrial Technology Research Institute (ITRI) (工業技術研究院)				
10:00-	Coffee Break				
10:20		Keynote I: C	hair: Chih-Pei Chang (張智北)		
10:20-	Regional Climate Change: Impacts of 3D Mountain/Snow and BC deposition				
10:50	Kuo-Nan Liou (廖國男), Department of Atmospheric and Oceanic Sciences, UCLA				
10:50-	Research and Perspective of Mei-Yu in Taiwan				
11:20	Tai-Jen George Chen (陳泰然), Department of Atmospheric Sciences, National Taiwan University				
	Session 1; Chair: Chun-Chieh Wu (吳俊傑)				
11:20-	Is the		r Strengthened Under Global Warming		
11:35	Willia	- m K. M. Lau (劉家銘), Earth System S	cience Interdisciplinary Center, University of Maryland		
11:35-	Predicting Tropical Cyclones and Global Weather in 2100				
11:50	Simon W. Chang (張偉正), Marine Meteorology Division, Naval Research Laboratory				
			Session 2 (Poster)		
		Theme I: Climate; Chair: Cl	nung-Hsiung Sui & William K. M. Lau		
	I-1	Moistening Processes for Intrase	asonal Oscillations		
		Chung-Hsiung Sui ( 隋 中興), Departm	nent of Atmospheric Sciences, National Taiwan University		
	I-2	Transition of Clouds and Convec	tion Associated with MJO: Investigations using Satellite		
		Observations and Numerical Sim	ulations		
		Wei-Ting Chen (陳維婷), Department	t of Atmospheric Sciences, National Taiwan University		
	I-3	Intraseasonal Oscillation and the	Taiwan Climate		
11:50-			nt of Geography, National Taiwan Normal University		
12:02	I-4	<b>,</b> 1	al Cyclone Activity in the South China Sea during Fall		
			t of Maritime Information and Technology, National Kaohsiung		
		Marine University			
	I-5	-	ft on The Interdecadal Change of Tropical Cyclone		
		Activity over Pacific Basin durin	0		
			nent of Earth and Life, University of Taipei		
	I-6	SSTa, SICa, and Extreme Circula			
	 r		ch Center for Environmental Changes, Academia Sinica		
			ion; Chair: Ming-Jen Yang & Ying-Hwa Kuo		
	II-1	•	Efficiency of Typhoon and Squall Line		
	II-2		nt of Atmospheric Sciences, National Taiwan University		
12:02-	11-2	-	phic Precipitation Associated with Typhoons of Atmospheric Sciences, National Taiwan University		
12:12	II-3		ed cloud-resolving model with a partial step surface		
	11-3	topography	a croud-resolving model with a partial step surface		
			ent of Atmospheric Sciences, National Taiwan University		
1	I	Such ming the (TKB), Deputitie	an of randoption bounces, random randan Oniversity		

	II-4 Radar data retrieval and assimilation over complex terrain and the applications on model				
	QPN				
	Yu-Chieng Liou (廖宇慶), Department of Atmospheric Sciences, National Central University				
	II-5 On the Upstream Track Deflection of Tropical Cyclones past Mountain Ranges:				
	Idealized Experiments				
	Ching-Yuang Huang ( 黃清勇), Department of Atmospheric Sciences, National Central University				
Them	Theme III: Aerosol, Land Process and Related Climate Issue; Chair: Wei-Ting Chen & Tzung-May Fu				
	III-1 Impacts of Agricultural Irrigation on local, regional, and remote climate				
	Min-Hui Lo (羅敏輝), Department of Atmospheric Sciences, National Taiwan University				
	III-2 Estimation of foreign versus domestic contributions to Taiwan's air pollution				
	Jen-Ping Chen (陳正平), Department of Atmospheric Sciences, National Taiwan University				
	III-3 Positive but variable sensitivity of August surface ozone to large-scale warming in the				
12:12-	southeast United States				
12:12-	Tzung-May Fu (傅宗政), Department of Atmospheric and Oceanic Sciences, Peking University				
12.22	III-4 Transport and Scavenging of Biomass Burning Aerosols in the Maritime Continent				
	Hsiang-He Lee ( 李湘鶴), Center for Environmental Sensing and Modeling (CENSAM),				
	Singapore-MIT Alliance for Research and Technology (SMART)				
	III-5 Numerical investigation of the coagulation mixing between dust and hygroscopic				
	aerosol particles and its impacts				
	I-Chun Tsai ( 蔡宜君), Research Center for Environmental Changes, Academia Sinica				
Time	15 May (Fri) afternoon Room: The Socrates (蘇格拉底廳)				
12:22-	Lunch + Poster viewing				
14:00	14:00				
Session 3; Chair: Ming-Dah Chou (周明達)					
14:00-	Impact of GPS RO Data on the Prediction of Tropical Cyclogenesis				
14:15	Impact of GPS RO Data on the Prediction of Tropical Cyclogenesis Ying-Hwa Kuo (郭英華), University Corporation for Atmospheric Research				
14:15 14:15-	Impact of GPS RO Data on the Prediction of Tropical Cyclogenesis   Ying-Hwa Kuo (郭英華), University Corporation for Atmospheric Research   From Line Echo Wave Pattern (LEWP) to Bow Echo				
14:15	Impact of GPS RO Data on the Prediction of Tropical Cyclogenesis   Ying-Hwa Kuo (郭英華), University Corporation for Atmospheric Research   From Line Echo Wave Pattern (LEWP) to Bow Echo   Wen-Chau Lee (李文兆), National Center for Atmospheric Research				
14:15 14:15- 14:30	Impact of GPS RO Data on the Prediction of Tropical Cyclogenesis <i>Ying-Hwa Kuo (郭英華), University Corporation for Atmospheric Research</i> From Line Echo Wave Pattern (LEWP) to Bow Echo <i>Wen-Chau Lee (李文兆), National Center for Atmospheric Research</i> Study the Effect of Aerosol Mixing State on Fog Formation in the Central Valley of California				
14:15 14:15-	Impact of GPS RO Data on the Prediction of Tropical Cyclogenesis   Ying-Hwa Kuo (郭英華), University Corporation for Atmospheric Research   From Line Echo Wave Pattern (LEWP) to Bow Echo   Wen-Chau Lee (李文兆), National Center for Atmospheric Research   Study the Effect of Aerosol Mixing State on Fog Formation in the Central Valley of California   Using a Source-Oriented WRF/Chem Model				
14:15 14:15- 14:30 14:30-	Impact of GPS RO Data on the Prediction of Tropical Cyclogenesis   Ying-Hwa Kuo (郭英華), University Corporation for Atmospheric Research   From Line Echo Wave Pattern (LEWP) to Bow Echo   Wen-Chau Lee (季文兆), National Center for Atmospheric Research   Study the Effect of Aerosol Mixing State on Fog Formation in the Central Valley of California   Using a Source-Oriented WRF/Chem Model   Shu-Hua Chen (陳淑華), Department of Land, Air & Water Resources, University of California, Davis				
14:15 14:15- 14:30 14:30-	Impact of GPS RO Data on the Prediction of Tropical Cyclogenesis   Ying-Hwa Kuo (郭英華), University Corporation for Atmospheric Research   From Line Echo Wave Pattern (LEWP) to Bow Echo   Wen-Chau Lee (李文兆), National Center for Atmospheric Research   Study the Effect of Aerosol Mixing State on Fog Formation in the Central Valley of California   Using a Source-Oriented WRF/Chem Model   Shu-Hua Chen (陳淑華), Department of Land, Air & Water Resources, University of California, Davis   Natural and Anthropogenic sources of atmospheric iron deposition in the Northwestern Pacific				
14:15 14:15- 14:30 14:30- 14:45	Impact of GPS RO Data on the Prediction of Tropical Cyclogenesis   Ying-Hwa Kuo (郭英華), University Corporation for Atmospheric Research   From Line Echo Wave Pattern (LEWP) to Bow Echo   Wen-Chau Lee (李文兆), National Center for Atmospheric Research   Study the Effect of Aerosol Mixing State on Fog Formation in the Central Valley of California   Using a Source-Oriented WRF/Chem Model   Shu-Hua Chen (陳淑華), Department of Land, Air & Water Resources, University of California, Davis   Natural and Anthropogenic sources of atmospheric iron deposition in the Northwestern Pacific   Ocean				
14:15   14:15-   14:30   14:30-   14:45	Impact of GPS RO Data on the Prediction of Tropical Cyclogenesis   Ying-Hwa Kuo (郭英華), University Corporation for Atmospheric Research   From Line Echo Wave Pattern (LEWP) to Bow Echo   Wen-Chau Lee (李文兆), National Center for Atmospheric Research   Study the Effect of Aerosol Mixing State on Fog Formation in the Central Valley of California   Using a Source-Oriented WRF/Chem Model   Shu-Hua Chen (陳淑華), Department of Land, Air & Water Resources, University of California, Davis   Natural and Anthropogenic sources of atmospheric iron deposition in the Northwestern Pacific   Ocean   Jen-Ping Chen (陳正平), Department of Atmospheric Sciences, National Taiwan University				
14:15   14:15-   14:30   14:30-   14:45	Impact of GPS RO Data on the Prediction of Tropical Cyclogenesis   Ying-Hwa Kuo (郭英華), University Corporation for Atmospheric Research   From Line Echo Wave Pattern (LEWP) to Bow Echo   Wen-Chau Lee (李文光), National Center for Atmospheric Research   Study the Effect of Aerosol Mixing State on Fog Formation in the Central Valley of California   Using a Source-Oriented WRF/Chem Model   Shu-Hua Chen (陳淑華), Department of Land, Air & Water Resources, University of California, Davis   Natural and Anthropogenic sources of atmospheric iron deposition in the Northwestern Pacific   Ocean   Jen-Ping Chen (陳正平), Department of Atmospheric Sciences, National Taiwan University   From 1987 TAMEX to 2017 SC-YMC the development of instrumentation and measurement				
14:15 14:15- 14:30 14:30- 14:45 14:45- 15:00	Impact of GPS RO Data on the Prediction of Tropical Cyclogenesis   Ying-Hwa Kuo (郭英華), University Corporation for Atmospheric Research   From Line Echo Wave Pattern (LEWP) to Bow Echo   Wen-Chau Lee (季文兆), National Center for Atmospheric Research   Study the Effect of Aerosol Mixing State on Fog Formation in the Central Valley of California   Using a Source-Oriented WRF/Chem Model   Shu-Hua Chen (陳淑華), Department of Land, Air & Water Resources, University of California, Davis   Natural and Anthropogenic sources of atmospheric iron deposition in the Northwestern Pacific   Ocean   Jen-Ping Chen (陳正平), Department of Atmospheric Sciences, National Taiwan University   From 1987 TAMEX to 2017 SC-YMC the development of instrumentation and measurement   program in the department				
14:15   14:15-   14:30   14:30-   14:45   14:45   15:00	Impact of GPS RO Data on the Prediction of Tropical Cyclogenesis   Ying-Hwa Kuo (郭英華), University Corporation for Atmospheric Research   From Line Echo Wave Pattern (LEWP) to Bow Echo   Wen-Chau Lee (李文兆), National Center for Atmospheric Research   Study the Effect of Aerosol Mixing State on Fog Formation in the Central Valley of California   Using a Source-Oriented WRF/Chem Model   Shu-Hua Chen (陳淑華), Department of Land, Air & Water Resources, University of California, Davis   Natural and Anthropogenic sources of atmospheric Sciences, National Taiwan University   From 1987 TAMEX to 2017 SC-YMC the development of instrumentation and measurement   program in the department   Po-Hsiung Lin (林博雄), Department of Atmospheric Sciences, National Taiwan University				
14:15   14:15-   14:30   14:30-   14:45   14:45   15:00	Impact of GPS RO Data on the Prediction of Tropical Cyclogenesis   Ying-Hwa Kuo (郭英華), University Corporation for Atmospheric Research   From Line Echo Wave Pattern (LEWP) to Bow Echo   Wen-Chau Lee (李文兆), National Center for Atmospheric Research   Study the Effect of Aerosol Mixing State on Fog Formation in the Central Valley of California   Using a Source-Oriented WRF/Chem Model   Shu-Hua Chen (陳淑華), Department of Land, Air & Water Resources, University of California, Davis   Natural and Anthropogenic sources of atmospheric Sciences, National Taiwan University   From 1987 TAMEX to 2017 SC-YMC the development of instrumentation and measurement   program in the department   Po-Hsiung Lin (林博雄), Department of Atmospheric Sciences, National Taiwan University   Two stories on clouds and large-scale circulation in global climate models: clouds and polar jet,				
14:15   14:15-   14:30   14:30-   14:45   14:45   15:00   15:15	Impact of GPS RO Data on the Prediction of Tropical Cyclogenesis   Ying-Hwa Kuo (郭英華), University Corporation for Atmospheric Research   From Line Echo Wave Pattern (LEWP) to Bow Echo   Wen-Chau Lee (李文光), National Center for Atmospheric Research   Study the Effect of Aerosol Mixing State on Fog Formation in the Central Valley of California   Using a Source-Oriented WRF/Chem Model   Shu-Hua Chen (陳淑華), Department of Land, Air & Water Resources, University of California, Davis   Natural and Anthropogenic sources of atmospheric iron deposition in the Northwestern Pacific   Ocean   Jen-Ping Chen (陳正乎), Department of Atmospheric Sciences, National Taiwan University   From 1987 TAMEX to 2017 SC-YMC the development of instrumentation and measurement   program in the department   Po-Hsiung Lin (林博雄), Department of Atmospheric Sciences, National Taiwan University   Two stories on clouds and large-scale circulation in global climate models: clouds and polar jet,   clouds and Pacific Decadal Variability				
14:15   14:15-   14:30   14:30-   14:45   14:45   15:00   15:15   15:15-   15:30	Impact of GPS RO Data on the Prediction of Tropical Cyclogenesis   Ying-Hwa Kuo (郭英華), University Corporation for Atmospheric Research   From Line Echo Wave Pattern (LEWP) to Bow Echo   Wen-Chau Lee (李文兆), National Center for Atmospheric Research   Study the Effect of Aerosol Mixing State on Fog Formation in the Central Valley of California   Using a Source-Oriented WRF/Chem Model   Shu-Hua Chen (陳淑華), Department of Land, Air & Water Resources, University of California, Davis   Natural and Anthropogenic sources of atmospheric Sciences, National Taiwan University   From 1987 TAMEX to 2017 SC-YMC the development of instrumentation and measurement   program in the department   Po-Hsiung Lin (林博雄), Department of Atmospheric Sciences, National Taiwan University   Two stories on clouds and large-scale circulation in global climate models: clouds and polar jet,				
14:15   14:15-   14:30   14:30-   14:45   14:45   15:00   15:15   15:15-	Impact of GPS RO Data on the Prediction of Tropical Cyclogenesis   Ying-Hwa Kuo (郭英華), University Corporation for Atmospheric Research   From Line Echo Wave Pattern (LEWP) to Bow Echo   Wen-Chau Lee (李文光), National Center for Atmospheric Research   Study the Effect of Aerosol Mixing State on Fog Formation in the Central Valley of California   Using a Source-Oriented WRF/Chem Model   Shu-Hua Chen (陳淑華), Department of Land, Air & Water Resources, University of California, Davis   Natural and Anthropogenic sources of atmospheric iron deposition in the Northwestern Pacific   Ocean   Jen-Ping Chen (陳正乎), Department of Atmospheric Sciences, National Taiwan University   From 1987 TAMEX to 2017 SC-YMC the development of instrumentation and measurement   program in the department   Po-Hsiung Lin (林博雄), Department of Atmospheric Sciences, National Taiwan University   Two stories on clouds and large-scale circulation in global climate models: clouds and polar jet,   clouds and Pacific Decadal Variability				
14:15   14:15-   14:30   14:30-   14:45   14:45   14:45-   15:00   15:15-   15:30-   15:30-	Impact of GPS RO Data on the Prediction of Tropical Cyclogenesis   Ying-Hwa Kuo (郭英華), University Corporation for Atmospheric Research   From Line Echo Wave Pattern (LEWP) to Bow Echo   Wen-Chau Lee (李文兆), National Center for Atmospheric Research   Study the Effect of Aerosol Mixing State on Fog Formation in the Central Valley of California   Using a Source-Oriented WRF/Chem Model   Shu-Hua Chen (陳淑華), Department of Land, Air & Water Resources, University of California, Davis   Natural and Anthropogenic sources of atmospheric iron deposition in the Northwestern Pacific   Ocean   Jen-Ping Chen (陳正平), Department of Atmospheric Sciences, National Taiwan University   From 1987 TAMEX to 2017 SC-YMC the development of instrumentation and measurement   program in the department   Po-Hsiung Lin (林博雄), Department of Atmospheric Sciences, National Taiwan University   Two stories on clouds and large-scale circulation in global climate models: clouds and polar jet,   clouds and Pacific Decadal Variability   Yen-Ting Hwang (黃彥婷), Department of Atmospheric Sciences, National Taiwan University				
14:15   14:15-   14:30   14:30-   14:45   14:45   14:45-   15:00   15:15-   15:30-   15:30-	Impact of GPS RO Data on the Prediction of Tropical Cyclogenesis   Ying-Hwa Kuo (邦英華), University Corporation for Atmospheric Research   From Line Echo Wave Pattern (LEWP) to Bow Echo   Wen-Chau Lee (李文老), National Center for Atmospheric Research   Study the Effect of Aerosol Mixing State on Fog Formation in the Central Valley of California   Using a Source-Oriented WRF/Chem Model   Shu-Hua Chen (陳滋華), Department of Land, Air & Water Resources, University of California, Davis   Natural and Anthropogenic sources of atmospheric iron deposition in the Northwestern Pacific   Ocean   Jen-Ping Chen (陳正平), Department of Atmospheric Sciences, National Taiwan University   From 1987 TAMEX to 2017 SC-YMC the development of instrumentation and measurement   program in the department   Po-Hsiung Lin (林博雄), Department of Atmospheric Sciences, National Taiwan University   Two stories on clouds and large-scale circulation in global climate models: clouds and polar jet,   clouds and Pacific Decadal Variability   Yen-Ting Hwang (黃彥錄), Department of Atmospheric Sciences, National Taiwan University   Coffee Break				
14:15   14:15-   14:30   14:30-   14:45   14:45   14:45   15:00   15:15   15:15-   15:30   15:30-   15:45	Impact of GPS RO Data on the Prediction of Tropical Cyclogenesis   Ying-Hwa Kuo (郭英華), University Corporation for Atmospheric Research   From Line Echo Wave Pattern (LEWP) to Bow Echo   Wen-Chau Lee (季文光), National Center for Atmospheric Research   Study the Effect of Aerosol Mixing State on Fog Formation in the Central Valley of California   Using a Source-Oriented WRF/Chem Model   Shu-Hua Chen (陳淑華), Department of Land, Air & Water Resources, University of California, Davis   Natural and Anthropogenic sources of atmospheric iron deposition in the Northwestern Pacific   Ocean   Jen-Ping Chen (陳正平), Department of Atmospheric Sciences, National Taiwan University   From 1987 TAMEX to 2017 SC-YMC the development of instrumentation and measurement   program in the department   Po-Hsiung Lin (林博雄), Department of Atmospheric Sciences, National Taiwan University   Two stories on clouds and large-scale circulation in global climate models: clouds and polar jet,   clouds and Pacific Decadal Variability   Yen-Ting Hwang (黃彥婷), Department of Atmospheric Sciences, National Taiwan University   Coffee Break   Session 4; Chair: Hung-Chi Kuo (郭鴻基)				
14:15   14:15-   14:30   14:30-   14:45   14:45   14:45   15:00   15:15   15:15-   15:30   15:45-	Impact of GPS RO Data on the Prediction of Tropical Cyclogenesis   Ying-Hwa Kuo (郭英華), University Corporation for Atmospheric Research   From Line Echo Wave Pattern (LEWP) to Bow Echo   Wen-Chau Lee (季文光), National Center for Atmospheric Research   Study the Effect of Aerosol Mixing State on Fog Formation in the Central Valley of California   Using a Source-Oriented WRF/Chem Model   Shu-Hua Chen (陳蓮華), Department of Land, Air & Water Resources, University of California, Davis   Natural and Anthropogenic sources of atmospheric iron deposition in the Northwestern Pacific   Ocean   Jen-Ping Chen (陳蓮華), Department of Atmospheric Sciences, National Taiwan University   From 1987 TAMEX to 2017 SC-YMC the development of instrumentation and measurement   program in the department   Po-Hsiung Lin (林博雄), Department of Atmospheric Sciences, National Taiwan University   Two stories on clouds and large-scale circulation in global climate models: clouds and polar jet,   clouds and Pacific Decadal Variability   Yen-Ting Hwang (黃彥歩), Department of Atmospheric Sciences, National Taiwan University   Coffee Break   Session 4; Chair: Hung-Chi Kuo (郭鴻基)   Deep convective cross-tropopause transport of water vapor				

16:15-	CWB's monthly and seasonal forecast development in relation to extreme climate events and			
16:30	climate change			
10:50	Mong-Ming Lu (盧孟明), Research and Development Center, Central Weather Bureau			
16:30-	Changes of precipitation patterns in Monsoon Asia associated with global warming			
16:45	Jia-Yuh Yu (余嘉裕), Department of Atmospheric Sciences, Chinese Culture University			
16:45-	How much rainfall extremes associated with Typhoon Morakot (2009) can be attributable to			
17:00	anthropogenic influences?			
17.00	Cheng-Ta Chen (陳正達), Depar	rtment of Earth Sciences, National Taiwan Normal University		
Time	16 May (Sat) morning	Room: The Socrates (蘇格拉底廳)		
Keynote II; Chair: Jen-Ping Chen (陳正平)				
09:00-	Trends of regional precipitation and their control mechanisms during the 1979–2013 global			
09:30	warming			
	Shaw-Chen Liu (劉紹臣), Research Center for Environmental Changes, Academia Sinica			
Session 5; Chair: Chung-Hsiung Sui (隋中興)				
09:30-	Influences of stratospheric o	zone changes on Antarctic sea ice		
09:45	Yongyun Hu ( 胡永云), Department of Atmospheric Oceanic Sciences, Peking University			
09:45-	What causes divergent projections of ENSO amplitude change under global warming in CMIP5			
10:00	models?			
10.00	Tim Li ( 李天明), IPRC and Department of Atmospheric Sciences, SOEST, University of Hawaii			
10:00- 10:15	Typhoon researches at HyARC and future collaboration with the NTU atmospheric science			
	group			
10.15	Kazuhisa Tsuboki, Hydrospheric	-Atmospheric Research Center (HyARC), Nagoya University		
10:15- 10:30	Aerosol-cloud microphysics-radiation interactions: A case study of stratocumulus clouds over			
	Southeast Pacific			
	Wei-Chyung Wang (王,維強), Atmospheric Sciences Research Center, State University of New York at Albany.			
10:30-		borations on Extreme Weather in Changing Climate in the Maritime		
10:30- 10:45	Continent			
10:45				
10:45 10:45-	Continent			
10:45	Continent Shigeo Yoden, Department of Ge	ophysics, Kyoto University Coffee break		
10:45 10:45- 11:00	Continent Shigeo Yoden, Department of Ge	ophysics, Kyoto University Coffee break sion 6; Chair: Cheng-Shang Lee (李清勝)		
10:45 10:45- 11:00 11:00-	Continent <i>Shigeo Yoden, Department of Ge</i> <b>Ses</b> Regional Climate Change in	ophysics, Kyoto University Coffee break sion 6; Chair: Cheng-Shang Lee (李清勝) CORDEX-East Asia		
10:45 10:45- 11:00 11:00- 11:15	Continent <i>Shigeo Yoden, Department of Ge</i> <b>Ses</b> Regional Climate Change in <i>Dong-Kyou Lee, School of Earth</i>	ophysics, Kyoto University Coffee break sion 6; Chair: Cheng-Shang Lee (李清勝) CORDEX-East Asia and Environmental Sciences, Seoul National University		
10:45 10:45- 11:00 11:00- 11:15 11:15-	Continent <i>Shigeo Yoden, Department of Ge</i> <b>Ses</b> Regional Climate Change in <i>Dong-Kyou Lee, School of Earth</i> A Study of Typhoon Rainfal	ophysics, Kyoto University Coffee break sion 6; Chair: Cheng-Shang Lee (李清勝) CORDEX-East Asia and Environmental Sciences, Seoul National University l in Taiwan		
10:45 10:45- 11:00 11:00- 11:15 11:15- 11:30	Continent Shigeo Yoden, Department of Ge Ses Regional Climate Change in Dong-Kyou Lee, School of Earth A Study of Typhoon Rainfal Cheng-Shang Lee (李清勝), Dep	ophysics, Kyoto University Coffee break sion 6; Chair: Cheng-Shang Lee (李清勝) CORDEX-East Asia and Environmental Sciences, Seoul National University 1 in Taiwan partment of Atmospheric Sciences, National Taiwan University		
10:45 10:45- 11:00 11:00- 11:15 11:15- 11:30 11:30-	Continent Shigeo Yoden, Department of Ge Ses Regional Climate Change in Dong-Kyou Lee, School of Earth A Study of Typhoon Rainfal Cheng-Shang Lee (李清勝), Dep Quantitative Precipitation Es	ophysics, Kyoto University Coffee break sion 6; Chair: Cheng-Shang Lee (李清勝) CORDEX-East Asia and Environmental Sciences, Seoul National University 1 in Taiwan partment of Atmospheric Sciences, National Taiwan University stimation using S-Band Polarimetric Radars in Taiwan Meiyu Season		
10:45 10:45- 11:00 11:00- 11:15 11:15- 11:30 11:30- 11:45	Continent Shigeo Yoden, Department of Ge Ses Regional Climate Change in Dong-Kyou Lee, School of Earth A Study of Typhoon Rainfal Cheng-Shang Lee (李清勝), Dep Quantitative Precipitation Ess Ben Jong-Dao Jou (周仲島), Dep	ophysics, Kyoto University Coffee break sion 6; Chair: Cheng-Shang Lee (李清勝) CORDEX-East Asia and Environmental Sciences, Seoul National University 1 in Taiwan partment of Atmospheric Sciences, National Taiwan University stimation using S-Band Polarimetric Radars in Taiwan Meiyu Season apartment of Atmospheric Sciences, National Taiwan University		
10:45 10:45- 11:00 11:00- 11:15 11:15- 11:30 11:30- 11:45 11:45-	Continent Shigeo Yoden, Department of Ge Ses Regional Climate Change in Dong-Kyou Lee, School of Earth A Study of Typhoon Rainfal Cheng-Shang Lee (李清勝), Dep Quantitative Precipitation Es Ben Jong-Dao Jou (周仲島), Dee	ophysics, Kyoto University Coffee break sion 6; Chair: Cheng-Shang Lee (李清勝) CORDEX-East Asia and Environmental Sciences, Seoul National University 1 in Taiwan partment of Atmospheric Sciences, National Taiwan University stimation using S-Band Polarimetric Radars in Taiwan Meiyu Season partment of Atmospheric Sciences, National Taiwan University ction in the Tropical Cyclone		
10:45 10:45- 11:00 11:00- 11:15 11:15- 11:30 11:30- 11:45 11:45- 12:00	Continent Shigeo Yoden, Department of Ge Ses Regional Climate Change in Dong-Kyou Lee, School of Earth A Study of Typhoon Rainfal Cheng-Shang Lee (李清勝), Dep Quantitative Precipitation Ess Ben Jong-Dao Jou (周仲島), De Wavenumber-2 Deep Conve Hung-Chi Kuo (郭鴻基), Depart	ophysics, Kyoto University Coffee break sion 6; Chair: Cheng-Shang Lee (李清勝) CORDEX-East Asia and Environmental Sciences, Seoul National University I in Taiwan partment of Atmospheric Sciences, National Taiwan University stimation using S-Band Polarimetric Radars in Taiwan Meiyu Season partment of Atmospheric Sciences, National Taiwan University ction in the Tropical Cyclone tment of Atmospheric Sciences, National Taiwan University		
10:45 10:45- 11:00 11:00- 11:15 11:15- 11:30 11:30- 11:45 11:45- 12:00 12:00-	Continent Shigeo Yoden, Department of Ge Ses Regional Climate Change in Dong-Kyou Lee, School of Earth A Study of Typhoon Rainfal Cheng-Shang Lee (李清勝), Dep Quantitative Precipitation Es Ben Jong-Dao Jou (周仲島), De Wavenumber-2 Deep Conve Hung-Chi Kuo (郭鴻基), Depart From Targeted Observation to	ophysics, Kyoto University Coffee break sion 6; Chair: Cheng-Shang Lee (李清勝) CORDEX-East Asia and Environmental Sciences, Seoul National University I in Taiwan partment of Atmospheric Sciences, National Taiwan University stimation using S-Band Polarimetric Radars in Taiwan Meiyu Season partment of Atmospheric Sciences, National Taiwan University ction in the Tropical Cyclone tment of Atmospheric Sciences, National Taiwan University to Eyewall Dynamics: Progress from 2005 to 2015		
10:45 10:45- 11:00 11:00- 11:15 11:15- 11:30 11:30- 11:45 11:45- 12:00	Continent Shigeo Yoden, Department of Ge Ses Regional Climate Change in Dong-Kyou Lee, School of Earth A Study of Typhoon Rainfal Cheng-Shang Lee (李清勝), Dep Quantitative Precipitation Es Ben Jong-Dao Jou (周仲島), De Wavenumber-2 Deep Conve Hung-Chi Kuo (郭鴻基), Depart From Targeted Observation to	ophysics, Kyoto University Coffee break sion 6; Chair: Cheng-Shang Lee (李清勝) CORDEX-East Asia and Environmental Sciences, Seoul National University I in Taiwan partment of Atmospheric Sciences, National Taiwan University stimation using S-Band Polarimetric Radars in Taiwan Meiyu Season partment of Atmospheric Sciences, National Taiwan University ction in the Tropical Cyclone tment of Atmospheric Sciences, National Taiwan University		
10:45 10:45- 11:00 11:00- 11:15 11:15- 11:30 11:30- 11:45- 11:45- 12:00 12:00- 12:15 Time	Continent Shigeo Yoden, Department of Ge Ses Regional Climate Change in Dong-Kyou Lee, School of Earth A Study of Typhoon Rainfal Cheng-Shang Lee (李清勝), Dep Quantitative Precipitation Es Ben Jong-Dao Jou (周仲島), De Wavenumber-2 Deep Conve Hung-Chi Kuo (郭鴻基), Depart From Targeted Observation to	ophysics, Kyoto University Coffee break sion 6; Chair: Cheng-Shang Lee (李清勝) CORDEX-East Asia and Environmental Sciences, Seoul National University I in Taiwan partment of Atmospheric Sciences, National Taiwan University stimation using S-Band Polarimetric Radars in Taiwan Meiyu Season partment of Atmospheric Sciences, National Taiwan University ction in the Tropical Cyclone tment of Atmospheric Sciences, National Taiwan University to Eyewall Dynamics: Progress from 2005 to 2015		
10:45 10:45- 11:00 11:00- 11:15 11:15- 11:30 11:30- 11:45- 11:45- 12:00- 12:15 <b>Time</b> 12:30-	Continent Shigeo Yoden, Department of Ge Ses Regional Climate Change in Dong-Kyou Lee, School of Earth A Study of Typhoon Rainfal Cheng-Shang Lee (李清勝), Dep Quantitative Precipitation Es Ben Jong-Dao Jou (周仲島), De Wavenumber-2 Deep Conve Hung-Chi Kuo (郭鴻基), Depart From Targeted Observation to Chun-Chieh Wu (吳俊傑), Depart	ophysics, Kyoto University Coffee break sion 6; Chair: Cheng-Shang Lee (李清勝) CORDEX-East Asia and Environmental Sciences, Seoul National University 1 in Taiwan partment of Atmospheric Sciences, National Taiwan University stimation using S-Band Polarimetric Radars in Taiwan Meiyu Season partment of Atmospheric Sciences, National Taiwan University ction in the Tropical Cyclone tment of Atmospheric Sciences, National Taiwan University to Eyewall Dynamics: Progress from 2005 to 2015 rtment of Atmospheric Sciences, National Taiwan University		
10:45 10:45- 11:00 11:00- 11:15 11:15- 11:30 11:30- 11:45 11:45- 12:00 12:00- 12:15 <b>Time</b> 12:30- 13:30	Continent Shigeo Yoden, Department of Ge Ses Regional Climate Change in Dong-Kyou Lee, School of Earth A Study of Typhoon Rainfal Cheng-Shang Lee (李清勝), Dep Quantitative Precipitation Es Ben Jong-Dao Jou (周仲島), De Wavenumber-2 Deep Conve Hung-Chi Kuo (郭鴻基), Depart From Targeted Observation to Chun-Chieh Wu (吳俊傑), Depart	ophysics, Kyoto University Coffee break sion 6; Chair: Cheng-Shang Lee (李清勝) CORDEX-East Asia and Environmental Sciences, Seoul National University 1 in Taiwan partment of Atmospheric Sciences, National Taiwan University stimation using S-Band Polarimetric Radars in Taiwan Meiyu Season partment of Atmospheric Sciences, National Taiwan University ction in the Tropical Cyclone tment of Atmospheric Sciences, National Taiwan University to Eyewall Dynamics: Progress from 2005 to 2015 rtment of Atmospheric Sciences, National Taiwan University To be held in the Department of Atmospheric Sciences, NTU Lunch		
10:45 10:45- 11:00 11:00- 11:15 11:15- 11:30- 11:30- 11:45- 12:00- 12:00- 12:15 Time 12:30- 13:30- 13:30-	Continent Shigeo Yoden, Department of Ge Ses Regional Climate Change in Dong-Kyou Lee, School of Earth A Study of Typhoon Rainfal Cheng-Shang Lee (李清勝), Dep Quantitative Precipitation Es Ben Jong-Dao Jou (周仲島), De Wavenumber-2 Deep Conve Hung-Chi Kuo (郭鴻基), Depart From Targeted Observation to Chun-Chieh Wu (吳俊傑), Depart	ophysics, Kyoto University   Coffee break   sion 6; Chair: Cheng-Shang Lee (李清勝)   CORDEX-East Asia   and Environmental Sciences, Seoul National University   1 in Taiwan   partment of Atmospheric Sciences, National Taiwan University   stimation using S-Band Polarimetric Radars in Taiwan Meiyu Season   partment of Atmospheric Sciences, National Taiwan University   ction in the Tropical Cyclone   tment of Atmospheric Sciences, National Taiwan University   to Eyewall Dynamics: Progress from 2005 to 2015   rtment of Atmospheric Sciences, National Taiwan University   to Eyewall Dynamics: Progress from 2005 to 2015   rtment of Atmospheric Sciences, National Taiwan University   To be held in the Department of Atmospheric Sciences, NTU   Lunch   NTU AS Celebration Activity		
10:45 10:45- 11:00 11:00- 11:15 11:15- 11:30 11:30- 11:45 11:45- 12:00 12:00- 12:15 <b>Time</b> 12:30- 13:30	Continent Shigeo Yoden, Department of Ge Ses Regional Climate Change in Dong-Kyou Lee, School of Earth A Study of Typhoon Rainfal Cheng-Shang Lee (李清勝), Dep Quantitative Precipitation Es Ben Jong-Dao Jou (周仲島), De Wavenumber-2 Deep Conve Hung-Chi Kuo (郭鴻基), Depart From Targeted Observation to Chun-Chieh Wu (吳俊傑), Depart	ophysics, Kyoto University Coffee break sion 6; Chair: Cheng-Shang Lee (李清勝) CORDEX-East Asia and Environmental Sciences, Seoul National University 1 in Taiwan partment of Atmospheric Sciences, National Taiwan University stimation using S-Band Polarimetric Radars in Taiwan Meiyu Season partment of Atmospheric Sciences, National Taiwan University ction in the Tropical Cyclone tment of Atmospheric Sciences, National Taiwan University to Eyewall Dynamics: Progress from 2005 to 2015 rtment of Atmospheric Sciences, National Taiwan University To be held in the Department of Atmospheric Sciences, NTU Lunch		

