

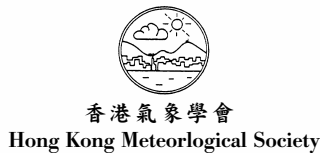
East Asia and Western Pacific Meteorology and Climate
+ Hong Kong Meteorological Society 25th Anniversary

第五屆東亞與西太平洋氣象與氣候研討會
暨香港氣象學會 25 周年

2-4 November 2013
Hong Kong, China



Co-organized by



Foreword



This year marks the 25th Anniversary of the Hong Kong Meteorological Society. Incidentally it is also the 130th Anniversary of the Hong Kong Observatory. In the past few months, I have taken time to dig into the history of both and am very impressed by the foresight, innovation and hard work of my predecessors. A case in point is of course the establishment of the Hong Kong Meteorological Society to serve as the bridge for exchanges between meteorologists from both sides of the Strait and across the Pacific Ocean. The organizers also had the foresight of the growing importance of climate change and had included climate as one of the main themes

of the First Conference on the East Asia and Western Pacific Meteorology and Climate held on 6-8 July 1989. It was also the first Chinese-English bilingual meteorology conference that had ever been held in the world. In the following decade, the Conference was held for three more occasions. You would find more about what went into the successful organisation of these conferences in the Memoir written by Prof. C.P. Chang, published as a supplement to this Conference pamphlet.

As we celebrate the 25th Anniversary of the Society, we are very pleased to hold the Fifth Conference on East Asia and Western Pacific Meteorology and Climate back here in Hong Kong. I am particularly delighted that we are joined by many of those who were present at the first meeting. Apart from old friends, there are also new faces. In total, more than 100 scientists have registered in this Conference with more than 50 number of talks and posters to be presented. This Conference is also one of the first to engage meteorologists on both sides of the Strait to discuss the 5th Assessment Report issued recently by the Intergovernmental Panel on Climate Change (IPCC). It is hoped that through the presentations and discussions, we would further promote the sharing of our knowledge in meteorology and climate, reinforce our friendship, and jointly explore future collaboration opportunities.

Last but not the least, I would like to thank the Hong Kong University of Science and Technology and the World Green Organisation, for their financial support to co-organize this Conference. Special thanks also go to the other co-organizers: the Chinese-American Oceanic and Atmospheric Association, the Chinese University of Hong Kong, and the Hong Kong Observatory.

C.M. Shun
Chair, Hong Kong Meteorological Society
2 November 2013



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**Names in alphabetical order*

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Hong Kong

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Taipei

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Professor CHANG, Chih-Pei
Monterey, California and Taipei

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Hong Kong

Dr LEE, Boon-Ying
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Professor CHEN, Tai-Jen George
Taipei

Professor HU, Yongyun
Beijing

Professor JIAO, Meiyun
Beijing

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Taipei

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Greenbelt, Maryland

Professor LAU, Kai-Hon Alexis
Hong Kong

Ms LAU, Sum-Yee Sharon
Hong Kong

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Chungli

Professor MIN, Jinzhong
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Guangzhou

Professor WU, Chun-Chieh
Taipei

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Nanjing

Dr YEH, Tien-Chiang
Taipei

Professor ZHAI, Panmao
Beijing

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* 以繁體姓名劃數排序

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北京

會議科學委員會

Conference Science Committee

* 以繁體姓名劃數排序
*Names in alphabetical order

Mr CHENG, Mark
Taipei

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Fairfax, Virginia

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Beijing

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Professor FUNG, Chi-Hung Jimmy
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Dr LAM, Hok-Yin
Hong Kong

Dr LI, Ping-Wah
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北京

盧孟明博士
台北

Conference Agenda

2 November 2013 (Sat) Venue: HKUST

08:45 – 09:00	<i>Registration</i>
09:00 – 09:15	Opening Session
09:15 – 10:15 (plenary)	Specially Invited Speeches
10:15 – 11:00	Photo Session & <i>Coffee Break</i>
11:00 – 12:30 (plenary)	Session 1: Climate Change
12:30 – 14:00	<i>Lunch</i>
14:00 – 15:45 (plenary)	Session 2: Extreme Weather
15:45 – 16:00	<i>Coffee Break</i>
16:00 – 18:00 (parallel)	Session 2a: Extreme Weather
16:00 – 17:45 (parallel)	Session 2b: Extreme Weather
18:00 – 21:00	Conference and Hong Kong Meteorological Society 25th Anniversary Dinner

3 November 2013 (Sun) Venue: HKUST

09:00 – 10:45 (plenary)	Session 3: Climate Change, including IPCC AR5
10:45 – 11:00	<i>Coffee Break</i>
11:00 – 12:45 (parallel)	Session 4a: Global Development on Climate Change Research and Adaptation, including GFCS
11:00 – 12:30 (parallel)	Session 4b: Global Development on Climate Change Research and Adaptation, including GFCS
12:30 – 13:00	<i>Lunch</i>
13:00 – 18:00	Excursion (optional)
18:00 – 22:00	Hong Kong Observatory 130th Anniversary Dinner (optional)

4 November 2013 (Mon) Venue: HKO

08:50 – 09:00	Presentation of the Best Student Presentation Award
09:00 – 10:45	Session 5: The Role of Meteorological Societies in Society
10:45 – 11:00	<i>Coffee Break</i>
11:00 – 11:45	Session 6: Panel Discussion
11:45 – 12:00	Closing Remarks

HKUST – Hong Kong University of Science and Technology (See Map A)

HKO – Hong Kong Observatory (See Map C)

Programme (Day 1, 2 November 2013)

09:00 – 09:15 **Opening Session** **Venue: LTC**

09:15 – 10:15 **Specially Invited Speeches** **Venue: LTC**

LAM, Chiu Ying DING, Yihui CHANG, Chih Pei

CHEN, Tai-Jen George ANTHES, Richard A LIU, Chao-Han

Session 1: Climate Change **Chair: CHEN, Hongbin** **Venue: LTC**

11:00 – 11:15 Winter/Spring Rainfall Anomalies in Eastern China
LI, Chongyin, Xiaolong JIA & Xuxu BAI

11:15 – 11:30 Analysis of Climate Trends in Tropical Rainfall
SUI, Chung-Hsiung, Lin CHING, Ming-Jen YANG & Pay-Liam LIN

11:30 – 11:45 Rapid Arctic Ice Melt
KRISHNAMURTI, T. N., Ruby KRISHNAMURTI, Sweta DAS, Jay KUMAR & A. SIMON

11:45 – 12:00 Antarctic Stratospheric Warming and Eastward Phase-Shift of Planetary Waves
HU, Yongyun & Lijun TAO

12:00 – 12:15 East Asian Precipitation Pattern: Competition between Monsoon
DAI, Xingang, Kaijing ZHANG & Ping WANG

12:15 – 12:30 The East Asian Winter Monsoon: Re-amplification in the Mid-2000s
WANG, Lin & Wen CHEN

Session 2: Extreme Weather **Chair: WU, Chun-Chieh** **Venue: LTC**

14:00 – 14:15 臺灣地區颱風風速特性分析
葉天降 和 王惠民

14:15 – 14:30 全球變暖背景下中國極端降水變化特徵及影響因子分析
閔錦忠、史文麗 和 鄧偉濤

14:30 – 14:45 Recent Research on A Multi-moment Microphysics Scheme for Numerical Prediction of Extreme Weather
YAU, Peter M.K.

14:45 – 15:00 Model Simulation and Projection of East Asian Heat Waves in Present-Day and Future Climates
LAU, Gabriel

15:00 – 15:15 Climate Change related Increase in flood risks for Hong Kong and the Pearl River Delta
LAU, Alexis K.H., Qiwei YU, H.Y. LAU, W. BARRON & N.C. LAU

15:15 – 15:30 The Damage Survey and Radar Analyses on The Historic First Tornado in Beijing on 21 July 2012
MENG, Zhiyong

15:30 – 15:45 Space Observation of Ocean Surface Wind and Stress for Weather and Climate Applications
LIU, W Timothy

Programme (Day 1, 2 November 2013)

Session 2a: Extreme Weather (parallel) Chair: LAU, Gabriel Venue: LTC

- 16:00 – 16:15 Synoptic-scale Controls of Persistent Low Temperature and Icy Weather over Southern China in January 2008
ZHOU, Wen, Johnny C. L. CHAN, Wen CHEN, Jian LING, Joaquim G. PINTO & Yaping SHAO
- 16:15 – 16:30 東亞副熱帶西風急流活動與長江中下游梅雨異常的關係
金榮花 和 李維京
- 16:30 – 16:45 Numerical Studies on Heavy Rainfall Events over Northern Taiwan in Mei-Yu Season
LIN, Pay-Liam, Chih-Yin CHEN, Chin-Sen CHEN & Yi-Leng CHEN
- 16:45 – 17:00 Seasonal Prediction of Vey Hot Days in Hong Kong Using CFSv2
TAM, Chi Yung Francis, L.W. KIT & K. YE
- 17:00 – 17:15* Comparison of model skills between WRF and hWRF
GAO, G., J.C.H. FUNG and A.K.H. LAU
- 17:15 – 17:30 Springtime Cloud Properties in The Taiwan Strait: Synoptic Controls and Local Processes
KUEH, Mien-Tze & Pay-Liam LIN
- 17:30 – 17:45* Influences of the Pacific-Japan Teleconnection Pattern on Synoptic-scale Variability in The Western North Pacific
LI, Richard C. Y., Wen ZHOU & Tim LI
- 17:45 – 18:00* The Impact on East Asian Temperature due to Different Paths of Transient Wave at the Mid-troposphere
LEUNG, Marco Yu-ting, Hoffman H. N. CHEUNG & Wen ZHOU

Session 2b: Extreme Weather (parallel) Venue: Room 1504

Chair: LAU, William

- 16:00 – 16:15 Modeling the Effects of Land-sea Contrast on Tropical Cyclone Precipitation under Environmental Vertical Wind shear
LI, Yubin, **Kevin CHEUNG** & Johnny CHAN
- 16:15 – 16:30 Progress of The DOTSTAR Program in The Past 10 Years
WU, Chun-Chieh, Yi-Hsuan HUANG & Shin-Ping KUAN
- 16:30 – 16:45 Tropical Cyclone Reconnaissance Flights over South China Sea
WONG, Wai-kin
- 16:45 – 17:00 Operational Review on The 10-year (2003-2012) Typhoon Surveillance Flight Observation with Dropsondes and Their Statistical Feature of Outer Core in Western Pacific Region
LIN, Po-Hsiung, Chun-Chieh WU & Kun-Hsuan CHOU
- 17:00 – 17:15 Water Budget and Precipitation Efficiency of Morakot (2009)
YANG, Ming-Jen, Hsiao-Ling HUANG & Chung-Hsiung SUI
- 17:15 – 17:30 An Ocean Coupling Potential Intensity Index for Tropical Cyclones
LIN I.-I., P. BLACK, J. F. PRICE, C.-Y. YANG, S. S. CHEN, C.-C. LIEN, P. HARR, N.-H. CHI, C.-C. WU & E. A. D'ASARO
- 17:30 – 17:45 A Modeling Study of Multi-scale Nature of Tropical Cyclone Activities in June 2004
CHING, Lin, Pay-Liam LIN, Ming-Jen YANG & Chung-Hsiung SUI

Papers indicated with an asterisk "*" are student papers.

Programme (Day 2, 3 November 2013)

Session 3: Climate Change, including IPCC AR5

Venue: LTC

Chair: DING, Yihui

- 09:00 – 09:15 Future Changes in Tropical Rainfall and Large-scale Circulation under Global Warming from CMIP5 Model Projections
LAU, William
- 09:15 – 09:30 The Role of Thunderstorms in The Global Cross-tropopause Transport
WANG, Pao-Kuan
- 09:30 – 09:45 Temperature Projection for Hong Kong in the 21st Century Using CMIP5 Models
TONG, Hang-wai & Ho Sun CHAN
- 09:45 – 10:00 Evaluation of Precipitation-Surface Temperature Relationship in IPCC CMIP5 Models
WU, Renguang, Jiepeng CHEN & Zhiping WEN
- 10:00 – 10:15* Spatiotemporal Evolution of Climate Extremes During the 21st Century in China
LI, Jianfeng, Qiang ZHANG, Yongqin David CHEN & Vijay P. SINGH
- 10:15 – 10:30* Present and Future Climate Conditions of Ural Blocking in CMIP5 Models and Its Implication on The East Asian Winter Climate
CHEUNG, Hoffman Ho-Nam & Wen ZHOU

Session 4a: Global Development on Climate Change Research and Adaptation, including GFCS (parallel)

Venue: LTG

Chair: JOU, Jong-Dao Ben

- 11:00 – 11:15 The Operational Subseasonal to Seasonal Climate Forecast System and Development at CWB Taiwan
LU, Mong-Ming, Jhy-Wen HWU, Chih-Hui SHIAO & Yea-Ching TUNG
- 11:15 – 11:30 Socio-demographic Predictors for Sensitivity and Behavior Modifications towards Public Temperature Warning in Urban Chinese Community
CHAN, Emily, Poyi LEE,, William Bill GOGGINS & Calvin Ka-Yeung CHENG
- 11:45 – 12:00 第二期臺灣氣候變遷推估與資訊平台建置計畫
吳宜昭、陳永明、朱容練、鄭兆尊、劉俊志 和 林李耀
- 11:30 – 11:45 TCCIP 計畫氣候資料應用服務介紹
黃柏誠、陳永明、吳宜昭、朱容練、黃熾業 和 林李耀
- 12:00 – 12:15 Using RMM Index to Check The Relationship of MJO and Taiwan Weekly Rainfall
CHEN, Yun-Lan
- 12:15 – 12:30 Drought Monitoring in Hong Kong Using Standardized Precipitation Index (SPI)
LI, Kin-wai & Man-Chi WU

Programme (Day 2, 3 November 2013)

Session 4b: Global Development on Climate Change Research and Adaptation, including GFCS (parallel)

Venue: LTF

Chair: LAI, Sau-Tak Edwin

- 11:00 – 11:15 Prioritizing Climate Change Adaptation and Ozone Pollution Control to Minimize Impacts on Public Health and Food Security in 2050
TAI, Amos P. K., Maria Val MARTIN & Colette L. HEALD
- 11:15 – 11:30 1897-2008 台灣氣候變化統計與 2009-2013 年新發展
程家平、蕭長庚、卓盈旻 和 盧孟明
- 11:30 – 11:45 Implications of Climate Change on Coastal Structures
IP, Raymond Wai Man
- 11:45 – 12:00 Solar Energy Assessment Services
LEUNG, Man Yan Aldous & **Tang Chung Joseph LAU**
- 12:00 – 12:15 Recent GEO Initiatives to Improve Government's Adaptation Capacity to Landslide Risk Associated with Extreme Rainstorms
WONG, Alan C. W.

Programme (Day 3, 4 November 2013)

Session 5: The Role of Meteorological Societies in Society

Chair: SHUN, Chi-Ming

Venue: Conference Hall

- 08:50 – 09:00 Presentation of the Best Student Presentation Award
- 09:00 – 09:15 **FENG, Xuezhu** (Beijing)
- 09:15 – 09:30 **NIINO, Hiroshi** (Meteorological Society of Japan)
- 09:30 – 09:45 **YOON, Soonchang** (Korean Meteorological Society)
- 09:45 – 10:00 **WU, Chun-Chieh** (Taipei)
- 10:00 – 10:15 **TYAGI, Ajit** (Indian Meteorological Society)
- 10:15 – 10:30 **LI, Ping-Wah** (Hong Kong)
- 10:30 – 10:45 **YU, William** (World Green Organisation)

11:00 – 11:45 Session 6: Panel Discussion

Venue: Conference Hall

Moderator: LAU, Sum-Yee Sharon

11:45 – 12:00 Closing Remarks

Venue: Conference Hall

Posters

2 November 11:00 – 18:00 and 3 November 11:00 – 12:45 Venue: Atrium (outside LTC)	A Study of Heavy Rainfall Index during Taiwan Mei-Yu Season CHEN, Meng-Shih & Jui-Ling KUO
	An analysis of the extreme dry spells in Taiwan and its variations during the recent one hundred years CHO, Yin-Ming , Mong-Ming LU
	冬季東亞季風與台灣氣候監測分析：2010-2013 年 LEE, Szu-Ying , Mong-Ming LU
	Numerical Modeling of a Strong Dust Event over the South China Region SU, Lin , Kim-Chiu Chow, Jimmy C. H. Fung, Hui Ma & Alexis K. H. Lau
	Tropical Cyclone Reconnaissance Flights over South China Sea WONG, Wai-kin
	Drought Monitoring in Hong Kong Using Standardized Precipitation Index (SPI) WU Man-Chi & Kin-wai LI
	Temperature Projection for Hong Kong in the 21st Century Using CMIP5 Models TONG, Hang-wai & Ho Sun CHAN
	Response of Wintertime Tibetan Plateau and Its Surrounding Areas to Tropical Indian-Pacific Historical SST during 1960-2000 CHU, Cuijiao , Xiu-Qun YANG & Xuguang SUN
LBM 模式中中緯度大氣對熱源和渦度強迫的回應 QIU, Shuang , Jiabei FANG & Xiuqun YANG	
Regional Climate Change Induced by Urban Expansion in Pearl River Delta, China WANG, Xuemei , Jingbiao LIAO, Jian ZHANG, Chong SHEN, Weihua CHEN & Beicheng XIA	

Social Programme

2 November 18:00 – 21:00	Conference and Hong Kong Meteorological Society 25th Anniversary Dinner Restaurant: HKUST 南北小廚 (See Map A) Free to all Conference participants Presentation of the Honorary Membership and Certificate of Recognition
3 November 14:15 – 18:00	Excursion (Optional) Places: Sky100 (http://www.sky100.com.hk/) & Elements (http://www.elementshk.com) Admission Fee for Sky100: HKD168 / person
3 November 18:00 – 22:00	Hong Kong Observatory 130th Anniversary Dinner (Optional) Restaurant: CityView Hotel http://www.thecityview.com.hk/eng/index.php (See Map B) Fee: HKD350 / person

General Information and Useful Websites

Conference Venue Addresses, Telephones & Websites

HKUST	Hong Kong University of Science and Technology 香港科技大學 Clear Water Bay, Kowloon, Hong Kong (see Map A) Tel: (852) 2358 6000 http://www.ust.hk	
HKO	Hong Kong Observatory 香港天文台 134A, Nathan Road, Tsimshatsui, Kowloon, Hong Kong (see Map C) Tel: (852) 2926 8200 http://www.hko.gov.hk	
LTC	Lecture Theatre C, HKUST (see Map A)	
LTG	Lecture Theatre G, HKUST (see Map A)	
Room 1504	Lecture Room 1504, HKUST (see Map A)	
Atrium	Hong Kong Jockey Club Atrium, HKUST (see Map A)	
Conference Hall	Conference Hall, The Centenary Building, HKO (see Map C)	
Ramada Hotel Kowloon 九龍華美達酒店	73-75, Chatham Road South, Tsimshatsui, Kowloon, Hong Kong Tel: (852) 2311 1100 http://www.ramadahongkong.com/kln/en/	
Best Western Grand Hotel 華麗酒店	23 Austin Avenue, Tsimshatsui, Kowloon, Hong Kong Tel: (852) 3122 6222 http://www.bestwesterngrandhotel.com	
CityView Hotel 城景酒店	23 Waterloo Road, Kowloon, Hong Kong (see Map B) Tel: (852) 2783 3888 http://www.thecityview.com.hk/eng/index.php	

Hong Kong & World City Weather





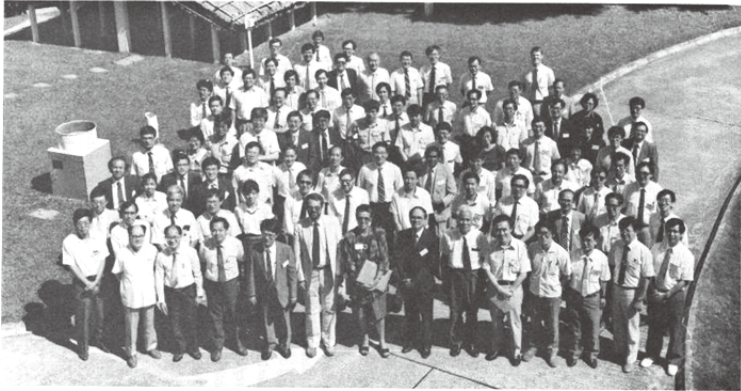
Local weather	http://www.weather.gov.hk		
World City Weather	http://worldweather.wmo.int/		
Mobile apps	MyObservatory		
	MyWorldWeather		

Photo Memories

1st Conference (Hong Kong, 1989)



INTERNATIONAL CONFERENCE ON
EAST ASIA AND WESTERN PACIFIC
METEOROLOGY AND CLIMATE
6-8 July 1989
Hong Kong

東亞及西太平洋
氣象與氣候國際會議
一九八九年七月六日至八日
香港

2nd Conference (Hong Kong, 1992)



3rd Conference (Jungli, 1996)



4th Conference (Hangzhou, 1999)



