

ESCAP/WMO Typhoon Committee 19th INTEGRATED WORKSHOP / AP-TCRC FORUM

“Strengthening the Value Chain within the
UN EW4All Framework for the Typhoon Committee Region”
&
“Embracing New Technologies for Achieving Early Warnings for All”

19 – 22 November 2024
Shanghai • China

FINAL PROGRAMME

(Updated 18 November 2024)

DAY 1: TUESDAY, 19 NOVEMBER 2024 – Moderated by Typhoon Committee Secretariat (TCS)

MEETING ROOM: Dishui Lake Hall (SECOND-FLOOR)

08:30-09:00 Registration
09:00-09:35 Opening Ceremony – moderated by TCS

Welcoming Remarks

Opening Message – Mr. BI Baogui, *Deputy Administrator, China Meteorological Administration (CMA)*
Welcome Message – Mr. ZHANG Xiaohong, *Vice Mayor of the Shanghai Municipal People's Government*

TC Chair – Mr. Mohd Hisham Mohd ANIP, *Director General of Malaysian Meteorological Department, Malaysia, on behalf of TC56 Chairperson*
AP-TCRC – Prof. Johnny C. L. CHAN, *Science Director of Asia-Pacific Typhoon Collaborative Research Center (AP-TCRC)*
ESCAP – Mr. Sanjay SRIVASTAVA, *Chief of Disaster Risk Reduction DRS/(IDD), ESCAP (video)*
WMO – Ms. Anne-Claire FONTAN, *Scientific Officer, WMO*
TCS – Dr. Yihong DUAN, *Typhoon Committee Secretary, TCS*

09:35-10:10 Group Photo and Coffee

10:10-11:30 **AP-TCRC FORUM (PLENARY)**

Topic: New Observation and Forecasting Techniques for Typhoons – moderated by Dr. TANG Jie

10:10-10:30 **Ms. Anne-Claire FONTAN** – *The purpose of the Regional Basic Observing Network - addressing the key challenges, such as Typhoon*

10:30-10:50 **Dr. Robert ROGERS** – *Tropical Cyclone Observational Field Campaigns and Prospects for an International Experiment in the West Pacific*

10:50-11:10 **Dr. Kosuke ITO** – *Japanese Eyewall-penetrating Typhoon Aircraft Missions in T-PARC*

- 11:10-11:30 Dr. XU Na – *FengYun Polar Satellite Programs and Typhoon Monitoring Capabilities*
- 12:00-13:30 Lunch
- 13:30-14:50 **AP-TCRC FORUM (PLENARY) cont'd**
Topic: Typhoon Risk reduction and Early Warning – moderated by Dr. Robert ROGERS
- 13:30-13:50 Dr. Tsz-cheung LEE – *Disaster Risk Reduction and Preparedness for the Increasing Tropical Cyclone Risk – Hong Kong Perspective*
- 13:50-14:10 Dr. Anh Tien DO – *Early warning system for typhoon in Vietnam*
- 14:10-14:30 Dr. Wattana KANBUA – *Decision Support System for Flood Warning*
- 14:30-14:50 Dr. TANG Jie – *New Tools of Typhoon Early Warning For All From Shanghai*
- 14:50-15:10 Coffee Break
- 15:10-17:30 **AP-TCRC FORUM (PLENARY) cont'd**
Topic: “Typhoon Plus” Industry Risk Management – moderated by Prof. Johnny C. L. CHAN
- 15:10-15:30 Dr. Jianming YIN – *China Typhoon Catastrophe Risk Modeling and Its Applications in Re/Insurance*
- 15:30-15:50 Dr. Yuichi ONO – *Update on a Pin-point Alert System to Save Lives from Typhoon-related Disasters*
- 15:50-16:10 Dr. ZHOU Kanghui – *Progress in the Operational Application of Artificial Intelligence Weather Large Models at the National Meteorological Center*
- 16:10-16:30 Dr. Mamoru MIYAMOTO – *An operational flood forecasting system with improved accuracy using data assimilation*
- 16:30-16:50 Mr. LIU Haobo – *Urban multi-hazard early warning toolbox*
- 16:50-17:30 Open Discussion with topic “Typhoon Early Warnings for All and international cooperation” – moderated by Prof. Johnny C. L. CHAN
- End of DAY 1
- 18:00 Welcome Dinner

DAY 2: WEDNESDAY, 20 NOVEMBER 2024 – Moderated by AWG Chairs

MEETING ROOM: Sinan Hall (SECOND-FLOOR)

- 08:30-12:00 **19TH IWS - TECHNICAL PRESENTATIONS (PLENARY)** on the 19th IWS theme of “*Strengthening the Value Chain within the UN EW4All Framework for the Typhoon Committee Region*” – moderated by AWG Chair
(20 minutes for each presentation)
1. Early Warnings for All: WMO’s update and opportunities for the Typhoon Committee – Ms. Anne-Claire FONTAN
 2. Ocean Surface Wind Retrieval from ALOS-2/PALSAR-2 and Application Studies Using SAR Winds – Dr. SHIMADA Udai, JMA
 3. Application of Dynamic and Thermal Parameters from FengYun Meteorological Satellites in Tropical Cyclone monitoring and Early Warning – Ms. REN Suling, CMA

10:00-10:20 Coffee Break - moderated by AWG Vice-Chair, Dr Koji ISHIIHARA

4. **HKO's Recent Developments in Support of Tropical Cyclone Warning Services** – Mr. KH Yip, HKO
5. **Introduction on Typhoon Best Tracks of NTC/KMA** – Ms. Jinyeon Kim, KMA
6. **End-to-end flash flood and landslide early warning system in the NCHMF** – Dr. Nguyen Tien KIEN, National Center of Hydro-Meteorological Forecasting (NCHMF), VNMHA

12:00-13:30 Lunch

13:30-17:00 19TH IWS - TECHNICAL PRESENTATIONS (PLENARY) on the 19th IWS theme of *"Strengthening the Value Chain within the UN EW4All Framework for the Typhoon Committee Region"*(cont'd)
(20 minutes for each presentation) - moderated by AWG Vice-Chair, Mr. Tom EVANS

7. **AI-Driven Regional Numerical Models: A New Method for Integrating AI with Numerical Models** – Mr. XU Hongxiong, CMA
8. **Multi-layered Water-related Disaster Risk Reduction toward Early Warning for All** – Mr. MARUYAMA Kazuki (MLIT Japan)
9. **AI based TC real-time analysis system in KMA** – Ms. Woojeong LEE, KMA
10. **A regional TC prediction model for Northwest Pacific and North Indian Ocean** – Ms. MA Suhong, CMA

15:00-15:20 Coffee Break - moderated by AWG Chair

11. **A warning value chain Assessment for Typhoon YAGI (2024)** – Dr WANG Qian, CMA
12. **Impact-Based Forecasting for Typhoon YAGI in VNMHA** – Mr. Nguyen Van HUONG, National Center of Hydro-Meteorological Forecasting (NCHMF), VNMHA
13. **The Application of Long Short-Term Memory (LSTM) Deep Learning Algorithm for Hydrological Data Quality Control and Flood Forecasting in Typhoon Committee Member Countries** – Dr. Chung-Soo Kim, Korea Institute of Civil Engineering and Building Technology (KICT), Researcher
14. **From the Potential Forecast of Tropical Cyclones to Hazards Emergency Response: A Case Study of Super Typhoon "Yagi"** – Mr. YANG Guojie, CMA

17:00-17:30 Q&A

End of DAY 2

DAY 3: THURSDAY, 21 NOVEMBER 2024 – Moderated by AWG Chairs

MEETING ROOM: Sinan Hall (SECOND-FLOOR)

PARALLEL SESSION ROOMS: WGM: Guan Hai Hall; WGH: Yun Hai Hall; WGDRR: Tian Hai Hall (FIRST-FLOOR)

09:00-12:00 PARALLEL SESSION - WGM, WGH and WGDRR: **WGs' Activities**
(the programs of WGs' meeting will be provided by WGs)

10:00-10:20 Coffee Break

12:00-13:30 Lunch

13:30-21:00 Technical Visit –
13:30-14:30 AP-TCRC

14:30-21:00 The Bund (Free to choose visit with volunteers or on your own.)

Return by bus from at 21:00

End of DAY 3

DAY 4: FRIDAY, 22 NOVEMBER 2024 – Moderated by AWG Chairs

PARALLEL SESSION ROOMS: WGM: Guan Hai Hall; WGH: Yun Hai Hall; WGD RR: Tian Hai Hall (FIRST-FLOOR)

MEETING ROOM: Sinan Hall (SECOND-FLOOR)

09:00-12:00 **PARALLEL SESSION** - WGM, WGH and WGD RR: **WGs' Activities** (Cont'd)

10:00-10:20 Coffee Break

12:00-13:30 Lunch

13:30-15:00 **PLENARY SESSION** - Reports of the Working Groups (20 minutes for each WG) - moderated by AWG Chair
(WGM, WGH & WGD RR)

15:00-15:20 Coffee Break

15:20-16:40 Plenary discussion on AOPs, SSOP III and TC Research Award for Young Scientists

16:40-17:00 Other Businesses

17:00-17:30 Closing by CMA

17:30-19:00 Visit Dishui Cloud Hall

End of DAY 4