

**THE INTERNATIONAL WORKSHOP ON
CLIMATE, WATER, LAND, AND LIFE
IN MONSOON ASIA**

HOSTED BY TOKYO METROPOLITAN UNIVERSITY, MINAMI-OSAWA CAMPUS

6–8 MARCH 2023 (Updated on 7 Feb. 2023)

PROGRAM

UNDERLINED REMOTE ONLINE PRESENTATIONS

DAY 1: MONDAY 6TH MARCH

09.15–09.45 ARRIVAL AND REGISTRATION

09.45–10.15 OPENING SESSION:

09.45–10.00 Introduction and Welcome from Tokyo Metropolitan Univ. (TMU) Hosts

10.00–10.15 Jun Matsumoto (TMU/JAMSTEC): Where there is a will there is a way: My research life in Monsoon Asia

10.15–10.45 GROUP PHOTO & BREAK

10.45–12.30 SESSION 1: HYDROCLIMATE

10.45–11.00 Toshio Koike (ICARM): River basin disaster resilience and sustainability in Monsoon Asia

11.00–11.15 Taikan Oki (Univ. Tokyo): More than 30 years of hydrometeorological research in Monsoon Asia

11.15–11.30 Kooiti Masuda (Rissho Univ.): Monsoons based on seasonal alternation of wind directions, revisited

11.30–11.45 Shin-Ya Ogino (JAMSTEC): Tropical coastal dehydrator in global atmospheric water circulation

11.45–12.00 Satoru Yokoi (JAMSTEC): Variability in coastal precipitation over tropical Asian monsoon regions

12.00–12.15 Rakesh Teja Kondure (RIKEN): Ubiquitous nature of the diurnal cycle of precipitation and its representation in current generation climate models

12.15–12.30 Yoshihiro Tachibana (Mie Univ.): Contribution of the decline in Chukchi and Bering sea ice to cold East Asian winter

12.30–14.00 LUNCH

14.00–15.45 SESSION 2: OBSERVATION

- 14.00–14.15 Yukihiro Takahashi (Hokkaido Univ.): Extreme weather monitoring with lightning network and micro-satellites in Southeast Asia and Japan
- 14.15–14.30 Hideyuki Kamimera (NIED): BRAIN and its applications for disaster risk reduction
- 14.30–14.45 Koji Sassa (Kochi Univ.): Compact radar network for monitoring of severe weather
- 14.45–15.00 Namiko Sakurai (NIED) Positive cloud-to-ground lightning characteristics in the eyewall of Typhoon Faxai (2019) observed by Tokyo Lightning Mapping Array
- 15.00–15.15 Masato I. Nodzu (TMU): Attempts at observing surface boundary layers using an unmanned aerial vehicle
- 15.15–15.30 Kazumasa Sengoku (TMU): The climatology of cold-air damming in the Kanto Plain, Japan
- 15:30–15.45 Hitoshi Saito (Nagoya Univ.), Taro Uchida and Hiroshi Matsuyama: Frequency of landslide triggering rainstorms in Japan

15.45–16.15 BREAK**16.15–17.45 SESSION 3: CLIMATE CHANGE**

- 16.15–16.30 Masahiro Watanabe (Univ. Tokyo): Attributing and projecting changes in extreme weather events over East Asia
- 16.30–16.45 Yoshiyuki Kajikawa (Kobe Univ.): What causes the timing of monsoon onset in observation and global climate models?
- 16.45–17.00 Tomoshige Inoue (Univ. Tsukuba): Climatic variations and changes from the viewpoint of seasonal marches
- 17.00–17.15 Trinh-Tuan Long (Hanoi Univ. Science): Projected rainfall characteristics in Vietnam based on CORDEX-SEA downscaled CMIP6 data
- 17.15–17.30 Thanh Ngo-Duc (USTH), Quan Tran-Anh and Etienne Espagne: Towards a new set of high-resolution climate scenarios for Vietnam
- 17.30–17.45 Guoyu Ren (China Univ. Geosciences/National Climate Center): Has the observed intense precipitation increased over China since mid-20th century?

18.00 ICE BREAKER-1 AT THE INTERNATIONAL HOUSE HALL (TENTATIVE)**19.30 END OF DAY 1**

DAY 2: TUESDAY 7TH MARCH**09.10–10.40 SESSION 4: RESEARCH STRATEGIES**

09.10–09.25 Kunio Yoneyama (JAMSTEC): Some indications on future monsoon research from the WWRP perspective

09.25–09.40 Toru Terao (Kagawa Univ.): What is the next step in Asian hydroclimatological project?

09.40–09.55 Shinjiro Kanae (Tokyo Institute of Technology): Still seeking better seasonal-scale rainfall and runoff prediction for Southeast Asia

09.55–10.10 Masashi Kiguchi (Univ. Tokyo): Co-design method of the integrated strategies with adaptation to climate change in Thailand

10.10–10.25 Hao Zhang (Kumamoto Univ.) and Koji Sassa: Monitoring of stormwater in an urban river basin with a rainfall-rainwater observation system

10.25–10.40 Shoken Ishii (TMU): Future space-based lidar in Japan

10.40–11.00 BREAK**11.00–12.30 SESSION 5: PRECIPITATION AND WATER CYCLE**

11.00–11.15 Tomoo Ushio (Osaka Univ.): High resolution GSMaP - Past and future

11.15–11.30 Moeka Yamaji (JAXA): Precipitation characteristics over the Asian monsoon region observed by satellites

11.30–11.45 Kei Yoshimura (Univ. Tokyo): Isotopic aspect on water cycle in Asian monsoon

11.45–12.00 Kimpei Ichyanagi (Kumamoto Univ.): Seasonal deuterium excess variations of precipitation in Japan

12.00–12.15 Fumie Murata (Kochi Univ.): Rainfall characteristics in Cherrapunji, northeast India

12.15–12.30 Shiori Sugimoto (JAMSTEC): Numerical experiments over Asian high mountain regions

12.30–13.45 LUNCH

13.45–15.30 SESSION 6: MULTI-SCALE VARIABILITY-1

13.45–14.00 Shuichi Mori (JAMSTEC): A review of coastal convective activity over the Indonesian Maritime continent (IMC); YMC and beyond

14.00–14.15 Hamada Jun-Ichi (TMU): Climatology of seasonal rainfall variations over the Indonesian maritime continent

14.15–14.30 Miki Hattori (JAMSTEC): Impact of MJO phases and the cold surge on the development of Borneo vortex

14.30–14.45 Chih-wen Hung (National Taiwan Normal Univ.): MJO/ISO and Taiwan Climate

14.45–15.00 Dzung Nguyen-Le (USTH): Interannual variability of Southeast Asian autumn rainfall response to precursory signals in tropical Pacific sea surface temperature anomalies

15.00–15.15 Hiroshi Matsuyama (TMU): Why severe drought occurred at Ogasawara (Bonin) Islands during El Nino event in 2018-2019?

15.15–15.35 BREAK**15.35–16.35 SESSION 7: CLIMATE AND LIFE**

15.35–15.50 Fumiaki Fujibe (TMU): Climatology of heat-stroke deaths in Japan

15.50–16.05 Atsushi Ota (Keio Univ.) Rainfall and malaria in Batavia

16.05–16.20 Andreas Weber (Univ. Twente) Surveying climate, nature, and agriculture in Indonesia, 1800 – 1850

16.20–16.35 Shinya Numata (TMU): Impact of global climate change on reproductive phenology of Asian dipterocarp forests

16.35–16.45 BREAK**16.45–17.45 SESSION 8: CLIMATE AND LAND**

16.45–17.00 Ayako Abe (Univ. Tokyo): Monsoon under climate change with paleoclimate modelling

17.00–17.15 Yoshihiro Iijima (Mie Univ.): Permafrost degradation and related influence on climate in north-eastern Eurasia

17.15–17.30 Masashi Takada (Nara Women's Univ.): Abrupt changes of the terrestrial environment in eastern Eurasia between the end of the middle Pleistocene and the Holocene detected from the aeolian sediments sequence

17.30–17.45 Takashi Oguchi (Univ. Tokyo): Examples of active geomorphological features in Monsoon Asia

18.00 ICE BREAKER-2 AT THE INTERNATIONAL HOUSE HALL (TENTATIVE)**20.00 END OF DAY 2**

DAY 3: WEDNESDAY 8TH MARCH**09.10–10.55 SESSION 9: FLOOD, AGRICULTURE AND DATA RESCUE**

09.10–09.25 Tomoko Shiroyama (Univ. Tokyo) and Chang Liu: The 1931 Yangzi River flood: Spatiotemporal analysis of the calamities in Hubei Province

09.25–09.40 Hitoshi Araki (Ritsumeikan Univ.): The rice supply system of East Asian countries in the late 1930s

09.40–09.55 Haruhisa Asada (Nara Women's Univ.): Post-flood management and agricultural development in Bangladesh

09.55–10.10 Hisayuki Kubota (Hokkaido Univ.): Data rescue of historical meteorological records over the Asian monsoon region

10.10–10.25 Togo Tsukahara (Kobe Univ.) Climate records in Dutch Navy logbooks

10.25–10.40 Nobuhiko Endo (JAMSTEC): Climatological data in French Indochina: From historical publications

10.40–10.55 Azusa Fukushima (Kobe Gakuin Univ.), Pradip Baruah, Parijat Borgohain, Taiichi Hayashi, Toru Terao, Fumie Murata, Masashi Kiguchi, Yusuke Yamane, Masahiro Tanoue and Hideyuki Kamimera: Data rescue of surface air temperature and rainfall from private tea gardens in Assam, India

10.55–11.15 BREAK**11.15–12.45 SESSION 10: DATA RESCUE AND CLIMATE HISTORY IN JAPAN**

11.15–11.30 Masumi Zaiki (Seikei Univ.): Data rescue of instrumental meteorological records in Japan since the 19th century

11.30–11.45 Michiko Otsuka (Meteorological College): Analysis of long-term changes in precipitation over central Japan by utilizing daily precipitation series from the former kunai local observation network

11.45–12.00 Masashi Kamogawa (Univ. Shizuoka): Climatology using thunder day data in Japan

12.00–12.15 Hiromitsu Kanno (NARO) and Hiroshi Matsuyama: Pre-1906 extension of precipitation data for Chichi-jima in the Ogasawara (Bonin) Islands based on the analysis of historical documents

12.15–12.30 Mika Ichino (ROIS-DS-CODH/NII): Reconstruction of solar radiation based on historical weather records in Japan

12.30–12.45 Junpei Hirano (Teikyo Univ.): Climate reconstruction in Japan around the 1850s based on historical weather records and early instrumental data

12.45–14.00 LUNCH

14:00–15.30 SESSION 11: MULTI-SCALE VARIABILITY-2

- 14.00–14.15 Ikumi Akasaka (Senshu Univ.): Seasonal changes in rainfall and surface wind at Manila for the late 19th century
- 14.15–14.30 Xiaodan Zhang (China Univ. Geosciences) Reconstruction and characterization of droughts and floods in the Hanjiang River Basin, China, 1426–2017
- 14.30–14.45 Hatsuki Fujinami (Nagoya Univ.): Nocturnal rainfall and its driving mechanism over South Asia
- 14.45–15.00 Anu Gupta (TMU): Seasonal variation of aerosols over India and their role in the summer monsoon season
- 15.00–15.15 Julie Mae Dado (Manila Observatory): Sea surface temperature and monsoon representation in climate models
- 15.15–15.30 Hironari Kanamori (Nagoya Univ.), Manabu Abe, Hatsuki Fujinami and Tetsuya Hiyama: Trend and interdecadal variation of precipitation over northern Eurasia in summer monsoon season

15.30–16.00 BREAK**16.00–17.45 SESSION 12: CLIMATE, EXTREME AND SEVERE WEATHER**

- 16.00–16.15 Marcelino II Villafuerte (PAGASA): Climatological rainfall characteristics of the Philippines in high-resolution grids
- 16.15–16.30 Lyndon Mark Olaguera (Ateneo de Manila Univ./Manila Observatory): The weather and climate of the Philippines: characteristics, variability, and extremes
- 16.30–16.45 John Asaula Manalo (PAGASA): Analysis of hail events in Metro Manila using POTEKA weather stations and numerical simulation
- 16.45–17.00 Yusuke Yamane (Tokoha Univ.): Synoptic situations forming environments favorable for severe local storms over the northeastern Indian Subcontinent
- 17.00–17.15 Faye Abigail Cruz (Manila Observatory): Recent progress in understanding extreme rainfall in the Philippines
- 17.15–17.30 Hironori Fudeyasu (Yokohama National Univ.): Research on typhoon in the western North Pacific
- 17.30–17.45 Hoang Anh Nguyen-Thi (VNMHA): Heavy rainfall monitoring by weather radar in Vietnam

17:45–17.50 CLOSING REMARKS Jun Matsumoto (TMU/JAMSTEC)

17.50 END OF DAY 3