

Asian monsoon Hydroclimate -Review of MAHASRI and Beyond-

(Agenda, February 24, 2015)

Dates: March 4 and 5, 2015

Venue: Nagoya University IB Building IB013, Japan

http://en.nagoya-u.ac.jp/upload_images/campusmap2014_en_ol.pdf
(C3-1 on the above campus map, in front of the Exit No 3, West Connecting Passage
of Nagoya Daigaku Station on Subway Meijo Line)

March 4, Wednesday

Opening Session

Chair: Jun Matsumoto

- 10:00-10:10 Opening Remarks
Jun Matsumoto (Tokyo Metropolitan Univ.)
Joji Ishizaka, Director of HyARC (Nagoya Univ.)
- 10:10-10:40 Invited Talk 1: Jan Polcher (GHP Co-Chair, Director of Research at
CNRS, Ecole Polytechnique, France)
Current status of GEWEX and GHP/RHP
- 10:40-11:00 Invited Talk 2: Tetsuzo Yasunari (Director General of RIHN)
Importance of Asian monsoon region in Future Earth
- 11:00-11:15 Coffee Break

Session I: Overview of MAHASRI and Its Related Projects (1)

Chair: Shinjiro Kanae

- 11:15-11:35 Jun Matsumoto (Tokyo Metropolitan Univ.)
Overview of MAHASRI
- 11:35-11:55 Taikan Oki (Univ. Tokyo)
From IMPAC-T to ADAP-T
- 11:55-12:15 Manabu D. Yamanaka (JAMSTEC)
JEPP-HARIMAU (2005-10) and SATREPS-MCCOE (2009-14)
- 12:15-12:35 Masashi Kiguchi (Univ. Tokyo)
MAHASRI research activities in South Asia
- 12:35-14:00 Lunch

Session II: Overview of MAHASRI and Its Related Projects (2)

Chair: Taikan Oki

- 14:00-14:20 Jun Asanuma (Univ. Tsukuba)
Hydrometeorology in Mongolian Grassland

14:20-14:40 Hirotaka Kamahori (MRI)
AMY Reanalysis

Session III: Precipitation Observation and Prediction (1)

Chair: Taikan Oki

15:00-15:20 Yukari Takayabu (Univ. Tokyo)
Characteristics of precipitation extremes analyzed with 17 years of TRMM observation

15:20-15:40 Shoichi Shige (Kyoto Univ.)
Shallow orographic heavy rainfall in the Asian monsoon region observed by TRMM PR

15:40-16:00 Coffee Break

Session IV: Precipitation Observation and Prediction (2)

Chair: Hiroshi G. Takahashi

16:00-16:20 Shuichi Mori (JAMSTEC)
Radar observations of coastal heavy precipitation in Indonesia

16:20-16:40 Nattapon Mahavik (Kyoto Univ.)
Orogenic propagating rain systems over the middle of Indochina observed by gauge-calibrated ground-based radar data.

Session V: Water and Energy Cycles (1)

Chair: Hiroshi G. Takahashi

16:40-17:00 Tomonori Sato (Hokkaido Univ.)
Regional precipitation variability associated with mesoscale topography and local SST. -Case studies in North Japan and South Asia-

17:00-17:20 Tomohito Yamada (Hokkaido Univ.)
Land-atmosphere interaction in a global climate model in association with human activities

17:20-17:40 Taro Nakai (Nagoya Univ.)
Effect of variability in precipitation and radiation on root zone soil moisture spectra

18:00-19:30 Reception at Restaurant chez Jiroud
<http://chezjiroud.jp/>
(C2-4 on the campus map)

March 5, Thursday

Session Vi: Water and Energy Cycles (2)

Chair: Kei Yoshimura

- 9:30- 9:50 Kimpei Ichiyanagi (Kumamoto Univ.)
Seasonal variation of stable isotopes in precipitation across Japan
- 9:50-10:10 Takami Saito (Nagoya Univ.)
Variation of transpiration among trees of various sizes composing a tropical rainforest in Borneo
- 10:10-10:30 Kenji Tanaka (Kyoto Univ.)
Inclusion of inundation effect to land surface model
- 10:30-10:50 Tomoaki Ose (MRI)
Present-day's Surface Air Temperature and Precipitation and Their Future Changes in Asia Monsoon System in CMIP model
- 10:50-11:10 Coffee Break

Session VII: Global Water Resource Systems

Chair: Kenji Tanaka

- 11:10-11:30 Masahiro Tanoue (Univ. Tokyo)
Global water resource assessment including glacier meltwater from mountainous regions
- 11:30-11:50 Kei Yoshimura (Univ. Tokyo)
Study on impact of the water resources management on projected future change of drought
- 11:50-12:10 Hiroaki Ikeuchi (Univ. Tokyo)
Assessing the effect of complex water flow on fluvial floods in the mega-delta in Bangladesh
- 12:10-12:30 Kaoru Kakinuma (Tokyo Institute of Technology)
Restoration of degraded rangeland under highly variable precipitation in Mongolia
- 12:30-13:45 Lunch

Session VIII: Extremes

Chair: Hatsuki Fujinami

- 13:45-14:05 Hiroshi G. Takahashi (Tokyo Metropolitan Univ.)
Role of tropical cyclones along the monsoon trough in the 2011 Thai flood and interannual variability

- 14:05-14:25 Guixing Chen (Tohoku Univ.)
Diurnal cycles of summer monsoon and rainfall over East Asia:
Implications to regional climate and extremes
- 14:25-14:45 Koji Dairaku (NIED)
Regional downscaling and assessments of vulnerability and adaptation
to climate change in water hazard
- 14:45-15:05 Yukihiro Takahashi (Hokkaido Univ.)
Thunderstorm monitoring by electromagnetic measurements
- 15:05-15:30 Coffee Break

Session IX: Asian Monsoon Onset and Intraseasonal Variability

Chair: Atsushi Higuchi

- 15:30-15:50 Yoshiyuki Kajikawa (RIKEN AICS)
Long term variability of the Asian monsoon onset
- 15:50-16:10 Hisayuki Kubota (JAMSTEC)
Philippine summer monsoon onset study -intensive observation and
long-term variability-
- 16:10-16:30 Atsushi Higuchi (Chiba Univ.)
Relative role of the ocean for interannual and decadal variations in
summer monsoon onset over the South China Sea
- 16:30-16:50 Hatsuki Fujinami (Nagoya Univ.)
Dynamics of quasi-biweekly oscillation in rainfall over South Asia

Session X: GHP Crosscut and General Discussion

Chair: Jun Matsumoto

- 16:50-17:10 Hirohiko Masunaga (Nagoya Univ.)
GDAP Precipitation Assessment Plan
- 17:40-18:00 Jan Polcher
Comments from GHP Co-chair
- 18:00-18:20 General Discussion

Session XI: Closing Session

Chair: Jun Matsumoto

- 18:20-18:30 Closing Remarks
Tetsuya Hiyama (HyARC, Nagoya Univ.)