

2003 International Symposium on the Climate System of Asian Monsoon and its Interaction with Society

Sofitel Raja Orchid Hotel, Khon Kaen, Thailand
11 – 13 November 2003

=====

11 November

09:00-09:20 Opening Ceremony

Session A: Opening Session

09:20-10:25 Session A1

Highlights of GAME-T and related topics 1

Chair: Prof. Takehiko Satomura

A1-1. 0920-0940

Utilizing GAME-T Database for Resources Management Planning in Upper Chao Phraya Basin

Prof. Dr. Nipon Tangtham (Kasetsart University)

A1-2. 0940-1000

TBD

Prof. Masakazu Suzuki (University of Tokyo)

A1-3. 1000-1020

A simple climato-hydrologic decision support system for reservoir operation

Dr. Sanguan Patamathamkul (Khon Kaen University)

A1-4. 1020-1025 (poster introduction)

GAME-T CD-ROM version2 appears

Dr. Yasushi Agata (University of Tokyo)

10:25-10:40 Break

10:40-12:00 Session A2

Highlights of GAME-T and related topics 2

Chair: Prof. Nipon Tangtham

A2-1. 1040-1100

GCM Simulation of Changes of Tropical Precipitation Characteristics by Global Warming

Dr. Akio Kitoh (Meteorological Research Institute)

A2-2. 1100-1120

Public Domain Model (SWAT/GIS) Development on The Chao Phraya River Basin (Case Study II Nan River Basin)

Assoc. Prof. Dr. Hansa Vathananukij, Mr. Kittipong Thanasiriyakul, Mr. Atthapom Phuthapalit (Royal Irrigation Department) and Mr. Noppom Chainirundorn (Kasetsart University)

A2-3. 1120-1140

Transition process from dry to rainy seasons over Indochina Peninsula

Dr. Shin-Ya Ogino (Graduate School of Science and Technology, Kobe University)

A2-4. 1140-1200

The Water Budget in the Yom Rivers Floodplain in Phichit

Assist. Prof. Sombat Chuenchooklin (Naresuan University)

12:00-13:30 Lunch Break

Session B:

Asian Monsoon System Studies

13:30-14:55 Session B1

Seasonal changes and onset of Southeast Asian Monsoon

Chair: Prof. Jun Matsumoto

B1-1. 1330-1345

Seasonal cycle of water balance components in the continental southeast Asia

Dr. Kooiti Masuda (Frontier Research System for Global Change)

B1-2. 1345-1400

Regional surface features and fluxes of central part of Thailand derived from atmospheric boundary layer observations

Prof. Michiaki Sugita (University of Tsukuba) and Dr. M. Toda (Hokkaido University)

B1-3. 1400-1415

Onset of the East-Asian Summer Monsoon

Prof. Tsing-Chang (Mike) Chen (Department of Geological and

Atmospheric Sciences, Iowa State University)

B1-4. 1415-1430

Characteristics, Evolution and Mechanisms of the Summer Monsoon Onset over Southeast Asia.

Dr. Zuqiang Zhang (National Climate Center of China)

B1-5. 1430-1445

The Onset of Southwest Monsoon in Thailand during 1998

Mr. Chatchai Chaiyasaen, Mr. Boonlert Archevarahupruk and Wassana Wongrat (Thai Meteorological Department)

B1-6. 1445-15:00.

Observations in SE Asia under the FORSGC (Frontier Observational Research System for Global Change) project: Overview and future plan

Prof. M. D. Yamanaka (FORSGC/Kobe U)

**Poster Introduction by the chair person
(5-min.)**

15:05-15:30 Break / Poster 1

15:30-16:30 Session B2

Seasonal changes of Asian Monsoon

Chair: Prof. Tsing-Chang(Mike) Chen

B2-1. 1530-1545

On the first transition of the Asian summer monsoon

Dr. Hiroaki Ueda (Institute of Geoscience, Tsukuba University)

B2-2. 1545-1600

Premonsoon rains in Thailand

Prof. Jun Matsumoto and Mr. Masashi Kiguchi(Department of Earth & Planetary Science, University of Tokyo)

B2-3. 1600-1615

The Change in the seasonal march of Southeast Asian Monsoon associated with the Uplift of the Tibetan Plateau - Study with the MRI coupled GCM-

Dr. Manabu Abe (Hydrospheric Atmospheric Research Center, Nagoya University)

B2-4. 1615-1630

Atmospheric Heating Processes over the Tibetan Plateau

Prof. Toshio Koike (Dept. of Civil Engineering, University of Tokyo)

16:30-18:15 Session B3

Asian Monsoon system

Chair: Ms. Boossarasiri Thana

B3-1. 1630-1645

Long-term climate variability over China

Dr. Ying Sun (National Climate Center, China Meteorological Administration)

B3-2. 1645-1700

Detectability of typhoon eyes over oceans in TRMM PR and IR observations

Prof. Yasumasa Kodama (Dept. of Earth and Environmental Sci., Hiroaki University)

B3-3. 1700-1715

Some characteristics of submonthly-timescale disturbances in different latitude over the Bay of Bengal

Mr. Satoru Yokoi (Graduate School of Science, Kyoto University)

B3-4. 1715-1730

Relationship between ENSO and the South China Sea SST

A substitute for Dr. Subramaniam Moten (Director, Research Division, Malaysian Meteorological Service)

B3-5. 1730-1745

Absorbing aerosol effects on the South Asian winter monsoon, and their dependence on model

Dr. Chul Eddy Chung (Scripps Institution of Oceanography)

B3-6. 1745-1800

Intraseasonal and diurnal variations of rainfall in a mountainous region of Sumatera, Indonesia

Dr. Jun-Ichi Hamada (Frontier Observational Research System for Global Change)

B3-7. 1800-1815

A GCM study of the impact of the land-sea distribution around the Maritime Continent

Mr. Masahiro Hosaka (Meteorological Research Institute)

Poster Presentation 1

P1-1. Comparison of the heat and moisture budgets based on radiosonde observations and reanalysis models in Indochina peninsula

Mr. Eisho Azuma (Tokai Univ.)

P1-2. Temperature inversion layers and its relation to radiation processes

Ms. Yuko Kamiakito (Graduate School of Science, Tokai University)

P1-3. Intraseasonal oscillation of temperature inversion layers over the Indo-China peninsula

Mr. Masato I. Nodzu (Kobe University)

P1-4. Regional variation of diurnal convective activity over Southeast Asia

Mr. Hiroki Ichikawa (Graduate School of Life and Environmental

Sciences, Tsukuba University)

P1-5. Variations of typhoons approaching Indochina and their relationship with monsoon and ENSO

Mr. Hideaki Shoji (Department of Earth and Planetary Science, University of Tokyo)

P1-6. Inter-decadal variability of the South China Sea summer monsoon

Ms. Song Yafang (National Climate Center, China Meteorological Administration)

P1-7. Seasonal variations of rainfall and lightning activity over Monsoon areas observed by TRMM

Mr. Akihiro Ohta (Dept. of Earth and Environmental Sci., Hiroasaki University)

P1-8. Analysis of heat and moisture budget in South East Asia during the GAME IOP

Ms. Noriko Ishizaki (Institute of Geoscience, Tsukuba University)

P1-9. Simulation of 1998 Monsoon Onset over Southeast Asia with a Regional Climate Model

Dr. Koji Dairaku (National Institute for Environmental Studies)

P1-10. Dynamics of climatological monsoon break over Southeast Asia

Mr. Hiroshi Takahashi (Graduate School of Environmental Studies, Nagoya University)

P1-11. Diurnal cycle of migration of convective cloud systems over Sumatera Island: Difference of development of convective activities between west and east parts of mountainous area.

Ms. Namiko Sakurai (Graduate School of Science and Technology, Kobe University)

P1-12. A Process Study on the Onset of Indian Summer Monsoon

Mr. Kenji Taniguchi (Dept. of Civil Engineering, University of Tokyo)

P1-13. Correlation between wind profiler and radiosonde Observation in Bangkok

Ms. Pattariya Teerapatpaiboon and Assoc. Prof. Nipha Leelarui (KMILT)

P1-14/A1-3. GAME-T CD-ROM version2 appears

Dr. Yasushi Agata (University of Tokyo)

P1-15. Usage of GAME reanalysis data to MM5

Mr. Boonlert Archevarahubruk (TMD)

18:30- Reception

12 November

Session C: SKYNET

9:00- 10:30 Session C1

SKYNET 1

Chair: TBD

C1-1. 0900-0918

Issues in the surface radiation measurement

Prof. Teruyuki Nakajima (CCSR, University of Tokyo)

C1-2. 0918-0936

Radiation measurements and related studies in Thailand(TBD)

Ms. Boosaarasiri Thana (Chulalongkorn University)

C1-3. 0936-0954

Two-wavelength lidar for tropospheric aerosol measurements

Dr. Jun Zhou (Chinese Academy of Science)

C1-4. 0954-1012

Measurements of surface radiation and atmospheric structure in Korea(TBD)

Prof. B.J. Sohn (Seoul National University)

C1-5. 1012-1030

The impact of interaction between cloud and longwave radiation on Asian monsoon circulation

Dr. Guen-Hyuk Rhyu (Seoul National University)

10:30-10:40 Break

10:40- 12:10 Session C2

SKYNET 2

Chair: TBD

C2-1. 1040-1058

Overview of ABC project (TBD)

Dr. Venkata Ramana Muvva

C2-2. 1058-1116

The atmospheric radiation measurement program's tropical western Pacific radiation measurement sites

Dr. Jim Barnard (Pacific Northwest National Laboratory)

C2-3. 1116-1134

Aerosol optical properties in Southeast Asia from AERONET observations

Dr. Tom Eck (NASA/GSFC)

C2-4. 1134-1152

Aerosol climate interactions in a global climate model (CCM-Oslo)

Dr. Alf Kirkeveg (Chulalongkorn University)

C2-5. 1152-1210

Atmospheric trace gas observation at Cameron Highland, Malaysia

Dr. Shigeto Sudo

(In the afternoon, SKYNET workshop will be held in another room. Program in another sheet)

12:10-13:00 Lunch Break

Session D: Monsoon and Society

13:00 Introduction

Prof. Taikan Oki (Session Coordinator; Research Institute for Humanity and Nature)

13:05- 14:50 Session D1

Studies in Northeast Thailand

Chair: Prof. Eiji Nawata

D1-1. 1305-1325

Settlements in the Past and the Present in Rural Areas in Northeast Thailand

Dr. Yoshikatsu Nagata (Osaka City University)

D1-2. 1325-1345

A traditional irrigation system in Northeast Thailand

Keisuke Hoshikawa (Research Institute for Humanity and Nature)

D1-3. 1345-1405

Farmers' perception on climatic factors and adaptation to drought

Viriya Limpinuntana (Khon Kaen University)

D1-4. 1405-1425

Deforestation and rainfall change in Thailand

Dr. Shinjiro Kanae (IIS, University of Tokyo)

D1-5. 1425-14:35

Comments

Dr. Yasuyuki Kono (Kyoto University)

D1-6. 14:35-14:50

Discussions

14:50-15:10 Break

15:10-16:35 Session D2

Studies in North Thailand

Chair: Prof. Taikan Oki

D2-1. 1510-1530

The Role of Social Science in Resource Studies

Prof. Jin Sato (Graduate School of Frontier Sciences, University of Tokyo)

D2-2. 1530-1550

TBD

Dr. Vitoon Viriyasakultorn (Head of Regional Services Program, Regional Community Forestry Training Center)

D2-3. 1550-1610

TBD

Dr. David Thomas (ICRAF, Bangkok)

D2-4. 1610-1620

Comments

Dr. Yasuhisa Taniguchi (Doshisha University)

D2-5. 1620-16:35

Discussions

16:35-18:30 Session D3

Studies in Indonesia and Bangladesh

Chair: Prof. Manabu D. Yamanaka

D3-1. 1635-1655

The recent development plantation agriculture in Riau, Sumatra

Dr. Junji Nagata and Dr. Sachiko Arai (Department of Human Geography, University of Tokyo)

D3-2. 1655-1715

Future plans for interdisciplinary studies in Sumatera

Prof. Manabu D. Yamanaka (Kobe University)

D3-3. 1715-1735

The rice production variation and its relation with floods and rainfall in Bangladesh

Dr. Jun Matsumoto (The University of Tokyo)

D3-4. 1735-1755

Groundwater Arsenic Contamination in Bangladesh: Rural Communities' Response to Alternative Safe Water Options

Ms. Kumiko Shuto (Department of Geography, Lancaster University)

D3-5. 1755-1815

Comments

Dr. Jun-Ichi Hamada (Frontier Observational Research System for Global Change)

Comments

Dr. Sachiko Arai (Department of Human Geography, University of Tokyo)

D3-6. 1815-1830

Discussions

19:00- Banquet

13 November

Session E: Hydrology and water resources in Southeast Asia

08:45-10:15 Session E1

Flood / GIS / Remote Sensing

Chair: Prof. Hansa Vathananukij

E1-1. 0845-0900

Forecasting Flash Flood of Mae Cham Watershed Using GAME-T Data and Artificial Neural Network

Mr. Sutej Junkhiaw (Kasetsart University)

E1-2. 0900-0915

KUnet Modeling for Forecasting River Discharge

Assist.Prof.Dr.Suwattana Jitdaladakorn and Mr. Somruthai Tasaduak (Kasetsart University)

E1-3. 0915-0930

Web Map Server for Flood Monitoring in Thailand

Mr. Thaweetil Ukhahapanyakul (GISTDA)

E1-4. 0930-0945

Use of Remote Sensing in Quantifying Irrigation Water Management based on Data Assimilation Technique

Assoc.Prof.Dr.Honda Kiyoshi (AIT)

E1-5. 0945-1000

Application of GIS for assessment the potential of irrigation area at Mae Khong River Basin

Mr. Ekachai Klaewklang (Sripatum University)

E1-6. 1000-1015

An AMSR/AMSRE Algorithm for Soil Moisture and its Application to the Asian Region

Mr. Yoshiteru Nakamura (University of Tokyo)

10:15-10:45 Break / Poster 3

10:45-12:00 Session E2

Land surface process

Chair: Dr. Shin Miyazaki

E2-1. 1045-1100

Impact of soil depth on energy budget over a hill evergreen forest in northern Thailand within numerical simulations

Dr. Katsunori Tanaka (Frontier Research System for Global Change)

E2-2. 1100-1115

Evapotranspiration of Paddy field for Invigated Area

Mr. Panya Polsan (Royal Irrigation Department), Prof. Masatoshi Aoki and Assoc.Prof. Sanguan Patamathamkul

E2-3. 1115-1130

The result of TFMS's first experimental period

Dr. Wonsik Kim (Yonsei University)

E2-4. 1130-1145

Comparison of observed and simulated intercepted rainfall by a teak plantation in Northern Thailand

Mr. Nobuaki Tanaka (Graduate School of Agricultural and Life Sciences, University of Tokyo)

E2-5. 1145-1200

Comparison of evapotranspiration and heat budget between cassava field and rain-fed rice paddy field in Thailand

Mr. Attarod PEDRAM (Tokyo University of Agriculture and Technology)

12:00-13:00 Lunch Break

13:00-15:15 Session E3

Hydrology / Atmospheric Hydrology / Rainfall

Chair: Mr. Thada Sukhapunaphandh

E3-1. 1300-1315

Influence of Extraction and Recharge on Ground Water level in Phichit Flood Plain, Thailand

Assist. Prof. Phattaporn Mekpruksawong (Royal Irrigation Department)

E3-2. 1315-1330

Rainfall Patterns for Mainland Southeast Asia under Different Atmospheric CO2 Levels

Dr. Anond Snidvongs (Director, Southeast Asia START Regional Center)

E3-3 1330-1345

The Foundation of Rainfall Estimation Using Remote Sensing

Dr. Kobkiat Pongput (Kasetsart University)

E3-4. 1345-1400

Stochastic process for analyzing rainfall events distribution

Ms. Sarintip Tantanee (Naresuan University)

E3-5. 1400-1415

A numerical study of precipitation characteristics in Thailand

Dr. Hironori Fudeyasu (National Research Institute for Earth Science and Disaster Prevention)

E3-6. 1415-1430 (will be cancelled)

Analytical Execution of Surface Runoff on The Chao Phraya and Tributaries River Basin

Mr. Atthaporn Phuthapalit (Royal Irrigation Department), Assoc. Prof. Dr. Hansa Vathananukij and Mr. Pairach Kitworawut (Kasetsart University)

E3-7. 1430-1445

Statistical data of rainfall rate at Ranong and Trad Province

Mr. Thikumporn Boonchuk (KMITL)

E3-8. 1445-1500

The Variation of Atmospheric Water Resources Over Lower-Northeastern River Basin of Thailand

Dr. Prasert Aungsuratana (BRRAA)

E3-9. 1500-1515

Application of spatial techniques for meteorological data of Thailand

Mr. Samarn Prakamrat, Niphon Sukhanthamat and Somchai Baimoung (TMD)

15:15-15:30 Break

15:30-16:45 General Discussion

Chair; Prof. Taikan Oki

16:45-17:00 Concluding Remarks

Poster Presentation 3

P3-1. Flood Monitoring in Thailand

Mr. Pakorn Petchprayoon (GISTDA)

P3-2 . The characteristics of evapotranspiration at TFMS

Mr. Hyungjun Kim (Yonsei University)

P3-3. Comparison of Actual Evapotranspiration and Stomata Conductance of Teak plantation and Agricultural Area

Mr. Somboon Promsen (Kasetsart University)

P3-4. Variation of Soil Moisture and Actual Evapotranspiration in Cassava Field, Khon Buri District, Nakhon Ratchasima Province

Ms Rachaneewan Rahura (Kasetsart University)

P3-5.

The vegetation analysis around TFMS.

Mr. Jaeil Cho and Prof. Sungduk Kim (Chungnam University)

P3-6. Seasonal and annual trends of evapotranspiration in rain-fed rice paddy field and teak plantation in Thailand

Mr. Kazushi Hayashi (Tokyo University of Agriculture and Technology)

P3-7. Estimation of nitrate concentration deriving from nitrogenous using a global river model

Mr. Yoshito Suga (IIS, University of Tokyo)

P3-8. The degree of land-atmosphere interaction in an Atmospheric General Circulation Model in comparison with that of four Atmospheric General Circulation Models

Mr. Tomohito Yamada (IIS, University of Tokyo)

P3-9. Development of a river network map of Japan in 0.1 degree x 0.1 degree spatial resolution

Mr. Tsuyoshi Okazawa (IIS, University of Tokyo)

P3-10. Sap flow and water potential of hill evergreen forest trees in response to soil water deficit

Mr. Tomonori Kume (Graduate School of Agricultural and Life Sciences, The University of Tokyo)

P3-11. Estimating the origin of rainwater by stable isotopes in Thailand

Dr. Kimpei Ichiyanagi (Frontier Observational Research System for Global Change)

P3-12. Precipitable Water Vapor Change Obtained from GPS data at Khon Kaen, Thailand

Prof. Mikio Satomura (Faculty of Science, Shizuoka University)

P3-13 Isotopic land surface model and river routing scheme: Simulation of isotopic variability in Ping river water

Mr. Kei Yoshimura (IIS, University of Tokyo)

P3-14

Introduction to APHW

Prof. Katumi Musiaka (Fukushima University)