The First International Workshop on
Prevention and Mitigation of Meteorological Disasters in Southeast Asia
March 3 - 5, 2008, Palace Side Hotel, Kyoto, Japan

March 3 (Mon)

9:00 9:10 Opening

9:10 9:30 Shigeo YODEN
Department of Geophysics, Kyoto University
JAPAN
International Research for Prevention and Mitigation of Meteorological Disasters in Southeast Asia

Session I: High-resolution numerical weather predictions (chair: S. Yoden)

9:30 9:50 Emmy SUPARKA
Institut Teknologi Bandung
INDONESIA
Reduction of Geohazard Risks for Sustainable Development in Indonesia

9:50 10:30 Tri Wahyu HADI
Institut Teknologi Bandung
INDONESIA
Mesoscale NWP Model Intercomparisons for the Maritime Continent: Preliminary Results and Future Plan

(coffee break)

11:00 11:20 Kazuo SAITO
Meteorological Research Institute, JMA
JAPAN
Contribution of MRI to the International Research for Prevention and Mitigation of Meteorological Disasters in Southeast Asia

11:20 11:40 Tabito HARA
Japan Meteorological Agency
JAPAN
Operational Mesoscale NWP at the Japan Meteorological Agency

11:40 12:20 Md. Nazrul ISLAM
SAARC Meteorological Research Centre
BANGLADESH
Use of Regional Climate Model to Study Extreme Weather Events in and around Bangladesh

(lunch break)

13:30 13:50 KIEU Thi Xin
Vietnam National University of Hanoi
VIETNAM

13:50 14:30 Mezak Arnold RATAG
Indonesia National Meteorology and Geophysical Agency (BMG)
INDONESIA
Development of High Resolution Models and its Applications for Weather and Climate Risk Reduction in Indonesia (tentative)

14:30 14:50 Palikone THALONGSENGCHANH
Department of Geophysics, Kyoto University
JAPAN/LAO, PDR
A Down-Scale Experiment on Numerical Weather Prediction in Indochina Region (Lao PDR)

14:50 15:30 Krushna Chandra GOUDA
CSIR Centre for Mathematical Modelling and Computer Simulation
INDIA
Comparison of Two Strategies for Simulation of Extreme Rainfall Events

(coffee break)

Session II: Tutorials and demonstrations (chair: S. Yoden)

16:00 16:40 Shugo HAYASHI
Meteorological Research Institute, JMA
JAPAN
Basic Usage of the NHM for Numerical Weather Experiments

16:40 17:20 Seiya NISHIZAWA
Department of Geophysics, Kyoto University
JAPAN
Experimental Development of a Unified Database and Decision Support System for Prevention and Mitigation of Meteorological Disasters

40 min. talk = 30 min. presentations + 10 min. questions/discussions
20 min. talk = 15 min. presentations + 5 min. questions/discussions
### Session III: High-impact weather and its simulation/prediction (chair: K. Saito)

<table>
<thead>
<tr>
<th>Time</th>
<th>Presenter</th>
<th>Institution/University</th>
<th>Country/PDR/Province</th>
<th>Topic</th>
</tr>
</thead>
<tbody>
<tr>
<td>9:00</td>
<td>Vinliam BOUNLOM</td>
<td>Hydrological Division, Department of Meteorology and Hydrology</td>
<td>LAO, PDR</td>
<td>Country Report on Hydro-Meteorological Disasters in Lao PDR For the Year 2006</td>
</tr>
<tr>
<td>9:20</td>
<td>Long SARAVUTH</td>
<td>Ministry of Water Resources and Meteorology</td>
<td>CAMBODIA</td>
<td>Flash Flood in Prea Vihear Province (tentative)</td>
</tr>
<tr>
<td>9:40</td>
<td>Fredolin TANGANG</td>
<td>National University of Malaysia</td>
<td>MALAYSIA</td>
<td>On the Roles of the Northeast Cold Surge, the Borneo Vortex, the MJJ and the IOD during the Worst 2006/2007 Flood in Southern Peninsular Malaysia</td>
</tr>
<tr>
<td>10:20</td>
<td>Taichi HAYASHI</td>
<td>DPRI, Kyoto University</td>
<td>JAPAN</td>
<td>Disaster by the Severe Cyclone &quot;Sid&quot; in the Coastal Region of Bangladesh in November, 2007</td>
</tr>
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(coffee break)

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<tr>
<td>11:10</td>
<td>Hiromu SEKO</td>
<td>Meteorological Research Institute, JMA</td>
<td>JAPAN</td>
<td>Numerical Simulation of Heavy Rainfall Events in South/Southeast Asia Using HMM</td>
</tr>
<tr>
<td>11:30</td>
<td>Rosbintarti Kartika</td>
<td>Nanyang Technological University</td>
<td>SINGAPORE</td>
<td>Preliminary Study on the Precipitation of Maritime Southeast Asia</td>
</tr>
<tr>
<td>11:50</td>
<td>Kazuhisa TSUBOKI</td>
<td>Nagoya University</td>
<td>JAPAN</td>
<td>Simulation Experiments of Typhoons and Tornadoes Using the Cloud Resolving Model</td>
</tr>
<tr>
<td>12:10</td>
<td>Toshiki IWASAKI</td>
<td>Tohoku University</td>
<td>JAPAN</td>
<td>Influences of Cloud Microphysical Processes on Structure and Development of Tropical Cyclone</td>
</tr>
<tr>
<td>12:30</td>
<td>Mitsuru UENO</td>
<td>Meteorological Research Institute, JMA</td>
<td>JAPAN</td>
<td>Recent Advancements in the Understanding of Typhoon Inner-Core Structures and its Implication for Typhoon Vortex Initialization</td>
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(lunch break)

### Session IV: Satellite observations, their applications and data assimilation (chair: T.-Y. Koh)

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<tr>
<td>14:00</td>
<td>Toshitaka TSUDA</td>
<td>RISH, Kyoto University</td>
<td>JAPAN</td>
<td>Utilization of GPS Radio Occultation Data for the Studies of Atmosphere Dynamics</td>
</tr>
<tr>
<td>14:40</td>
<td>Yoshinori SHOJI</td>
<td>Meteorological Research Institute, JMA</td>
<td>JAPAN</td>
<td>An Experiment of Near-real-time Precipitable Water Vapor Retrieval Using Ground-Based GPS stations in South East Asia</td>
</tr>
<tr>
<td>15:00</td>
<td>Perapol BEGKHUNTOD</td>
<td>RFMMC, Mekong River Commission</td>
<td>CAMBODIA</td>
<td>Satellite-Based Rainfall Estimation and Hydro-Meteorological Networks for Flood Forecasting in the Mekong River Basin</td>
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(coffee break)

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<tr>
<td>16:10</td>
<td>Hirohiko ISHIKAWA</td>
<td>DPRI, Kyoto University</td>
<td>JAPAN</td>
<td>Satellite Monitoring of Hazardous Weather in Asia</td>
</tr>
<tr>
<td>16:30</td>
<td>Masaru KUNII</td>
<td>Meteorological Research Institute, JMA</td>
<td>JAPAN</td>
<td>Meso-Scale Data Assimilation Experiment in Low Latitudes</td>
</tr>
<tr>
<td>16:50</td>
<td>Le DUC</td>
<td>Vietnam National University of Hanoi</td>
<td>VIETNAM</td>
<td>Development of a Data Assimilation System with HRM Model and 3DVAR Technique</td>
</tr>
<tr>
<td>17:10</td>
<td>Takeshi ENOMOTO</td>
<td>Japan Agency for Marine-Earth Science and Technology</td>
<td>JAPAN</td>
<td>ALERA/AES-LETKF Experimental Ensemble Reanalysis</td>
</tr>
<tr>
<td>17:30</td>
<td>Vilajasupu S. PRASAD</td>
<td>National Center for Medium Range Weather Forecasting</td>
<td>INDIA</td>
<td>Assimilation of Direct Satellite Radiance Data at NCMIWF</td>
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(banquet)

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March 5 (Wed)

Session V: Model output statistics, predictability, and decision supports (chair: T. Satomura)

9:00 9:20 Tieh Yong KOH Nanyang Technological University SIMGAPORE Statistical Verification of COAMPS Model over SCSMEX Period
9:20 9:40 Hongwen KANG APEC Climate Center KOREA Multi-Model Output Statistical Downscaling Prediction of Precipitation in the Philippines and Thailand
9:40 10:00 Edwin S. T. LAI Hong Kong Observatory P. R. CHINA Use of NWP and EPS Products in Support of Location-Specific Forecasts
10:00 10:20 Hitoshi MUKOUGAWA DPRL Kyoto University JAPAN Predictability of Tropical Circulation Examined by Breeding of Growing Mode(BGM) Method for JMA Ensemble Prediction System

(coffee break)

10:50 11:10 Syozo YAMANE Chiba Institute of Science JAPAN Properties of Ensemble Perturbations Evolving in an Atmospheric General Circulation Model
11:10 11:30 Prawit JAMPANYA Thai Meteorological Department THAILAND The Meteorological Natural Disasters Warning System of Thailand
11:30 11:50 SANGA-NGOIE Kazadi Ritsumeikan Asia Pacific University JAPAN Our Endangered Coastal Ecosystems - an Eco-climatic and Risk Analysis Using GIS and Remote Sensing -
11:50 12:10 Kamol PROMASAKHA NA SAKOLNAKHON Thai Meteorological Department THAILAND Integration NWP Data and Applied Geographic Information System(GIS) Management for Landslide at Amphure Pai, Mae Hong Son
12:10 12:30 Takeshi HORINOUCHI RISH, Kyoto University JAPAN Database and Data-Analysis Infrastructure for Atmospheric Studies

(lunch break)

Session VI: High-resolution model as a fundamental research tool (chair: T.W. Hadi)

14:00 14:20 Takehiko SATOMURA Department of Geophysics, Kyoto University JAPAN Development of Ultra-High Resolution Numerical Model
14:20 14:40 Nurjanna Joko TRILAKSONO Institut Teknologi Bandung INDONESIA Study of Diurnal Patterns of Convection in Sumatra Island Using Weather Research and Forecasting-Advanced Research WRF (WRF-ARW) Model
14:40 15:00 Shigenori OTSUKA Department of Geophysics, Kyoto University JAPAN Numerical Experiments on Vertically Fine Structures of Water Vapor in the Tropics
15:00 15:20 Yoichi ISHIKAWA Department of Geophysics, Kyoto University JAPAN Dependency of the Tropical Convective Clouds on the Sea Surface Temperature Simulated by a High-Resolution Coupled Model
15:20 15:40 Tetsuya TAKEMI DPRL Kyoto University JAPAN Environmental Stability Control of the Precipitation Structure and Intensity within Mesoscale Convective Systems

(coffee break)

Session VII: Future research and collaborations

16:10 16:50 all participants Open Discussions
16:50 17:00 Closing

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