

# **The Second Asia/Oceania Meteorological Satellite Users' Conference**

## **PROVISIONAL SCHEDULE**

**6-9 December 2011**  
**Mita Kaigisho, Tokyo, Japan**

### **Tuesday, December 6**

9:15     **Registration at Auditorium Lobby**

#### **Opening**

Chair: James Purdom (Chair, International Conference Steering Committee)

Room: Auditorium (1st floor)

- 10:00     **James Purdom**  
Chair, International Conference Steering Committee
- 10:05     **Jin Matsubara**  
Senior Vice-Minister of Ministry of Land, Infrastructure, Transport and Tourism (MLIT),  
Japan
- 10:10     **Mitsuhiko Hatori**  
Director-General of Japan Meteorological Agency (JMA)
- 10:15     **Caiying Wei**  
Deputy Director General of National Satellite Meteorological Center (NSMC), China  
Meteorological Administration (CMA)
- 10:20     **Ae-Sook Suh**  
Director General of National Meteorological Satellite Center (NMSC), Korea  
Meteorological Administration (KMA)
- 10:25     **John Le Marshall**  
Australian Bureau of Meteorology (AuBoM)
- 10:30     **Synergies between Meteorological Satellites and Other GEOSS Resources**  
José Achache, Director of GEO Secretariat, Group on Earth Observations (GEO)
- 10:45     **The WMO Integrated Global Observing System (WIGOS)**  
Wenjian Zhang, Director of WMO OBS Department, World Meteorological  
Organization (WMO)
- 11:00     Information from Local Organizing Office
- 11:05     Coffee Break

#### **Session 1: Current and future satellite programs and systems**

Chairs: Paul Menzel (CIMSS), Toshiyuki Kurino (JMA)

Room: Auditorium (1st floor)

- 11:25     **Status and Future Plans of the Chinese FengYun Meteorological Satellites**  
Caiying Wei, CMA
- 11:40     **Current Status and Future Plan of Korea Meteorological Satellite Program**  
Ae-Sook Suh, NMSC/KMA
- 11:55     **Current Status and Future Plan of Japanese Meteorological Satellite Program**  
Satoru Tsunomura, JMA
- 12:10     **Current Status and Future Plan of JAXA Earth Observation Programs**  
Tamotsu Igarashi, JAXA

- 12:25 Lunch
- 13:25 **Current and future satellite programs and systems of the Roshydromet**  
Liubov Kramareva, ROSHYDROMET
- 13:40 **Status of current and future EUMETSAT satellite programmes**  
Mikael Rattenborg, EUMETSAT
- 13:55 **Status of Current and Future NOAA Satellite Programs**  
Gregory Robinson, NOAA/NESDIS
- 14:10 Break

## **Session 2: Facilitation of satellite data access and utilization**

Chairs: Mikael Rattenborg (EUMETSAT), Jiashen Zhang (CMA)

Room: Auditorium (1st floor)

- 14:15 **FengYun Satellite Data Service**  
Jiashen Zhang, NSMC/CMA
- 14:30 **Current Status of COMS MI Operation and It's Data Service**  
Seung-Hee Sohn, KMA
- 14:45 **GOES-R AWG Product Processing System Framework**  
Shanna Sampson, NOAA/NESDIS
- 15:00 **Land and ocean satellite data products from the Australian Bureau of Meteorology**  
Ian Grant, AuBoM
- 15:15 Coffee Break
- 15:30 **The operational use of meteorological satellite data at the Meteorological Service of New Zealand**  
Wim Van Dijk, MetService of New Zealand
- 15:45 **MTSAT derived products for operational meteorological services at BMKG Indonesia**  
Riris Adriyanto, BMKG
- 16:00 **Use of satellite products for weather and environmental monitoring in Singapore**  
Keng Oon Chiam, National Environment Agency (Singapore)
- 16:15 **Community Satellite Processing Package (CSPP) - A Level 0 to Level 2 Software System for NPP/JPSS Real Time Processing and Applications**  
Hung-Lung Allen Huang, University of Wisconsin-Madison
- 16:30 **Overview of GSICS: Strategy, Implementation, and Benefits**  
Mitch Goldberg, NOAA/NESDIS
- 16:45 **A New Cross-calibration Approach for Different Thermal Emissive Bands in FY-2 Satellite with On-orbit Lunar Observations**  
Qiang Guo, NSMC/CMA
- 17:00 **COMS and COMS INR, One Year into the Mission**  
Han-dol KIM, KARI
- 17:15 **NOAA Operational Calibration Support to NPP/JPSS Program**  
Fuzhong Weng, NOAA/NESDIS
- 17:30 **JMA Inter-Calibration Activities under WMO GSICS Framework**  
Arata Okuyama, MSC/JMA

## **Icebreaker Reception**

- 18:00 (Reception Hall in Mita Kaigisho)

## Wednesday, December 7

### Session 2: Facilitation of satellite data access and utilization (cont.)

Chairs: Mitch Goldberg (NOAA/NESDIS), Seung-Hee Sohn (KMA)

- 9:30     **Status of Asia-Pacific Regional ATOVS Retransmission Services**  
Norio Kamekawa, MSC/JMA
- 9:45     **Application of COMS data in KMA**  
Eun ha Sohn, NMSC/KMA
- 10:00    **Study on Super-Resolution Image Reconstruction of Remote Sensing Images of Meteorological Satellite**  
Boyang Chen, NSMC/CMA
- 10:15    **Satellite Image for weather forecasting in case Tropical cyclone "Nok Ten".**  
Aroon Sankwan, Thai Meteorological Department (TMD)
- 10:30    **Utilization of satellite data in weather forecasting of Vietnam**  
Thi Hoang Giang Nguyen, National Hydro-Meteorological Service of Viet Nam
- 10:45    **Utilization of Meteorological Satellite Data and Products to support Weather Forecasting and Warning Services in Hong Kong**  
Chi Kuen So, Hong Kong Observatory (HKO)
  
- 11:00    Coffee Break
  
- 11:20    **Facilitation of satellite data access and utilization**  
Mikael Rattenborg, EUMETSAT
- 11:35    **NOAA Satellite Data Utilization and Applications for Societal Benefits**  
Mitch Goldberg, NOAA/NESDIS
- 11:50    **Satellite data utilization at the Roshydromet**  
Nina Sviridova, ROSHYDROMET
- 12:05    **GeoMetWatch-STORM: Global Constellation of Next-Generation Ultra-Spectral Geostationary Observatories**  
Hung-Lung Allen Huang, University of Wisconsin-Madison
- 12:20    **Global dataset of geostationary meteorological satellites and its applications**  
Atsushi Higuchi, Chiba University
  
- 12:35    Lunch

### Discussion for Poster Presentations

Room: Auditorium (1st floor)

- 13:15    (See the list of poster presentations)

### Session 3: Satellite data application for atmosphere, ocean and land

Chairs: Takashi Nakajima (Tokai University), Jae-Myun Shim (KMA)

Room: Auditorium (1st floor)

- 13:55    **Spectral bands and their Applications**  
James Purdom, Senior Research Scientist emeritus, CIRA Fellow
- 14:20    **Recalibrating and Reprocessing the HIRS Data to infer Global Cloud Properties and Trends**  
Paul Menzel, University of Wisconsin-Madison
- 14:45    **Estimation of radiation budget using Geostationary satellites.**  
Hideaki Takenaka, Chiba University

- 15:00 **Atmospheric parameter retrievals from hyperspectral data in the presence of clouds**  
Xu Liu, NASA Langley Research Center
- 15:15 **Tracking of volcanic ash emanated through Shinmoedake eruption by using MTSAT split-window imagery**  
Toshihisa Itano, National Defense Academy
- 15:30 Coffee Break
- 15:50 **Investigation of Two Extreme Summer Arctic Sea-Ice Extent Anomalies in 2007 and 1996**  
Xiquan Dong, University of Tokyo / University of North Dakota (USA)
- 16:05 **Spatio-temporal change of Net Primary Production in South-East Asia from 1985 to 2006**  
Guicai Li, NSMC/CMA
- 16:20 **Post-Storm Satellite Images to Trace Tornado Damage Path from the Wind Borne Debris Deposits**  
Radhika Sudha, Tokyo Polytechnic University
- 16:35 **15-year Clear Sky Radiance dataset processing at MSC/JMA**  
Takahito Imai, MSC/JMA

## Thursday, December 8

### Session 4: Earth observation satellite

Chair: Haruhisa Shimoda, Tokai University

Room: Auditorium (1st floor)

- 9:30     **Overview of Global Change Observation Mission (GCOM)**  
Haruhisa Shimoda, Tokai University
- 9:55     **Global Precipitation Measurement (GPM)**  
Kenji Nakamura, Nagoya University
- 10:20    **Overview of Global Satellite Mapping for Precipitation (GSMaP)**  
Misako Kachi, JAXA
- 10:35    Coffee Break
- 10:55    **Current status of the EarthCARE satellite mission and its sciences**  
Teruyuki Nakajima, University of Tokyo
- 11:20    **J-Simulator: development of the joint satellite simulator and cloud evaluation of the global 3.5km mesh simulation by NICAM.**  
Masaki Satoh, University of Tokyo
- 11:35    Lunch

### Session 5: GEOSS Asian Water Cycle Initiative (AWCI)

Chair: Toshio Koike (University of Tokyo)

Room: Auditorium (1st floor)

- 12:45    **GEOSS Water Cycle Integrator**  
Toshio Koike, University of Tokyo
- 13:10    **Land-Lake-Atmosphere Interaction and its Effects on Rainfall, Soil Moisture, and Local Water Use in Cambodia**  
Kumiko Tsujimoto, University of Tokyo
- 13:25    **Reducing Climate Change Risks and Vulnerabilities**  
Karma Chhophel , Hydro-met Services
- 13:40    **Flood Monitoring and Early Warning System in Thailand**  
Thada Sukhapunphan, Ministry of Agriculture and Cooperatives
- 13:55    **Flood and Drought Impacts and Climate Change**  
Singthong Pathoummady, DDG of DMH, MoNRE
- 14:10    **Drought Data Integration and Information Fusion in Asia**  
Patricia Jaranilla Sanchez, University of Tokyo
- 14:25    **Verification of Satellite Derived Monthly Rain Rate Fields in Siberia**  
Oleg M. Pokrovsky, ROSHYDROMET
- 14:40    **Summary**
- 14:55    Coffee Break

### Session 6: Severe weather and precipitation

Chairs: Marianne König (EUMETSAT), Qiang Guo (CMA)

Room: Auditorium (1st floor)

- 15:15    **Use of Meteosat Second Generation Data for convection nowcasting**

- Marianne König, EUMETSAT
- 15:40 **Analysis of Rapidly Developing Cumulus Areas from MTSAT-1R Rapidscan observation images**  
Akira Sobajima, MSC/JMA
- 15:55 **WMO support for monitoring and prediction of severe weather in Asia and the Pacific**  
Kuniyuki Shida, WMO
- 16:10 **Space-based Precipitation Datasets: Opening New Frontiers in Atmospheric and Hydrologic Applications**  
Agnes Lane, Australian Bureau of Meteorology (AuBoM)
- 16:25 **Estimating Tropical Cyclone Vertical Gradient Parameter (TC VGP) using satellite microwave sounding data**  
Xin Wang, NSMC/CMA
- 16:40 **Imagery with Heavy Rainfall Potential Areas – a satellite product to support severe weather monitoring**  
Ayako Takeuchi, MSC/JMA

## Friday, December 9

### Session 7: Application of satellite data to numerical weather prediction

Chairs: Lars Peter Riishojgaard (JCSDA), Yoshiaki Sato (JMA)

Room: Room C - E (3rd floor)

- 9:30    **Use of NPP and FY-3 data in the Joint Center for Satellite Data Assimilation**  
Lars Peter Riishojgaard, JCSDA
- 9:55    **The Use and Impact of Satellite-derived Atmospheric Motion Vectors in Numerical**  
David Santek, CIMSS
- 10:10   **Derivation and Application of Mesoscale Atmospheric Motion Vectors in KMA/NIMR**  
Jeong-Hyun Park, NIMR/KMA
- 10:25   **Study of relationship of time intervals and target box sizes for rapid-scan  
Atmospheric Motion Vector computation**  
Masahiro Hayashi, MSC/JMA
- 10:40   Coffee Break
- 11:00   **Data quality of FY-3 sounders and its application in NWP**  
Qifeng Lu, NSMC/CMA
- 11:00   **Satellite Data Assimilation - Improving Specification of Current and Future  
Atmospheric State.**  
John Le Marshall, Australian Bureau of Meteorology (AuBoM)
- 11:15   **Some applications of satellite data in the WMO THORPEX Programme**  
Samuel J Caughey, WMO
- 11:30   **Improved Coastal Precipitation Forecasts with Direct Assimilation of GOES-11/12  
Imager Radiances**  
Xiaolei Zou, Florida State University

### Session 8: Climate Monitoring from Space

Chair: Tillmann Mohr (Special Advisor to the Secretary-General of WMO on Satellite Matters)

Room: Auditorium (1st floor)

- 10:00   **Architecture for Monitoring Climate from Space**  
Tillmann Mohr, Special Advisor to the Secretary-General of WMO on Satellite Matters
- 10:10   **GEOSS Climate Societal Benefit Area**  
Masami Onoda, GEO
- 10:25   **World Climate Research Programme (WCRP): Climate Research in Service to Society**  
Teruyuki Nakajima, University of Tokyo
- 10:40   **WMO's Contributions to Climate Monitoring, and the Need for an End-to-End System**  
Barbara Ryan, WMO

#### Planned Contributions by Space Agencies

- 10:55   **Caiying Wei, CMA**
- 11:00   **(TBD), KMA**
- 11:05   **Nina Sviridova, ROSHYDROMET**
- 11:10   **Kazutoshi Onogi, JMA**
- 11:15   **(TBD), JAXA**
- 11:20   **Discussion**

11:45 Coffee Break

## **Plenary Session**

Chaired by James Purdom (Chair, International Conference Steering Committee)

12:05 Discussion on future conference

## **Closing**

13:00 Lunch

## **Adjourn**



## Poster Presentations

Posters are displayed at Auditorium during whole conference time, and discussion for poster presentations can be made anytime. In addition, there are dedicated discussion times for poster presentation on Wednesday, December 7.

- P1    **WIGOS Benefits**  
James Purdom, Senior Research Scientist emeritus, CIRA Fellow
- P2    **WIGOS Capacity Building**  
James Purdom, Senior Research Scientist emeritus, CIRA Fellow
- P3    **Isolated cumulonimbus initiation observed by MTSAT-1R (rapid scan), 95-GHz FM-CW radar, X-band radar, and photogrammetry in the Kanto region, Japan**  
Fumiaki Kobayashi, National Defense Academy
- P4    **Impact of the assimilation of GPS slant total delay observations on a local heavy rainfall forecast**  
Takuya Kawabata, MRI/JMA
- P5    **Improvement of rainfall forecast by assimilations of ground-based GPS data and radio occultation data**  
Hiromu Seko, MRI/JMA
- P6    **Optimal Estimation Technique for Sea Surface Temperature Retrieval from Infrared Multichannel Data**  
Yukio Kurihara, MSC/JMA
- P7    **Convective Cloud Towers and Precipitation Initiation, Frequency and Intensity**  
Reza Khanbilvardi, City College of New York National Severe Storms Laboratory
- P8    **Comparisons of precipitable water using special observation data in winter at incheon in Korea**  
YEON-HEE KIM, NIMR/KMA
- P9    **Effects of the 2010 summer special observation data on the rainfall predictability**  
Seung-Sook SHIN, NIMR/KMA
- P10   **Unique algorithms for retrieving sea ice and soil moisture information using AQUA/AMSR-E measurements**  
Sungwook Hong, NMSC/KMA
- P11   **GPS Meteorology: Under Estimation of IPWV by Ground Based GPS system in some meso-scale Thunder storms – A case study.**  
N.Puviarasan, IMD
- P12   **Use of rapid scan data for retrieving properties of growing convective storms**  
Atsushi Hamada, University of Tokyo
- P13   **International TOVS Working Group (ITWG)**  
Hung-Lung Allen Huang, University of Wisconsin-Madison
- P14   **International Direct Broadcast User's Training Workshop**  
Hung-Lung Allen Huang, University of Wisconsin-Madison
- P15   **Direct Broadcast End-To-End Processing and Application System**  
Hung-Lung Allen Huang, University of Wisconsin-Madison
- P16   **High-performance GPU-based Radiative Transfer Model for Hyperspectral/Ultraviolet Sounder**  
Hung-Lung Allen Huang, University of Wisconsin-Madison
- P17   **GeoMetWatch-STORM- Partnership and Collaboration Opportunity**  
Hung-Lung Allen Huang, University of Wisconsin-Madison
- P18   **An Equal-Angle Space-Time Gridding Tool for NPP Cloud Products**  
Paul Menzel, University of Wisconsin-Madison
- P19   **The WMO/CGMS Virtual Laboratory for Education and Training in Satellite**  
Barbara Ryan, WMO Space Program

P20    **The International Precipitation Working Group**  
Vincenzo Levizzani, IPWG Co-Chair emeritus