

# 4<sup>th</sup> Asia-Oceania Meteorological Satellite Users Conference

9-11 October 2013 | Melbourne Convention and Exhibition Centre, Melbourne, Australia

## PROVISIONAL SCHEDULE

DAY 1: Wednesday, October 9

*08:00 - 09:00*

*REGISTRATIONS*

### Opening

09:00	<b>James Purdom</b> Chair, International Conference Steering Committee
09:05	<b>Barry Hanstrum</b> Deputy Director, Observations, Australian Bureau of Meteorology
09:10	<b>Yang Jun</b> Director General, National Satellite Meteorological Centre (NSMC), China Meteorological Administration (CMA)
09:15	<b>Kum-Lan Kim</b> Director, National Meteorological Satellite Centre (NMSC), Korea Meteorological Administration (KMA)
09:20	<b>Masanori Obayashi</b> Director, Satellite Program Division, Japan Meteorological Agency (JMA)
09:25	<b>Wenjian Zhang</b> Director, Observations and Information Systems Department, World Meteorological Organisation (WMO)
09:30	<b>Prof John Zillman AO FAA FTSE</b> The Weather Satellite Revolution
09:55	Information from Local Organising Committee

*10:00 - 10:20*

*COFFEE BREAK*

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

**Chairs: Dr W. Paul Menzel and Dr John Le Marshall**

10:20	<b>Yang Jun, CMA</b> Updates on CMA Satellite Program
10:40	<b>Kum-Lan Kim, KMA</b> Current and Future Plan of KMA Satellite Program
11:00	<b>Masanori Obayashi, JMA</b> Status of Current and Future Satellite Programs of Japan Meteorological Agency
11:20	<b>Dieter Klaes, EUMETSAT</b> The EUMETSAT Polar System - Towards the next generation
11:40	<b>Paul Menzel for Mitch Goldberg, NOAA</b> Joint Polar Satellite System's - Operational and Research Applications
12:00	<b>Jim Purdom, WMO</b> Current and Future Satellite Programs of the Roshydromet

*12:20 – 13:10*

*LUNCH*

## Session 2: Program Plans, Data Access and Utilization

**Chairs: Dr Wenjian Zhang and Dr Chris Tingwell**

13:10	<b>John Le Marshall for Steven J. Goodman, NOAA/NESDIS</b> The GOES-R Proving Ground: Accelerating User Readiness for the Next Generation of Geostationary Operational Satellites
13:30	<b>Jian Liu, CMA</b> Progress on FengYun Satellite Data Sharing and Service
13:50	<b>Feng Lu, CMA</b> Toward a seamless transition of FY-4
14:10	<b>Jae-Dong Jang, KMA</b> The current status of COMS MI Data Processing and Service in NMSC
14:30	<b>Paul Menzel for Allen Huang, SSEC</b> Status of Community Satellite Processing Package (CSSP)

*14:50 – 15:05*

*COFFEE BREAK*

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## Session 3: National Use of Satellite Data

**Chairs: Mrs Kum-Lan Kim and Dr Lawrence Rikus**

15:05	<b>Adam Lewis, GA</b> National Planning and Coordination for the use of Satellite Data in Australia
15:25	<b>Wim van Dijk, NZMS</b> How the National Meteorological Service of New Zealand uses satellite data
15:45	<b>Ana Oktavia Setiowati, BKMG</b> Satellite Meteorology – derived Products for disaster monitoring at BMKG
16:05	<b>Jo Hye Young, KARI</b> Mission Planning for Two Years Normal Operation of COMS
16:25	<b>Anthony Rea, BOM</b> SCOPE - Nowcasting
16:45	<b>Agnes Lane, BOM</b> Satellite User Requirements in WMO Region-V (South-West Pacific)
17:05	<b>Bodo Zesche, BOM</b> Report on 4 <sup>th</sup> AOMSUC Training Event

Day One Proceeding Close

19:00 – 21:00 **Ice Breaker: KOORI HERITAGE TRUST HOUSE**  
**295 King Street, Melbourne**

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DAY 2: Thursday, October 10

Session 4: Operational Applications - SST and Soil Moisture

**Chairs: Prof Kyung-Soo Han and Dr Ian Grant**

09:00	<b>Helen Beggs, BOM</b> The Group for High Resolution Sea Surface Temperature (GHR SST) - Activities in Asia and Oceania
09:20	<b>Oleg Pokrovsky, RosHydroMet</b> Detection of the spatial anomalies in the North Pacific SST field to forecast extreme monsoon rain area extension to the Northern Asia
09:40	<b>Christopher Griffin, BOM</b> A Quick introduction to the methods and features of the IMOS HRPT AVHRR SST dataset produced by the Australian Bureau of Meteorology
10:00	<b>Jeffrey Walker, Monash University</b> State-of-the-art in soil moisture remote sensing
10:20	<b>Kefei Zhang, RMIT</b> Soil moisture measurements using reflected GNSS signals – a recent Australian quest

*10:40 – 11:00 COFFEE BREAK*

Session 5: Application of EOS to Volcanic Ash Detection, Solar Radiation and Land Surface

**Chairs: Prof. Teruyuki Nakajima and Mr Barry Hanstrum**

11:00	<b>Andrew Tupper, BOM</b> Volcanic Ash Services for Aviation
11:20	<b>Yoshiaki Honda, Chiba University</b> Study on possibility of vegetation biomass analysis using meteorological satellite
11:40	<b>Ian Grant, BOM</b> Solar resource mapping from geostationary satellite data: Status and needs

*12:00 – 13:00 LUNCH*

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## Session 6: Product Development and Applications

**Chairs: Dr Yang Jun and Dr Beth Ebert**

13:00	<b>Kotaro Bessho, JMA</b> Current status of Himawari-8/9 products development
13:20	<b>Kenneth Carey, NOAA/NESDIS</b> Maximizing the Usefulness of Satellite Data, Products, and Services--Pursuing Excellence in Satellite Training, Education and Outreach
13:40	<b>Kum-Lan Kim, KMA</b> Improved status of COMS meteorological products
14:00	<b>Han-dol Kim, KARI</b> On the COMS Data Product Timeliness
14:20	<b>Xiang Fang, CMA</b> Introduction of Meteorological Satellite Remote Sensing Application Platform

*14:40 – 15:50*

*COFFEE BREAK and EXTENDED POSTER SESSION*

Workshop (parallel to poster session)

14:40 - 15:50 **Satellite Data/Product requirements for Region V**

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## Session 7: Calibration, Validation and QC

**Chairs: Dr Adam Lewis and Mr Barry Hanstrum**

15:50	<b>W. Paul Menzel, SSEC</b> Applications of uniform space-time gridding method for comparisons of satellite radiances and derived products
16:10	<b>Qiang Guo, CMA</b> FY-2 On-orbit Operational Calibration Approach (CIBLE) and its Applications in FY-2D/E/F Satellites
16:30	<b>Likun Wang, University of Maryland</b> Suomi NPP CrIS Sensor Data Record Quality Assessment toward the Validated Product Maturity Level
16:50	<b>Lu Qifeng, CMA</b> Monitoring the Data Quality and Stability of the FY-3 Sounders and Microwave Imager
17:10	<b>Chul Min Park, KARI</b> A Study on INRSM Performance Improvement based on Platform Integration using Single Multi-Core System
17:30	<b>Slawek Blonski, NOAA/NESDIS</b> Suomi NPP VIIRS Sensor Data Record (SDR) Calibration and Validation

19:00 - 22:00 **Conference Dinner: Berth Restaurant**  
**45 New Quay Promenade, Docklands**

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DAY 3: Friday, October 11

Session 8: Application of EOS to NWP

**Chairs: Prof. Myoung-Hwan Ahn and Dr Kefei Zhang**

09:00	<b>Prof. John Le Marshall, BOM</b> An Analysis of the Benefit of Earth Observations From Space On Australian And Global Numerical Weather Prediction
09:20	<b>Likun Wang for Fuzhong Weng, NOAA</b> Improving Hurricane/Typhoon Prediction through Assimilation of Suomi NPP Data in HWRF
09:40	<b>Chris Tingwell, BOM</b> Satellite data assimilation in the Bureau of Meteorology ACCESS NWP systems: an overview of current status and future plans

*10:00 - 10:40*

*COFFEE BREAK*

Session 9: Cloud Observations, Aerosol, Lightning and Ice

**Chairs: Mr Masanori Obayashi and Dr Anthony Rea**

10:40	<b>Teruyuki Nakajima, University of Tokyo</b> Derivation of atmospheric aerosol and cloud parameters from the satellite sensors on board Himawari 8-9, GCOM-C, EarthCARE, and GOSAT2 satellites
11:00	<b>Yi Huang, Monash University</b> A-Train Observations of Maritime Storm Track Cloud Systems: Comparing the Southern Ocean against the North Pacific and Atlantic
11:20	<b>Sungwook Hong, KMA</b> Improved retrieval of sea ice surface properties from satellite passive-microwave observations
11:40	<b>Lawrence Rikus, BOM</b> Synthetic Satellite Imagery and Weather Prediction

*12:00 - 13:00*

*LUNCH*

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## Session 10: Precipitation and Severe Weather

**Chairs: Mr Ken Carey and Dr Yoshiaki Honda**

13:00	<b>James F.W. Purdom, WMO</b> Satellite Imagery and Sounding Data and Severe Thunderstorm development and Evolution
13:20	<b>Ruixia Liu, CMA</b> The Use of Feng-Yun Satellite data in short-range Precipitation forecasting in China
13:40	<b>Beth Ebert, BOM</b> High Impact Weather Applications of Space-Based Precipitation Estimates
14:00	<b>Yingjun Chen, The University of Melbourne</b> Evaluation of TRMM 3B42 estimates of tropical cyclone daily rainfall over the Pacific and Australia.
14:20	<b>Dongryeol Ryu, The University of Melbourne</b> Synergistic use of satellite soil moisture and precipitation products for hydrological modelling
14:40	<b>Witold Rohm, RMIT</b> Sensing the 4D Structure of Severe Weather using GPS tomography in the Australian region

*15:00 – 15:25 COFFEE BREAK*

## Session 11: Panel Discussion

**Chairs: Dr Tillman Mohr and Dr James Purdom**

15:25	<b>Tillman Mohr, WMO</b> Architecture for Monitoring Climate from Space - Status and Way Forward
15:45 - 16:45	<b>Monitoring Climate from Space</b> <b>Introduction: Wenjian Zhang, WMO</b> The progress on the development of an architecture for climate monitoring from Space

16:45 Summary and Close of 4th AOMSUC



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