The joint

2007 EUMETSAT Meteorological Satellite Conference
and the

15th American Meteorological Society (AMS) Satellite Meteorology & Oceanography Conference

Amsterdam, The Netherlands
24 - 28 September 2007

Programme -
Verbal Presentations
### CONFERENCE SCHEDULE

**All times reflect GMT +1**

<table>
<thead>
<tr>
<th></th>
<th>SUNDAY</th>
<th>MONDAY</th>
<th>TUESDAY</th>
<th>WEDNESDAY</th>
<th>THURSDAY</th>
<th>FRIDAY</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Registration</strong></td>
<td>16:00 - 19:00</td>
<td>08:00 - 16:00</td>
<td>08:00 - 16:00</td>
<td>08:00 - 16:00</td>
<td>08:00 - 16:00</td>
<td>08:00 - 12:00</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th><strong>CONFERENCE PROGRAMME</strong></th>
<th></th>
<th></th>
<th></th>
<th></th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Opening Ceremony</strong></td>
<td>09:00 - 09:50</td>
<td>08:30 - 12:40</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td><strong>Session 1</strong></td>
<td>09:45 - 17:30</td>
<td>08:30 - 10:00</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>16:15 - 17:30</td>
<td>14:00 - 15:20</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td><strong>Session 2</strong></td>
<td>08:30 - 09:55</td>
<td>11:00 - 12:05</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>14:00 - 17:50</td>
<td><strong>Session 4</strong></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>16:15 - 17:30</td>
<td>08:30 - 12:40</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td><strong>Session 5</strong></td>
<td>14:00 - 15:20</td>
<td>08:30 - 12:40</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>16:15 - 17:35</td>
<td>08:45 - 17:45</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td><strong>Session 6</strong></td>
<td>11:00 - 12:35</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td><strong>Session 7</strong></td>
<td></td>
<td><strong>Session 8</strong></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td>14:00 - 14:50</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td><strong>Session 9</strong></td>
<td></td>
<td>08:30 - 14:50</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td><strong>Session 10</strong></td>
<td></td>
<td>11:00 - 12:30</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td><strong>Joint Sessions 1 &amp; 2</strong></td>
<td>11:00 - 12:35</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td><strong>Closing Ceremony</strong></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th><strong>WORKSHOPS</strong></th>
<th></th>
<th></th>
<th></th>
<th></th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>OSI SAF Workshop</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>SEAFLUX Workshop</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th><strong>POSTER EXHIBIT / VIEWING</strong></th>
<th></th>
<th></th>
<th></th>
<th></th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Set 1</strong></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td><strong>Session 5</strong></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td><strong>Set 2</strong></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td><strong>Session 5</strong></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th><strong>COMMERCIAL EXHIBITS</strong></th>
<th></th>
<th></th>
<th></th>
<th></th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>SOCIAL EVENTS</strong></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Welcome drink</td>
<td>19:00 - 20:30</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Icebreaker Cocktail</td>
<td>18:30 - 20:30</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Gala dinner</td>
<td>19:30 - 22:30</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

### Room allocation:

- Forum
- Auditorium
- Room L
- Room N+N1+O1
- Lobby

### SESSION GUIDE:

1. New and Future Satellite Programmes and Instruments, including a special sub-session on NPOESS/Metop
2. Assimilation in Numerical Weather Prediction
3. Operational Applications
4. Environmental Applications
5. Oceanography
6. Atmospheric Composition
7. Climate and Long-term Data Sets
8. Cloud Processes (cloud properties, precipitation, etc.)
9. Hyperspectral Studies
10. Retrieval Methods

Joint 1 & 2: New and Future Satellite Programmes and Instruments AND Data Assimilation
OPENING CEREMONY

09:00  Official Address
Dr. Frits Brouwer - Director General of Koninklijk Nederlands Meteorologisch Instituut (KNMI)

09:10  Official Address
Dr. Lars Prahm
Director-General of EUMETSAT

09:20  Official Address
Dr. Stan Wilson
Senior Scientist, NOAA/NESDIS on behalf of Ms. Mary E. Kicza - Assistant Administrator Satellite and Information Service of NOAA/NESDIS

09:30  Official Address
Dr. Philip E. Ardanuy
American Meteorological Society (AMS)

09:40  Conference Announcements
Madeleine Pooley - EUMETSAT

SESSION 1

New and Future Satellite Programmes and Instruments
Chairperson:
Gerald Dittberner - NOAA/NESDIS

09:45  EUMETSAT geostationary and low Earth programmes: Status and plans
Koenemann, Ernst - EUMETSAT

10:00  NOAA current and future satellite systems
Davis, Gary - NOAA/NESDIS

10:15  Redesigning the space-based global observing system
Lafeuille, Jérôme
- WMO

10:30  COFFEE BREAK

11:00  Official Address
Mrs. Tineke Huizinga-Heringa
State Secretary of the Ministry of Transport, Public Works and Water Management

11:10  Global Monitoring for Environment and Security: A key Initiative from the European Union
Valère Montarlier
- European Commission

SESSION 1 Continued

Chairperson:
Volker Gärtner - EUMETSAT

11:20  Status of Japanese meteorological satellite and recent activities of MSC
Shimoji, Kazuki - JMA

11:30  Status of Russia Meteorological satellite programme and plans
Asmus, Vasily - SRC PLANETA

11:40  Korea geostationary satellite programme: Communication, Ocean and Meteorological Satellite (COMS)
Ou, Mi-Lim
- Korea Meteorological Administration

11:50  Application of current meteorological satellites in India Meteorological Department and India's future plans of meteorological satellites
Bhatia, Ramesh Chander
- India Meteorological Department

12:00  International Working Group Presentations (IWG)
Chairperson:
Jérôme Lafeuille - WMO

- The International Winds Working Group
Schmetz, Johannes - EUMETSAT

- The International TOVS Working Group
Saunders, Roger - Met Office

- The International Precipitation Working Group
Kidd, Chris - The University of Birmingham

12:45 – 14:00
LUNCH BREAK
SESSION 1 Continued  (Forum Auditorium)
New and Future Satellite Programmes and Instruments
Chairperson:
Ernst Koenemann - EUMETSAT

14:00  ESA plans in Earth observation
       Liebig, Volker - ESA/ESRIN

14:20  NASA plans in Earth observation
       Freilich, Mike - NASA

14:40  The EPS/Metop system: Overview and first results
       Klaes, Dieter - EUMETSAT

14:55  GOES-R programme overview
       Mulholland, Mark - NOAA/NESDIS

15:10  Status of the restructured NPOESS and NPP programs and the role of the NPOESS and Metop sounders in approaching a quasi-global sounding system for NWP and climate
       Mango, Stephen
       - NPOESS Integrated Program Office

15:25  COFFEE BREAK – POSTER/EXHIBIT VIEWING

SESSION 1 Continued  (Forum Auditorium)
Chairperson:
Mike Freilich - NASA

16:15  The Meteosat Third Generation (MTG) system: An innovative response to meteorological needs for observations from geostationary orbit
       Rodriguez, Antonio - EUMETSAT

16:30  The A-Train: How formation flying is transforming remote sensing
       Kidder, Stan - Colorado State University

16:45  Joint Presentation
       NOAA/EUMETSAT cooperation in leading efforts to provide operational measurements in the service of GEOSS
       Smith, Brent - NOAA/NESDIS
       & Counet, Paul - EUMETSAT

17:00  Weather and Internet Digital Globes
       Gail, Bill - Microsoft

17:15  Google Earth: The Future
       Jones, Michael - Google Earth
**SESSION 2**  
Assimilation in Numerical Weather Prediction  
Chairperson: Florence Rabier - Météo-France/CNRS

08:30 **Keynote Address**  
Recent advances in the assimilation of satellite observations at ECMWF  
Thépaut, Jean-Noël - ECMWF

08:50 **Keynote Address**  
Satellite data impact experiments in the JCSDA  
Riishojgaard, Lars Peter - JCSDA

09:10 The relative contributions of the various space observing system  
Kelly, Graeme - EC MWF

09:25 Assessing the impact of satellite observing systems on numerical weather forecasts using the adjoint of a data assimilation system  
Gelaro, Ron - NASA/GSFC

09:40 Results and impacts of assimilating geostationary satellite imagery data from MSG in 4D-Var  
Li, Dingmin - Met Office

09:55 **Coffee Break - Poster/Exhibit Viewing**

**SESSION 1 & 2**  
New and Future Satellite Programmes and Instruments AND Data Assimilation  
Chairperson: Lars Peter Riishojgaard - JCSDA

11:00 **Keynote Address**  
Objectives of the THORPEX working group on data assimilation and observing strategies for high impact weather forecast improvements  
Rabier, Florence - Météo-France/CNRS

11:20 Recent advances in satellite data assimilation  
Le Marshall, John - BoM

11:35 Implementation of AIRS assimilation at MSC  
Garand, Louis - Environment Canada

11:50 AMV height assignment: An NWP perspective  
Forsythe, Mary - Met Office

12:05 Assessment of post-Aeolus Doppler wind lidar scenarios  
Stoffelen, Ad - KNMI
### SESSION 5
Oceanography  
Chairperson: Hervé Roquet - Météo-France

<table>
<thead>
<tr>
<th>Time</th>
<th>Event</th>
</tr>
</thead>
</table>
| 14:00 | **Keynote Address**  
NOAA services in operational satellite oceanography  
Wilson, Stan - NOAA |
| 14:20 | **Keynote Address**  
EUMETSAT services in operational satellite oceanography  
Bonekamp, Hans - EUMETSAT |
| 14:40 | **Keynote Address**  
Observing ocean-atmosphere interaction by QuikSCAT and improving coverage using the International Scatterometer Constellation  
Liu, Timothy - NASA/JPL |
| 15:00 | **Keynote Address**  
Operational applications of altimetry at Mercator Ocean  
Dombrowsky, Eric - Mercator Océan |
| 15:20 | **COFFEE BREAK – POSTER/EXHIBIT VIEWING** |

### SESSION 2 Continued  
In Parallel (Forum Auditorium)
Assimilation in Numerical Weather Prediction  
Chairperson: John Le Marshall - BoM

<table>
<thead>
<tr>
<th>Time</th>
<th>Event</th>
</tr>
</thead>
</table>
| 16:15 | Assimilation of scatterometer derived soil moisture in the ECMWF numerical weather prediction model  
Scipal, Klaus - ECMWF |
| 16:30 | Assimilation of advanced sounder radiances in the French global numerical weather prediction ARPEGE model  
Fourrie, Nadia - Météo-France/CNRS |
| 16:45 | Recent developments in the use of ATOVS data at ECMWF  
Bormann, Niels - ECMWF |
| 17:00 | First results of the assimilation of COSMIC data for weather forecasting applications at Environment Canada  
Deblonde, Godelieve  
- Environment Canada |
| 17:15 | Assimilation of cloud-affected infrared soundings at the Met Office  
Pavelin, Edward - Met Office |

### SESSION 5 Continued  
In Parallel (Room L)
Oceanography  
Chairperson: Carol Clayson - Florida State University

<table>
<thead>
<tr>
<th>Time</th>
<th>Event</th>
</tr>
</thead>
</table>
| 16:15 | **Keynote Address**  
Assimilation of satellite observations into numerical models of the ocean circulation and marine ecosystems: recent advances  
Brasseur, Pierre - CNRS |
| 16:35 | Assimilating satellite ocean colour data into a three-dimensional coupled physical-biogeochemical model  
Martin, Matthew - Met Office |
| 16:50 | Decadal variability in the Indo-Pacific Ocean inferred from altimeter and scatterometer data and ocean data assimilation  
Lee, Tong  
- JPL/California Institute of Technology |
| 17:05 | Oceanic applications of geostationary products - NOAA GOES East-West and EUMETSAT Meteosat MSG  
Legeckis, Richard - NOAA |
| 17:20 | Annual variations of geostrophic currents and Eddy kinetic energy inferred from TOPEX/Poseidon-Jason-1 Tandem mission data  
Scharffenberg, Martin G.  
- Universität Hamburg |
### Session 1

**In Parallel (Forum Auditorium)**

**New and Future Satellite Programmes and Instruments**

**Chairperson:**
Philip Ardanuy - Raytheon Information Solutions

- **08:30** A geostationary microwave sounder for the next decade
  Lambrigtsen, Bjorn - JPL/California Institute of Technology

- **08:45** New candidate Earth explorer core missions - their importance for atmospheric science and applications
  Ingmann, Paul - ESA/ESTEC

- **09:00** A new X-Band radar for Oceanography - TerraSAR-X
  Lehner, Susanne - DLR

- **09:15** ATOVS/AVHRR onboard Metop-A: Validation and use of products
  Ackermann, Jörg - EUMETSAT

- **09:30** Geostationary lightning mapper for GOES-R
  Goodman, Steven - NOAA/NESDIS

- **09:45** The Global Precipitation Measurement (GPM) mission: Overview and status
  Hou, Arthur - NASA/GSFC

- **10:00** GRAS radio occultation soundings
  Marquardt, Christian - EUMETSAT

- **10:15** **Coffee Break - Poster/Exhibit Viewing**

### Session 5

**In Parallel (Room L)**

**Oceanography**

**Chairperson:**
Hans Bonekamp - EUMETSAT

- **08:45** Operational SST retrieval from METOP/AVHRR
  Le Borgne, Pierre - Météo-France

- **09:05** Diurnal variability in sea surface temperature: Amplitudes, spatio-temporal scales and predictability
  Merchant, Chris - University of Edinburgh

- **09:30** Emissivity and reflection model for calculating water surface-leaving infrared radiance
  Nalli, Nicholas - Perot Systems Corporation

- **09:50** **Coffee Break - Poster/Exhibit Viewing**

### Session 1

**In Parallel (Forum Auditorium)**

**Special NPOESS/Metop Sub-session**

**Chairpersons:**
Gary Davis - NOAA
Kenneth Holmlund - EUMETSAT

- **11:15** Keynote Address
  Post-Metop overview
  Schluessel, Peter - EUMETSAT

- **11:35** Keynote Address
  The National Polar-orbiting Operational Environmental Satellite System (NPOESS): Overview and status
  Stockton, Dan - NPOESS Integrated Program Office

- **11:55** Keynote Address
  IASI on Metop: First results
  Schluessel, Peter - EUMETSAT
SESSION 5 Continued
Oceanography
Chairperson:
Adrian Hines - Met Office

11:00  **Keynote Address**  
ASCAT scatterometer cal/val and winds  
Verspeck, Jeroen - KNMI

11:20  **Hurricane force extratropical cyclones as detected by QuikSCAT**  
Sienkiewicz, Joseph - NOAA

11:35  **Mesoscale winds over the oceans**  
Vogelzang, Jur - KNMI

11:50  **Retrieving QuikSCAT winds closer to the coast**  
Stiles, Bryan - JPL

12:05  **Calibration and validation of ASCAT backscatter**  
Anderson, Craig - EUMETSAT

12:20  **C-band high incidence scatterometry: Airborne observations and modeling applicable to ASCAT**  
Jelenak, Zorana – JPL

SESSION 2 Continued
Assimilation in Numerical Weather Prediction  
Chairperson:  
Jean-Noël Thépaut - ECMWF

08:30  **The preparation of the assimilation of ASCAT Scatterometer data at ECMWF**  
Hersbach, Hans - ECMWF

08:45  **The impact of GOES Rapid-Scan atmospheric motion vectors on global numerical weather prediction models**  
Berger, Howard - University of Wisconsin-Madison

09:00  **On the use of microwave observations over land at Météo-France**  
Gérard, Elisabeth - Météo-France/CNRS

09:15  **Assimilation of polar orbiting satellite data in the JMA operational NWP systems**  
Okamoto, Kozo - JMA

09:30  **An improved forecast of the 1999 Christmas storm “Martin” – A cycled SOSE experiment**  
Marseille, Gert-Jan - KNMI

09:45  **Coffee Break - Poster/Exhibit Viewing**

SESSION 6
Atmospheric Composition  
Chairperson:
Rosemary Munro - EUMETSAT

11:00  **Keynote Address**  
A mission for TRopospheric composition and Air Quality (TRAQ)  
Levelt, Pieternel - KNMI

11:20  **Towards trend monitoring of the chemical composition of the troposphere using solar backscatter techniques**  
Bovensmann, Heinrich - University of Bremen

11:35  **Development of remote sensing techniques for detecting variations of atmospheric carbon dioxide and methane concentrations from high-resolution infrared sounders**  
Uspensky, Alexander - SRC PLANETA

11:50  **First results of O3MSAF vertical ozone profiles from GOME-2 on Metop-A**  
Tuinder, Olaf - KNMI

12:05  **Air quality monitoring and forecasting in China**  
vander A, Ronald - KNMI

12:35 – 14:00  
**NPOESS TEAM SPONSORED LUNCH**

Followed by a panel discussion on Joint NPOESS-Metop “Systems of Systems” Partnership starting at 13:15
WEDNESDAY AFTERNOON ON 26 SEPTEMBER

Sessions 3, 5 and 9 will be in parallel

SESSION 3 In Parallel (Forum Auditorium)
Operational Applications
Chairperson:
Chris Velden - University of Wisconsin-Madison

14:00 Keynote Address
60 years operational satellites - An overview from the beginning of operational satellite applications at an NMS up to 2030, based on planned operational programmes
Benesch, Wolfgang - DWD

14:20 Ongoing developments in 0-3 hour convective initiation forecasting using satellites
Mecikalski, John
- University of Alabama in Huntsville

14:35 A nowcasting application study using MSG and weather radar
de Coning, Estelle - SA Weather Service

14:50 MSG imagery: Added value to a severe weather situation?
Debie, Frans - KNMI

15:05 Focus on satellite training: The global high profile training event
Purdom, James - CIRA

15:20 COFFEE BREAK - POSTER/EXHIBIT VIEWING

SESSION 3 Continued In Parallel (Forum Auditorium)
Chairperson:
Marianne König - EUMETSAT

16:15 Keynote Address
Improved representation of satellite-derived atmospheric motion vectors by attributing the assigned heights to tropospheric layers
Bedka, Kristopher
- University of Wisconsin-Madison

16:35 Temporal differencing and region-growing techniques to improve twilight low cloud detection from SEVIRI data
Demien, Marcel - Météo-France

16:50 The UW-CIMSS Advanced Dvorak Technique (ADT): An IR-based method to estimate hurricane intensity
Olander, Timothy
- University of Wisconsin-Madison

17:05 "MIMIC": Real-time, morphed microwave animations of tropical cyclones
Wimmers, Anthony
- University of Wisconsin-Madison

17:20 Improving the scatterometer wind retrievals in hurricanes
Hristova-Veleva, Svetla - J PL

17:35 Remote sensing of North Atlantic storms by synergistic use of optical and radar microwave satellite data
Lehner, Susanne - DLR

SESSION 5 Continued In Parallel (Room L)
Oceanography
Chairperson:
Chris Merchant - University of Edinburgh

14:00 Keynote Address
SST influence on the surface winds and the mid-level troposphere in satellite observations and the ECMWF model
Chelton, Dudley - Oregon State University

14:20 Investigation of large scale and regional features of wave height using multi-satellite altimeter measurements
Queffeulou, Pierre - IFREMER

14:35 Assimilation of RA-2 altimeter and upgraded ASAR level-2 data in 3G wave model
Aouf, Lotfi - Météo-France

14:50 Data model integration of SPM transport in the Dutch coastal zone
Blaas, Meinte - WL - Delft Hydraulics

15:05 Application of operational satellite altimetry observations for the North Sea and Baltic Sea
Hoeyer, Jacob - DMI

15:20 COFFEE BREAK - POSTER/EXHIBIT VIEWING
SESSION 5 Continued  In Parallel (Room L)
Oceanography
Chairperson: Stan Wilson - NOAA

16:15 Application of oceanographic satellite data in support of the selection and monitoring of marine protected areas
Foley, David - University of Hawaii

16:30 Developing a European ocean colour service supporting global carbon-cycle research and operational oceanography
Fanton d’Andon, Odile - ACRI-ST

16:45 Environmental satellite data and NOAA fisheries
Wilson, Cara - NOAA

17:00 Keynote Address
An overview of SeaFlux: New science and methods in air-sea fluxes
Clayson, Carol - Florida State University

17:15 Towards a high-resolution gridded ocean forcing
Portabella, Marcos - KNMI

17:30 Introduction of J-OFURO latent heat flux version 2
Kubota, Masahisa - Tokai University

SESSION 9 Continued  In Parallel (Room N+N1+O1)
Hyperspectral Studies
Chairperson: William Smith Snr. - Hampton University/University of Wisconsin-Madison

16:15 Keynote Address
Climate data sets from infrared hyperspectral sounders: AIRS
Strow, Larrabee - University of Maryland Baltimore County

16:35 Keynote Address
In-flight performance of the Infrared Atmospheric Sounding Interferometer (IASI) on METOP-A
Blumstein, Denis - CNES-CST

16:55 Overview of CIMSS activities in support of the U.S. GOES-R algorithm working group
Huang, Hung Lung Allen - University of Wisconsin-Madison

17:10 Spectral signatures of climate change in the Earth's infrared spectrum between 1970 and 2007
Chen, Claudine - Imperial College London

17:25 Aircraft validation of infrared emissivity derived from advanced infraRed sounder satellite observations
Knuteson, Robert - University of Wisconsin-Madison

19:30 – 22:30
CONFERENCE GALA DINNER
(Departure by boat at 18:00)
Registration is essential
THURSDAY MORNING  27 SEPTEMBER

Sessions 3 and 10 will be in parallel (from 11:00 onwards)

SESSION 10  (Forum Auditorium)
Retrieval Methods
Chairperson:
Dieter Klaes - EUMETSAT

08:30  Keynote Address
High accuracy infrared radiances for weather and climate, Part 2: Airborne validation of IASI and AIRS and the role for future benchmark satellites
Revercomb, Henry  
- University of Wisconsin-Madison

08:50  Keynote Address
Desert dust and volcanic SO2 detection using SEVIRI data
Saunders, Roger  - Met Office

09:10  Keynote Address
Utilization of DMSP SSMIS data at NOAA/NESDIS and JCSDA
Weng, Fuzhong  - NOAA

09:30  Improvement of the retrieval of aerosol optical properties over oceans using SEVIRI by using the 1.6 µm band and PARASOL products
Vermeulen, Anne  - ICARE Centre de Gestion et de Traitement des Données

09:45  Towards a comprehensive approach to product generation from Meteosat imagery
Watts, Philip  - EUMETSAT

11:00  AMV height assignment using Meteosat Second Generation
Borde, Regis  - EUMETSAT

11:15  Analyses of FORMOSAT-3/COSMIC temperature and humidity retrievals and comparisons with AIRS retrievals and NCEP/NCAR reanalysis
Chou, Ming-Dah  
- National Taiwan University

11:30  Moisture profile retrievals from satellite microwave sounders for weather analysis over land and ocean
Kidder, Stan  - CIRA

11:45  An efficient method for simultaneous physical retrieval of atmospheric temperature and absorbing gases profiles and surface temperature and emissivity spectrum - Application to Infrared Atmospheric Sounding Interferometer (IASI)
Huang, Bormin  
- University of Wisconsin-Madison

12:00  Retrieval of aerosol properties from SEVIRI using visible and infrared channels
Carboni, Elisa  - University of Oxford

12:15  Delineation of raining from non-raining clouds during night-time using Meteosat-8 data
Nauss, Thomas  
- Philipps-University of Marburg

12:30 - 14:00   LUNCH BREAK
Sessions 3 and 8 will be in parallel

**SESSION 3 Continued**
Operational Applications
Chairperson: Wayne F. Feltz - University of Wisconsin-Madison

<table>
<thead>
<tr>
<th>Time</th>
<th>Session Title</th>
<th>Speaker</th>
<th>Affiliation</th>
</tr>
</thead>
<tbody>
<tr>
<td>14:00</td>
<td><strong>Keynote Address</strong>&lt;br&gt;NASA advanced satellite aviation-weather products</td>
<td>Murray, John</td>
<td>NASA Langley Research Center</td>
</tr>
<tr>
<td>14:20</td>
<td>Towards an objective enhanced-V detection algorithm</td>
<td>Brunner, Jason</td>
<td>University of Wisconsin-Madison/CIMSS</td>
</tr>
<tr>
<td>14:35</td>
<td>Cloud tracking and forecasting of severe storm</td>
<td>Machado, Luiz</td>
<td>INPE</td>
</tr>
<tr>
<td>14:50</td>
<td>Fog detection based on synergy of satellite and ground based observations</td>
<td>De Valk, Paul</td>
<td>KNMI</td>
</tr>
<tr>
<td>15:05</td>
<td>Nowcasting severe convection using objective tools which optimize the impact of sequences of GOES satellite derive moisture products</td>
<td>Schmit, Tim</td>
<td>University of Wisconsin-Madison</td>
</tr>
<tr>
<td>15:20</td>
<td><strong>COFFEE BREAK - POSTER/EXHIBIT VIEWING</strong></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

**SESSION 8**
Cloud Processes
Chairperson: Hans Roozekrans - KNMI

<table>
<thead>
<tr>
<th>Time</th>
<th>Session Title</th>
<th>Speaker</th>
<th>Affiliation</th>
</tr>
</thead>
<tbody>
<tr>
<td>14:00</td>
<td><strong>Keynote Address</strong>&lt;br&gt;Spaceborne radar observations of clouds and precipitation from space: A new perspective from CloudSat and the A-Train</td>
<td>Miller, Steve</td>
<td>Colorado State University</td>
</tr>
<tr>
<td>14:20</td>
<td>A global comparison of active lidar (CALIPSO) and passive infrared (MODIS) retrievals of cloud properties</td>
<td>Holz, Robert</td>
<td>University of Wisconsin-Madison</td>
</tr>
<tr>
<td>14:35</td>
<td>Simulation of radar reflectivities in the UK Met Office model: comparison with CloudSat data</td>
<td>Bodas-Salcedo, Alejandro</td>
<td>Met Office</td>
</tr>
<tr>
<td>14:50</td>
<td><strong>COFFEE BREAK - POSTER/EXHIBIT VIEWING</strong></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

16:00 - 16:45 **PAUL MENZEL AWARD**<br>Toast (drinks/snacks)
### SESSION 4
**In Parallel (Room N+N1+O1)**

**Environmental Applications**  
Chairperson: Tim Schmit - NOAA/NESDIS

<table>
<thead>
<tr>
<th>Time</th>
<th>Event Description</th>
</tr>
</thead>
</table>
| 08:30 | **Keynote Address**  
Milky seas: A new science frontier for nighttime visible-band satellite remote sensing  
Miller, Steven - Naval Research Laboratory |
| 08:50 | **Keynote Address**  
Diagnosing the precipitation cycles over Africa and Europe from satellite data  
Laing, Arlene - National Center for Atmospheric Research (NCAR) |
| 09:10 | Soil moisture retrieval using the ASCAT scatterometer onboard Metop - First results  
Bartalis, Zoltan - Vienna University of Technology |
| 09:25 | **NRL Satellite Remote Sensing Data and Applications**  
Hawkins, Jeff - Naval Research Laboratory |
| 09:40 | Using AIRS radiances and data products from the A-Train suite to study desert dust  
Strow, Larrabee - University of Maryland Baltimore County |
| 09:55 | **Coffee Break - Poster Exhibit Viewing**                                                                 |

### SESSION 4 Continued
**In Parallel (Room N+N1+O1)**

<table>
<thead>
<tr>
<th>Time</th>
<th>Event Description</th>
</tr>
</thead>
</table>
| 11:05 | **Keynote Address**  
Global geostationary fire detection and monitoring with the wildfire ABBA  
Prins, Elaine - University of Wisconsin-Madison |
| 11:25 | The SAF for land surface analysis wildfire applications  
DaCamara, Carlos - University of Lisbon, CGUL, IDL |
| 11:40 | Intercomparison of satellite products and in-situ analysis for snow  
Hyvärinen, Otto - FMI |
| 11:55 | Flood and landslide applications of near-real-time satellite rainfall products  
Adler, Robert - NASA G SFC |

**12:10**  
Solar surface irradiance from MSG - Improvements of the Heliosat method including snow detection  
Hammer, Annette - Carl von Ossietzky Universität

**12:25**  
Validation of land surface temperature retrieved from Meteosat Second Generation satellites  
Monteiro, Isabel - Instituto de Meteorologia
<table>
<thead>
<tr>
<th>Time</th>
<th>Session Title</th>
<th>Speaker(s)</th>
</tr>
</thead>
<tbody>
<tr>
<td>08:30</td>
<td>Keynote Address: The Global Space-Based Inter-Calibration System (GSICS)</td>
<td>Goldberg, Mitchell - NOAA/NESDIS</td>
</tr>
<tr>
<td>08:50</td>
<td>Satellite-observed West African dust outbreaks and the relationship with North Atlantic hurricane activity</td>
<td>Evan, Amato - University of Wisconsin-Madison</td>
</tr>
<tr>
<td>09:05</td>
<td>A 23-Year record of satellite-derived polar winds for climate studies</td>
<td>Key, Jeffrey - NOAA/NESDIS</td>
</tr>
<tr>
<td>09:20</td>
<td>Constraints on the first indirect aerosol effect from global satellite observations</td>
<td>Bennartz, Ralf - University of Wisconsin</td>
</tr>
<tr>
<td>09:35</td>
<td>The Global Precipitation Climatology Project (GPCP): Results, status and future</td>
<td>Adler, Robert - NASA/ GSFC</td>
</tr>
<tr>
<td>09:50</td>
<td>A database of tropical storms from eight years of QuikScat data</td>
<td>Poulsen, W. Lee - J PL</td>
</tr>
<tr>
<td>10:05</td>
<td>COFFEE BREAK - POSTER/EXHIBIT VIEWING</td>
<td></td>
</tr>
<tr>
<td>11:05</td>
<td>Keynote Address: The Satellite Application Facility on Climate Monitoring: Continued development and operations phase</td>
<td>Schulz, Jörg - DWD</td>
</tr>
<tr>
<td>11:25</td>
<td>Global patterns of the temperature dependence of cloud cover and total column precipitable water derived from satellite observations</td>
<td>Wagner, Thomas - MPI for Chemistry</td>
</tr>
<tr>
<td>11:40</td>
<td>Variability of free tropospheric humidity from Meteosat over the tropics 1983-2005</td>
<td>Brogniez, Helene - CETP/IPSL/UVSQ/CNRS</td>
</tr>
<tr>
<td>11:55</td>
<td>Adaptive bias correction of satellite radiances for reanalysis at the ECMWF</td>
<td>Dee, Dick - ECMWF</td>
</tr>
<tr>
<td>12:10</td>
<td>HIRS upper tropospheric water vapor time series inter-calibrated using the simultaneous nadir overpass observation</td>
<td>Bates, John - NOAA National Climatic Data Center</td>
</tr>
<tr>
<td>12:25</td>
<td>LUNCH BREAK</td>
<td></td>
</tr>
<tr>
<td>13:30</td>
<td>Keynote Address: Evaluation and validation of high resolution precipitation products derived from satellite observations</td>
<td>Arkin, Phillip - University of Maryland</td>
</tr>
<tr>
<td>13:50</td>
<td>Monitoring present day changes in water vapour and the radiative energy balance using satellite data, reanalyses and models</td>
<td>Allan, Richard - University of Reading</td>
</tr>
<tr>
<td>14:05</td>
<td>Consistency in the variations of total column ozone inferred from AURA/OMI and NOAA-16/SBUV-2 measurements during October 2004 - July 2006</td>
<td>Chiou, Erwoon - ADNET Systems Inc</td>
</tr>
<tr>
<td>14:20</td>
<td>Variations in marine boundary layer cloud properties from MODIS observations</td>
<td>Jensen, Michael - Brookhaven National Laboratory</td>
</tr>
<tr>
<td>14:40</td>
<td>The role of MSG in the world of solar energy</td>
<td>Mueller, Richard - DWD</td>
</tr>
<tr>
<td>15:05</td>
<td>Snow Cover Climatology from Meteosat-8</td>
<td>Seiz, Gabriela - MeteoSwiss</td>
</tr>
</tbody>
</table>
SESSION 8 In Parallel (Forum Auditorium)
Cloud Processes Continued
Chairperson:
Steven Ackerman - University of Wisconsin-Madison

08:30 Keynote Address
Retrieval of ice cloud microphysical properties using AIRS and synergy with CALIPSO
Crois, Sylvain - CNRS / IPSL

08:50 Evaluating icing nowcasts using CloudSat
Lee, Thomas - Naval Research Laboratory

09:05 Influence of SST on cloud properties of warm rain systems
Rapp, Anita - Colorado State University

09:20 Satellite-derived characteristics of atmospheric rivers impacting the Western US coast
Wick, Gary - NOAA ESRL

09:35 Satellite precipitation estimation using empirical cloud development models
Bellerby, Tim - University of Hull

09:50 Detailed analysis of Indian summer monsoon rainfall processes with modern/high-quality satellite observations
Smith, Eric A. - NASA/GSFC

10:05 COFFEE BREAK - POSTER/EXHIBIT VIEWING

SESSION 8 Continued In Parallel (Forum Auditorium)
Chairperson:
Steve Miller - Colorado State University

11:05 Keynote Address
Cloud monitoring from space by using the oxygen A absorption band
Stammes, Piet - KNMI

11:25 Retrieval of cloud top height from SCIAMACHY using broad band spectrometers and absorptions of O2 and O4
Grzegorski, Michael - University of Heidelberg

11:40 Intercomparison of retrieved cloud properties from MSG-SEVIRI and MODIS
Deneke, Hartwig - KNMI

11:55 Update on the TRMM multi-satellite precipitation analysis and prospects for global analysis
Huffman, George - NASA GSFC and SSAI

15:20 CLOSING CEREMONY
Note

The programme remains in a dynamic state and will be updated daily during the Conference if required.

Special thanks go to:

SPC Members

Volker Gärtner (EUMETSAT)
Dieter Klaes (EUMETSAT)
Hans Roozekrans (KNMI)
Hervé Roquet (Météo-France)

Gerald Dittbener (NOAA)
Tim Schmit (NOAA)
Wayne Feltz (University of Wisconsin-Madison)
Chris Velden (University of Wisconsin-Madison)

Philip Ardanuy (Chairman, AMS Satellite Meteorology and Oceanography Committee/Raytheon Information Solutions)
Lars Peter Riishojgaard (J CSDA)
Dagmar Kotlarikova (Slovak Hydrometeorological Institute)

Sponsors (at the time of printing)

VOS ENGINEERING

Netherlands Agency for Aerospace Programmes

Netherlands Ministry of Transport, Public Works and Water Management

Northrop Grumman Raytheon DOC * DoD NASA