# Conference Schedule

Times are subject to changes.

<table>
<thead>
<tr>
<th>All times reflect GMT + 1</th>
<th>SUNDAY</th>
<th>MONDAY</th>
<th>TUESDAY</th>
<th>WEDNESDAY</th>
<th>THURSDAY</th>
<th>FRIDAY</th>
</tr>
</thead>
<tbody>
<tr>
<td>Registration (lobby)</td>
<td>16:00 - 19:00</td>
<td>09:00 - 16:30</td>
<td>08:30 - 16:00</td>
<td>08:00 - 15:00</td>
<td>08:30 - 16:00</td>
<td>08:30 - 12:00</td>
</tr>
</tbody>
</table>

## CONFERENCE PROGRAMME

<table>
<thead>
<tr>
<th>Time</th>
<th>Session 1</th>
<th>Session 2</th>
<th>Session 3</th>
<th>Session 4</th>
<th>Session 5</th>
<th>Session 6</th>
<th>Joint Session 7 and 8</th>
<th>Session 7</th>
<th>Session 8</th>
<th>Closing Ceremony</th>
</tr>
</thead>
<tbody>
<tr>
<td>09:00 - 09:45</td>
<td>09:45 - 17:00</td>
<td>11:30 - 17:15</td>
<td>08:30 - 10:35</td>
<td>11:00 - 12:45</td>
<td>08:30 - 16:30</td>
<td>14:45 - 16:15</td>
<td>08:30 - 13:00</td>
<td>14:00 - 15:30</td>
<td>08:30 - 14:05</td>
<td>15:15 - 15:45</td>
</tr>
</tbody>
</table>

### Opening Ceremony
11:00 - 12:45
GMES plenary

### PLEINARY / PANEL DISCUSSION

<table>
<thead>
<tr>
<th>Time</th>
<th>Session</th>
</tr>
</thead>
<tbody>
<tr>
<td>11:00 - 12:45</td>
<td>GMES plenary</td>
</tr>
<tr>
<td>14:15 - 14:45</td>
<td>&quot;EUMETSAT’s expanding contribution in support of Climate Monitoring&quot; D. Hinsman</td>
</tr>
</tbody>
</table>

### DEDICATED POSTER SESSION

During coffee/lunch breaks and Tuesday and Thursday afternoon

### SPONSOR EXHIBITS

### SOCIAL EVENTS

- **Welcome Drink**: 19:00 - 20:30
- **Icebreaker Cocktail**: 19:00 - 21:00
- **Gala dinner**: 19:00 - 23:00

### Room Allocation:

- **Ballroom**
- **Tea Room**
- **Card Room**
- **Octagon**
- **Lobby**

### Session Guide:

1. Future satellites and applications
2. Nowcasting
3. Atmospheric composition
4. Land Surface
5. Global Monitoring for Environment and Security (GMES) Services
6. Monitoring climate and understanding climate processes with satellites
7. Hyperspectral sounding
8. Numerical Weather Prediction applications
**MONDAY MORNING, 21 SEPTEMBER**

Sessions 1 and 2 are in parallel (from 11:30)

### OPENING CEREMONY  
**BALLROOM**

<table>
<thead>
<tr>
<th>Time</th>
<th>Event</th>
</tr>
</thead>
<tbody>
<tr>
<td>09:00</td>
<td>Official Address</td>
</tr>
<tr>
<td></td>
<td>Prahm, Lars Dr.</td>
</tr>
<tr>
<td></td>
<td>Director General, EUMETSAT</td>
</tr>
<tr>
<td>09:15</td>
<td>Official Address</td>
</tr>
<tr>
<td></td>
<td>Hirst, John Mr.</td>
</tr>
<tr>
<td></td>
<td>Chief Executive, Met Office</td>
</tr>
<tr>
<td>09:30</td>
<td>Official Address</td>
</tr>
<tr>
<td></td>
<td>Williams, David Dr.</td>
</tr>
<tr>
<td></td>
<td>Director General, British National Space Centre</td>
</tr>
</tbody>
</table>

### SESSION 1  
**BALLROOM**

**Future Satellites and Applications**

<table>
<thead>
<tr>
<th>Time</th>
<th>Event</th>
</tr>
</thead>
<tbody>
<tr>
<td>09:45</td>
<td>EUMETSAT Geostationary and Low Earth Programmes: Status and Plans</td>
</tr>
<tr>
<td></td>
<td>Koenemann, Ernst</td>
</tr>
<tr>
<td></td>
<td>Director of Programme Development</td>
</tr>
<tr>
<td>10:00</td>
<td>NOAA Current and Future Activities</td>
</tr>
<tr>
<td></td>
<td>Harper, Abigail D.</td>
</tr>
<tr>
<td></td>
<td>Deputy Assistant Administrator, Systems</td>
</tr>
<tr>
<td></td>
<td>NOAA</td>
</tr>
<tr>
<td>10:15</td>
<td>WMO Current and Future Activities</td>
</tr>
<tr>
<td></td>
<td>Ryan, Barbara J.</td>
</tr>
<tr>
<td></td>
<td>Director, WMO Space Programme Office</td>
</tr>
<tr>
<td>10:30</td>
<td>Korea Current and Future Activities</td>
</tr>
<tr>
<td></td>
<td>Won, Jae-Gwang</td>
</tr>
<tr>
<td></td>
<td>Environmental &amp; Meteorological Satellite Division</td>
</tr>
<tr>
<td></td>
<td>Korea Meteorological Administration KMA</td>
</tr>
<tr>
<td>10:45</td>
<td>Conference Announcements</td>
</tr>
<tr>
<td></td>
<td>Pooley, Madeleine - EUMETSAT</td>
</tr>
<tr>
<td>10:55</td>
<td>COFFEE BREAK - POSTER/EXHIBIT VIEWING</td>
</tr>
</tbody>
</table>

### SESSION 1 continued  
**BALLROOM**

**Future Satellites and Applications**

<table>
<thead>
<tr>
<th>Time</th>
<th>Event</th>
</tr>
</thead>
<tbody>
<tr>
<td>11:30</td>
<td>Keynote Address</td>
</tr>
<tr>
<td></td>
<td>Advanced IR sounding from geosynchronous orbit: Status and a call for action</td>
</tr>
<tr>
<td></td>
<td>Revercomb, Henry</td>
</tr>
<tr>
<td></td>
<td>University of Wisconsin-Madison</td>
</tr>
<tr>
<td>11:50</td>
<td>The Next Generation Geostationery</td>
</tr>
<tr>
<td></td>
<td>Operational Environmental Satellite: GOES-R - the United States Advanced Weather Sentinel</td>
</tr>
<tr>
<td></td>
<td>Mandt, Gregory</td>
</tr>
<tr>
<td></td>
<td>NOAA</td>
</tr>
<tr>
<td>12:05</td>
<td>Continuous imaging of the Arctic from the Polar Communications and Weather mission</td>
</tr>
<tr>
<td></td>
<td>Garand, Louis</td>
</tr>
<tr>
<td></td>
<td>Environment Canada</td>
</tr>
<tr>
<td>12:20</td>
<td>Mission concept and feasibility for a snowfall measurement mission</td>
</tr>
<tr>
<td></td>
<td>Hudak, David</td>
</tr>
<tr>
<td></td>
<td>Environment Canada</td>
</tr>
</tbody>
</table>

**LUNCH BREAK**

### SESSION 2  
**TEA ROOM**

**Nowcasting**

<table>
<thead>
<tr>
<th>Time</th>
<th>Event</th>
</tr>
</thead>
<tbody>
<tr>
<td>11:30</td>
<td>Keynote Address</td>
</tr>
<tr>
<td></td>
<td>Validation of Meteosat storm detection and nowcasting based on lightning network data</td>
</tr>
<tr>
<td></td>
<td>Zinner, Tobias</td>
</tr>
<tr>
<td></td>
<td>German Aerospace Center (DLR)</td>
</tr>
<tr>
<td>11:50</td>
<td>Preconvective sounding analysis using IASI and MSG-SEVIRI</td>
</tr>
<tr>
<td></td>
<td>König, Marianne</td>
</tr>
<tr>
<td></td>
<td>EUMETSAT</td>
</tr>
<tr>
<td>12:05</td>
<td>Optimizing the impact of geostationary satellite products in very-short-range forecasts</td>
</tr>
<tr>
<td></td>
<td>Petersen, Ralph</td>
</tr>
<tr>
<td></td>
<td>University of Wisconsin-Madison</td>
</tr>
</tbody>
</table>

**LUNCH BREAK**

MONDAY AFTERNOON, 21 SEPTEMBER

Sessions 1 and 2 are in parallel

SESSION 1 continued  (BALLROOM)
Future Satellites and Applications
Chairperson:
Volker Gärtner - EUMETSAT

14:00  McIDAS-V - A powerful data analysis and visualization tool for multi and hyperspectral environmental satellite data
Achter, Thomas
University of Wisconsin-Madison

14:15  Recent developments in a passive submillimetre wave radiometry mission for operational meteorology and climatology
Charlton, Janet
Sula Systems

14:30  Simulated Atmospheric Motion Vectors (AMVs) within the GOES-R Analysis Facility for Instrument Impacts on Requirements (GRAFIIR)
Wanzong, Steve
University of Wisconsin-Madison

14:45  Trace gas performance of Sentinel 4 UVN on MTG
Bovensmann, Heinrich
University of Bremen

15:00  Retrieval of 3-Dimensional cloud fields with NPOESS VIIRS cloud algorithms
Jackson, John
for the University of Texas at Austin

16:30  Preparations for calibration and validation of the NPOESS Preparatory Project data products
Kilcoyne, Heather
NPOESS Integrated Program Office

16:45  GOES-R Land Algorithm Working Group Team: Activities and accomplishments
Yu, Yunyue
NOAA/NESDIS

ICEBREAKER COCKTAIL
at the Roman Baths, Abbey Churchyard
19:00 - 21:00

SESSION 1 continued  (BALLROOM)
Future Satellites and Applications
Chairperson:
Steve Goodman - NOAA

15:15  COFFEE BREAK – POSTER/EXHIBIT VIEWING

15:45  Post-EPS system concept
Betto, Maurizio
Presented by: Chung-Chi Lin and Stefan Kraft
ESA/ESTEC

16:00  Post-EPS system concept (continued)
Betto, Maurizio
Presented by: Chung-Chi Lin and Stefan Kraft
ESA/ESTEC

16:15  JAXA's future Earth observation missions for meteorological and climatological applications
Kachi, Misako
Japan Aerospace Exploration Agency
### MONDAY AFTERNOON, 21 SEPTEMBER

Sessions 1 and 2 are in parallel

<table>
<thead>
<tr>
<th>Time</th>
<th>Session</th>
<th>Location</th>
<th>Speaker(s)</th>
</tr>
</thead>
<tbody>
<tr>
<td>14:00</td>
<td>Predicting Adriatic meteotsunamis using satellite-based nowcast</td>
<td>In parallel (TEA ROOM)</td>
<td>Strelec Mahovic, Natasa, Meteorological and Hydrological Service, Croatia (DMHZ)</td>
</tr>
<tr>
<td>14:15</td>
<td>Nowcasting applications at the GOES-R satellite proving ground</td>
<td></td>
<td>Goodman, Steven, NOAA/NESDIS/GOES-R Program Office</td>
</tr>
<tr>
<td>14:30</td>
<td>Nowcasting of thunderstorms using integrated precipitable water vapor contents measured by ground-based GPS over Guwahati Airport of India</td>
<td></td>
<td>Singh, Virendra, DGM Office India</td>
</tr>
<tr>
<td>14:45</td>
<td>Nowcasting and forecasting of solar irradiance for solar energy electricity grid integration</td>
<td></td>
<td>Schroedter-Homscheidt, Marion, German Aerospace Center (DLR)</td>
</tr>
<tr>
<td>15:00</td>
<td><strong>COFFEE BREAK - POSTER/EXHIBIT VIEWING</strong></td>
<td></td>
<td></td>
</tr>
<tr>
<td>15:45</td>
<td>The use of remote sensing data for the nowcasting of thunderstorms within a weather information and management system for flight safety</td>
<td></td>
<td>Forster, Caroline, German Aerospace Center (DLR)</td>
</tr>
<tr>
<td>16:00</td>
<td>Satellite-based 0-1 hour convective initiation nowcasts using Meteosat Second Generation infrared and reflectance data</td>
<td></td>
<td>Mackenzie, Wayne, University of Alabama in Huntsville</td>
</tr>
<tr>
<td>16:15</td>
<td>Implementation of EUMETSAT GII/RII software to ALADINE operational suite and first validation results</td>
<td></td>
<td>Kanak, Jan, Slovak Hydrometeorological Institute</td>
</tr>
<tr>
<td>16:30</td>
<td>First operational results of the NWCSAF/MSG PGE13 physical retrieval algorithm</td>
<td></td>
<td>Martinez, Miguel A., Agencia Estatal Meteorología (AEMET)</td>
</tr>
<tr>
<td>16:45</td>
<td>The use of ancillary surface data products in the Met Office SEVIRI cloud mask</td>
<td></td>
<td>Hocking, James, Met Office</td>
</tr>
<tr>
<td>17:00</td>
<td>Detection and monitoring of convective clouds by satellite - The Rapid Development Thunderstorm (RDT) product of the SARNWC</td>
<td></td>
<td>Guillou, Yann, Météo France</td>
</tr>
</tbody>
</table>

**ICEBREAKER COCKTAIL**

at the Roman Baths, Abbey Churchyard
19:00 – 21:00
TUESDAY MORNING, 22 SEPTEMBER

Sessions 1 and 3 are in parallel (until the coffee break)

SESSION 1 continued (BALLROOM)
Future Satellites and Applications
Chairperson:
Ernst Koenemann - EUMETSAT

08:30  Keynote Address
Meteosat Third Generation (MTG) status of Space Segment definition and critical technology pre-developments
Aminou, Donny M. A.
ESA/ESTEC

08:50  The effect of sensor resolution on the number of cloud-free observations from space II
Krijger, J.M.
Netherlands Institute for Space Research (SRON)

09:05  In-flight calibration for future missions
Snel, Ralph
Netherlands Institute for Space Research (SRON)

09:20  National Polar-orbiting Operational Environmental Satellite System (NPOESS): program status
Stockton, Dan
Presented by: Haas, Mike
NPOESS Integrated Program Office

09:35  The Sun-Earth Imbalance radiometer for a direct measurement of the net heating of the Earth
Dewitte, Steven
Royal Meteorological Institute of Belgium (RMIB)

09:50  WVSS-II moisture observations - A low-cost tool for validating and monitoring the quality of a-synoptic satellite moisture observations
Petersen, Ralph
University of Wisconsin-Madison

10:05  MetOp-A AHRPTservice: status and way forward
De la Taille, Lionel
EUMETSAT

10:20  The GMES missions related to atmospheric composition
Ingmann, Paul
ESA/ESTEC

10:35  COFFEE BREAK - POSTER/EXHIBIT VIEWING
**SESSION 3**
**Atmospheric Composition**
**Chairperson:** Thomas Wagner - Max-Planck-Institute for Chemistry

<table>
<thead>
<tr>
<th>Time</th>
<th>Event Description</th>
<th>Speaker(s)</th>
</tr>
</thead>
</table>
| 08:30 | **Keynote Address**  
ESA CAMELOT study: Challenges in future operational missions for GMES atmospheric monitoring, Sentinels 4 and 5  
Levelt, Pieternel  
Royal Netherlands Meteorological Institute (KNMI) |                                                                                                  |
| 08:50 | **Current status and future prospects of the O3M SAF**  
Hassinen, Seppo  
Finnish Meteorological Institute (FMI) |                                                                                                  |
| 09:05 | **Monitoring of atmospheric composition with the IASI/METOP sounder: ozone and CO distributions**  
Clerbaux, Cathy  
CNRS, Université Paris 6, LATMOS/IPSL |                                                                                                  |
| 09:20 | **Simulation of MTG Infrared Sounder spectra in strong air pollution conditions and use of space and time variability of the signal to monitor pollution events**  
Phulpin, Thierry  
Centre National d’Études Spatiales (CNES) |                                                                                                  |
| 09:35 | **The O3M-SAF minor trace-gas column products: GOME-2 NO2, BrO, SO2 and CH2O**  
Valks, Pieter  
German Aerospace Center (DLR) |                                                                                                  |
| 09:50 | **IASI measurements of volatile organic compounds**  
Coheur, Pierre-François  
Université Libre de Bruxelles |                                                                                                  |
| 10:05 | **The Atmospheric Chemistry Experiment, ACE**  
Bemath, Peter  
University of York |                                                                                                  |
| 10:20 | **COFFEE BREAK - POSTER/EXHIBIT VIEWING** |                                                                                                  |

**SESSION 3 continued**
**In parallel (TEA ROOM)**

<table>
<thead>
<tr>
<th>Time</th>
<th>Event Description</th>
<th>Speaker(s)</th>
</tr>
</thead>
</table>
| 11:00 | **Global ammonia measurements from infrared space observations**  
Clarisse, Lieven  
Université Libre de Bruxelles |                                                                                                  |
| 11:15 | **Weekly cycle of NO2 revisited**  
Beirle, Steffen  
Max-Planck Institute for Chemistry |                                                                                                  |
| 11:30 | **Combined use of car based and satellite observations for the characterisation and quantification of large emission source like megacities**  
Shaiganfar, Reza presented by: Wagner, Thomas  
Max-Planck Institute for Chemistry |                                                                                                  |
| 11:45 | **Tropospheric CO observations using IASI datasets and an optimal estimation retrieval method**  
Illingworth, Samuel  
University of Leicester |                                                                                                  |
| 12:00 | **Validation of IASI CO, CH4 and HNO3 column retrievals by ground-based FTIR data**  
Kerzenmacher, Tobias  
Belgian Institute for Space Aeronomy |                                                                                                  |
| 12:15 | **Retrieval of atmospheric CO2 from satellite near-infrared nadir spectra in a scattering atmosphere**  
Reuter, Maximilian  
University of Bremen |                                                                                                  |

**12:30 – 14:00**
**LUNCH BREAK**
ICE BREAKER COCTAIL

TUESDAY AFTERNOON, 22 SEPTEMBER

WORKSHOP                                 (BALLROOM)
GSICS project of WMO
Chairperson: Volker Gärtner - EUMETSAT

14:00 – 18:00
Workshop
GSICS project of WMO

SESSION 3 continued                                 (TEA ROOM)
Atmospheric Composition
Chairperson: Roeland van Oss - KNMI

14:00    Tropical upper troposphere ozone from GOME1, SCIAMACHY, and GOME2 (1995 - present)
         Weber, Mark
         Presented by: Dikty, Sebastian
         University of Bremen

14:15    Height resolved ozone hole structure as observed by GOME-2
         Van Peet, Jacob
         Royal Netherlands Meteorological Institute (KNMI)

14:30    Variation in 27-day solar signatures on tropical stratospheric ozone from SCIAMACHY (2002-present) and ECMWF temperature data
         Dikty, Sebastian
         University of Bremen

14:45    Ozone profile retrieval from MetOp
         Miles, Georgina
         Rutherford Appleton Laboratory

15:00    Validation of Ozone Monitoring Instrument (OMI) stratospheric ozone profiles and stratospheric ozone column with the Microwave Limb Sounder (MLS)
         Liu, Xiong
         University of Maryland

15:15    Clouds as scattering layers: Improved retrieval of GOME-2 total column products
         Spurr, Robert
         RT Solutions Inc.

15:30    COFFEE BREAK – POSTER SESSION

15:30 – open end
POSTER SESSION
### WEDNESDAY MORNING, 23 SEPTEMBER

Sessions 4/5 and 3 are in parallel

#### SESSION 4
(BALLROOM)

**Land Surface**
*Chairperson: Carlos DaCamara - University of Lisbon*

<table>
<thead>
<tr>
<th>Time</th>
<th>Topic</th>
<th>Speaker(s)</th>
</tr>
</thead>
<tbody>
<tr>
<td>08:30</td>
<td>Land Surface Albedo and down-welling short-wave radiation retrievals: Toward merged products between MSG geostationary satellite and the polar satellite Metop</td>
<td>Hautecoeur, Olivier Météo France</td>
</tr>
<tr>
<td>08:45</td>
<td>Monitoring vegetation using DOAS satellite observations</td>
<td>Eigermeier, Ellen Max-Planck Institute for Chemistry</td>
</tr>
<tr>
<td>09:00</td>
<td>Compatibility and integration of NDVI data obtained from AVHRR/NOAA and SEVIRI/MSG sensors</td>
<td>Poli, Gabriele Università de Firenze</td>
</tr>
<tr>
<td>09:15</td>
<td>An optimal spectral index for burnt scar identification</td>
<td>DaCamara, Carlos University of Lisbon</td>
</tr>
<tr>
<td>09:30</td>
<td>Validation results of the operational LSA-SAF snow cover mapping</td>
<td>Siljamo, Niilo Finnish Meteorological Institute (FMI)</td>
</tr>
<tr>
<td>09:45</td>
<td><strong>COFFEE BREAK - POSTER/EXHIBIT VIEWING</strong></td>
<td></td>
</tr>
</tbody>
</table>

#### SESSION 5
(BALLROOM)

**Global Monitoring for Environment and Security (GMES) Services - PLENARY**
*Chairperson: Kenneth Holmlund - EUMETSAT*

<table>
<thead>
<tr>
<th>Time</th>
<th>Topic</th>
<th>Speaker(s)</th>
</tr>
</thead>
<tbody>
<tr>
<td>11:00</td>
<td>GMES Bureau activities</td>
<td>Moutarlier, Valère EC GMES Bureau</td>
</tr>
<tr>
<td>11:15</td>
<td>GMES - EUMETSAT's involvement and activities</td>
<td>Counet, Paul EUMETSAT</td>
</tr>
<tr>
<td>11:30</td>
<td>geoland2 - Towards an Operational GMES Land Monitoring Core Service</td>
<td>Alexander Kaptein Presentated by: Steffen Kuntz ASTRIUM GmbH</td>
</tr>
<tr>
<td>11:45</td>
<td>The MyOcean GMES Marine Core Service</td>
<td>Bahurel, Pierre My-Ocean Project</td>
</tr>
<tr>
<td>12:00</td>
<td>GMES Assimilation of satellite observations to monitor and forecast global and regional air quality</td>
<td>Engelen, Richard ECMWF</td>
</tr>
<tr>
<td>12:15</td>
<td>The G-MOSAIC Project: GMES Pilots Services for Security</td>
<td>Roberts, Dan Infoterra</td>
</tr>
<tr>
<td>12:30</td>
<td>SAFER - Services and Applications For the Emergency Response: en route for a safer world with the GMES operational services</td>
<td>Fourty, Thierry SAFER Coordination Team, Infoterra</td>
</tr>
</tbody>
</table>

12:45 - 14:15
**LUNCH BREAK**
**SESSION 3 continued**

### Atmospheric Composition

Chairperson: Thierry Phulpin - CNES

<table>
<thead>
<tr>
<th>Time</th>
<th>Session Title</th>
<th>Presenter</th>
<th>Affiliation</th>
</tr>
</thead>
<tbody>
<tr>
<td>08:30</td>
<td><strong>Keynote Address</strong>&lt;br&gt;Pre-operational aerosol analysis and forecasts</td>
<td>Boucher, Olivier</td>
<td>Met Office</td>
</tr>
<tr>
<td>08:50</td>
<td>The value of MSG/SEVIRI derived mean daily aerosol optical depth for operational air quality forecasts</td>
<td>Segers, Arjo</td>
<td>TNO Environment and Geosciences</td>
</tr>
<tr>
<td>09:05</td>
<td>Applications of UV scattering and absorbing aerosol indices from SCIAMACHY</td>
<td>Beirle, Steffen</td>
<td>Max-Planck Institute for Chemistry</td>
</tr>
<tr>
<td>09:20</td>
<td>4D-Var atmospheric data assimilation and flux inversion using in-situ and satellite observations of CO2 and CH4</td>
<td>Engelen, Richard</td>
<td>ECMWF</td>
</tr>
<tr>
<td>09:35</td>
<td>Advances in Numerical and Chemical Weather Prediction by extension of the Canadian NWP system to stratospheric chemistry</td>
<td>Chabrillat, Simon</td>
<td>Belgian Institute for Space Aeronomy</td>
</tr>
<tr>
<td>09:50</td>
<td>SEVIRI fire radiative power and the GMES Atmospheric Core Service</td>
<td>Kaiser, Johannes W.</td>
<td>ECMWF</td>
</tr>
<tr>
<td>10:05</td>
<td>OSSEs for optimizing an IR sensor dedicated to monitoring air quality from the geostationary orbit</td>
<td>Claeyman, Marine</td>
<td>Laboratoire d'Aérologie</td>
</tr>
<tr>
<td>10:20</td>
<td><strong>COFFEE BREAK - POSTER/EXHIBIT VIEWING</strong></td>
<td></td>
<td></td>
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</table>

**11:00 - 12:45**

Global Monitoring for Environment and Security (GMES) Services - Plenary in Ballroom
**WEDNESDAY AFTERNOON, 23 SEPTEMBER**

**Sessions 6 and 3 are in parallel**

### Plenary (Ballroom)

#### 14:15 – 14:45

**“EUMETSAT’s expanding contribution in support of Climate Monitoring”**

Don Hinsman  
(Special Adviser to the Director-General of EUMETSAT on Climate Issues)

### SESSION 6  
**Climate**  
**Chairperson:** Lothar Schueller - EUMETSAT

<table>
<thead>
<tr>
<th>Time</th>
<th>Title</th>
<th>Presenter</th>
<th>Institution</th>
</tr>
</thead>
<tbody>
<tr>
<td>14:45</td>
<td>Global time series of total column precipitable water from GOME-2 – Comparison with SCIAMACHY and GOME-1</td>
<td>Wagner, Thomas</td>
<td>Max Planck Institute for Chemistry</td>
</tr>
<tr>
<td>15:00</td>
<td>Investigation of moisture anomalies at the air-sea interface over the Mediterranean using MSG SEVIRI data</td>
<td>Velea, Liliana</td>
<td>ISAC CNR</td>
</tr>
</tbody>
</table>

**15:15 COFFEE BREAK – POSTER/EXHIBIT VIEWING**

### SESSION 6 continued  
**Climate**  
**Chairperson:** Lothar Schueller - EUMETSAT

<table>
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<tbody>
<tr>
<td>15:45</td>
<td>Towards improved global data sets for Upper Tropospheric Humidity: A pilot activity of the global network of SCOPE-CM</td>
<td>Schulz, Jörn</td>
<td>German Meteorological Service (DWD)</td>
</tr>
<tr>
<td>16:00</td>
<td>On the effect of the first guess on instantaneous retrievals of global temperature and water vapour profiles</td>
<td>Schröder, Marc</td>
<td>German Meteorological Service (DWD)</td>
</tr>
<tr>
<td>16:30</td>
<td>Global ocean freshwater flux components from the HOAPS-3 satellite climatology</td>
<td>Andersson, Axel</td>
<td>University of Hamburg</td>
</tr>
</tbody>
</table>

### SESSION 3 continued  
**Atmospheric Composition**  
**Chairperson:** Rose Munro - EUMETSAT

<table>
<thead>
<tr>
<th>Time</th>
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</thead>
<tbody>
<tr>
<td>14:45</td>
<td>Daily estimates of the tropospheric aerosol optical thickness over land surface from MSG geostationary observations</td>
<td>Hautecoeur, Olivier</td>
<td>Météo France</td>
</tr>
<tr>
<td>15:00</td>
<td>An aerosol climatology from SEVIRI</td>
<td>Poulsen, Caroline</td>
<td>Rutherford Appleton Laboratory</td>
</tr>
<tr>
<td>15:15</td>
<td>COFFEE BREAK – POSTER/EXHIBIT VIEWING</td>
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### SESSION 3 continued  
**Atmospheric Composition**  
**Chairperson:** Rose Munro - EUMETSAT

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<tbody>
<tr>
<td>15:45</td>
<td>Dust optical thickness retrieval using the SEVIRI IR channels</td>
<td>Pradhan, Yaswant</td>
<td>Met Office</td>
</tr>
<tr>
<td>16:00</td>
<td>The online NOAA-NASA near-real-time monitoring system of volcanic SO2/ash clouds based on UV and IR satellite observations</td>
<td>Vicente, Gilberto</td>
<td>NOAA/ NESDIS</td>
</tr>
<tr>
<td>16:15</td>
<td>An alert system for volcanic SO2 emissions using satellite measurements</td>
<td>Van Geffen, Jos</td>
<td>Belgian Institute for Space Aeronomy (BIRA)- IASB</td>
</tr>
</tbody>
</table>

**GALA DINNER**  
**19:00 – 23:00**  
(departure from Assembly Rooms at 17:00)
### SESSION 6
**Climate**
**Chairperson:** Olivier Boucher - Met Office

<table>
<thead>
<tr>
<th>Time</th>
<th>Session</th>
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<tbody>
<tr>
<td>08:30</td>
<td><strong>Keynote Address</strong></td>
<td>BALLROOM</td>
</tr>
<tr>
<td></td>
<td>Observing cirrus formation and decay with Meteosat</td>
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<td></td>
<td>Mannstein, Hermann</td>
<td>Met Office</td>
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<td></td>
<td>German Aerospace Center (DLR)</td>
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<tr>
<td>08:50</td>
<td>Comparison of different inversion techniques for daytime cloud optical and microphysical parameters retrieval</td>
<td>BALLROOM</td>
</tr>
<tr>
<td></td>
<td>Walther, Andi</td>
<td>University of Wisconsin-Madison</td>
</tr>
<tr>
<td>09:05</td>
<td>Advancing cloud property retrievals from SEVIRI: Retrieval of multi-layer cloud and the effect of 3D radiative transfer</td>
<td>BALLROOM</td>
</tr>
<tr>
<td></td>
<td>Siddans, Richard</td>
<td>Rutherford Appleton Laboratory</td>
</tr>
<tr>
<td>09:20</td>
<td>Cloud albedo - a forgotten ECV?</td>
<td>BALLROOM</td>
</tr>
<tr>
<td></td>
<td>Trentmann Jörg</td>
<td>German Meteorological Service (DWD)</td>
</tr>
<tr>
<td>09:35</td>
<td>Correlation between effective cloud fraction from SCIAMACHY and cloud liquid water path from SEVIRI - preliminary results</td>
<td>BALLROOM</td>
</tr>
<tr>
<td></td>
<td>Stammes, Piet</td>
<td>Royal Netherlands Meteorological Institute (KNMI)</td>
</tr>
<tr>
<td>09:50</td>
<td>Evaluation of the global cloud cover parameters obtained from geostationary data in the frame of the MEGHA-Tropiques mission with CALIPSO lidar observations</td>
<td>BALLROOM</td>
</tr>
<tr>
<td></td>
<td>Seze, Genevieve</td>
<td>Royal Netherlands Meteorological Institute (KNMI)</td>
</tr>
<tr>
<td></td>
<td>Laboratoire de Météorologie Dynamique/ IPSL, CERS et Université Pierre et Marie Curie</td>
<td></td>
</tr>
<tr>
<td>10:05</td>
<td>Algorithm intercomparison results of the Locamo Cloud Workshop</td>
<td>BALLROOM</td>
</tr>
<tr>
<td></td>
<td>Thoss, Anke</td>
<td>Swedish Meteorological and Hydrological Institute (SMHI)</td>
</tr>
<tr>
<td>10:20</td>
<td>Influence of satellite temporal sampling on a cloud amount</td>
<td>BALLROOM</td>
</tr>
<tr>
<td></td>
<td>Kotarba, Andrzej</td>
<td>University of Wisconsin-Madison</td>
</tr>
<tr>
<td>10:35</td>
<td>COFFEE BREAK - POSTER/EXHIBIT VIEWING</td>
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</table>

### SESSION 6 continued
**Climate**
**Chairperson:** Andrew Heidinger - NOAA

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<tr>
<td>11:15</td>
<td>Evaluation of CM-SAF cloud products derived from SEVIRI using CloudSat/ CALIPSO measurements, ground-based observations and MODIS cloud products</td>
<td>BALLROOM</td>
</tr>
<tr>
<td></td>
<td>Lockhoff, Maarit</td>
<td>German Meteorological Service (DWD)</td>
</tr>
<tr>
<td>11:30</td>
<td>Evaluation of CM-SAF arctic cloud products using CALIPSO-CALIOP and MODIS cloud observations</td>
<td>BALLROOM</td>
</tr>
<tr>
<td></td>
<td>Karlsson, Karl-Göran</td>
<td>Swedish Meteorological and Hydrological Institute (SMHI)</td>
</tr>
<tr>
<td>11:45</td>
<td>Procedures to standardize the validation of satellite derived cloud properties with ground-based observations</td>
<td>BALLROOM</td>
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<tr>
<td></td>
<td>Roebeling, Rob</td>
<td>Royal Netherlands Meteorological Institute (KNMI)</td>
</tr>
<tr>
<td>12:00</td>
<td>Synergetic use of passive microwave radiometer and multifilter rotating shadowband radiometer measurements for validating satellite-retrieved cloud properties</td>
<td>BALLROOM</td>
</tr>
<tr>
<td></td>
<td>Deneke, Hartwig</td>
<td>Royal Netherlands Meteorological Institute (KNMI)</td>
</tr>
<tr>
<td>12:15</td>
<td>Observing the diurnal cycle of cloud physical properties over the Sahel Meinink, Jan Fokke</td>
<td>BALLROOM</td>
</tr>
<tr>
<td></td>
<td>Royal Netherlands Meteorological Institute (KNMI)</td>
<td></td>
</tr>
<tr>
<td>12:30</td>
<td>The diurnal cycle of marine stratocumulus clouds from SEVIRI: Implications for the first indirect aerosol effect</td>
<td>BALLROOM</td>
</tr>
<tr>
<td></td>
<td>Bennartz, Ralf</td>
<td>University of Wisconsin-Madison</td>
</tr>
</tbody>
</table>

**12:45 - 14:00**
**LUNCH BREAK**
### SESSION 7  
**In parallel (Tea Room)**  
**Hyperspectral Sounding**  
Chairpersons:  
Denis Blumstein – CNES  
Allen Huang – University of Wisconsin-Madison  

#### 08:30  
**Keynote Address**  
The generation of an AIRS radiance climatology to monitor climate change and validate model-derived atmospheric analyses  
Goldberg, Mitch  
NOAA/NESDIS  

#### 08:50  
Monochromatic radiative signal of Asian dust from hyperspectral IR simulations  
Sohn, Byung-Ju  
Seoul National University  

#### 09:05  
Inter-calibration of GOES sounder and imager with MetOP/IASI and Aqua/AIRS hyperspectral measurements  
Wang, Likun  
NOAA/NESDIS/STAR  

#### 09:20  
Performance of the NOAA-16 and AIRS temperature soundings over India  
Singh, Devendra  
Ministry of Science and Technology  
Presented by: Singh, Virendra  
India Meteorological Department  

#### 09:35  
The GEISA Spectroscopic Database as a tool for IASI hyperspectral remote sensing applications: the new 2008 edition  
Jacquinet, Nicole  
Ecole Polytechnique  

#### 09:50  
Hurricanes, cyclones and cluster analysis of deep convective clouds using seven years of AIRS data  
Aumann, Hartmut  
California Institute of Technology  

#### 10:05  
Application of a 1D-VAR retrieval scheme on IASI data gathered during J-AIVEX  
Taylor, Jonathan  
Met Office  

#### 10:20  
Airborne hyperspectral measurements investigating the radiative impact of atmospheric water vapour  
Newman, Stuart  
Met Office  

#### 10:35  
**COFFEE BREAK - POSTER/EXHIBIT VIEWING**  

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**SESSION 7 continued  
In parallel (Tea Room)**  
**Hyperspectral Sounding**  
Chairpersons:  
Denis Blumstein – CNES  
Allen Huang – University of Wisconsin-Madison  

#### 11:15  
Comparison of observations of the atmosphere from aircraft, satellite and ground based instruments during J-AIVEX  
Vance, Alan  
Met Office  

#### 11:30  
IASI status after more than 2.5 years in orbit  
Blumstein, Dennis  
Centre National d’Etudes Spatiales (CNES) - CST  

#### 11:45  
IASI L1 NRT product quality monitoring at EUMETSAT: Results from two years of operations  
Fiedler, Lars  
EUMETSAT  

#### 12:00  
Synergy between IASI sounding and AVHRR imagery for the processing of IASI data in non-uniform scenes  
Phulpin, Thierry  
Centre National d’Etudes Spatiales (CNES)  

#### 12:15  
CrIS retrieval/EDR end-to-end validation assessment model: Validation of IASI temperature and water vapor retrievals  
Pougatchev, Nikita  
Space Dynamics Laboratory  

#### 12:30  
Variational cloud property retrievals in principal components space using the Havemann-Taylor Fast Radiative Transfer Code (HT-FRTC)  
Havemann, Stephan  
Met Office  

#### 12:45  
Development of a GPU-based high-performance radiative transfer model for the Infrared Atmospheric Sounding Interferometer (IASI)  
Huang, Bomin  
Presented by: Huang, Allen  
University of Wisconsin-Madison  

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**13:00 – 14:00**  
**LUNCH BREAK**
THURSDAY AFTERNOON, 24 SEPTEMBER

Sessions 6 and 7 are in parallel

SESSION 6 continued (BALLROOM)

Climate
Chairperson:
Jörg Schulz – German Meteorological Service (DWD)

14:00 Global MSG/SEVIRI AOT product: a Level-3 product useful to monitor the transport of polluted aerosols over Europe.
Bernard, Emilien
HYGEOS

14:15 Satellite remote sensing of dust aerosol indirect effects on ice cloud formation
Ou, Szu-Cheng Steve
University of California

14:30 Multiple satellite analysis of mineral dust and biomass burning aerosols influence on cloud properties and rainfall in the West African Sahel
Klueser, Lars
German Aerospace Center (DLR)

14:45 Recent improvements to and findings from NOAA’s global AVHRR cloud climatology (PATMOS-x)
Heidinger, Andrew
NOAA

15:00 Thirty-year climatological trends in macro and microphysical cloud properties as measured by the AVHRR satellite sensor
Foster, Michael
University of Wisconsin-Madison

15:15 Changes in albedos and effective cloud-top heights as measured by MISR on the Terra satellite: contrasting cloud effects on climate
Davies, Roger
University of Auckland

15:30 Global cloud climatologies from satellite-based infrared sounders (TOVS, AIRS and IASI)
Cros, Sylvain
CNRS / IPSL

15:45 COSP: a multi-instrument satellite simulator for model evaluation
Bodas-Salcedo, Alejandro
Met Office

16:00 COFFEE BREAK – POSTER SESSION

Joint SESSION 7 and 8 In parallel (TEA ROOM)

Hyperspectral Sounding/ Numerical Weather Predictions
Chairpersons:
Allen Huang – University of Wisconsin-Madison
Denis Blumstein – CNES
John Eyre – Met Office
Lars Peter Riishojgaard – NASA-J CSDA

14:00 An Investigation into the performance of retrievals of temperature and humidity from IASI
Hilton, Fiona
Met Office

14:15 The assimilation of clear and cloud affected IASI radiance observations at ECMWF
McNally, Anthony
ECMWF

14:30 Assimilation of IASI radiances at Environment Canada
Garand, Louis
Environment Canada

14:45 Assimilation of advanced sounder radiances in the French global Numerical Weather Prediction Arpege model
Pangaud, Thomas
Météo France

15:00 The use of hyperspectral water vapor channels from AIRS and IASI in NCEP’s Global Forecast System
Riishojgaard, Lars Peter
NASA-J CSDA

15:15 Improve hurricane track and intensity forecasts when assimilating hyperspectral infrared soundings
Li, Jun
Presented by: Huang, Allen
University of Wisconsin-Madison

15:30 COFFEE BREAK – POSTER SESSION

15:30 – open end POSTER SESSION

16:00 - open end POSTER SESSION
## FRIDAY MORNING, 25 SEPTEMBER

### Sessions 6 and 8 are in parallel

#### SESSION 6 continued (BALLROOM)

**Climate**

**Chairperson:** Olivier Boucher – Met Office

<table>
<thead>
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<tr>
<td>08:30</td>
<td>Climate signal detection with GPS radio occultation and other satellite sounding measurements</td>
<td>Ringer, Mark</td>
<td>Met Office</td>
</tr>
<tr>
<td>08:45</td>
<td>Tropopause altitude identification using GPS radio occultation data</td>
<td>Lewis, Huw</td>
<td>Met Office</td>
</tr>
<tr>
<td>09:00</td>
<td>Use of satellite-based products within the National Climate Observing System (GCOS Switzerland)</td>
<td>Seiz, Gabriela</td>
<td>Federal Office of Meteorology and Climatology MeteoSwiss</td>
</tr>
<tr>
<td>09:15</td>
<td>Validation of the Climate-SAF inner Arctic broadband surface albedo product: Greenland and the polar ice cap</td>
<td>Riihelä, Aku</td>
<td>Finnish Meteorological Institute (FMI)</td>
</tr>
<tr>
<td>09:30</td>
<td>Pluri-annual comparison of land surface modelled with ERS remote sensed surface soil moisture</td>
<td>De Crane, Francois</td>
<td>Royal Meteorological Institute of Belgium (RMIB)</td>
</tr>
<tr>
<td>09:45</td>
<td>Sustained coordinated processing of environmental satellite data for climate monitoring</td>
<td>Schüller, Lothar</td>
<td>EUMETSAT</td>
</tr>
<tr>
<td>10:00</td>
<td>Blending in situ and satellite data for monitoring extreme temperatures over land</td>
<td>Good, Elizabeth</td>
<td>Met Office</td>
</tr>
<tr>
<td>10:15</td>
<td>COFFEE BREAK - POSTER/EXHIBITVIEWING</td>
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#### SESSION 6 continued (BALLROOM)

**Climate**

**Chairperson:** Mark Ringer – Met Office

<table>
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<tr>
<td>11:00</td>
<td>Results from the first intercomparison study of overlapping data from the GERB-1 and - 2 instruments</td>
<td>Bantges, Richard</td>
<td>Presented by: Russell, Jacqui</td>
</tr>
<tr>
<td>11:15</td>
<td>Reconciling satellite and aircraft measurements of dust radiative effects: a case study from the Geostationary Earth Radiation Budget Intercomparison of Longwave and Shortwave radiation (GERBILS) campaign</td>
<td>Brindley, Helen</td>
<td>Imperial College London</td>
</tr>
<tr>
<td>11:30</td>
<td>Comparing a generalized flux/radiance radiation code in a climate model with GERB</td>
<td>Ingram, William</td>
<td>University of Oxford</td>
</tr>
<tr>
<td>11:45</td>
<td>Steps towards a satellite-derived climate data record of global radiation</td>
<td>Stöckli, Reto</td>
<td>MeteoSwiss</td>
</tr>
<tr>
<td>12:00</td>
<td>Steps towards a satellite-derived climate data record of global radiation: Transition from MVIRI to SEVIRI</td>
<td>Posselt, Rebekka</td>
<td>Federal Office for Meteorology and Climatology MeteoSwiss</td>
</tr>
<tr>
<td>12:15</td>
<td>Surface downwelling longwave radiation: Evaluation of selected data sets for climate monitoring</td>
<td>Trentmann, Jörg</td>
<td>German Meteorological Service (DWD)</td>
</tr>
<tr>
<td>12:30</td>
<td>Monitoring changes in precipitation and the Earth's radiative energy balance using satellite data and comparison with climate model simulations</td>
<td>Allan, Richard</td>
<td>University of Reading</td>
</tr>
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12:45 - 13:15

**SNACK LUNCH**
### SESSION 8  
**Numerical Weather Prediction**  
**Chairperson:** John Eyre – Met Office  
**In parallel (TEA ROOM)**

<table>
<thead>
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<th>Time</th>
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</table>
| 08:30 | **Keynote Address**  
The land surface emissivity at microwave frequencies: the operational implementation in the French 4D-VAR global system and the impact on the African Monsoon during AMMA  
Gerard, Elisabeth  
Météo France | | |
| 08:50 | Developments in the use of ATOVS data at ECMWF  
Bormann, Niels | ECMWF |
| 09:05 | Assimilation of synthetic GOES-R and real MSG radiances in cloudy conditions using an ensemble-based method  
Zupanski, Dusanka  
Colorado State University/ CIRA | | |
| 09:20 | Monitoring and assimilation of FY3A data at ECMWF  
Lu, Qifeng  
National Satellite Meteorological Center, Chinese Meteorological Administration (NSMC/CMA) | | |
| 09:35 | Bias correction of window channels on microwave and infrared sounders  
Li, Dingmin | ECMWF |
| 09:50 | Atmospheric Motion Vectors: a summary of worldwide activities to improve their impact in Numerical Weather Prediction  
Forsythe, Mary  
Met Office | | |
| 10:05 | Global Atmospheric Motion Vectors: An inter-comparison study  
Genkova, Iliana | ECMWF |
| 10:05 | **COFFEE BREAK - POSTER/EXHIBIT VIEWING** | | |

### SESSION 8 continued  
**Numerical Weather Prediction**  
**Chairperson:** Lars-Peter Riishojgaard - NASA  
**In parallel (TEA ROOM)**

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</table>
| 11:00 | The generation of high spatial and temporal resolution atmospheric motion vectors and their use in 4D-VAR and operational meteorology  
Le Marshall, John, BoM/JCSDA  
Presented by: Riishojgaard, Lars-Peter  
NASA | | |
| 11:15 | Diagnosing the impacts of satellite Atmospheric Motion Vectors (AMVs) in the latest ECMWF 4D-VAR Data Assimilation System  
Li, Dingmin | ECMWF |
| 11:30 | GRAS radio occultation observations on board Metop-A  
Von Engeln, Axel  
EUMETSAT | | |
| 11:45 | Assimilation of GRAS GPS radio occultation measurements at ECMWF  
Healy, Sean | ECMWF |
| 12:00 | Improved use of surface-sensitive microwave radiances over land at ECMWF  
Krzeminski, Blazej | ECMWF |
| 12:45 – 13:15 | **SNACK LUNCH** | | |
**FRIDAY AFTERNOON, 25 SEPTEMBER**

Sessions 6 and 8 are in parallel

**SESSION 6 continued**  
**Climate**  
**Chairperson:** Lothar Schueller - EUMETSAT  

13:15 NWP bias monitoring as a tool for satellite inter-calibration  
Saunders, Roger  
Met Office

13:30 Clear-sky retrieval biases in the Pathfinder SST record  
Harris, Andy  
University of Maryland

13:45 A new physical calibration for the AVHRR instrument series  
Mittaz, Jonathan  
University of Maryland

14:30 Inter-calibration of Meteosat, HIRS and IASI - Closing the triangle  
Hewison, Tim  
EUMETSAT

14:15 Geostationary imager visible channel recalibration  
Okuyama, Arata  
Japan Meteorological Agency (JMA)

14:00 Validation and long term monitoring of ASCAT instrument and Level 1 products  
Figa Saldana, Julia  
EUMETSAT

14:45 GEO-LEO inter-calibration at NOAA  
Wu, Xiangqian  
NOAA/NESDIS

15:00 Examining SEVIRI solar channel from very bright cloud targets  
Ham, Seung-Hee  
Seoul National University

**SESSION 8 continued**  
**Numerical Weather Prediction**  
**Chairperson:** Niels Bormann - ECMWF  

13:15 Keynote Address  
Assimilation of cloudy infrared satellite radiances  
Stengel, Martin  
Swedish Meteorological and Hydrological Institute (SMHI)

13:35 Towards the direct assimilation of SEVIRI-derived cloud parameters in the Met Office regional forecast model  
Francis, Peter  
Met Office

13:50 The quality of the ASCAT 12.5 km wind product  
Vogelzang, Jur  
Presented by: Rob Roebeling  
Royal Netherlands Meteorological Institute (KNMI)

15:15 15:45 CLOSE-OUT CEREMONY
Special thanks go to:

SPC Members
Pierre Bahurel (Mercator)
Denis Blumstein (CNES)
Olivier Boucher (Met Office)
Paul Counet (EUMETSAT)
Nikolai Dotzek (DLR)
John Eyre (Met Office)
Volker Gärtner (EUMETSAT)
Steve Goodman (NOAA)
Hung-Lung Allen Huang (University of Wisconsin-Madison)
Rosemary Munro (EUMETSAT)
Lars Peter Riishojgaard (NASA)
Jamo Schipper (ZAMG)
Lothar Schueller (EUMETSAT)
Roeland van Oss (KNMI)

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