### Conference Schedule

**CONFERENCE SCHEDULE**

All times reflect GMT +2

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<thead>
<tr>
<th></th>
<th>SUNDAY</th>
<th>MONDAY</th>
<th>TUESDAY</th>
<th>WEDNESDAY</th>
<th>THURSDAY</th>
<th>FRIDAY</th>
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<tr>
<td><strong>Registration</strong></td>
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**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>Session 7</th>
<th>Closing Ceremony</th>
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**PLENARY / PANEL DISCUSSION**

13:00 - 14:00

"The changing Arctic climate: What and how do we know?"

Dr. Olav Orheim
Senior Advisor Research Council of Norway

**DEDICATED POSTER SESSION**

During coffee/lunch breaks and Tuesday afternoon

**SPONSOR EXHIBITS**

**SOCIAL EVENTS**

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

**Room allocation:**

<table>
<thead>
<tr>
<th>Location</th>
<th>Level</th>
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<tbody>
<tr>
<td>CONGRESS HALL A</td>
<td>Level 2</td>
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<tr>
<td>CONGRESS HALL B</td>
<td>Level 2</td>
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<td>CONGRESS HALL C</td>
<td>Level 2</td>
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<tr>
<td>AUDITORIUM</td>
<td>Level 1</td>
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<tr>
<td>FORUM Posters</td>
<td>Level 1</td>
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</tbody>
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**SESSION GUIDE:**

1. Current and future satellites, instruments and their applications
2. Monitoring climate and understanding climate processes based on satellite data
3. Nowcasting
4. Assimilation of satellite data into global and regional NWP models
5. Satellite-based observations of the oceans, with emphasis on the Arctic regions
6. Facilitating data access and utilisation
7. Atmospheric composition
MONDAY MORNING, 5 SEPTEMBER

OPENING CEREMONY (CONGRESS HALL A)

09:00 Official Address
Ratier, Alain
Director-General,
EUMETSAT

09:15 Official Address
Eliassen, Anton
Director-General
met.no Norwegian Meteorological Institute

SESSION 1 (Plenary) (CONGRESS HALL A)
Current and future satellites, instruments and their applications
Chairperson:
Volker Gaertner
EUMETSAT

09:30 EUMETSAT Geostationary and low Earth programmes: Status and plans
Koenemann, Ernst
Director of Programme Development
EUMETSAT

09:45 WMO current and future activities
Ryan, Barbara J.
Director
WMO Space Programme Office

10:00 NOAA current and future activities
Greg Robinson
Deputy Assistant Administrator for Systems
NOAA/NESDIS

10:15 EUMETSAT - The early vision
Morgan, John
Former Director-General
EUMETSAT

10:30 Conference announcements
Pooley, Madeleine
EUMETSAT

10:40 COFFEE BREAK - POSTER/EXHIBIT VIEWING

PLENARY SESSION (CONGRESS HALL A)
Chairperson:
Volker Gaertner
EUMETSAT

11:15 Arctic perspectives: Evolution of weather and climate services for the polar regions
David Grimes
Assistant Deputy Minister
Meteorological Service of Canada

11:45 Status and challenges in Arctic after IPY
Oystein Hov
Director Research and Development Department
met.no Norwegian Meteorological Institute

12:15 – 14:00 LUNCH BREAK
**MONDAY AFTERNOON, 5 SEPTEMBER**

**Sessions 1, 2 and 3 are in parallel**

### SESSION 1 continued (CONGRESS HALL A)

**Current and future satellites, instruments and their applications**

**Chairperson:**

Steven Goodman  
NOAA/NESDIS

<table>
<thead>
<tr>
<th>Time</th>
<th>Session</th>
<th>Speaker</th>
<th>Organisation</th>
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<tbody>
<tr>
<td>14:00</td>
<td>Future low Earth observation satellite radio occultation mission</td>
<td>Yen, Nick</td>
<td>NSPO</td>
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<td>National Space Organisation of Taiwan</td>
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<tr>
<td>14:15</td>
<td>Overview of the first satellite of the Global Change Observation Mission - Water (GCOM-W1)</td>
<td>Kachi, Misako</td>
<td>JAXA</td>
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<td>Japan Aerospace Exploration Agency</td>
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<tr>
<td>14:30</td>
<td>GeoSTAR and the geosynchronous microwave sounder mission</td>
<td>Lambrigtsen, Bjorn</td>
<td>JPL</td>
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<td>Jet Propulsion Laboratory/California Institute of Technology</td>
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<td>14:45</td>
<td>Proof-of-concept demonstration of a millimetre wave imaging sounder for Geostationary Earth Orbit</td>
<td>Carlström, Anders</td>
<td>RUAG</td>
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<td>Space AB</td>
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<td>15:00</td>
<td><strong>Keynote Address</strong></td>
<td>Hou, Arthur</td>
<td>NASA</td>
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<td>15:30</td>
<td><strong>COFFEE BREAK - POSTER/EXHIBIT VIEWING</strong></td>
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### SESSION 1 continued (CONGRESS HALL A)

**Current and future satellites, instruments and their applications**

**Chairperson:**

Johannes Schmetz  
EUMETSAT

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<tr>
<th>Time</th>
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<tbody>
<tr>
<td>16:15</td>
<td><strong>Keynote Address</strong></td>
<td>Mandt, Greg</td>
<td>NOAA</td>
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<td>GOES-R: Next generation GOES</td>
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<td>16:45</td>
<td>GOES-R algorithm and validation status</td>
<td>Goldberg, Mitchell</td>
<td>NOAA/NESDIS</td>
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<tr>
<td>17:00</td>
<td>Future plan and recent activities for the Japanese follow-on geostationary meteorological satellite HIMAWARI-8</td>
<td>Kurino, Toshiyuki</td>
<td>JMA</td>
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<td>Japan Meteorological Agency</td>
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<td>17:15</td>
<td>Status of the Polar Communications and Weather (PCW) mission</td>
<td>Garand, Louis</td>
<td>Environment Canada</td>
</tr>
<tr>
<td>17:30</td>
<td>President Obama’s broadband initiative: Impacts to international environmental satellite developers and users</td>
<td>Mulholland, Mark F.</td>
<td>NOAA</td>
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<tr>
<td>17:45</td>
<td><strong>General Q &amp; A (15”)</strong></td>
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**ICEBREAKER COCKTAIL**

Fram Museum  
19:30 – 21:00  
(departure from Aker Brygge as from 18:30)
### SESSION 2  
**MONITORING CLIMATE AND UNDERSTANDING CLIMATE PROCESSES BASED ON SATELLITE DATA**

**Chairperson:**  
Jeff Privette  
NOAA

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<th>Time</th>
<th>Event</th>
<th>Presenter(s)</th>
<th>Institution(s)</th>
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</table>
| 14:00  | **Keynote Address**  
A sharper view of fuzzy objects: Clouds and their role in the climate system as seen by satellite  
Bennartz, Ralf  
University of Wisconsin-Madison |                                                                             |                                         |
| 14:30  | **Converting NASA satellite datasets for the CMIP5/IPCC assessment**  
Ferraro, Robert  
JPL Jet Propulsion Laboratory |                                                                             |                                         |
| 14:45  | **Utilizing NASA A-Train datasets for IPCC AR5 climate model evaluation**  
Jiang, Jonathan  
California Institute of Technology |                                                                             |                                         |
| 15:00  | **The Climate Modelling Users Group in the ESA climate change initiative**  
Saunders, Roger  
Met Office |                                                                             |                                         |
| 15:15  | **Evaluation of upper tropospheric humidity of modern reanalyses using AIRS hyperspectral radiance measurements**  
Wang, Likun  
Dell @ NOAA/NESDIS/STAR  
Presented by Mitchell Goldberg  
NOAA/NESDIS |                                                                             |                                         |
| 15:30  | **COFFEE BREAK - POSTER/EXHIBIT VIEWING** |                                                                             |                                         |

### SESSION 2 continued

**MONITORING CLIMATE AND UNDERSTANDING CLIMATE PROCESSES BASED ON SATELLITE DATA**

**Chairperson:**  
Ralf Bennartz  
University of Wisconsin-Madison

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<th>Time</th>
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</table>
| 16:15  | **Keynote Address**  
Understanding the interactions and feedbacks between Arctic sea ice, clouds, and the atmosphere from satellite observations  
Key, Jeffrey  
NOAA/NESDIS |                                                                             |                                         |
| 16:45  | **The role of snow cover retrieval from satellite images in exploring the climate change fingerprint in the mountainous terrain**  
Akyurek, Zuhal  
Middle East Technical University |                                                                             |                                         |
| 17:00  | **Cloud optical property retrievals over snow and ice covered surfaces**  
Minnis, Patrick  
NASA Langley Research Center |                                                                             |                                         |
| 17:15  | **First results from the validation of the AVHRR GAC-based surface albedo thematic climate data record**  
Riihelä, Aku  
FMI Finnish Meteorological Institute |                                                                             |                                         |
| 17:30  | **General Q & A (15")** |                                                                             |                                         |

**ICEBREAKER COCKTAIL**  
Fram Museum  
19:30 – 21:00  
(departure from Aker Brygge as from 18:30)
### SESSION 3

**Chairperson:**
Adam Dybbroe - SMHI Swedish Meteorological and Hydrological Institute

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<tr>
<th>Time</th>
<th>Session Title</th>
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| 14:00 | **Keynote Address**
A new satellite object-based convective storm validation methodology  
Feltz, Wayne  
University of Wisconsin-Madison | **Feltz, Wayne**  
University of Wisconsin-Madison |
| 14:30 | Monitoring convective initiation through object tracking in a Nowcasting algorithm: Recent enhancements and performance assessment  
Walker, John R.  
Presented by: Mecikalski, John R.  
University of Alabama in Huntsville | **Walker, John R.**  
Presented by: Mecikalski, John R.  
University of Alabama in Huntsville |
| 14:45 | Correlating the locations of the overshooting tops with the occurrence of severe weather  
Strelec Mahovic, Natasa  
DHMZ Meteorological and Hydrological Service of Croatia | **Strelec Mahovic, Natasa**  
DHMZ Meteorological and Hydrological Service of Croatia |
| 15:00 | Characterisation of storm severity by use of selected convective cell parameters derived from satellite data  
Struzik, Piotr  
Institute of Meteorology and Water Management | **Struzik, Piotr**  
Institute of Meteorology and Water Management |
| 15:15 | Extremely strong convection in Lithuania on 8th of August, 2010  
Grusáte, Viktorija  
Lithuanian Hydrometeorological Service | **Grusáte, Viktorija**  
Lithuanian Hydrometeorological Service |
| 15:30 | **COFFEE BREAK - POSTER/EXHIBIT VIEWING** | **COFFEE BREAK - POSTER/EXHIBIT VIEWING** |

### SESSION 3 continued

**Chairperson:**
Christopher Velden  
CIMSS, University of Wisconsin-Madison

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<th>Time</th>
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</table>
| 16:15 | Identifying hazardous turbulence within satellite mountain wave signatures  
Wimmers, Anthony  
University of Wisconsin-Madison | **Wimmers, Anthony**  
University of Wisconsin-Madison |
| 16:30 | Study of a mesoscale convective complex over the Eastern Mediterranean basin with Meteosat data  
Feidas, Haralambos  
Presented by: Giannakos, Apostolos  
Aristotle University of Thessaloniki | **Feidas, Haralambos**  
Presented by: Giannakos, Apostolos  
Aristotle University of Thessaloniki |
| 16:45 | General Q & A (15") | **General Q & A (15")** |

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**ICEBREAKER COCKTAIL**  
Fram Museum  
19:30 - 21:00  
(departure from Aker Brygge as from 18:30)
TUESDAY MORNING, 6 SEPTEMBER

SESSION 1 continued (CONGRESS HALL A)
Current and future satellites, instruments and their applications
Chairperson:
Mitchell Goldberg
NOAA/NESDIS

08:30 The Sentinel-3 mission
Mavrocordatos, Constantin
Presented by: Donlon, Craig
ESA/ESTEC

08:45 Sentinel-4 and -5: The GMES missions dedicated to atmospheric composition
Veihelmann, Ben
ESA/ESTEC

09:00 The Sentinel-4/UVN instrument on-board MTG-S
Bazalgette Courrèges-Lacoste, Grégory
ESA/ESTEC

09:15 Study on radiometric and spectral requirements of an EPS-SG Visible/Infrared Imager
Huenerbein, Anja
DWD Deutscher Wetterdienst/
Richard-Aßmann-Observatorium

09:30 ITT’s Hyperspectral Advanced Baseline Imager/Sounder (HABIS)
Glumb, Ronald
ITT Space Systems Division

09:45 NOAA’s Joint Polar Satellite System and the NPP satellite: Delivering the next generation of environmental Earth observations
Mehta, Ajay
NASA/NESDIS/OSD

10:00 Performance assessment of future LEO and GEO satellite infrared instruments to monitor air quality
Sellitto, Pasquale
USA-CNRS Laboratoire Interuniversitaire des Systèmes Atmosphériques

10:15 The WMO dossier on the space-based global observing system
Bizzarri, Bizzarro
WMO

10:30 COFFEE BREAK - POSTER/EXHIBIT VIEWING

SESSION 1 continued (CONGRESS HALL A)
Current and future satellites, instruments and their applications
Chairperson:
Stephen Tjemkes
EUMETSAT

11:15 JAXA’s approach to meteorological and climatological applications by Earth observation programs
Umezawa, Kazuo
JAXA Japan Aerospace Exploration Agency

11:30 IASI-New Generation onboard EPS-SG: Expected impact on accuracy and vertical resolution for atmospheric variables
Crevoisier, Cyril
LMD-CNRS Laboratoire de Méteorologie Dynamique

11:45 AMV extraction scheme for MTG-FCI at EUMETSAT
Borde, Régis
EUMETSAT

12:00 General Q & A

12:15– 14:00 LUNCH BREAK
SESSION 2 continued (CONGRESS HALL B)
Monitoring climate and understanding climate processes based on satellite data
Chairperson: Tim Hewison EUMETSAT

08:30  Keynote Address
Inter-calibration of Meteosat IR measurements using HIRS data
Schulz, Jörg EUMETSAT

09:00  Vicarious calibration of visible channel on geostationary platform - A framework for G S I S
Wu, Xiangqian NOAA/NESDIS

09:15  Ageing models for Meteosat First Generation visible band and the normalization to Meteosat-7
Decoster, Ilse RMI Royal Meteorological Institute of Belgium

09:30  The solar channel calibration for the Meteosat imagers: assessment and future development for MTG/FCI
Wagner, Sebastien EUMETSAT

09:45  Inter-satellite calibration of AMSU-A observations and its comparisons to climate reanalysis
Zou, Cheng-Zhi NOAA/NESDIS

10:00  The impact of incidence angle variations on climate trends from simple water vapor retrieval algorithms
Hilburn, Kyle Remote Sensing Systems

10:15  A satellite-based global ocean surface turbulent fluxes dataset and the impact of the associated SSM/I brightness temperature
Shie, Chung-Lin UMBC/GEST, NASA/G S F C

10:30  COFFEE BREAK - POSTER/EXHIBIT VIEWING

SESSION 2 (CONGRESS HALL B)
Monitoring climate and understanding climate processes based on satellite data
Chairperson: Rainer Hollmann DWD Deutscher Wetterdienst

11:15  Evaluation of three decades of CMSAF cloud products from NOAA AVHRR data
Sedlar, Joseph SMHI Swedish Meteorological and Hydrological Institute

11:30  Evaluation of a thirty-year cloud physical property climate data record
Meirink, Jan Fokke KNMI Royal Netherlands Meteorological Institute

11:45  Evaluation and applications of two new satellite-based surface solar radiation data sets for climate analysis
Trentmann, Jörg DWD Deutscher Wetterdienst

12:00  General Q & A

12:15 – 14:00 LUNCH BREAK
### SESSION 3 continued

**Nowcasting**

**Chairperson:**

**Piotr Struzik**  
Institute of Meteorology and Water Management

#### 08:30  
**Keynote Address**  
Severe Convection Nowcasting in the Alpine region: the COALITION approach  
Nisi, Luca  
Presented by: Giunta, Igor  
MeteoSwiss

#### 09:00  
Enhancing objective short-range forecasts of the pre-convective environment using SEVIRI data  
Petersen, Ralph  
University of Wisconsin-Madison

#### 09:15  
Application of automated CB/TCU detection based on radar and satellite data  
De Valk, Paul  
KNMI Royal Netherlands Meteorological Institute

#### 09:30  
Observations of increased IR3.9 reflectivity at thunderstorm cloud tops  
Putsay, Maria  
OMSZ Hungarian Meteorological Service

#### 09:45  
Detection of rainy clouds based on their spectral and textural features on Meteosat multispectral infrared data  
Giannakos, Apostolos  
Aristotle University of Thessaloniki

#### 10:00  
Estimate upper level winds based on satellite storm top features  
Wang, Pao  
University of Wisconsin-Madison

#### 10:15  
**COFFEE BREAK - POSTER/EXHIBIT VIEWING**

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### SESSION 3 continued

**Nowcasting**

**Chairperson:**  
Marianne König  
EUMETSAT

#### 11:15  
U.S. Naval Research Laboratory Satellite Meteorological Nowcasting Applications  
Hawkins, Jeff  
Naval Research Laboratory

#### 11:30  
Cloud-product updates in the NWCSAF PPS version 2012  
Scheirer, Ronald  
SMHI Swedish Meteorological and Hydrological Institute

#### 11:45  
McIDAS-V: Analysis and visualization for Nowcasting validation and utilization  
Rink, Thomas  
SSEC/CIMSS Space Science and Engineering Centre/ Cooperative Institute for Satellite Studies

#### 12:00  
Satellite meteorology education resources from COMET: What's new?  
Abshire, Wendy  
UCAR

#### 12:15  
**General Q & A**

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**12:30 – 14:00**  
**LUNCH BREAK**
TUESDAY AFTERNOON, 6 SEPTEMBER

WORKSHOP  
GSICS project of WMO  
Chairperson: Mitchell Goldberg  
NOAA/NESDIS  
13:00 – 18:00  
Workshop  
GSICS project of WMO  

POSTER SESSION  
14:00 – 18:00  
POSTER SESSION

WORKSHOP  
EUMETrain  
Chairperson: Jarno Schipper  
ZAMG  
14:00 – 18:00  
Workshop  
EUMETrain

WORKSHOP  
OSI-SAF  
Chairperson: Guenole Guevel  
Météo-France  
14:00 – 18:30  
Workshop  
OSI-SAF
**SESSION 1 continued**

**Current and future satellites, instruments and their applications**

**Chairperson:**

**Steven Goodman**

NASA/NESDIS

<table>
<thead>
<tr>
<th>Time</th>
<th>Title</th>
<th>Presenter(s)</th>
<th>Affiliation(s)</th>
</tr>
</thead>
<tbody>
<tr>
<td>08:30</td>
<td>The CERES geostationary visible calibration approach, developed in conjunction with GSICS and the advent CLARREO</td>
<td>Doelling, David</td>
<td>NASA Langley Research Center</td>
</tr>
<tr>
<td>08:45</td>
<td>Evaluation of the GOES sounder radiometric calibration accuracy using GSICS</td>
<td>Yu, Fangfang</td>
<td>ERT.Inc.@NOAA/NESDIS/STAR</td>
</tr>
<tr>
<td>09:00</td>
<td>Methodology and information content of the NOAA/NESDIS channel selection for the Cross-Track Infrared Sounder (CrIS)</td>
<td>Gambacorta, Antonia</td>
<td>NOAA/NESDIS</td>
</tr>
<tr>
<td></td>
<td>Presented by: Goldberg, Mitchell</td>
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</tr>
<tr>
<td>09:15</td>
<td>2D tomography for trace gas retrievals combining SCIAMACHY limb and nadir measurements</td>
<td>Pukite, Janis</td>
<td>MPI Max-Planck Institut für Chemie</td>
</tr>
<tr>
<td>09:30</td>
<td>Analysis and characterization of the synergistic AIRS and MODIS cloud-cleared radiances</td>
<td>Zhang, Hong</td>
<td>University of Wisconsin-Madison</td>
</tr>
<tr>
<td>09:45</td>
<td>Implementation of the SCattering Index and HICRU effective cloud fraction in the GOME-2 aerosol product</td>
<td>Wagner, Thomas</td>
<td>MPI Max-Planck Institut für Chemie</td>
</tr>
<tr>
<td>10:00</td>
<td><strong>Keynote Address</strong></td>
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<tr>
<td></td>
<td>Boundary layer height and boundary layer clouds over the Great Lakes</td>
<td>Ackerman, Steven</td>
<td>University of Wisconsin-Madison</td>
</tr>
<tr>
<td></td>
<td>Presented by: Maddux, Brent</td>
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</tr>
<tr>
<td>10:30</td>
<td><strong>COFFEE BREAK - POSTER/EXHIBIT VIEWING</strong></td>
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**SESSION 1 continued**

**Current and future satellites, instruments and their applications**

**Chairperson:**

**Jeffrey Key**

NOAA/NESDIS

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<tr>
<th>Time</th>
<th>Title</th>
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<tbody>
<tr>
<td>11:15</td>
<td>Retriving multi-layer cloud properties from SEVIRI observations</td>
<td>Watts, Philip</td>
<td>EUMETSAT</td>
</tr>
<tr>
<td>11:30</td>
<td>MTG-IRS Level 2 Prototype development and application to IASI data</td>
<td>Calbet, Xavier</td>
<td>EUMETSAT</td>
</tr>
<tr>
<td>11:45</td>
<td>MTG-IRS correlation interferometry for the retrieval of CO2 columnar amount: An error analysis</td>
<td>Masiello, Guido</td>
<td>University of Basilicata</td>
</tr>
<tr>
<td>12:00</td>
<td>MTG-IRS atmospheric state product extraction chain processor</td>
<td>Tjemkes, Stephen</td>
<td>EUMETSAT</td>
</tr>
<tr>
<td>12:15</td>
<td>General Q &amp; A</td>
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</tbody>
</table>

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**“Arctic” Plenary in Congress Hall A**

<table>
<thead>
<tr>
<th>Time</th>
<th>Title</th>
<th>Presenter(s)</th>
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</tr>
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<tbody>
<tr>
<td>13:00</td>
<td>“The changing Arctic climate: What and how do we know?”</td>
<td>Dr. Olav Orheim</td>
<td>Senior Advisor, Research Council of Norway</td>
</tr>
<tr>
<td></td>
<td>Sandwiches provided for attendees</td>
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</tr>
</tbody>
</table>

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**12:30 - 14:00**

**LUNCH BREAK**

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**14:15**

**“Arctic” Plenary in Congress Hall A**

**14:30 – 15:30**

**“The changing Arctic climate: What and how do we know?”**

**Dr. Olav Orheim**

**Senior Advisor, Research Council of Norway**

Sandwiches provided for attendees
**WEDNESDAY MORNING, 7 SEPTEMBER**

Sessions 1, 4, 5 and 6 are in parallel

### SESSION 6

**Facilitating data access and utilisation**

<table>
<thead>
<tr>
<th>Time</th>
<th>Presentation</th>
</tr>
</thead>
</table>
| 08:30  | **Keynote Address**  
The MyOcean System of Systems: One main component of the GMES Marine Core Service  
Dorandeu, Joel  
CLS Collecte Localisation Satellites                                                                 |
| 09:00  | **The MyOcean Information System:** Interoperability and standards  
Dorandeu, Joel  
CLS Collecte Localisation Satellites                                                                 |
| 09:15  | **New possibilities for access and utilisation of EUMETSAT data and products through DAWBEE programme**  
Kanak, Jan  
SHMU Slovak Hydrometeorological Institute                                                        |
| 09:30  | **Direct broadcast data access, processing and utilization:** More than 10 years of IMAPP and an update of the SSEC DB end-to-end system  
Huang, Hung Lung Allen  
University of Wisconsin-Madison                                                                  |
| 09:45  | **Spatial data service operations for MetOp/GOME-2 atmospheric composition products**  
Kiemle, Stephan  
DLR/DFD Deutsches Zentrum für Luft- und Raumfahrt/Deutsches Femerkundungsdatenzentrum |
| 10:00  | **Standardisation of reprocessing architectures within the ESA CCI Initiative**  
Deighton, Hugh  
Logica                                                           |
| 10:15  | **COFFEE BREAK - POSTER/EXHIBIT VIEWING**                                                                            |

### SESSION 6 continued

**Facilitating data access and utilisation**

<table>
<thead>
<tr>
<th>Time</th>
<th>Presentation</th>
</tr>
</thead>
</table>
| 11:15  | **Increasing forecasters decision base by introducing new satellite products in meteorological user interfaces**  
Fritzsche, Pierre  
DWD Deutscher Wetterdienst                                                                                 |
| 11:30  | **Recent enhancements to the EUMETSAT Data Centre**  
Rothfuss, Harald  
EUMETSAT                                                                                                     |
| 11:45  | **The NOAA Unique CrIS/ATMS Product Processing System (NUCAPS)**  
King, Thomas  
Presented by: Goldberg, Mitchell  
NOAA/NESDIS                                                                                                  |
| 12:00  | **EO PORTAL - WMS services from the EUMETSAT real time image gallery**  
Schick, Michael  
EUMETSAT                                                                                                     |
| 12:15  | **SIOS (Svalbard Integrated Arctic Earth Observing System) Earth observation strategy**  
Moldestad, Dag Anders  
Presented by: Einar-Arne Herland  
Norwegian Space Center                                                                                     |

12:30 – 14:00

**LUNCH BREAK**

### “Arctic” Plenary

in Congress Hall A

13:00 – 14:00

“The changing Arctic climate: What and how do we know?”

Dr. Olav Orheim  
Senior Advisor,  
Research Council of Norway  

Sandwiches provided for attendees
**WEDNESDAY MORNING, 7 SEPTEMBER**

**SESSION 5**  
**Satellite-based observations of the oceans, with emphasis on the Arctic regions**  
**Chairperson:** Hervé Roquet  
Météo-France

<table>
<thead>
<tr>
<th>Time</th>
<th>Session Details</th>
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</table>
| 08:30 | Overview on the EUMETSAT Ocean & Sea Ice SAF  
Guevel, Guenole  
Météo-France |
| 08:45 | Use of EUMETSAT products in the MyOcean Arctic monitoring and forecasting services  
Hackett, Bruce  
met.no Norwegian Meteorological Institute |
| 09:00 | Group for High Resolution Sea Surface Temperature (GHRSSST) research concerning high latitude SST  
Kaiser-Weiss, Andrea  
GHRSSST PO |
| 09:15 | Errors and correction of Metop/AVHRR derived SST in Arctic conditions  
Le Borgne, Pierre  
Météo-France |
| 09:30 | New OSI SAF geostationary SST chain validation results  
Marsouin, Anne  
Presented by: Pierre Le Borgne  
Météo-France |
| 09:45 | Status of OSI SAF Sea Ice products  
Eastwood, Steinar  
met.no Norwegian Meteorological Institute |
| 10:00 | COFFEE BREAK - POSTER/EXHIBIT VIEWING |

**SESSION 5 continued**  
**Satellite-based observations of the oceans, with emphasis on the Arctic regions**  
**Chairperson:** Lars-Anders Breivik  
met.no

<table>
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<tr>
<th>Time</th>
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</table>
| 11:15 | Sea ice edge from dual polarization C-band SAR imagery  
Similä, Markku  
FMI Finnish Meteorological Institute |
| 11:30 | Sea ice drift for the Ocean and Sea Ice SAF: Validation of the operational products  
Lavergne, Thomas  
met.no Norwegian Meteorological Institute |
| 11:45 | Arctic sea ice properties and changes from satellite data over the period 1982–2007  
Wang, Xuanji  
University of Wisconsin-Madison |

12:00 – 14:00  
LUNCH BREAK  

**“Arctic” Plenary in Congress Hall A**  
13:00 – 14:00  
“The changing Arctic climate: What and how do we know?”  
Dr. Olav Orheim  
Senior Advisor,  
Research Council of Norway  
Sandwiches provided for attendees
SESSION 4

ASSIMILATION OF SATELLITE DATA INTO GLOBAL AND REGIONAL NWP MODELS

Chairperson:
Bill Bell
ECMWF

08:30  Keynote Address
Data assimilation activities at the U.S. Joint Center for Satellite Data Assimilation (JCSDA)
Boukabara, Sid-Ahmed
Rensselaer
NOAA

09:00  Impacts of radiance assimilation in the JMA operational meso-scale analyses and forecasts
Kazumori, Masahiro
JMA Japan Meteorological Agency

09:15  Advances in the assimilation of satellite observations at the Met Office
Eyre, John
Met Office

09:30  Assimilation of ATOVS radiances at ECMWF
Di Tomaso, Enza
ECMWF

09:45  The assimilation of short-wave radiance data from AIRS and IASI at ECMWF
McNally, Anthony
Presented by: Eresmaa Reima
ECMWF

10:00  General Q & A

10:15  COFFEE BREAK - POSTER/EXHIBIT VIEWING

SESSION 4 continued

ASSIMILATION OF SATELLITE DATA INTO GLOBAL AND REGIONAL NWP MODELS

Chairperson:
Lars Peter Riishojgaard
JCSDA Joint Center for Satellite Data Assimilation

11:15  Preparations for the assessment and assimilation of JPSS data at ECMWF and the Met Office
Bell, Bill
ECMWF

11:30  Development of a mode based variational bias correction scheme for window channels on microwave and infrared sounders
Li, Dingmin
Met Office

11:45  The direct assimilation in the ECMWF 4D-Var system of principal component scores derived from IASI radiance spectra in the shortwave
Matricardi, Marco
ECMWF

12:00  Sensitivity of temperature and humidity retrievals to A-priori and Error covariance matrices
Antonelli, Paolo
University of Wisconsin-Madison

12:15  General Q & A

12:30 – 14:00  LUNCH BREAK

“Arctic” Plenary in Congress Hall A

13:00 – 14:00  “The changing Arctic climate: What and how do we know?”
Dr. Olav Orheim
Senior Advisor,
Research Council of Norway

Sandwiches provided for attendees
### SESSION 1 continued  
(CONGRESS HALL A)  
Current and future satellites, instruments and their applications  
Chairperson:  
William Lahoz  
NILU/ Météo-France

<table>
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<tr>
<th>Time</th>
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<th>Institute</th>
</tr>
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<tbody>
<tr>
<td>14:00</td>
<td>The GOES-R Geostationary Lightning Mapper (GLM)</td>
<td>Goodman, Steven</td>
<td>NOAA/NESDIS</td>
</tr>
</tbody>
</table>
NOAA/NWS/OCWWS/Training Division |
| 14:30 | Geostationary lightning monitoring with the Meteosat Third Generation Lightning Imager | Grandell, Jochen | EUMETSAT                                       |
| 14:45 | Preview of new characteristics for NPP VIIRS calibration product that are needed for understanding uses for data assimilation and imaging studies | Guenther, Bruce | Presented by: Privette, Jeff  
NOAA                                               |
| 15:00 | Sea-surface temperatures from the VIIRS on NPP                      | Minnett, Peter | University of Miami                             |
| 15:15 | NOAA-NESDIS Global Soil Moisture Product System (SMOPS)              | Zhan, Xiwu  
NOAA/NESDIS/STAR                               |
| 15:30 | Composition measurements by solar occultation: SCISAT/ACE and beyond | Walker, Kaley  
University of Toronto                          |
| 15:45 | COFFEE BREAK - POSTER/EXHIBIT VIEWING                               |           |                                                |
| 16:15 | Keynote Address: Monitoring air quality: the role of OSSEs in determining the future observing system | Lahoz, William | NILU/ Météo-France                             |
| 16:45 | GOES-R Advanced Baseline Imager (ABI): True-color capability         | Hillger, Don | Presented by: Heidinger, Andrew  
NOAA                                               |
| 17:00 | GOES-R proving ground: Demonstrating new products to ensure user readiness | Gurka, James | Presented by: Goodman, Steven  
NOAA/NESDIS                                       |
| 17:15 | The GOES-R proving ground at NOAA's hazardous weather testbed and storm prediction center | Siewert, Christopher | OU-CIMMS/ NOAA/SPC |
| 17:30 | General Q & A (15")                                                |           |                                                |

**CONFERENCE DINNER**  
Restaurant D/S Louise  
20:00 - 23:00
SESSION 6 continued  
(CONGRESS HALL B)  
Facilitating data access and utilisation

Chairperson:
Simon Elliott  
EUMETSAT

14:00  
**Keynote Address**  
Delivery of real-time satellite products through a Web Map Service and event notification to mobile devices  
Santek, David  
University of Wisconsin-Madison

14:15  
Contrasting cloud and grid access to EUMETSAT data  
Deighton, Hugh  
Logica

14:30  
Reconstructing the NWCSAF/PPS C libraries for processing NWP data and I/O in python  
Malm, Jakob  
Presented by: Hörnquist, Sara  
SMHI Swedish Meteorological and Hydrological Institute

14:45  
Pytroll - An open source python framework for satellite image processing  
Nielsen, Esben S.  
DMI Danish Meteorological Institute

15:00  
Towards building a high-performance and low-cost GPU-based satellite remote sensing processing and application infrastructure  
Huang, Hung Lung Allen  
University of Wisconsin-Madison

15:15  
Speeding up computing by use of GPUs  
Scheidgen, Peter  
VCS Aktiengesellschaft

15:30  
**COFFEE BREAK - POSTER/EXHIBIT VIEWING**

SESSION 6 continued  
(CONGRESS HALL B)  
Facilitating data access and utilisation

Chairperson:
Chris Little  
Met Office

16:15  
The newly redesigned CERES web pages and product ordering tool  
Doelling, David  
NASA Langley Research Center

16:30  
HDF5 for NPP sensor and environmental data records  
Denning, Michael  
Integrity Applications Incorporated

16:45  
An object-oriented software system to handle BUFR  
Karhula, Vesa  
Northern Lighthouse Ltd.

17:00  
Using the McIDAS-V scientific data software system to visualize and analyze NPP data  
Jasmin, Tommy  
University of Wisconsin-Madison

17:15  
General Q & A (30”)

**CONFERENCE DINNER**  
Restaurant D/S Louise  
20:00 - 23:00
### SESSION 5 continued
**Satellite-based observations of the oceans, with emphasis on the Arctic regions**
**Chairperson:** Andrea Kaiser-Weiss  
GHRSST PO

<table>
<thead>
<tr>
<th>Time</th>
<th>Title</th>
<th>Speaker(s)</th>
<th>Institution(s)</th>
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</thead>
</table>
| 14:00 | ASCAT full resolution backscatter product | Anderson, Craig  
EUMETSAT |
| 14:15 | High-resolution ASCAT winds near the coast | Verhoef, Anton  
KNMI Royal Netherlands Meteorological Institute |
| 14:30 | OCEANSAT-2 scatterometer winds and sea ice | Stoffelen, Ad  
KNMI Royal Netherlands Meteorological Institute |
| 14:45 | Marine scenes analysis of extreme events from Synthetic Aperture Radar imagery | Guitton, Gilles  
IFREMER Institut Français de Recherche pour l’Exploitation de la Mer |
| 15:00 | Recent upgrades of the SSALTO/DUACS multimission system | Faugere, Yannice  
CLS Collecte Localisation Satellites  
Presented by: Larnicol, Gilles  
CLS Collecte Localisation Satellites |
| 15:15 | Sea level in the Arctic ocean from satellite altimetry | Prandi, Pierre  
CLS Collecte Localisation Satellites  
Presented by: Larnicol, Gilles |
| 15:30 | Coffee Break - Poster/Exhibit Viewing |

### SESSION 5 continued
**Satellite-based observations of the oceans, with emphasis on the Arctic regions**
**Chairperson:** Ad Stoffelen  
KNMI Royal Netherlands Meteorological Institute

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</table>
| 16:15 | Ocean colour in polar areas | Soerensen, Kai  
NIVA Norwegian Institute for Water Research |
| 16:30 | First results from the in-orbit commissioning of the COMS Geostationary Ocean Colour Imager (GOCI) | Faure, François  
EADS Astrium |
| 16:45 | GOES-R ocean dynamics algorithm | Maturi, Eileen  
NOAA/NESDIS |
| 17:00 | General Q & A (15") |

**CONFERENCE DINNER**  
Restaurant D/S Louise  
20:00 – 23:00
**SESSION 4 continued**

(AUDITORIUM)

**Assimilation of satellite data into global and regional NWP models**

Chairperson:
Paolo Antonelli
University of Wisconsin-Madison

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<tr>
<td>14:00</td>
<td>Cloud detection output statistics for advanced infrared sounders in the ECMWF data assimilation system</td>
<td>Eresmaa, Reima</td>
<td>ECMWF</td>
</tr>
<tr>
<td>14:15</td>
<td>All-sky assimilation of radiances from microwave sounders at ECMWF</td>
<td>Geer, Alan</td>
<td>ECMWF</td>
</tr>
<tr>
<td>14:30</td>
<td>Remote sounding of temperature and humidity in the presence of clouds</td>
<td>Prates, Cristina</td>
<td>University of Reading</td>
</tr>
<tr>
<td>14:45</td>
<td>Assimilation experiments with the cloud-affected geostationary observations at ECMWF</td>
<td>Lupu, Cristina</td>
<td>ECMWF</td>
</tr>
<tr>
<td>15:00</td>
<td>General Q &amp; A</td>
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<tr>
<td>15:15</td>
<td><strong>COFFEE BREAK - POSTER/EXHIBIT VIEWING</strong></td>
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**CONFERENCE DINNER**

Restaurant D/S Louise

20:00 - 23:00
THURSDAY MORNING, 8 SEPTEMBER

Sessions 1, 2, 4, and 7 are in parallel

SESSION 1 continued                    (CONGRESS HALL A)
Current and future satellites, instruments and their applications
Chairperson:
Xavier Calbet
EUMETSAT

08:30  **Keynote Address**
Advances in atmospheric sounding
Smith, William
Hampton University/University of Wisconsin

09:00  **Moonlighting sensors: Dramatic improvements to satellite remote sensing capabilities at night with the VIIRS day/night band**
Hawkins, Jeff
Naval Research Laboratory

09:15  **Supporting GEO/GEOSS goals with McIDAS-V**
Achter, Thomas
University of Wisconsin-Madison

09:30  **Validation of GOME-2 reflectance and polarization measurements and ozone profile retrievals from GOME-2**
Liu, Xiong
Presented by: Nowlan, Caroline
Harvard-Smithsonian Center for Astrophysics

09:45  **Satellite monitoring of the 2010 Russian wildfires: Capitalizing on NASA's EOS platform and A-Train constellation**
Witte, Jacquelyn
Science Systems and Applications Inc.

10:00  **Retrieving multilayered cloud properties from the SEVIRI and MODIS data**
Chang, Fu-Lung
Science Systems and Applications Inc.

10:15  **Retrieval of temperature, humidity, and integrated hydrometeor contents from observations with the microwave package HAMP on the High Altitude and LOng range aircraft HALO**
Mech, Mario
IGM Institut für Geophysik und Meteorologie der Universität zu Köln

10:30  **COFFEE BREAK - POSTER/EXHIBIT VIEWING**

11:15  **Multi-sensor analysis of cloud-top heights in Sc-Cu transition regions**
Ludewig, Elke
MPI Max-Planck Institut für Meteorologie

11:30  **Radio occultation with GRAS: Current performance and future prospects**
von Engeln, Axel
EUMETSAT

11:45  **Validation of EUMETSAT SST products with the ISAR radiometer**
Wimmer, Werenfrid
National Oceanography Centre

12:00  **General Q & A**

12:15 - 14:00
**LUNCH BREAK**
<table>
<thead>
<tr>
<th>Time</th>
<th>Session 2 continued (CONGRESS HALL B)</th>
<th>Session 2 continued (CONGRESS HALL B)</th>
</tr>
</thead>
<tbody>
<tr>
<td>08:30</td>
<td>Keynote Address</td>
<td>HOAPS v3.2 thematic climate data records released from CM SAF</td>
</tr>
<tr>
<td></td>
<td>Climatological record of 3D cloud effect trends as measured by AVHRR and the consequences for Earth’s energy budget</td>
<td>Fennig, Karsten DWD Deutscher Wetterdienst</td>
</tr>
<tr>
<td></td>
<td>Foster, Michael University of Wisconsin-Madison</td>
<td></td>
</tr>
<tr>
<td>09:00</td>
<td>Towards a climatology of surface incoming solar radiation over the Benelux region by merging long time-series of Meteosat-derived estimations and ground-based measurements</td>
<td>Monitoring global precipitation: The role of satellite-derived estimates</td>
</tr>
<tr>
<td></td>
<td>Journée, Michel RMI Royal Meteorological Institute of Belgium</td>
<td>Arkin, Phillip University of Maryland</td>
</tr>
<tr>
<td>09:15</td>
<td>Homogeneity of the CM SAF surface radiation climatology</td>
<td>Evaluation of climate model ocean surface fluxes using HOAPS satellite data</td>
</tr>
<tr>
<td></td>
<td>Posselt, Rebekka Federal Office of Meteorology and Climatology MeteoSwiss</td>
<td>Anderson, Axel MPI Max-Planck Institut für Meteorologie</td>
</tr>
<tr>
<td>09:30</td>
<td>Recalibration of global solar radiation models based on MSG-DSSF data over Europe</td>
<td>NOAA's cloud product suite for JPSS VIIRS</td>
</tr>
<tr>
<td></td>
<td>Bojanowski, Jedrzej Joint Research Centre</td>
<td>Heidinger, Andrew NOAA</td>
</tr>
<tr>
<td>10:00</td>
<td>Application of 15 years of global atmospheric water vapor column observations from GOME-1/2 and SCIAMACHY for climate studies</td>
<td></td>
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<tr>
<td></td>
<td>Wagner, Thomas MPI Max-Planck Institut für Chemie</td>
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<tr>
<td>10:15</td>
<td>A reprocessing for climate of sea surface temperature from the along-track scanning radiometers</td>
<td></td>
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<td>Embury, Owen University of Edinburgh</td>
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<tr>
<td>10:30</td>
<td>COFFEE BREAK - POSTER/EXHIBIT VIEWING</td>
<td>12:15 – 14:00 LUNCH BREAK</td>
</tr>
</tbody>
</table>
THURSDAY MORNING, 8 SEPTEMBER

Sessions 1, 2, 4 and 7 are in parallel

SESSION 7
Atmospheric Composition

(CONGRESS HALL C)

Chairperson: Rüdiger Lang
EUMETSAT

08:30 Retrieval and validation of Metop/IASI CO profiles
De Wachter, Evelyn
OMP Observatoire Midi-Pyrénées

08:45 GOME-2 optical degradation as seen in level 2 data time series (2007-2010; BrO, NO2, HCHO, H2O, and O3)
Dikty, Sebastian
Institut für Umweltphysik/ Universität Bremen

09:00 Monitoring the spatial distribution and the evolution of tropospheric ozone with IASI in Europe and Eastern Asia: new possibilities for chemical and transport model evaluation
Dufour, Gaëlle
Presented by: Cuesta, Juan
LISA/ UPEC IPSL

09:15 A decade of observations of carbon monoxide from the measurements of pollution in the troposphere instrument (MOPIT) on Terra
Edwards, David
NCAR National Center for Atmospheric Research

09:30 Near real-time monitoring of atmospheric composition with IASI
George, Maya
UPMC Univ. Paris 6, CNRS/INSU, LATMOS-IPSL

09:45 NNORSY advanced version for synergistic GOME-2/IASI ozone profile retrieval
Kaifel, Anton
ZSW Zentrum für Sonnenenergie- und Wasserstoff-Forschung

10:00 Arctic tropospheric bromine activation as seen from space and how it is related to meteorology, sea ice properties and surface observations
Sihler, Holger
MPI Max-Planck Institut für Chemie

10:15 GOME-2: Geophysical routine and off-line validation, radiance inter-comparison, and operations
Lang, Rüdiger
EUMETSAT

10:30 COFFEE BREAK - POSTER/EXHIBIT VIEWING

SESSION 7 continued
Atmospheric Composition

(CONGRESS HALL C)

Chairperson: Rüdiger Lang
EUMETSAT

11:15 Ozone profile retrieval from Metop with GOME-2, IASI and AVHRR
Miles, Georgina
RAL Rutherford Appleton Laboratory

11:30 GOME-2 measurements of anthropogenic sulphur dioxide emissions
Nowlan, Caroline
Harvard-Smithsonian Center for Astrophysics

11:45 Measured and modelled variabilities of long-lived species over the Mediterranean basin
Ricaud, Philippe
Laboratoire d’Aérologie

12:00 Daily estimates of the tropospheric aerosol optical thickness over land surface from MSG geostationary observations
Roujean, Jean-Louis
Météo-France

12:15 General Q & A

12:30 - 14:00 LUNCH BREAK
### SESSION 4 continued (AUDITORIUM)

**Assimilation of satellite data into global and regional NWP models**

**Chairperson:**

Ad Stoffelen  
KNMI Royal Netherlands Meteorological Institute

<table>
<thead>
<tr>
<th>Time</th>
<th>Session Title</th>
<th>Presenter(s)</th>
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<tbody>
<tr>
<td>08:30</td>
<td><strong>Keynote Address</strong> Assimilation of satellite data for Arctic weather prediction at the Norwegian Meteorological Institute</td>
<td>Schyberg, Harald met.no Norwegian Meteorological Institute</td>
</tr>
<tr>
<td>09:00</td>
<td>Assimilation of IASI and AIRS radiances over land at the Met Office</td>
<td>Pavelin, Edward Met Office Presented by: Eyre, John Met Office</td>
</tr>
<tr>
<td>09:15</td>
<td>Land surface temperature to improve the assimilation of SEVIRI radiances over land</td>
<td>Guedj, Stephanie Météo-France</td>
</tr>
<tr>
<td>09:30</td>
<td>Remotely sensed soil moisture and snow data assimilation at ECMWF</td>
<td>Albergel, Clement ECMWF</td>
</tr>
<tr>
<td>09:45</td>
<td>OSSE-based assessment of the NWP impact of space-based wind lidars</td>
<td>Riishojgaard, Lars Peter JCSDA Joint Center for Satellite Data Assimilation</td>
</tr>
<tr>
<td>10:00</td>
<td>General Q &amp; A</td>
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<tr>
<td>10:15</td>
<td>COFFEE BREAK - POSTER/EXHIBIT VIEWING</td>
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**SESSION 4 continued (AUDITORIUM)**

**Assimilation of satellite data into global and regional NWP models**

**Chairperson:**

Harald Schyberg met.no Norwegian Meteorological Institute

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<tr>
<td>11:15</td>
<td>Using the expected error in the quality control of satellite-derived polar winds</td>
<td>Santek, David University of Wisconsin-Madison</td>
</tr>
<tr>
<td>11:30</td>
<td>Accounting for the characteristics of AMV observation errors in data assimilation</td>
<td>Salonen, Kirsti ECMWF</td>
</tr>
<tr>
<td>11:45</td>
<td>Feature tracked winds from MTG-IRS</td>
<td>Stewart, Laura Met Office</td>
</tr>
<tr>
<td>12:00</td>
<td>Impact of ASCAT scatterometer wind observations on operational HIRLAM</td>
<td>Marseille, Gert-Jan KNMI Royal Netherlands Meteorological Institute</td>
</tr>
<tr>
<td>12:15</td>
<td>General Q &amp; A</td>
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**12:30 - 14:00**

**LUNCH BREAK**
### SESSION 2  continued
(CONGRESS HALL B)
Monitoring climate and understanding climate processes based on satellite data
Chairperson:
Jeff Privette
NOAA

<table>
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<tr>
<th>Time</th>
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<th>Institution</th>
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<tr>
<td>14:00</td>
<td><strong>Keynote Address</strong>&lt;br&gt;Long-term satellite-based cloud properties derived within the EUMETSAT Satellite Application Facility on Climate Monitoring&lt;br&gt;Stengel, Martin&lt;br&gt;DWD Deutscher Wetterdienst</td>
<td>Martin Stengel</td>
<td>DWD Deutscher Wetterdienst</td>
</tr>
<tr>
<td>14:30</td>
<td><strong>A CERES-like cloud property data record from AVHRR data</strong>&lt;br&gt;Minnis, Patrick&lt;br&gt;NASA Langley Research Center</td>
<td>Patrick Minnis</td>
<td>NASA Langley Research Center</td>
</tr>
<tr>
<td>14:45</td>
<td><strong>The MODIS cloud 10-year data record and uncertainty analysis</strong>&lt;br&gt;Maddux, Brent&lt;br&gt;University of Wisconsin-Madison</td>
<td>Brent Maddux</td>
<td>University of Wisconsin-Madison</td>
</tr>
<tr>
<td>15:00</td>
<td><strong>COFFEE BREAK – POSTER/EXHIBIT VIEWING</strong></td>
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<tr>
<td>16:15</td>
<td><strong>Long-term aerosol climate data records from SEAWIFS over land and ocean</strong>&lt;br&gt;Hsu, Christina&lt;br&gt;NASA Goddard Space Flight Center</td>
<td>Christina Hsu</td>
<td>NASA Goddard Space Flight Center</td>
</tr>
<tr>
<td>16:30</td>
<td><strong>Satellite observations from SEVIRI of Saharan dust over West Africa, within the context of the Fennec project</strong>&lt;br&gt;Banks, Jamie&lt;br&gt;Imperial College London</td>
<td>Jamie Banks</td>
<td>Imperial College London</td>
</tr>
<tr>
<td>16:45</td>
<td><strong>Mineral dust retrieval from IASI over land and ocean and its benefits for dust-cloud-interaction research</strong>&lt;br&gt;Klueser, Lars&lt;br&gt;DLR Deutsches Zentrum für Luft- und Raumfahrt</td>
<td>Lars Klueser</td>
<td>DLR Deutsches Zentrum für Luft- und Raumfahrt</td>
</tr>
<tr>
<td>17:00</td>
<td><strong>10-years satellite-based snow cover climatology of Switzerland</strong>&lt;br&gt;Seiz, Gabriela&lt;br&gt;Federal Office of Meteorology and Climatology MeteoSwiss</td>
<td>Gabriela Seiz</td>
<td>Federal Office of Meteorology and Climatology MeteoSwiss</td>
</tr>
<tr>
<td>17:15</td>
<td><strong>General Q &amp; A (15&quot;)</strong></td>
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### 14:00 - 18:00

**Workshop**
GV user consultation
Room “ODIN”
Chairperson: Marc Schröder
DWD Deutscher Wetterdienst
### SESSION 7 continued (CONGRESS HALL C)

#### Atmospheric Composition

**Chairperson:**
David Edwards  
NCAR National Center for Atmospheric Research

<table>
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<tr>
<th>Time</th>
<th>Title</th>
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</table>
| 14:00  | CO total columns retrieved from three IR space-based sounders over 2010 Russian wild fires: comparison with two ground-based spectrometers and surface monitors | Yurganov, Leonid  
JCET Joint Center for Earth Systems Technology  
Presented by: August, Thomas  
EUMETSAT |
| 14:15  | The retrieval of aerosol optical depth over land based on time series technique using MSG/SERIVI | Xue, Yong  
Chinese Academy of Sciences |
| 14:30  | Study of biomass burning emissions in Africa with MetOp-A/IASI                            | Thonat, Thibaud  
LMD-CNRS Laboratoire de Météorologie Dynamique |
| 14:45  | Megacity NOx emissions and lifetimes probed from space                                    | Beirle, Steffen  
MPI Max-Planck Institut für Chemie |
| 15:00  | Satellite observations of changes in air quality at mega-events in China                  | Hao, Nan  
DLR-IMF Deutsches Zentrum für Luft- und Raumfahrt/ Institut für Methodik der Fernerkundung |
| 15:15  | **COFFEE BREAK - POSTER/EXHIBIT VIEWING**                                                |                                             |
| 16:15  | Validation of satellite observations using mobile MAX-DOAS observations                  | Shaiganfar, Reza  
MPI Max-Planck Institut für Chemie |
| 16:30  | Operational O3M-SAF trace gas column products: GOME-2 NO2, BrO, SO2, CH2O, and H2O       | Valks, Pieter  
DLR-IMF Deutsches Zentrum für Luft- und Raumfahrt/ Institut für Methodik der Fernerkundung |
| 16:45  | A study of UTLS dynamics over the Tibetan Plateau using assimilated GOME2 ozone profiles | van Peet, Jacob  
KNMI Royal Netherlands Meteorological Institute |
| 17:00  | Retrieval of methane distributions from IASI Waterfall, Alison                            | Waterfall, Alison  
RAL Rutherford Appleton Laboratory |
| 17:15  | General Q & A (15")                                                                     |                                             |
THURSDAY AFTERNOON, 8 SEPTEMBER

Sessions 2, 4 and 7 are in parallel

SESSION 4 continued

Assimilation of satellite data into global and regional NWP models

Chairperson:
John Eyre
Met Office

(AUDITORIUM)

14:00  ADM-AEOLUS - ESA’s wind LIDAR mission and its contribution to Numerical Weather Prediction
       Straume-Lindner, Anne Grete
       ESA/ESTEC

14:15  Assimilation of continuously-pulsed-mode Aeolus winds in NWP
       Stoffelen, Ad
       KNMI Royal Netherlands Meteorological Institute

14:30  Assimilation of fire radiative power observations for atmospheric smoke plume monitoring and forecasting
       Kaiser, Johannes W.
       ECMWF

14:45  JMA’s in-house derivation of METEOSAT-7 AMV and its impact on the JMA NWP
       Shimoji, Kazuki
       JMA Japan Meteorological Agency

15:00  General Q & A

15:15  COFFEE BREAK – POSTER/EXHIBIT VIEWING

14:00 – 18:00

Workshop
GV user consultation

Room “ODIN”

Chairperson: Marc Schröder
DWD Deutscher Wetterdienst
FRIDAY MORNING, 9 SEPTEMBER

Sessions 2 and 7 are in parallel

SESSION 2 continued (CONGRESS HALL B)
Monitoring climate and understanding climate processes based on satellite data
Chairperson:
Rainer Hollmann
DWD Deutscher Wetterdienst

08:30 User-oriented cloud masking: Ways to increase the confidence in cloud screening
Karlsson, Karl-Göran
Presented by: Johansson, Erik
SMHI Swedish Meteorological and Hydrological Institute

08:45 A probabilistic cloud mask for first and second generation Meteosat
Stöckli, Reto
MeteoSwiss

09:00 Optical properties of thin cirrus derived from the infrared channels of SEVIRI
Kox, Stephan
DLR/ IPA Deutsches Zentrum für Luft- und Raumfahrt/ Institut für Physik der Atmosphäre

09:15 PCFLOS and other global cloud statistics from CloudSat and CALIPSO cloud observations
Reinke, Donald
CIRA Cooperative Institute for Research in the Atmosphere/ Colorado State University

09:30 Evaluation of modelled ice and snow water content with CloudSat
Reitter, Sonja
Universität zu Köln

09:45 A novel approach for the evaluation of liquid cloud properties retrievals
Placidi, Simone
Delft University of Technology

10:00 Accounting for 3D radiative effects in cloud property retrievals from reflected solar radiation
Deneke, Hartwig
Leibniz Institute for Tropospheric Research

10:15 COFFEE BREAK - POSTER/EXHIBIT VIEWING

SESSION 2 continued (CONGRESS HALL B)
Monitoring climate and understanding climate processes based on satellite data
Chairperson:
Martin Stengel
DWD Deutscher Wetterdienst

11:15 Validation of present-day cloud retrieval methods
Hamann, Ulrich
KNMI Royal Netherlands Meteorological Institute

11:30 Effect of undetected broken clouds on the MSG-SEVIRI clear sky radiances and the cloud radiative effect
Hanschmann, Timo
Leibniz Institute for Tropospheric Research

11:45 Evaluation of model predicted top-of-atmosphere radiation and cloud parameters over Africa with observations from GERB and SEVIRI
Greuell, Wouter
KNMI Royal Netherlands Meteorological Institute

12:00 Estimation of outgoing longwave radiation from IASI radiance measurements
Sun, Fengying
Presented by: Goldberg, Mitchell
NOAA/NESDIS

12:15 General Q & A (15”)

12:45 - 13:15 CLOSE-OUT CEREMONY
CONGRESS HALL C
**FRIDAY MORNING, 9 SEPTEMBER**

Sessions 2 and 7 are in parallel

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<td><strong>Chairperson:</strong></td>
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<tr>
<td>Pieternel Levelt</td>
<td>KNMI Royal Netherlands Meteorological Institute</td>
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<tr>
<th><strong>08:30</strong></th>
<th>Volcanic ash and sulphur dioxide retrievals from SEVIRI infrared measurements</th>
<th>Prata, Fred NILU Norwegian Institute for Air Research</th>
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<tbody>
<tr>
<td><strong>08:45</strong></td>
<td>Monitoring of volcanic eruptions and determination of SO2 plume height from GOME-2 measurements</td>
<td>Rix, Meike Presented by Valks, Pieter DLR Deutsches Zentrum für Luft- und Raumfahrt</td>
</tr>
<tr>
<td><strong>09:00</strong></td>
<td>A multi-sensor alert system for volcanic emissions using satellite SO2 and ash measurements</td>
<td>Theys, Nicolas IASB-BIRA Belgian Institute for Space Aeronomy</td>
</tr>
<tr>
<td><strong>09:15</strong></td>
<td>SO2 plume height retrieval from direct fitting of GOME-2 backscattered radianc measurements</td>
<td>van Gent, Jeroen IASB-BIRA Belgian Institute for Space Aeronomy</td>
</tr>
<tr>
<td><strong>09:30</strong></td>
<td>Studying trends in aerosol presence using the Absorbing Aerosol Index (AAI) of GOME-1, SCIAMACHY, and GOME-2</td>
<td>Tilstra, Lieuwe KNMI Royal Netherlands Meteorological Institute</td>
</tr>
<tr>
<td><strong>09:45</strong></td>
<td>Observation of coincident sulphur dioxide and bromine monoxide during volcanic eruptions by the GOME instrument</td>
<td>Hörmann, Christoph Presented by: Shiher, Holger MPI Max-Planck Institut für Chemie</td>
</tr>
<tr>
<td><strong>10:00</strong></td>
<td>Detection of ash cloud erupted from Eyjafjallajökull by using MSG SEVIRI data</td>
<td>Ertekin, Aydin TSM5 Turkish State Meteorological Service</td>
</tr>
<tr>
<td><strong>10:15</strong></td>
<td>Use of radience value from MSG SEVIRI and MTSAT data: application for the monitoring on volcanic area</td>
<td>Musacchio, Massimo Istituto Nazionale di Geofisica e Vulcanologia</td>
</tr>
<tr>
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<tr>
<td>Fred Prata</td>
<td>NILU Norwegian Institute for Air Research</td>
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</table>

| **11:15** | Monitoring volcanic ash and gases using Meteosat and comparisons with NAME model forecasts at the London VAAC | Saunders, Roger Met Office |
| **11:30** | Contribution of Sentinel 4, 5 and s5p for further understanding of air quality - climate and ozone layer - climate interactions | Levelt, Pieternel KNMI Royal Netherlands Meteorological Institute |
| **11:45** | Total column ozone ECV: Merging GOME-2, SCIAMACHY, GOME and perspectives for Sentinels -5p, -4 and -5 | Loyola, Diego Presented by Coldewey-Egbers, Melanie DLR-IMF Deutsches Zentrum für Luft- und Raumfahrt/ Institut für Methodik der Fernerkundung |
| **12:00** | Next generation Aura/OMI NO2 and SO2 products | Krotkov, Nickolay NASA Goddard Space Flight Center |
| **12:15** | Retrieval of CO from SWIR radianc measurements of the Sentinel 5 mission and its precursor | Landgraf, Jochen SRON Netherlands Institute for Space Research |
| **12:30** | General Q & A (15") | |

**12:45 - 13:15**

CLOSE-OUT CEREMONY
Special thanks go to:

SPC Members

Bill Bell (ECMWF)
Lars Anders Breivik (met.no)
Adam Dybbroe (SMHI)
Simon Elliott (EUMETSAT)
John Eyre (Met Office)
Steven Goodman (NOAA/NESDIS)
Seppo Hassinen (FMI)
Rainer Hollmann (DWD)
Dieter Klaes (EUMETSAT)
Chris Little (Met Office)
John Privette (NOAA)
Hervé Roquet (Météo-France)
Johannes Schmetz (EUMETSAT)
Christopher Velden (CIMSS/University of Wisconsin-Madison)

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