**CONFERENCE SESSIONS GUIDE**

<table>
<thead>
<tr>
<th>SESSION</th>
<th>Topic</th>
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<tbody>
<tr>
<td>1</td>
<td>Current and future satellites, instruments and their applications</td>
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<tr>
<td>2</td>
<td>Use of satellite data for nowcasting and short-range NWP</td>
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<tr>
<td>3</td>
<td>The Arctic challenge</td>
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<tr>
<td>4</td>
<td>Marine meteorology and oceanography</td>
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<tr>
<td>5</td>
<td>The role of satellite data records in climate services</td>
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<tr>
<td>6</td>
<td>Space based atmospheric composition measurements: forecasting air quality</td>
</tr>
</tbody>
</table>
# Conference Overview

## Mondy 26 Sep

<table>
<thead>
<tr>
<th>Time</th>
<th>Event</th>
<th>Location</th>
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<tbody>
<tr>
<td>08:30</td>
<td>Welcome Coffee and Registration</td>
<td>Atrium/Foyer</td>
</tr>
<tr>
<td>09:00</td>
<td>Welcome Address</td>
<td>Spectrum A</td>
</tr>
<tr>
<td>09:15</td>
<td>Opening Plenary</td>
<td>Spectrum A</td>
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<tr>
<td>10:30</td>
<td>Poster Session/COFFEE BREAK</td>
<td>Spectrum B/Foyer</td>
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<tr>
<td>12:30</td>
<td>Lunch Break</td>
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<tr>
<td>14:00</td>
<td>Keynote Address</td>
<td>Spectrum A</td>
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<tr>
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<td>Session 1</td>
<td>Spectrum A</td>
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<tr>
<td>15:45</td>
<td>Poster Session/COFFEE BREAK</td>
<td>Spectrum B/Foyer</td>
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<tr>
<td>16:30</td>
<td>Session 1</td>
<td>Spectrum A</td>
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<td>18:00</td>
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## Tuesday 27 Sep

<table>
<thead>
<tr>
<th>Time</th>
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<tbody>
<tr>
<td>09:00</td>
<td>Keynote Address</td>
<td>Spectrum A</td>
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<td>10:30</td>
<td>Session 1</td>
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## Wednesday 28 Sep

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<tr>
<th>Time</th>
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### Networking Events

**Sunday 25 Sep**

- **Welcome Drink**
  - Darmstadtium Congress Centre
  - 18:00 - 19:30
  - Early registration will take place on Sunday 25 September as from 16:00 in the foyer of the Darmstadtium Congress Centre and is followed by a Welcome Drink from 18:00-19:30
  - Sponsored by Airbus Defence & Space

**Monday 26 Sep**

- **Icebreaker**
  - EUMETSAT Headquarters
  - 18:30 - 21:30
  - Buses will leave from the conference venue at 18:00. Buses for the return transfer will leave from EUMETSAT at 21:30 and take participants back to the Darmstadtium Congress Centre

**Wednesday 28 Sep**

- **Conference Dinner**
  - Staatstheater Darmstadt
  - 19:30 - 23:00
  - The dinner venue is located in the heart of Darmstadt, at the end of the pedestrian area, and just 10 minutes walking distance from the Darmstadtium Congress Centre
EUMETSAT WOULD LIKE TO THANK THE FOLLOWING SPONSORS:

- Airbus Defence & Space
- HE Space Operations
- Kongsberg Spaceteq
- SCISYS Deutschland GmbH
- Serco Services GmbH
<table>
<thead>
<tr>
<th>Day</th>
<th>Time</th>
<th>Session</th>
<th>Presenter(s)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Monday</td>
<td>14:00</td>
<td>A perspective on the history of satellite observations - from Uncalibrated Flying Objects (UFOs) to Finely Tuned Sensors (FTSs)</td>
<td>Paul Menzel, CIMSS, University of Wisconsin-Madison</td>
</tr>
<tr>
<td>Tuesday</td>
<td>09:00</td>
<td>Climate monitoring and the relevance of satellite data</td>
<td>Graeme Stephens, NASA, JPL</td>
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<td></td>
<td>14:00</td>
<td>Marine Services and the need for satellite data</td>
<td>Pierre Bahurel, Mercator Ocean</td>
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<tr>
<td>Wednesday</td>
<td>09:00</td>
<td>The Arctic Challenge</td>
<td>Guennadi Kroupnik, Canadian Space Agency</td>
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<tr>
<td></td>
<td>14:00</td>
<td>Future perspectives for Numerical Weather Prediction</td>
<td>Roland Potthast, DWD Deutscher Wetterdienst</td>
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<td></td>
<td></td>
<td>(Including short-range NWP)</td>
<td></td>
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<tr>
<td>Thursday</td>
<td>09:00</td>
<td>Atmospheric composition services and monitoring of climate forcings</td>
<td>Vincent-Henri Peuch, ECMWF</td>
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<td></td>
<td>14:00</td>
<td>Panel Discussion: 30 years of service with EUMETSAT missions:</td>
<td>Declan Murphy</td>
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<td></td>
<td></td>
<td>taking stock and looking ahead</td>
<td>Pierre Bahurel, Mercator Ocean</td>
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<td></td>
<td>Guennadi Kroupnik, Canadian Space Agency</td>
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<td></td>
<td>Paul Menzel, CIMSS, University of Wisconsin-Madison</td>
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<td>Vincent-Henri Peuch, ECMWF</td>
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<td>Roland Potthast, DWD Deutscher Wetterdienst</td>
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<td></td>
<td>Alain Ratier, EUMETSAT</td>
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<td>Graeme Stephens, NASA, JPL</td>
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</tbody>
</table>
CONFERENCE OPENING

08:30 WELCOME COFFEE AND REGISTRATION
Plenary Auditorium

09:00 OFFICIAL ADDRESS
Alain Ratier, Director-General, EUMETSAT
Clemens Kaiser, Director of Programme Preparation and Development, EUMETSAT

09:30 NOAA CURRENT AND FUTURE ACTIVITIES (TBC)
Ajay Mehta, Deputy Director of NOAA/JPSS

09:45 UPDATES ON CMA METEOROLOGICAL SATELLITE PROGRAMMES
Peng Zhang, Deputy Director-General, NSMC/CMA

10:00 CURRENT STATUS AND FUTURE PLAN: KMA SPACE PROGRAMME
Hoon Park, Director-General, NMSC/KMA

10:15 CONFERENCE ANNOUNCEMENTS
Lorna Putze, Manager Communications and Events, EUMETSAT

10:30 POSTER SESSION/COFFEE BREAK
Spectrum B/Foyer

ORAL PRESENTATIONS

CURRENT AND FUTURE SATELLITES, INSTRUMENTS AND THEIR APPLICATIONS
Chair: Lionel de la Taille (EUMETSAT)

11:15 Launch of the First Satellite in ESA’s Series of Copernicus Atmosphere Monitoring Service (CAMS) Related Missions
Paul Ingmann, ESA/ESTEC

11:30 Current and Future Status of the JAXA’s Missions for Water and Climate
Teruyuki Nakajima, JAXA Japan Aerospace Exploration Agency

12:00 Contributions of Current and Future Satellite Programmes to Societal Benefits
Mitch Goldberg, NOAA/NESDIS/STAR

12:30 The CEOS Initiative on Non-meteorological Applications for Next Generation Geostationary Satellites: Objectives, Accomplishments and Status
Satya Kalluri, NOAA/NESDIS/STAR

USE OF SATELLITE DATA FOR NOWCASTING AND SHORT-RANGE NWP
Chair: Kenneth Holmlund (EUMETSAT)

Carl Dierking, University of Alaska

11:30 DBNet – Fast processing and delivery of regionally acquired LEO satellite data
Mikael Rattenborg, World Meteorological Organisation (WMO)

11:45 Experiences with 3D Visualization of Near Real Time MTG-IRS Demonstration Data
Michal Kouteck, KNMI Royal Netherlands Meteorological Institute

12:00 McIDAS-V and –X: Visualization and data analysis for S-NPP/JPSS, Himawari and GOES-R
William Straka III, CIMSS/SSEC, University of Wisconsin-Madison

12:15 MetcapPlus Package as a Nowcasting Tool
Kemal Dokuyucu, Turkish Meteorological Service

12:30 SATIN–Satellite driven nowcasting system
Ingo Meirolf-Mautner, ZAMG Zentralanstalt für Meteorologie und Geodynamik

12:45 LUNCH BREAK
## MARINE METEOROLOGY AND OCEANOGRAPHY

**Chair:** Julia Figa-Saldana (EUMETSAT)

<table>
<thead>
<tr>
<th>Time</th>
<th>Presentation</th>
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<tbody>
<tr>
<td>11:15</td>
<td><strong>Keynote address</strong>&lt;br&gt;Observing El Niño From Space&lt;br&gt;Tong Lee, JPL Jet Propulsion Laboratory</td>
</tr>
<tr>
<td>11:45</td>
<td><strong>Ocean Vector Winds in Storms from the SMAP L-Band Radiometer</strong>&lt;br&gt;Thomas Meissner, Remote Sensing Systems</td>
</tr>
<tr>
<td>12:00</td>
<td><strong>Operational Use of Sea Surface Winds from Microwave Satellites to Analyze Tropical Cyclones’ Intensity</strong>&lt;br&gt;Jun-Dong Park, NMSC-KMA National Meteorological Satellite Centre/Korea Meteorological Administration</td>
</tr>
<tr>
<td>12:15</td>
<td><strong>Global Observation of Wind Jet Diurnal Variability using RapidScat and TMI</strong>&lt;br&gt;Ernesto Rodriguez, JPL Jet Propulsion Laboratory</td>
</tr>
<tr>
<td>12:30</td>
<td><strong>The 2015–16 El Niño - birth, evolution and teleconnections from scatterometer observations of the ocean surface winds</strong>&lt;br&gt;Svetla Hristova-Veleva, JPL Jet Propulsion Laboratory</td>
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## THE ROLE OF SATELLITE DATA RECORDS IN CLIMATE SERVICES

**Chairs:** Alan Belward (JRC) - Paul Menzel (CIMSS University of Wisconsin-Madison)

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<th>Time</th>
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<tr>
<td>11:15</td>
<td><strong>The Joint CEOS/CGMS Working Group on Climate: A Backbone of International Coordination</strong>&lt;br&gt;Jörg Schulz, EUMETSAT</td>
</tr>
<tr>
<td>11:30</td>
<td><strong>New multi-decadal global cloud climatology with associated uncertainties based on AVHRR and MODIS observations</strong>&lt;br&gt;Cornelia Schlundt, DWD Deutscher Wetterdienst</td>
</tr>
<tr>
<td>11:45</td>
<td><strong>A Fundamental Climate Data Record of SSM/I, SSMIS, and SMMR brightness temperatures</strong>&lt;br&gt;Karsten Fennig, DWD Deutscher Wetterdienst</td>
</tr>
<tr>
<td>12:00</td>
<td><strong>Three decades of METEOSAT IR and WV channel FCDRs for climate monitoring</strong>&lt;br&gt;Viju John, EUMETSAT</td>
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<tr>
<td>12:15</td>
<td><strong>A Fundamental Climate Data Record that accounts for Meteosat First Generation visible band spectral response changes</strong>&lt;br&gt;Frank Rüthrich, EUMETSAT</td>
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<td>12:30</td>
<td><strong>Recovery of MVIRI/VIS band spectral response</strong>&lt;br&gt;Yves Govaerts, Rayference</td>
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**LUNCH BREAK**
### ORAL PRESENTATIONS

**14.00**  
**KEYNOTE ADDRESS:** Spectrum A  
**A perspective on the history of satellite observations - from Uncalibrated Flying Objects (UFOs) to Finely Tuned Sensors (FTSs)**  
Paul Menzel, CIMSS, University of Wisconsin-Madison

### CURRENT AND FUTURE SATELLITES, INSTRUMENTS AND THEIR APPLICATIONS

<table>
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<tr>
<th>Time</th>
<th>Presentation</th>
<th>Speaker/Institution</th>
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<tbody>
<tr>
<td>14:30</td>
<td><strong>50 Years of Satellite Data Reception at DWD – from Photo paper to NinJo and TriVis</strong></td>
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<td></td>
<td>Jörg Asmus, DWD Deutscher Wetterdienst</td>
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<tr>
<td>14:45</td>
<td><strong>Joint polar satellite system: the united states next generation civilian polar orbiting environmental satellite system</strong></td>
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<td>Ajay Mehta, NOAA JPSS Program Office</td>
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<tr>
<td>15:00</td>
<td><strong>The Vision of Space-based component of WMO Integrated Global Observing Systems (WIGOS) in 2040 – Anticipating Requirements and New Space Technologies.</strong></td>
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<td>Wenjian Zhang, World Meteorological Organisation (WMO)</td>
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<tr>
<td>15:15</td>
<td><strong>Keynote address</strong></td>
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<td>Using the WMO OSCAR tool for evaluation and gap analysis of space-based observation capabilities</td>
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<td>Stephan Bojinski, World Meteorological Organisation (WMO)</td>
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### USE OF SATELLITE DATA FOR NOWCASTING AND SHORT-RANGE NWP

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<tr>
<td>14:30</td>
<td><strong>Keynote address</strong></td>
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<td>Development of all-sky microwave radiance assimilation for JMA global NWP system</td>
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<td>Masahiro Kazumori, JMA Japan Meteorological Agency</td>
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<tr>
<td>15:00</td>
<td><strong>Assimilation of FY-3B/FY-3C MWHS-1 and MWHS-2 at the Met Office</strong></td>
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<td>Fabien Carminati, Met Office</td>
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<td>15:15</td>
<td><strong>Systematic biases in clouds and humidity between model and observations identified through the assimilation of microwave imagery</strong></td>
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<td>Katrin Lonitz, ECMWF</td>
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<td>15:30</td>
<td><strong>Initial Impact Assessment of the new Real-time Operational VIIRS Green Vegetation Fraction Product on NCEP Model Performance</strong></td>
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<td>Ivan Csiszar, NOAA/NESDIS/STAR</td>
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### POSTER SESSION/COFFEE BREAK

**15:45**  
**POSTER SESSION/COFFEE BREAK**  
**Spectrum B/Foyer**

### CURRENT AND FUTURE SATELLITES, INSTRUMENTS AND THEIR APPLICATIONS

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<tr>
<td>16:30</td>
<td><strong>Jason-3 Calibration and Validation Results</strong></td>
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<td>Remko Scharroo, EUROMETSAT</td>
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<tr>
<td>16:45</td>
<td><strong>ESA’s Soil Moisture and Ocean Salinity Mission – Status and new developments</strong></td>
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<td>Susanne Mecklenburg, ESA/ESRIN</td>
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<td>17:00</td>
<td><strong>The sentinel-3 mission: Status and update on land &amp; marine products</strong></td>
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<td>Susanne Mecklenburg, ESA/ESRIN</td>
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<td>17:15</td>
<td><strong>First Results on Sentinel-3A STM Data Products and Mission Performance over all surfaces</strong></td>
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<td>Matthias Raynal, CLS Collecte Localisation Satellites</td>
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<td>17:30</td>
<td><strong>The S3 Mission Performance Centre results after first months of activities: focus on the optical mission</strong></td>
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<td>Jerome Bruniquel, ACRI-ST</td>
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<tr>
<td>17:45</td>
<td><strong>Sentinel-3 SLSTR Pre-Launch and Early On-Orbit Calibration and Characterization Results</strong></td>
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<td>Dave Smith, STFC/UK Science and Technology Facilities Council</td>
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### USE OF SATELLITE DATA FOR NOWCASTING AND SHORT-RANGE NWP

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<td><strong>Design of a double-layer cloud motion vector field using cloud top height from SAF NWC for solar irradiance forecasting</strong></td>
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<td>Sylvain Cros, Reuniwatt</td>
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<tr>
<td>16:45</td>
<td><strong>EXTRACTION OF 3D WIND PROFILES FROM IASI LEVEL2 PRODUCTS</strong></td>
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<td>Olivier Hautecoeur, EUROMETSAT, Metis GmbH</td>
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<td>17:00</td>
<td><strong>Assimilation and forecast impact of the Leo/Geo AMVs in the high-latitude data-gap corridor</strong></td>
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<td>David Santek, CIMSS University of Wisconsin-Madison</td>
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<tr>
<td>17:15</td>
<td><strong>Himawari-8 Rapid Scan Atmospheric Motion Vector and Its Application to Monitoring, Nowcasting and Short-Range NWP at Japan Meteorological Agency</strong></td>
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<td>Kazuki Shimoji, JMA Japan Meteorological Agency, Meteorological Satellite Center</td>
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<tr>
<td>17:30</td>
<td><strong>Assessment of Himawari-8 AMV data in the ECWMF system</strong></td>
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<td>Katie Lean, ECMWF</td>
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### ICEBREAKER

**18:00**  
**ICEBREAKER**  
**EUMETSAT Headquarters**
### Marine Meteorology and Oceanography

**Chair:** Tong Lee (JPL)

<table>
<thead>
<tr>
<th>Time</th>
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<tr>
<td>14:30</td>
<td><strong>QuikSCAT Winds 2010-2016</strong>&lt;br&gt;Bryan Stiles, JPL Jet Propulsion Laboratory, California Institute of Technology</td>
</tr>
<tr>
<td>14:45</td>
<td><strong>Assessment of the Ku-band scatterometer wind quality</strong>&lt;br&gt;Wenming Lin, ICM/CSIC Institut de Ciències del Mar</td>
</tr>
<tr>
<td>15:00</td>
<td><strong>An assessment of the ASCAT-6.25 product during summertime Iberian low-level coastal jet events</strong>&lt;br&gt;Isabel Monteiro, Instituto Português do Mar e da Atmosfera (IPMA)</td>
</tr>
<tr>
<td>15:15</td>
<td><strong>5-km scale winds for ASCAT?</strong>&lt;br&gt;Ad Stoffelen, KNMI Royal Netherlands Meteorological Institute</td>
</tr>
<tr>
<td>15:30</td>
<td><strong>Statistics of small-scale convective structures near oceanic Mesoscale Convective Systems using ASCAT winds and MSG rain</strong>&lt;br&gt;Gregory King, ICM/CSIC Institut de Ciències del Mar</td>
</tr>
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### The Role of Satellite Data Records in Climate Services

**Chair:** Martin Stengel (DWD)

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<tr>
<td>14:30</td>
<td><strong>Inter-Calibration of Meteosat/SEVIRI infrared channels with Metop/IASI - An operational component of GSICS</strong>&lt;br&gt;Tim Hewison, EUMETSAT</td>
</tr>
<tr>
<td>14:45</td>
<td><strong>Global climate data records from reprocessed radio occultation data</strong>&lt;br&gt;Kent B. Lauritsen, Danish Meteorological Institute</td>
</tr>
<tr>
<td>15:00</td>
<td><strong>SCOPE-CM: a transition from research to operations for climate products</strong>&lt;br&gt;Marie Doutriaux-Boucher, EUMETSAT</td>
</tr>
<tr>
<td>15:15</td>
<td><strong>Current results and future directions in atmospheric research enabled by the Atmospheric Infrared Sounder (AIRS)</strong>&lt;br&gt;Bjorn Lambregtsen, JPL Jet Propulsion Laboratory, California Institute of Technology</td>
</tr>
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### Poster Session/COFFEE BREAK

**Spectrum B/Foyer**

### Marine Meteorology and Oceanography

**Chair:** Ernesto Rodriguez (JPL)

<table>
<thead>
<tr>
<th>Time</th>
<th>Session</th>
</tr>
</thead>
<tbody>
<tr>
<td>16:30</td>
<td><strong>Sea Surface Temperature from IASI: OSI SAF L2P and analyses using SQUAM and OSTIA</strong>&lt;br&gt;Anne O’Carrol, EUMETSAT</td>
</tr>
<tr>
<td>16:45</td>
<td><strong>OSI SAF Sea Surface Temperature reprocessing of MSG/SEVIRI archive</strong>&lt;br&gt;Stéphane Saux Picart, Météo-France</td>
</tr>
<tr>
<td>17:00</td>
<td><strong>The random uncertainty of Sea Surface Temperature observations from drifting buoys</strong>&lt;br&gt;Christofores Tsamalis, Met Office</td>
</tr>
<tr>
<td>17:15</td>
<td><strong>An intercomparison of atmospheric correction methods for aquaculture applications of MSG/SEVIRI data</strong>&lt;br&gt;Quinten Vanhelmont, Royal Belgian Institute for Natural Sciences</td>
</tr>
<tr>
<td>17:30</td>
<td><strong>Second EUMeTrain - Eumetcal Marine Satellite Course</strong>&lt;br&gt;Isabel T. Monteiro, Instituto Português do Mar e da Atmosfera (IPMA)</td>
</tr>
<tr>
<td>17:45</td>
<td><strong>Felyx and Naiad: open source colocastion solutions for satellite cal/val and intercomparison</strong>&lt;br&gt;Jean-François Piolle, IFREMER</td>
</tr>
</tbody>
</table>

### Icebreaker

**EUMETSAT Headquarters**

<table>
<thead>
<tr>
<th>Time</th>
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</thead>
<tbody>
<tr>
<td>18:00</td>
<td><strong>Representativeness of Total Column Water Vapour Retrievals from Instruments on Polar Orbiting Satellites</strong>&lt;br&gt;Rene Preusker, Free University Berlin</td>
</tr>
<tr>
<td>18:30</td>
<td><strong>Decadal Variability of Total Column Water Vapour above land surfaces derived from MERIS and GNSS observations</strong>&lt;br&gt;Juergen Fischer, Free University Berlin/Institute for Space Sciences</td>
</tr>
<tr>
<td>21:30</td>
<td><strong>Advanced Infra-Red Water Vapour Estimator (AIRWAVE)</strong>&lt;br&gt;Gregory King, ICM/CSIC Institut de Ciències del Mar</td>
</tr>
</tbody>
</table>

### Keynote Address

**Spectrum A**

**Chair:** Tong Lee (JPL)

**Title:** A perspective on the history of satellite observations - from Uncalibrated Flying Objects (UFOs) to Finely Tuned Sensors (FTSs)

**Speaker:** Paul Menzel, CIMSS, University of Wisconsin-Madison
ORAL PRESENTATIONS

09:00 KEYNOTE ADDRESS: Spectrum A
Climate monitoring and the relevance of satellite data
Graeme Stephens, NASA, JPL

09:30 CURRENT AND FUTURE SATELLITES, INSTRUMENTS AND THEIR APPLICATIONS
Chair: Régis Borde (EUMETSAT)

09:30 WIVERN – A Proposed Satellite to Observe Global Winds
Anthony Illingworth, University of Reading

09:45 ESA’s ADM-AEOLUS Wind LIDAR Mission, getting ready for launch
Anne Grete Straume-Lindner, ESA-ESTEC

10:00 EPS-SG Programme Status
Gökhan Kayal, EUMETSAT

10:15 MetOp Second Generation – System Overview
Maurizio Betto, ESA/ESTEC

11:15 POSTER SESSION/COFFEE BREAK
Spectrum B/Foyer

11:15 CURRENT AND FUTURE SATELLITES, INSTRUMENTS AND THEIR APPLICATIONS
Chair: Lei Yang (NSMC/CMA)

11:15 EUMETSAT’s Indian Ocean Data Coverage Service with a Meteosat Second Generation Satellite
Flavio Murolo, EUMETSAT

11:30 The in-orbit Performance of the Meteosat Second Generation SEVIRI Instruments
Tim Hewison, EUMETSAT

11:45 Two-layer cloud retrieval using visible to infrared bands of Himawari-8
Masahiro Hayashi, JMA Japan Meteorological Agency, Meteorological Satellite Center

12:15 Anticipating GOES-R ABI Multi-Spectral Imagery Capabilities via Himawari-8 ABI
Steven Miller, CIRA, Colorado State University

09:30 SPACE-BASED ATMOSPHERIC COMPOSITION MEASUREMENTS, FORECASTING AIR QUALITY
Chairs: Brian Kerridge (RAL) - Ruediger Lang (EUMETSAT)

09:30 Keynote address
Towards monitoring of natural and anthropogenic greenhouse gas fluxes from space - status and perspectives
Heinrich Bovensmann, University of Bremen, Institute of Environmental Physics

10:00 Operational trace gas column observations from GOME-2 on MetOp
Pieter Valks, DLR Deutsches Zentrum für Luft- und Raumfahrt

10:15 How precise can the Ring effect be retrieved from UV/vis satellite spectra?
Thomas Wagner, Max Plank Institute for Chemistry

11:15 Water vapor isotopes from TROPOMI SWIR measurements
Jochen Landgraf, SRON Netherlands Institute for Space Research

11:30 New developments for production of height-resolved ozone data from MetOp and future satellites
Barry Latter, RAL Space, STFC Rutherford Appleton Laboratory, NCEO (National Centre for Earth Observation)

11:45 Validation of a Level 2 processor for the retrieval of surface properties, atmospheric profiles and trace gases from IASI data
Giuliano Luiazzi, Università degli Studi della Basilicata

12:00 Methane Retrievals in the Thermal and Short-Wave Infrared from IASI
Diane Knappett, RAL Rutherford Appleton Laboratory

12:15 CH4 and CO Observations from S-NPP CrIS Full Spectrum Data
Xiaozhen Xiong, NOAA/NESDIS Center of Satellite Application and Research, I.M. Systems Group

12:30 Carbon monoxide total columns from TROPOMI and SCIAMACHY SWIR measurements under cloudy conditions
Tobias Borsdorff, SRON Netherlands Institute for Space Research

12:30 LUNCH BREAK
### Marine Meteorology and Oceanography

**Chair:** Craig Donlon (ESA/ESTEC)

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<thead>
<tr>
<th>Time</th>
<th>Speaker</th>
<th>Title</th>
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<tbody>
<tr>
<td>09:30</td>
<td>Keynote address</td>
<td>The Copernicus Sentinel-3 Mission: Current Status</td>
</tr>
<tr>
<td>09:45</td>
<td>Anne O’Carroll, EUMETSAT</td>
<td>Assessment of ACSPO VIIRS Sea Surface Temperature</td>
</tr>
<tr>
<td>10:00</td>
<td>Ewa Kwiatkowska, EUMETSAT</td>
<td>Ocean colour from the Copernicus Sentinel-3 mission</td>
</tr>
<tr>
<td>10:15</td>
<td>Ludovic Bourg, ACRI-ST</td>
<td>Preliminary validation of SLSTR sea surface temperature with the ISAR sea surface reference data</td>
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</tbody>
</table>

**Poster Session/COFFEE BREAK**

**Chair:** Craig Donlon (ESA)

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<tbody>
<tr>
<td>11:15</td>
<td>Sea Surface Temperature from Sentinel-3 SLSTR</td>
<td>Anne O’Carroll, EUMETSAT</td>
</tr>
<tr>
<td>11:30</td>
<td>Assessment of ACSPO VIIRS Sea Surface Temperature data on OSTIA Analysis</td>
<td>Chongyang Mao, Met Office</td>
</tr>
<tr>
<td>11:45</td>
<td>Preliminary validation of SLSTR sea surface temperature with the ISAR sea surface reference data</td>
<td>Craig Donlon, ESA/ESTEC</td>
</tr>
<tr>
<td>12:00</td>
<td>Early comparisons of Sentinel–3 SLSTR sea surface temperatures with near-surface ARGO measurements</td>
<td>Andrew Harris, University of Maryland</td>
</tr>
</tbody>
</table>

### The Role of Satellite Data Records in Climate Services

**Chair:** Rainer Hollmann (DWD)

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<tr>
<td>11:15</td>
<td>Evaluation and analysis of cloud optical and microphysical properties from the CLARA-A2 data set</td>
<td>Nikos Benas, KNMI Royal Netherlands Meteorological Institute</td>
</tr>
<tr>
<td>11:30</td>
<td>Unique multispectral cloud properties of cyclones entrained with large amounts of desert dust</td>
<td>George Kablick, US Naval Research Lab, University of Maryland</td>
</tr>
<tr>
<td>11:45</td>
<td>Early findings of the cloudiness atlas for Turkey using cloud type product from Nowcasting–SAF</td>
<td>Ibrahim Sönmez, Ondokuz Mayıs University</td>
</tr>
</tbody>
</table>

**Short Break**

**Lunch Break**

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**Keynote Address:**

**Spectrum A**

**Climate monitoring and the relevance of satellite data**

**Graeme Stephens, NASA, JPL**

**Chair:** François Montagner (EUMETSAT)

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<td>09:30</td>
<td>35 years of global cloud properties based on HIRS</td>
<td>Martin Stengel, DWD Deutscher Wetterdienst</td>
</tr>
<tr>
<td>09:45</td>
<td>Application of the Vectorized Earth Observation Retrieval (VEOR) method to cloud physical properties CDR derivation from AVHRR imagery</td>
<td>Jan Musial, Institute of Geodesy and Cartography</td>
</tr>
<tr>
<td>10:00</td>
<td>The CM SAF SEVIRI–based CLAAS–2 dataset: evaluation of cloud optical and microphysical properties</td>
<td>Jan Fokke Meirink, KNMI Royal Netherlands Meteorological Institute</td>
</tr>
<tr>
<td>10:15</td>
<td>The trend of cloud over Tibet Plateau and its relationship with regional climate</td>
<td>Jian Liu, CMA/NSMC National Satellite Meteorological Center</td>
</tr>
</tbody>
</table>
14:00 KEYNOTE ADDRESS: Marine Services and the need for satellite data
Spectrum A
Pierre Bahurel, Mercator Ocean

14:30 POSTER SESSION/COFFEE BREAK
Spectrum B / Foyer

16:30 CURRENT AND FUTURE SATELLITES, INSTRUMENTS AND THEIR APPLICATIONS
Chair: Jochen Grandell (EUMETSAT)

16:30 GOES-R Data Operations Readiness
Wayne McKenzie, NOAA/NESDIS/OSPO

16:45 Details of the ABI Images and Timelines
Paul Griffith, Harris Corporation

17:00 MTG Programme Status
Lionel De La Taille, EUMETSAT

17:15 Meteosat Third Generation (MTG) Space Segment Status, Characterization and Performances
Donny M. A. Aminou, ESA/ESTEC

17:30 Observational and modeling studies of the optical lightning signal in preparation for the future MTG-LI mission
Christophe Bovalo, OMP/LA Observatoire Midi-Pyrénées/Laboratoire d’Aérologie

17:45 The MTG Infrared Sounder Level 1b Dataset
Gary Fowler, EUMETSAT

16:30 SPACE-BASED ATMOSPHERIC COMPOSITION MEASUREMENTS, FORECASTING AIR QUALITY
Chair: Rosemary Munro (EUMETSAT) / Alexander Kokhanovski EUMETSAT

16:30 Aerosol and dust global maps of mean altitude based on CALIPSO observations
Christoforos Tsaamalis, Met Office

16:45 A new operational EUMETSAT product for the retrieval of aerosol optical properties over land (PMAp v2)
Michael Grzegorski, EUMETSAT

17:00 Aerosol height information from the GOME-2 Absorbing Aerosol Height product
Piet Stammes, Royal Netherlands Meteorological Institute (KNMI)

17:15 GRASP Aerosol and Surface Retrievals: Latest Application Scenarios
Michael Aspetsberger, Catalysts GmbH

17:30 High Temporal and Spatial Resolution Monitoring of Aerosol by Geostationary Satellite over Northern China
Zhengqiang Li, Institute of Remote Sensing and Digital Earth, Chinese Academy of Sciences
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<td>16:30</td>
<td>Sentinel-3A SRAL Altimeter Calibration and Validation Results</td>
<td>Remko Scharroo, EUMETSAT</td>
<td>Sentinel-3A SRAL Altimeter Calibration and Validation Results</td>
</tr>
<tr>
<td>16:45</td>
<td>A stratified neural network approach for the wet tropospheric correction retrieval: application to Jason-3</td>
<td>Bruno Picard, CLS Collecte Localisation Satellites</td>
<td>A stratified neural network approach for the wet tropospheric correction retrieval: application to Jason-3</td>
</tr>
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<td>17:00</td>
<td>Retracking of altimeter waveforms: a review of the recent efforts done for better geophysical signal estimation</td>
<td>Joël Dorandeu, CLS Collecte Localisation Satellites</td>
<td>Retracking of altimeter waveforms: a review of the recent efforts done for better geophysical signal estimation</td>
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<tr>
<td>17:15</td>
<td>Jason-3 Global Ocean Data Quality Assessment</td>
<td>Olivier Lauret, CLS Collecte Localisation Satellites</td>
<td>Jason-3 Global Ocean Data Quality Assessment</td>
</tr>
<tr>
<td>17:30</td>
<td>An Assessment of Sentinel-3A STM Performance over Ocean</td>
<td>Matthias Raynal, CLS Collecte Localisation Satellites</td>
<td>An Assessment of Sentinel-3A STM Performance over Ocean</td>
</tr>
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</table>
ORAL PRESENTATIONS

09:00 KEYNOTE ADDRESS: The Arctic Challenge

Speaker: Guennadi Kroupnik, Canadian Space Agency

09:30 CURRENT AND FUTURE SATELLITES, INSTRUMENTS AND THEIR APPLICATIONS

Chair: Mitch Goldberg (NOAA/JPSS)

09:30 GRASP algorithm – potential for enhanced aerosol retrieval from 3MI/MetOp-SG, OLSI and SLSTR/Sentinel-3 observations

Oleg Dubovik, Laboratoire d’Optique Atmosphérique, CNRS / Université Lille

09:45 The New Operational NOAA VIIRS Active Fire Product and its Applications

Ivan Csiszar, NOAA/NESDIS/STAR

10:00 JPSS-1 Science Data Products and Algorithms: Pre-launch Characterization to Post-Launch Validation and Utilization

Murty Divakarla, IM Systems Group Inc.

10:15 Climate Benchmark quality IR measurements for CLARREO: Status of the Absolute Radiance Interferometer (ARI)

Hank Revercomb, SSEC Space Science and Engineering Center, University of Wisconsin-Madison

10:30 POSTER SESSION/COFFEE BREAK

11:15 CURRENT AND FUTURE SATELLITES, INSTRUMENTS AND THEIR APPLICATIONS

Chair: Joachim Saalmueller (EUMETSAT)

11:15 COMET Program Contributions to Enhancing Environmental Satellite User Readiness

Jeffries Richard, UCAR/COMET

11:30 User Readiness for the new generation of meteorological satellites

Stephan Bojinski, World Meteorological Organisation (WMO)

11:45 Preparing for GOES-R: Supporting User Readiness of Level 2+ Products

Wayne Mackenzie, NOAA/NESDIS/OSPO

12:00 Preparations for Integrating Space-Based Total Lightning Observations into Forecast Operations

Geoffrey T. Stano, ENSCD, Inc. / NASA SPoRT

12:30 LUNCH BREAK

09:30 SPACE-BASED ATMOSPHERIC COMPOSITION MEASUREMENTS, FORECASTING AIR QUALITY

Chair: Thomas Wagner (MPI/ Heinrich Bovensmann (UIP Bremen)

09:30 Keynote address

IDEA-I: A Globally Configurable IMAPP Air Quality Forecast Software Package using Suomi-NPP, Terra and Aqua aerosol and trace gas retrievals

Kathy Strabala, SSEC Space Science and Engineering Center, University of Wisconsin-Madison

10:00 The use of atmospheric composition data from Eumetsat in the CAMS data assimilation system

Antje Inness, ECMWF

10:15 Detecting and quantifying trace gases using infrared radiance data in the NWP framework

Reima Eresmaa, ECMWF

10:30 SPACE-BASED ATMOSPHERIC COMPOSITION MEASUREMENTS, FORECASTING AIR QUALITY

Chair: Thomas Wagner (MPI/ Heinrich Bovensmann (UIP Bremen)

11:15 How do atmospheric weather states control air pollution variability over the Nordic countries?

Abhay Devasthale, Swedish Meteorological and Hydrological Institute (SMHI)

11:30 O3 variability in the troposphere and the stratosphere from IASI observations in 2008-2015

Catherine Wespes, Université Libre de Bruxelles

11:45 CO monitoring with IASI: global and local variability

Maya George, Sorbonne Universités, UPMC Univ. Paris 06; Université Versailles

12:00 Intercomparison and evaluation of satellite peroxyacetyl nitrate observations in the upper troposphere – lower stratosphere

Richard Pope, School of Earth and Environment - University of Leeds, National Centre for Earth Observation

12:15 UV Aerosol index viewing angle dependence put to an advantage: Application to volcanic plumes

Marloes Penning De Vries, Max Planck Institute for Chemistry
### KEYNOTE ADDRESS: The Arctic Challenge
**Spectrum A**
Guennadi Kroupnik, Canadian Space Agency

#### THE ARCTIC CHALLENGE
Chair: Emma Dodd (University of Leicester)

- **09:30** Keynote address
  - Arctic snow and ice optical properties from ESA Sentinels
    Jason Box, Geological Survey of Denmark and Greenland (GEUS)
- **10:00** Arctic satellite ice surface temperature variability and relationship to 2-meter air temperature.
  - Pia Nielsen-Englyst, Danish Meteorological Institute
- **10:15** Remote Sensing Support for the National Weather Service’s Alaska Sea Ice Program
  - Carl Dierking, University of Alaska

#### POSTER SESSION/COFFEE BREAK
**Spectrum B/Foyer**

#### USE OF SATELLITE DATA FOR NOWCASTING AND SHORT-RANGE NWP
Chair: Hervé Le Gleau (Météo-France)

- **11:15** Convection Products of NWCSAF
  - Jean-Marc Moisselin, Météo-France
- **11:30** Temporal Analysis of cloud parameters fields before heavy rainfall events
  - Maximilien Patou, LOA-CNRS Laboratoire d’Optique Atmosphérique
- **11:45** Multi-Sensor Approach for monitoring Deep Convective Clouds over Slovenia
  - Mateja Irsic Zibert, Slovenian Environment Agency
- **12:00** A multi-sensor and cross-platform approach to estimate rainfall from satellite microwave and VIS-IR data using neural network
  - Massimiliano Sist, Tor Vergata University

#### LUNCH BREAK
12:30
## ORAL PRESENTATIONS

### CURRENT AND FUTURE SATELLITES, INSTRUMENTS AND THEIR APPLICATIONS

- **16:30** EarthCARE – The Earth Cloud, Aerosol and Radiation Profiling Satellite Mission  
  Tobias Wehr, ESA/ESTEC

- **16:45** Sentinel-6/Jason-CS mission, the follow-up to Jason-3  
  François Parisot, EUMETSAT

- **17:00** Sentinel-6/Jason-CS Performance and Product Description  
  Remko Scharroo, EUMETSAT

- **17:15** ADM-Aeolus and follow-on  
  Ad Stoffelen, KNMI Royal Netherlands Meteorological Institute

- **17:30** The Sentinel-4 Mission and its Atmospheric Composition Products  
  Ben Veihelmann, ESA/ESTEC

### SPACE-BASED ATMOSPHERIC COMPOSITION MEASUREMENTS, FORECASTING AIR QUALITY

- **16:30** Exceptional Events Monitoring using SNPP VIIRS Aerosol Products  
  Shobha Kondragunta, NOAA/NESDIS/STAR

- **16:45** Comparison of Metop PMAp Version 2 AOD with EMAC model results  
  Swen Metzger, Max Planck Institute for Chemistry, The Cyprus Institute

- **17:00** Vertical distribution of smoke in the Amazon basin in the biomass burning season  
  Franco Marenco, Met Office

- **17:15** Monitoring of fine particulate matters (PM2.5) over China using multi-sensors aboard A-Train satellites  
  Zhengqiang Li, Institute of Remote Sensing and Digital Earth, Chinese Academy of Sciences

- **17:30** Towards a combined SAGE II and SCIAMACHY stratospheric aerosol data set and implications for aerosol trend analysis over East Asia  
  Jingmei Yang, Institute of Atmospheric Physics, Chinese Academy of Sciences

- **17:45** The GOME-2 level 1 instrument degradation model version 1b and its impact on atmospheric composition retrievals  
  Roger Huckle, EUMETSAT
KEYNOTE ADDRESS:  
Spectrum A  
Future perspectives for Numerical Weather Prediction  
(Including short-range NWP)  
Roland Potthast, DWD Deutscher Wetterdienst

POSTER SESSION/COFFEE BREAK  
Spectrum B / Foyer

THE ARCTIC CHALLENGE
Chair: Ralf Bennartz (Vanderbilt University/University of Wisconsin-Madison)

16:30 Improved understanding of the Arctic troposphere due to advanced satellites  
Abhay Devasthale, Swedish Meteorological and Hydrological Institute (SMHI)

16:45 Illuminating the Capabilities of the VIIRS Day/Night Band in the High Latitudes  
Curtis Seaman, CIRA Cooperative Institute for Research in the Atmosphere

17:00 GEO-like Temporal Resolution for Arctic Weather Observations  
Paul Griffith, Harris Corporation

17:15 Retrieval of sea ice surface temperature and emissivity over the Arctic from microwave measurements and applications  
B. J. Sohn, Seoul National University

USE OF SATELLITE DATA FOR NOWCASTING AND SHORT-RANGE NWP
Chair: Martin Weissmann (Hans-Ertel Centre for Weather Research, LMU)

16:30 MTG-IRS Near Real Time Demonstration Project  
Stephen Tjemkes, EUMETSAT

16:45 Vertical Structure De-Aliasing of Satellite Profile Retrievals for NWP Data Assimilation  
W.L. Smith Sr., CIMSS/SSEC, University of Wisconsin-Madison

17:00 Near Real Time Demonstration of Assimilation of MTG-IRS L2 Observations in HARMONIE  
Siebren De Haan, KNMI Royal Netherlands Meteorological Institute

17:15 The potential of METEOSAT Third Generation (MTG) InfraRed Sounder (IRS) level 2 product assimilation in a very short range numerical weather forecast model.  
Paolo Antonelli, SSEC Space Science and Engineering Center, University of Wisconsin–Madison

17:30 The improvement of assimilation of land surface temperature from IASI and SEVIRI radiances in the regional numerical weather prediction AROME–France model  
Niama Boukachaba, CNRM, Météo–France and CNRS

17:45 Assimilation of IASI PCs EUMETSAT product in the AROME mesoscale convection-permitted NWP model  
Vincent Guidard, CNRM, Météo–France and CNRS

CONFERENCE DINNER  
Staatstheater Darmstadt

WEDNESDAY  
28 SEPTEMBER

28 SEPTEMBER AFTERNOON
### Keynote address: Spectrum A

**Atmospheric composition services and monitoring of climate forcings**

*Vincent-Henri Peuch, ECMWF*

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

**Chair: Philip Watts (EUMETSAT)**

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<td>09:30</td>
<td><strong>C4Clouds - Computational Intelligence for Clouds</strong></td>
<td>Bernhard Niedermayer, Catalysts GmbH</td>
</tr>
<tr>
<td>09:45</td>
<td><strong>Evaluation of consistency of ice cloud retrievals using infrared and visible imager data</strong></td>
<td>Anja Hünertbein, Leibniz Institute for Tropospheric Research</td>
</tr>
<tr>
<td>10:00</td>
<td><strong>Cloud mask and cloud typing for EarthCARE’s multispectral imager (MSI)</strong></td>
<td>Stefan Horn, Leibniz Institute for Tropospheric Research</td>
</tr>
<tr>
<td>10:15</td>
<td><strong>Remote sensing of clouds and water vapor from the Multi-viewing, Multi-channel and Multi-polarisation Imager (3MI) mission on METOP-SG</strong></td>
<td>Jérôme Riedi, LOA-CNRS Laboratoire d’Optique Atmosphérique</td>
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### POSTER SESSION/COFFEE BREAK

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

**Chair: Paolo Antonelli (SSEC)**

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<td><strong>ABX – A Geostationary Hyperspectral Sounder with ABI Scan Flexibility</strong></td>
<td>Paul Griffith, Harris Corporation</td>
</tr>
<tr>
<td>11:30</td>
<td><strong>FTS-based Infra Red sounders, past and future trends</strong></td>
<td>Mathieu Maisonneuve, ABB Inc. Measurement &amp; Analytics</td>
</tr>
<tr>
<td>11:45</td>
<td><strong>Definition of a temperature capping inversion index for MTG-IRS Level 2 products</strong></td>
<td>Stephen Tjemkes, NOVELTIS</td>
</tr>
<tr>
<td>12:00</td>
<td><strong>IASI L2 products: status, new services and evolution</strong></td>
<td>Thomas August, EUMETSAT</td>
</tr>
<tr>
<td>12:15</td>
<td><strong>Calibration Validation Of The Cross-track Infrared Sounder (CrTS) With The Aircraft Based Scanning High-resolution Interferometer Sounder (S-HIS)</strong></td>
<td>Joe Taylor, SSEC Space Science and Engineering Center, University of Wisconsin-Madison</td>
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### Lunch Break

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KEYNOTE ADDRESS:  
Spectrum A  
Atmospheric composition services and monitoring of climate forcings  
Vincent-Henri Peuch, ECMWF

USE OF SATELLITE DATA FOR NOWCASTING AND SHORT-RANGE NWP

09:30 Keynote address  
Interpreting mm-wave radiances over tropical convective clouds  
Ziad Haddad, UCLA

10:00 Assimilation of radiances at 183 GHz in the convective scale model AROME  
Jean-François Mahfouf, Météo-France/CNRS

10:15 SMOS Soil Moisture Assimilation in a Near-Real-Time Land Surface Model  
Geoffrey Stano, ENSCO, Inc.

POSTER SESSION/COFFEE BREAK

11:15 Validation of Regional Modeling Clouds in Lake Victoria Region with All-sky SEVIRI Radiance Data  
Xiaoyan Zhang, NCEP/EMC, ESSIC, University of Maryland

11:30 Using MSG SEVIRI satellite observations for convective-scale ensemble data assimilation  
Martin Weissmann, Hans-Ertel Centre for Weather Research, LMU

11:45 Using geostationary satellite observations to assess the accuracy of short-range forecasts from the High-Resolution Rapid Refresh (HRRR) model  
Jason Otkin, CIMSS/SSEC, University of Wisconsin-Madison

12:00 Towards an improved assimilation of ASCAT winds  
Wenming Lin, ICM/CSIC Institut de Ciències del Mar

12:15 Scatterometer winds assimilation in the mesoscale harmonie model  
Gert-Jan Marseille, KNMI Royal Netherlands Meteorological Institute

LUNCH BREAK
ORAL PRESENTATIONS

14:00 PANEL DISCUSSION: Spectrum A
30 years of service with EUMETSAT missions: taking stock and looking ahead

Moderator: Declan Murphy
Speakers: Pierre Bahurel, Mercator Ocean
Guennadi Kroupnik, Canadian Space Agency
Paul Menzel, CIMSS, University of Wisconsin Madison
Vincent-Henri Peuch, ECMWF
Roland Potthast, DWD Deutscher Wetterdienst
Alain Ratier, EUMETSAT
Graeme Stephens, NASA, JPL

15:30 POSTER SESSION/COFFEE BREAK
Spectrum B/Foyer

16:30 CURRENT AND FUTURE SATELLITES, INSTRUMENTS AND THEIR APPLICATIONS
Chair: Claude Ledez (EUMETSAT)

16:30 FY-4 image Navigation and Registration Simulation
Lei Yang, NSMC/CMA National Satellite Meteorological Centre/
China Meteorological Administration

16:45 Retrospective processing of the S-NPP VIIRS SDR geolocation products
Wenhui Wang, Earth Resources Technology

17:00 Evaluating the geostationary diurnal IR temperature consistency using TRMM VIIRS IR observations.
David Doelling, NASA Langley Research Center

17:15 On Calibration Error Budget Analysis for NPP/JPSS ATMS Instrument
Hu (Tiger) Yang, ESSIC, University of Maryland

Jun Zhou, ESSIC, University of Maryland

17:45 Co-registration and co-location of EPS-SG 3MI measured Stokes vectors for aerosol and cloud radiative and microphysical properties retrievals
Gabriele Poli, EUMETSAT

USE OF SATELLITE DATA FOR NOWCASTING AND SHORT-RANGE NWP
Chair: John Meckalski (University of Alabama in Huntsville)

16:30 Nwcsaf/geo clear air physical retrieval product version 2016 Evolution to the mtg era
Miguel A. Martinez, AEMET Agencia Estatal de Meteorología

16:45 The use of RDT (Rapidly Developing Thunderstorm) in the HAIC project (High Altitude Ice Crystals)
Jean-Marc Moisselin, Météo-France

17:00 Meteorological evaluation of hyper spectral infrared sounder satellite retrievals
Thomas Leppelt, DWD Deutscher Wetterdienst

17:15 Instability Indices calculated from IASI Level 2 profiles for studying convection
Zsofia Kocsis, OMSZ Hungarian Meteorological Service

17:30 Cumulative Discriminant Analysis (CDA) applied to IASI and CrIS for cloud detection
Sara Venafra, Scuola di Ingegneria, Università degli Studi della Basilicata

18:00
PANEL DISCUSSION:
Spectrum A
30 years of service with EUMETSAT missions: taking stock and looking ahead

Moderator: Declan Murphy
Speakers: Pierre Bahurel, Mercator Ocean
Guennadi Kroupnik, Canadian Space Agency
Paul Menzel, CIMSS, University of Wisconsin Madison
Vincent-Henri Peuch, ECMWF
Roland Potthast, DWD Deutscher Wetterdienst
Alain Ratiër, EUMETSAT
Graeme Stephens, NASA, JPL

POSTER SESSION/COFFEE BREAK
Spectrum B/Foyer

THE ROLE OF SATELLITE DATA RECORDS IN CLIMATE SERVICES
Chair: Anke Duguay-Tetzlaff (Federal Office of Meteorology and Climatology MeteoSwiss)

16:30 The 2015 catastrophic drought in Poland monitored by satellite products
Piotr Struzik, Institute of Meteorology and Water Management – National Research Institute

16:45 Combined assessment of terrestrial drought and atmospheric conditions through an advanced index for fire risk forecast
Julia Stoyanova, National Institute of Meteorology and Hydrology of Bulgaria

17:00 Monitoring the global monsoon circulation of the atmosphere using satellite measurements of variability forms of the geoid (the gravitational field)
Vadym Dolia, UHMI Ukrainian Hydrometeorological Research Institute NAS of Ukraine
ORAL PRESENTATIONS

09:00
CURRENT AND FUTURE SATELLITES, INSTRUMENTS AND THEIR APPLICATIONS

09:00 Identifying critical geophysical parameters for the prediction of TOA SW clear-sky anisotropy in the framework of EarthCARE
Florian Tornow, Free University Berlin / Institute for Space Sciences

09:15
Keynote address

09:45
Demonstration GSICS inter-calibration product for Meteosat visible channels based on Deep Convective Clouds
Sebastien Wagner, EUMETSAT

10:00
GSICS Products and their Applications
Manik Bali, University of Maryland

10:15
That’s no moon! It’s a hyperspectral inter-calibration reference!
Matthijs Krijger, Earth Space Solutions

09:00
USE OF SATELLITE DATA FOR NOWCASTING AND SHORT-RANGE NWP

Chair: William Straka III (CIMSS/SSEC)

09:00 Keynote address
New recipes of RGB composite images from Himawari-8 developed by JMA
Akihiro Shimizu, JMA Japan Meteorological Agency

09:30
Color enhanced IR images in support of EFI and hodograph guess
Isabella Francesca Riva, ENAV

09:45
New works done with EUMETSAT help
Judita Liukaityte, Lithuanian Hydrometeorological Service under the Ministry of Environment, Vilnius University

10:00
Relationship between “atmospheric rivers” and extreme precipitation events
Natasa Strelec Mahovic, DMHZ Meteorological and Hydrological Service of Croatia

10:15
Analysis of unprecedented heavy rainfall event of 1-2 December, 2015 using METEOSAT-7 derived products and Doppler Weather Radar data of Chennai
Ramesh Chander Bhatia, Retired from India Meteorological Department

10:30
POSTER SESSION/COFFEE BREAK

11:15
CURRENT AND FUTURE SATELLITES, INSTRUMENTS AND THEIR APPLICATIONS

Chair: Lionel de la Taille (EUMETSAT)

11:15
Results from the GPM-Based Version 4 IMERG
George Huffman, NASA Goddard Space Flight Center

11:30
Radiometer Constellation
Wesley Berg, NOAA/NESDIS/STAR

11:45
Validation of precipitation estimates from the Global Precipitation Measurement Mission (GPM)
Chris Kidd, NASA/Goddard Space Flight Center, University of Maryland

12:00
Comprehensive Total Column Water Vapour Algorithm for MERIS, MODIS and OLCI
Juergen Fischer, Free University Berlin / Institute for Space Sciences

12:15
Cloud Top Pressure derived from MERIS and OLCI using O2 A-band measurements
Rene Preusker, Free University Berlin / Institute for Space Sciences

11:15
USE OF SATELLITE DATA FOR NOWCASTING AND SHORT-RANGE NWP

Chair: William Straka III (CIMSS/SSEC)

11:15
Satellite-observed features related to storm-induced gravity wave breaking
Pao Wang, University of Wisconsin-Madison, Academia Sinica

11:30
Nowcasting of thunderstorms and severe convection in Switzerland
Ulrich Hamann, Federal Office of Meteorology and Climatology MeteoSwiss

11:45
A year of validation of the StormTrack algorithm over different European regions
Michele De Rosa, Geo-K s.r.l.

12:00
Snow and ice monitoring in a globalized world.
Richard Muller, DWD Deutscher Wetterdienst

12:15
NOAA’s Joint Polar Satellite System’s (JPSS) Proving Ground and Risk Reduction (PGR) Program – New Applications of JPSS Data and Products in Short Term Severe Weather Events
Bill Sjoberg, NOAA

12:30
CLOSING CEREMONY

13:00
THE ROLE OF SATELLITE DATA RECORDS
IN CLIMATE SERVICES

Chair: Viju John (EUMETSAT)

09:00  Accurately measuring sea level change from space: an ESA Climate Change Initiative for MSL closure budget studies
       Michaël Ablain, CLS Collecte Localisation Satellites

09:15  Ocean Wind Climate Data Record
       Lucrezia Ricciardulli, Remote Sensing Systems

09:30  A long-term surface wind and stress data record
       Ad Stoffelen, KNMI Royal Netherlands Meteorological Institute

09:45  A multi-format client-agnostic server for satellite data
       David Santek, CIMSS University of Wisconsin-Madison

10:00  A new phase in distribution of terrestrial ECVs at global scale by the Copernicus Global Land Service
       Tim Jacobs, VITO Flemish Institute for Technological Research NV

10:15  Meteosat Land Surface Temperature Climate Data Record
       Anke Duguay-Tetzlaff, Federal Office of Meteorology and Climatology MeteoSwiss

POSTER SESSION/COFFEE BREAK
Spectrum B/Foyer

THE ROLE OF SATELLITE DATA RECORDS
IN CLIMATE SERVICES

Chair: Joachim Saalmüller (EUMETSAT)

11:15  Applications of CM SAF Solar Radiation Data Records for Climate Services
       Steffen Kothe, DWD, Deutscher Wetterdienst

11:30  Solar Radiation Atlas for Poland and the Baltic States based on CM SAF data
       Jakub Walawender, Institute of Meteorology and Water Management – National Research Institute

11:45  Towards an improved surface albedo time series from AVHRR data: CLARA-A2-SAL
       Kati Anttila, FMI Finnish Meteorological Institute

12:00  Evaluating regional reanalyses against Climate Data Records of CM-SAF
       Michael Borsche, DWD Deutscher Wetterdienst

12:15  Evaluation of Fengyun satellite retrievals and ERA reanalyses products based on a multi-scale soil moisture monitoring network in Tibet Plateau
       Lixin Dong, CMA/NSMC National Satellite Meteorological Center

CLOSING CEREMONY
Spectrum A

12:30

13:00
## Current and Future Satellites, Instruments and Their Applications

### POSTER

**Spectrum B/Foyer**

### Cloud

#### 1.1 Cloud top pressure retrieval from O2 A-band
- **Mathieu COMPIÈGNE, HYGEOS**

#### 1.2 Radiometric in-situ measurements over Lake Constance for validating land surface temperature products
- **Frank-Michael GÖTTSCHE, Karlsruhe Institute of Technology (KIT)**

### GEO Mission

#### 1.1 Preliminary results of the MTG AMV processor using Himawari-8 data
- **Manuel CARRANZA, GMV Aerospace and Defence at EUMETSAT**

#### 1.2 Improvement of COMS land surface temperature retrieval algorithm by considering diurnal temperature range
- **Youn-Young CHOI, Kongju National University**

#### 1.3 Utilization of HIMAWARI-8 for food security: Food security package and relate activities in CEREs and related researchers
- **Atsushi HIGUCHI, Center for Environmental Remote Sensing (CEREs) Chiba University**

#### 1.4 The use of ADAGUC for MSG RBG products visualisation at the Romanian National Meteorological Administration
- **Eduard LUCA**, National Meteorological Administration of Romania

#### 1.5 Feasibility study of an all-weather land surface temperature product
- **João Paulo MARTINS**, Instituto Português do Mar e da Atmosfera (IPMA), Instituto Dom Luiz, Universidade de Lisboa

#### 1.6 Preparing for GOES-R: Post-Launch Tests and Activities
- **Elizabeth MCMICHAEL**, Science and Technology Corp.

#### 1.7 Meteosat Third Generation Lightning Imager, the development of future operational applications at C.D.MET.
- **Massimiliano SIST, GEO-K**

#### 1.8 MTG FCI Detection Chain model: radiometry
- **Bartolomeo VITICCHIE, EUMETSAT**

### Ground Segment

#### 1.1 GOES-R and JPSS Satellite Proving Ground Activities at CIRA
- **Renate BRUMMER, CIRA, Colorado State University**

#### 1.2 EUMETSAT’s HRDCP equipped Automatic Weather Station
- **Knut DAMMANN, EUMETSAT**

#### 1.3 Enterprise Solutions for Joint Polar Satellite System (JPSS) Science Products Algorithms
- **Murty DIVAKARLA, IMSG**

#### 1.4 Adding a Mission to the Joint Polar System (JPSS) Common Ground System (CGS)
- **Kerry GRANT, Raytheon**

#### 1.5 Joint Polar Satellite System (JPSS) Common Ground System (CGS) Architecture Overview and Technical Performance Measures
- **Kerry GRANT, Raytheon**

#### 1.6 Joint Polar Satellite System (JPSS) Common Ground System (CGS) Block 3.0 Communications Strategies
- **Kerry GRANT, Raytheon**

#### 1.7 Multi-mission satellite management
- **Kerry GRANT, Raytheon**

#### 1.8 Managed and Supported Environmental Missions in the Joint Polar Satellite System (JPSS) Common Ground System (CGS)
- **Kerry GRANT, Raytheon**

#### 1.9 RealEarth: Access to global satellite data and products in near real-time
- **David SANTEK, CIMSS Cooperative Institute for Meteorological Satellite Studies**

#### 1.10 Dynamic Scaling for the Optimized Display of VIIRS Day/Night Band Imagery
- **Curtis SEAMAN, CIRA Cooperative Institute for Research in the Atmosphere**

#### 1.11 NOAA’s Joint Polar Satellite System’s Proving Ground and Risk Reduction Program – New Program Initiatives Build on the Success of Initial Program
- **Bill SJOBERG, NOAA**

#### 1.12 Routine Validation of the GOES-R Multi-Satellite Processing System Framework
- **William C STRAKA III, SSEC/CIMSS**

- **Alexander WERBOS, Atmospheric and Environmental Research INR**

#### 1.14 Validating the VIIRS Day/Night Band geolocation accuracy at different scan angles with terrain correction
- **Yan BAI, University of Maryland**

- **Frank DE LUCCIA, The Aerospace Corporation**

#### 1.16 Inter-calibration

#### 1.17 Proposal for a new parameterisation of the instrumental spectral response function in DOAS retrievals and application to satellite measurements
- **Steffen BEIRLE, Max-Planck-Institut für Chemie**

#### 1.18 Limb Correction of SEVIRI and AVHRR Infrared Channels in Clear and Cloudy Regions for the Improved Interpretation of RGB Composites
- **Kevin FUELL**, University of Alabama in Huntsville

#### 1.19 A Comparison of Normalized Difference Vegetation Indices from Geostationary and Low Earth Orbiting Satellites
- **Satya KALLURI, NOAA/NESDIS/STAR, USA**

#### 1.20 Long-term monitoring and Inter-Comparison of COMS Visible Channel Vicarious Calibration among the different targets
- **Tae-Hyeong OH, NMSC-KMA National Meteorological Satellite Centre / Korea Meteorological"
1.5.5 An Examination of V04 GPROF Precipitation Retrievals using the GPM Gridded Text Products
Erich STOCKER, NASA/GSFC code 610.2

1.6.1 Using RO for Validation of Hyperspectral IR Sounder Temperature Profiles: Interpreting Results
Eva BORBAS, University of Wisconsin-Madison

1.7.1 Validation of ATSR Advanced InfraRed WAter Vapor Estimator (AIRWAVEv1) Total Column Water Vapour using sondes, GPS and independent satellite datasets
Elisa CASTELLI, CNR- Istituto di Scienze dell’Atmosfera e del Clima

1.8.1 User Preparations for Multispectral Imagery in the GOES-R and JPSS Era via Technical Improvements to Product Production and Training
Kevin FUELL, University of Alabama in Huntsville

1.7.8 Central Facility L2 Product Algorithms for EPS-SG METImage
Loredana SPEZZI, EUMETSAT

1.8.2 Application of Satellite Remote Sensing to assist in the NOAA National Weather Service’s Damage Assessment Process
Kevin FUELL, University of Alabama in Huntsville

1.7.7 Spectral analysis of microwave radiometers brightness temperatures and atmosphere water vapour content.
Bruno PICARD, CLS Collecte Localisation Satellites
USE OF SATELLITE DATA FOR NOWCASTING 
AND SHORT-RANGE NWP 
Spectrum B/Foyer

**Forecasting**

2.1 Automated CB/TCU METAR optimization based on radar 
and satellite observations 
Paul DE VALK, KNMI

2.1.2 The estimation of cloud motion for the tracking of convective cells 
Ulrich HAMANN, Federal Office of Meteorology and Climate 
MeteoSwiss

2.1.3 A new attempt for identifying The Tropopause Folding Turbulence 
applied to geostationary meteorological satellite 
Mijung KIM, Department of Atmospheric Science, 
Busan National University

2.1.4 Detection of threats to commercial aviation using geostationary 
satellite imagery at the Met Office 
Lorenzo LABRADOR, Met Office

2.1.5 A convective event analysed with satellite, radar and lightning data 
Maria PUTSAY, OMSZ Hungarian Meteorological Service

2.1.6 Heavy snowfall in Riga on the 13-14th of January 2016 as a 
result of the lake effect phenomenon 
Andrejs SPIRHIŅŠ, Latvian Environment, Geology and Meteorology Centre

2.1.7 The use of hyperspectral sounders to analyze the evolution 
of convective storms 
Jindrich STASTKA, Czech Hydrometeorological Institute, 
Department of Atmospheric Physics, Charles University

2.1.8 Benefits of super rapid scan satellite data usage for utilization 
of satellite-based indicators of storm severity 
Natasa STRELEC MAHOVIC, DMHZ Meteorological and 
Hydrological Service of Croatia

**NWP**

2.2.1 Improving temperature retrievals from IASI data using 
ozone-sensitive channels 
Olivier COOPMANN, CNRM, Méteo-France and CNRS.

2.2.2 Comparison of IASI–NG and IASI retrievals for NWP 
Vincent GUIDARD, Méteo-France and CNRS

2.2.3 Use of Atmospheric Motion Vectors in the regional mesoscale 
model HARMONIE 
Angeles HERNÁNDEZ, AEMET Agencia Estatal de Meteorología

2.2.4 Recent improvements in the all-sky assimilation of microwave 
imagery at ECMWF 
Katrin LONITZ, European Centre for Medium-Range Weather 
Forecasts (ECMWF)

2.2.5 Assimilating all-sky SEVIRI and CRIS infrared brightness 
temperatures using the KENDA ensemble data assimilation system 
Jason OTKIN, University of Wisconsin-Madison, CIMSS, SSEC, 
University of Reading

2.2.6 Evaluation of the RTTOV v11 aerosol model in IR with MACC 
and CALIPSO 
Jerome VIDOT, CMS / Méteo France

2.2.7 Height correction for the assimilation of atmospheric motion 
vectors based on satellite lidar observations from CALIPSO 
Martin WEISSMANN, Hans-Ertel Centre for Weather Research, LMU

**Products**

2.3.1 Operational fog detection: A multispectral and microphysical 
approach on the basis of SOFOS complemented by NWCSAF 
and CPP products 
Jörg ASMUS, Deutscher Wetterdienst (DWD)

2.3.2 EUMETSAT Hydrological Satellite Application Facility, 
Precipitation Products Generation System at C.O.MET. 
Massimiliano SIST, GEO-K

2.3.3 Accurate measurements of upper–troposphere winds by 
watching contrails 
Olivier BOUCHER, Laboratoire de Méteorologie Dynamique, 
Univ. P. et M. Curie

2.3.4 NEFODINA+: A new detection of convection for H-SAF convective 
precipitation product 
Michele DE ROSA, GEO-K srl

2.3.5 Validation and Application of temperature and humidity profiles 
retrieved from Low Earth Orbit satellites 
Junhyung HEO, KMA Korea Meteorological Administration

2.3.6 Rain rate estimation based on combination of satellite and radar 
data over Ukraine 
Oleksii KRYVOBOK, UHMI Ukrainian Hydrometeorological 
Research Institute

2.3.7 JAXA’s Himawari-8 products and Himawari monitor 
Yukio KURIHARA, JAXA/EORC, Tsukuba

2.3.8 A scattering-based land rainfall retrieval algorithm using passive 
microwave satellite 
Young-Joo KWON, Sejong University

2.3.9 SAFNWC/GEO V2016, a major milestone for the project 
Herve LE GLEAU, Meteo-France / Centre de Meteorologie Spatiale

2.3.10 Assessment of the performance of residual method 
from simulated IASI cloudy radiance 
Aheum LEE, Seoul National University

2.3.11 The role of satellite meteorology for solar energy 
Richard MÜLLER, Deutscher Wetterdienst

2.3.12 MTG-IRS Level 2 Validation and Demonstration Processor 
Stefano PIANI, Exact-Lab

2.3.13 NWCSAF GEO v2016. New products, changes and improvements. 
M. Pilar RÍPODAS, AEMET Agencia Estatal de Meteorología

2.3.14 The Soil Moisture and Ocean Salinity (SMOS) near-real-time soil 
moisture product 
Nemesio RODRIGUEZ-FERNANDEZ, CESBIO, ECMWF

2.3.15 The NWCSAF/PPS processing package v2018: Adding MERSI-2 
compliance and more 
Anke THOSS, SMHI - Swedish Meteorological and Hydrological Institute

**Technical**

2.4.1 Visualization of satellite imagery using ADAGUC web 
map services 
Maarten PLIEGER, KNMI Royal Netherlands Meteorological Institute

2.4.2 Additional data services at EUMETSAT 
Anders MEIER SOERENSEN, EUMETSAT
### The Arctic Challenge

**Spectrum B/Foyer**

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<td>The application of machine learning to the computation of ice concentration, from multichannel microwave radiometer data</td>
<td>John LAVELLE, The Danish Meteorological Institute</td>
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<td>3.1.2</td>
<td>Retrieval of polarized emissivities of the Arctic sea ice at AMSR frequencies and use for first- and multiyear sea ice classification</td>
<td>Sang-Moo LEE, Seoul National University</td>
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<td>Current status of the H-SAF MSG/SEVIRI and Metop/AVHRR snow extent products</td>
<td>Niilo SILJAMO, FMI Finnish Meteorological Institute</td>
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### Marine Meteorology and Oceanography

**Spectrum B/Foyer**

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<td>Evolution of value-added altimetric products</td>
<td>Hans BONEKAMP, EUMETSAT</td>
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<td>Gorm DYBKAJER, Danish Meteorological Institute</td>
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<td>4.1.3</td>
<td>Towards a unique method for a global and multi-surface Wet Tropospheric Correction retrieval: a 1-D Variational approach</td>
<td>Laura HERMOZO, CLS Collecte Localisation Satellites</td>
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<td>4.1.4</td>
<td>Study on Faraday rotation correction for ocean remote sensing by spaceborne microwave radiometer</td>
<td>Wen LU, PLA University of Science and Technology</td>
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<td>4.1.5</td>
<td>NOAA SST and Clear-Sky Mask Algorithms for Himawari-8 ABI and GOES-R ABI</td>
<td>Boris PETRENKO, NOAA STAR, GST, Inc.</td>
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<td>On the effect of wave vertical orbital velocity on Doppler Radar Altimetry</td>
<td>Eugenio PUGLIESE CARRATELLI, CUGRI</td>
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<td>EUMETSAT Marine Centre Initial Ocean Colour Cal/Val Results for the Sentinel-3 Ocean and Land Colour Instrument (OLCI)</td>
<td>Malcolm TABERNER, EUMETSAT</td>
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<td>SENTINEL-3 SLSTR on-going CAL/VAL activities at EUMETSAT</td>
<td>Igor TOMAZIC, EUMETSAT</td>
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<td>The ocean’s dual role in the protections from hazards and hazard generation</td>
<td>Liudmila VANINA-DART, The Seeing Ear LTD (Charity), Laboratory of Science and Technology in Battle</td>
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<td>4.1.10</td>
<td>GMF development for c-band scatterometers</td>
<td>Jeroen VERSPEEK, KNMI</td>
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<td>ASCAT-6.25 processing</td>
<td>Jur VOGELZANG, KNMI Royal Netherlands Meteorological Institute</td>
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<td>4.1.12</td>
<td>The Effects of Ocean Environment on Sea Surface Salinity Retrieval Based on Spaceborne Microwave Radiometer</td>
<td>Yingsheng WANG, Institute of Meteorology and Oceanography</td>
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Exploitation of atmospheric composition data

6.1.1 10 years of IASI trace gas retrievals
Rosa ASTORECA, Université Libre de Bruxelles

6.1.2 Satellite retrievals of desert dust from the Sahara and the Middle East over the Red Sea, and an assessment of their radiative impact
Jamie BANKS, Imperial College London, Leibniz Institute of Tropospheric Research

6.1.3 Comparison satellite and ground data of NO2 dynamics in Ukraine for 2013-2014
Oleksandr KRYVOSHEIN, UHMI Ukrainian Hydrometeorological Research Institute

6.1.4 The method for prediction of total ozone and ultraviolet radiation over Ukraine based on satellite data
Mykhailo SAVENETS, UHMI Ukrainian Hydrometeorological Research Institute

6.1.5 The "APEC Blue" phenomena: regional emission control effects observed from space
Xingying ZHANG, CMA/NSMC National Satellite Meteorological Center

6.1.6 The characteristics of aerosol profiles over the typical deserts in North China observed from CALIOP
Xuemei ZONG, Chinese Academy of Sciences

6.1.7 MAX-DOAS observations and their application to the validation of satellite and model data in Wuxi, China
Thomas WAGNER, Max Planck institute for Chemistry

Retrieval of atmospheric composition data

6.3.1 Global Evaluation of Metop PMAp Version 2 AOD against ground observations, independent satellite platforms and EMAC model results
Mohamed ABDELKADER, MPI Max-Planck Institut für Chemie

6.3.2 Sensitivity of volcanic SO2 plume attributes to meteorological conditions
Maria ATHANASSIADOU, Met Office

6.3.3 The STRatospheric Estimation Algorithm from Mainz (STREAM): Estimating stratospheric NO2 from nadir-viewing satellites by weighted convolution
Steffen BEIRLE, MPI Chemie Mainz, Satellite remote sensing

6.3.4 Black Saturday bushfire smoke plumes as seen from SCIAMACHY measurements in limb geometry
Steffen BEIRLE, MPI Max-Planck Institut für Chemie

6.3.5 Comparison of IASI/MetopA and OMI/Aura ozone column amounts with euromet net ground-based measurements
Xavier CALBET, AEMET Agencia Estatal de Meteorología

6.3.6 AURORA project: Advanced Ultraviolet Radiation and Ozone Retrieval for Applications
Ugo CORTESI, Istituto di Fisica Applicata "Nello Carrara" (IFAC-CNR)

6.3.7 Validation of gome-2a and gome-2b ozone profiles and tropospheric ozon column products, using balloon sounding data
Andy DELCLOO, RMI Royal Meteorological Institute of Belgium

6.3.8 Improvement of the operational Near-Real-Time total ozone retrieval algorithm for GOME-2 on MetOp-A & MetOp-B and perspectives for TROPOMI/SSP
Nan HAO, DLR-IMF, Deutsches Zentrum für Luft- und Raumfahrt

6.3.9 Comparison of GOME-2 and IASI (Metop-B) upper stratospheric ozone profile validation results
Michael HESS, Deutscher Wetterdienst

6.3.10 Preliminary results of Fog and Asian Dust detection algorithm developed for GK-2A using Himawari-8 data
Sung-Rae CHUNG, NMSK-KMA National Meteorological Satellite Centre/Korea Meteorological

6.3.11 The determination of aerosol optical characteristics using measurements from the future 3MI instrument on board the Eumetsat Polar System – Second Generation (EPS-5G)
Alexander KOKHANOVSKY, EUMETSAT
6.3.12 Investigation of systematic biases in the GOME-2 Absorbing Aerosol Index product
Maurits KOOREMAN, KNMI Royal Netherlands Meteorological Institute

6.3.13 Validation of reprocessed GOME-2 HCHO and NO2 columns using ground-based MAXDOAS column
Gaia PINARDI, Royal Belgian Institute for Space Aeronomy, IASB-BIRA

6.3.14 Study of the intrapixel variability of NO2 from GOME-2 using Mobile-DOAS measurements
Gaia PINARDI, Belgian Institute for Space Aeronomy

6.3.15 The MUSICA METOP/IASI Methane and Nitrous Oxide products and its validation
Eliezer SEPÚLVEDA, Izaña Atmospheric Research Centre, AEMET, University of Valladolid

6.3.16 NOVIA: Towards a Near Operational Validation of IASI level 2 trace gas products
Eliezer SEPÚLVEDA, University of Valladolid, Izaña Atmospheric Research Center (IARC), AEMET

6.3.17 Reprocessed Metop/GOME-2 vertical ozone profiles
Olaf TUINDER, KNMI

6.3.18 An improved total and tropospheric NO2 retrieval algorithm for GOME-2
Pieter VALKS, DLR-IMF Deutsches Zentrum für Luft- und Raumfahrt

6.3.19 Tropospheric Ozone from GOME_2 in combination with other stratospheric ozone measurements
Pieter VALKS, DLR-IMF Deutsches Zentrum für Luft- und Raumfahrt Institut für Methodik der Fer

6.3.20 Improvements and Applications of the DLR/MPI-C water vapour retrieval in the red spectral range
Thomas WAGNER, Max-Planck-Institut for Chemistry
• Alan Belward, JRC
• Lionel de la Taille, EUMETSAT
• Craig Donlon, ESA
• Julia Figa-Saldana, EUMETSAT
• Kenneth Holmlund, EUMETSAT
• Heikki Järvinen, University of Helsinki
• Brian Kerridge, RAL
• Dieter Klaes, EUMETSAT
• Rüdiger Lang, EUMETSAT
• Joachim Saalmüller, EUMETSAT
• Jean-François-Mahfouf, Météo-France
• Olivier Marsal, CNES