## CONFERENCE SCHEDULE

All times reflect GMT +2
Times are subject to changes

<table>
<thead>
<tr>
<th>Date</th>
<th>Sunday</th>
<th>Monday</th>
<th>Tuesday</th>
<th>Wednesday</th>
<th>Thursday</th>
<th>Friday</th>
</tr>
</thead>
<tbody>
<tr>
<td>15 Sept</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>16 Sept</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>17 Sept</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>18 Sept</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>19 Sept</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>20 Sept</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

### Registration

- **16:00 - 19:00**
- **08:00 - 18:00**
- **07:45 - 18:00**
- **07:45 - 18:00**
- **07:45 - 18:00**
- **07:45 - 14:00**

### CONFERENCE PROGRAMME

#### Opening Ceremony
- 09:00 - 09:45

#### Plenary
- 09:45 - 11:00

#### Session 1
- 11:30 - 12:45

#### Session 2
- 11:30 - 17:15

#### Joint session 1 & 11
- 11:15 - 12:30

#### Session 3
- 11:30 - 17:45

#### Session 4
- 11:30 - 18:00

#### Session 5
- 11:30 - 17:45

#### Session 6
- 08:30 - 18:00

#### Session 7
- 08:30 - 17:30

#### Session 8
- 08:30 - 18:00

#### Session 9
- 11:15 - 17:45

#### Session 10
- 08:30 - 18:00

#### Session 11
- 08:30 - 13:30

#### Session 12
- 08:30 - 18:00

#### Session 13
- 08:30 - 13:00

#### Session 14
- 08:30 - 12:15

#### Closing Ceremony
- 13:30 - 14:00

### PLENARY / PANEL DISCUSSION

- 12:30 - 13:30
  - AMS/EMS
  - Plenary
  - D. Marbouty
  - M. Shepherd

### DEDICATED POSTER SESSION

- During coffee/lunch breaks, Tuesday 14:00-16:30 and Wednesday 14:00-16:30

### SOCIAL EVENTS

- **Welcome Drink**: 18:30 - 20:00
- **Icebreaker Cocktail**: 19:30 - 21:30
- **Conference dinner**: 19:00 - 23:00

### Room allocation:

- **FESTSAAL**: 1st floor
- **ZEREMONIENSAAL**: 1st floor
- **RITTERSAAL**: 1st floor
- **PRINZ EUGEN**
- **FORUM**: Ground floor
- **HOFBURG GALLERIE GARDEHALLE I + II**: Ground floor

### SESSION GUIDE:

1. Current and future satellites, instruments and their applications
2. Climate
3. Quantitative applications for Nowcasting
4. Societal benefits of user-focused communication of satellite data, products and services
5. Data access for easy utilisation
6. Satellite-based observations of the oceans
7. Water vapour observations from satellites
8. Instrument calibration and characterisation
9. Modelling and assimilation of water vapour, clouds and precipitation
10. Cloud observations from satellites, incl. 30 years ISCCP
11. Atmospheric Composition
12. Satellite impact on NWP
13. Advances in understanding cloud precipitation processes
14. Satellite-based observations of the cryosphere
MONDAY MORNING, 16 SEPTEMBER

Sessions 1, 2, 3, 4 and 5 are in parallel as from 11:30 h

OPENING CEREMONY

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

09:15 Official Address
tbc
title tbc
on behalf of AMS American Meteorological Society

09:30 Official Address
Staudinger, Michael
Director-General
ZAMG Zentralanstalt für Meteorologie und Geodynamik

PLENARY SESSION

Chairperson:
Philip Ardanuy - Raytheon
Johannes Schmetz - EUMETSAT

09:45 EUMETSAT geostationary and low Earth programmes: Status and plans
Koenemann, Ernst
Director of Programme Development
EUMETSAT

10:00 NOAA current and future activities
Mandt, Greg
GOES-R System Program Director
NOAA/NESDIS

10:15 Fengyun satellite program overview
Lu, Naimeng
Chief Scientist
NSMC/CMA National Satellite Meteorological Center,
Chinese Meteorological Administration

10:30 Keynote Address
The WMO Space Programme in support of weather and climate services
Jerry Lengossa
Deputy Secretary-General
WMO

11:00 COFFEE BREAK - POSTER/EXHIBIT VIEWING

Session 1

(FESTSAAL)

Current and future satellites, instruments and their applications

Chairperson:
Philip Ardanuy - Raytheon
Johannes Schmetz - EUMETSAT

11:30 Keynote Address
First results of Metop-B
Klaes, Dieter
EUMETSAT

12:00 Metop Second Generation - Overview
Barré, Hubert
ESA/ESTEC

12:15 Metop Second Generation payloads
Kangas, Ville
ESA/ESTEC

12:30 Metop-SG ICI: What can be learnt from existing sub-mm satellite sensors?
Eriksson, Patrick
Chalmers University of Technology

12:45 – 14:00 LUNCH BREAK
### SESSION 2

**Climate**

**Chairperson:** Mitchell Goldberg - NOAA/NESDIS
Gabriela Seiz - Federal Office of Meteorology and Climatology MeteoSwiss

<table>
<thead>
<tr>
<th>Time</th>
<th>Event</th>
<th>Speaker</th>
<th>Affiliation</th>
</tr>
</thead>
<tbody>
<tr>
<td>11:30</td>
<td><strong>Keynote Address</strong></td>
<td>Merchant, Chris</td>
<td>University of Edinburgh</td>
</tr>
<tr>
<td>12:00</td>
<td>IASI MetOp L1C analyses for methane and carbon dioxide over 5 years</td>
<td>Oudot, Charlotte</td>
<td>LATMOS Laboratoire Atmosphères, Milieux, Observations Spatiales</td>
</tr>
<tr>
<td>12:15</td>
<td>Climatology and interannual variations of precipitation extremes observed in satellite data</td>
<td>Ricko, Martina</td>
<td>University of Maryland</td>
</tr>
<tr>
<td>12:30</td>
<td>Investigation of Antarctic climate and Its recent changes from satellites</td>
<td>Wang, Xuanji</td>
<td>University of Wisconsin-Madison</td>
</tr>
</tbody>
</table>

**12:45 - 14:00**

**LUNCH BREAK**
### MONDAY MORNING, 16 SEPTEMBER

Session 1, 2, 3, 4 and 5 are in parallel as from 11:30 h

#### Session 5

**Data access for easy utilisation**

**Chairperson:**
- Pat Kablick - University of Maryland
- Simon Elliot - EUMETSAT

<table>
<thead>
<tr>
<th>Time</th>
<th>Presentation</th>
<th>Speaker</th>
<th>Institution</th>
</tr>
</thead>
<tbody>
<tr>
<td>11:30</td>
<td>CSPP acquisition and verification of NPP VIIRS SDRs</td>
<td>Mindock, Scott</td>
<td>CIMSS Cooperative Institute for Meteorological Satellite Studies</td>
</tr>
<tr>
<td>11:45</td>
<td>AVISO: online data extraction service for research and operational altimetry users</td>
<td>Rosmorduc, Vinca</td>
<td>CLS Collecte Localisation Satellites</td>
</tr>
<tr>
<td>12:00</td>
<td>Data access enhancements in the EUMETSAT data centre</td>
<td>Rothfuss, Harald</td>
<td>EUMETSAT</td>
</tr>
<tr>
<td>12:15</td>
<td>Access to real-time and archive weather satellite data using a web map service</td>
<td>Santek, David</td>
<td>University of Wisconsin-Madison</td>
</tr>
<tr>
<td>12:30</td>
<td>ADAGUC: an Open Source WMS service</td>
<td>De Vreede, Ernst</td>
<td>KNMI Royal Netherlands Meteorological Institute</td>
</tr>
</tbody>
</table>

**12:45 – 14:00**

**LUNCH BREAK**
### SESSION 3

**Quantitative applications for nowcasting**

**Chairperson:** Wayne Feltz  
University of Wisconsin-Madison

<table>
<thead>
<tr>
<th>Time</th>
<th>Session</th>
<th>Details</th>
</tr>
</thead>
</table>
| 11:30 | Keynote Address | Improve very-short-range forecasts of the pre-convective environment using clear-air SEVIRI products  
Petersen, Ralph  
CIMSS Cooperative Institute for Meteorological Satellite Studies |
| 12:00 | Improvements in version 2013 of NWCSAF/MSG PGE13 physical retrieval product | Miguel A. Martinez  
AEMET Agencia Estatal de Meteorologia |
| 12:15 | Verification of satellite-based stability indices against sounding and lightning data - implications on convection forecast | Smiljanic, Ivan  
DMHZ Meteorological and Hydrological Service of Croatia |
| 12:30 | Progress toward nowcasting lightning initiation and amounts using Infrared geostationary satellite observations | Mecikalski, John  
University of Alabama in Huntsville |

**12:45 - 14:00**  
**LUNCH BREAK**
**MONDAY MORNING, 16 SEPTEMBER**

Sessions 1, 2, 3, 4 and 5 are in parallel as from 11:30 h

### SESSION 4  
**FORUM**

**Societal benefits of user-focused communication of satellite data, products and services**

**Chairperson:**  
Alois M. Holzer  
ESSL European Severe Storms Laboratory

<table>
<thead>
<tr>
<th>Time</th>
<th>Presentation Topic</th>
<th>Presenter</th>
<th>Institution</th>
</tr>
</thead>
<tbody>
<tr>
<td>11:30</td>
<td>SPoRTs role in helping the NWS create a weather ready nation</td>
<td>Jedlovec, Gary</td>
<td>NASA</td>
</tr>
<tr>
<td>11:45</td>
<td>Use of METEOSAT data for improving climate services in Africa</td>
<td>Dinku, Tufa</td>
<td>Columbia University</td>
</tr>
</tbody>
</table>
| 12:00 | Systematic approach for the transition of research algorithms to operation products for real-processing and end-user applications | Zaccheo, TScott    | AER Atmospheric and Environmental Research Inc.
| 12:15 | The EUMETSAT user notification service                                              | Espanyol, Oriol    | EUMETSAT                                     |
| 12:30 | Advancement of community satellite processing packages - Current status and future outlook | Huang, Hung Lung Allen | University of Wisconsin-Madison               |

12:45 – 14:00  
**LUNCH BREAK**
MONDAY AFTERNOON, 16 SEPTEMBER

Sessions 1, 2, 3, 4 and 5 are in parallel

### Joint Session 1 & 2
(FESTSAAL)
Current and future satellites, instruments and their applications & Climate
Chairperson:
Christopher Velden - University of Wisconsin-Madison
Kenneth Holmlund - EUMETSAT

<table>
<thead>
<tr>
<th>Time</th>
<th>Event</th>
<th>Speaker</th>
<th>Institution</th>
</tr>
</thead>
<tbody>
<tr>
<td>14:00</td>
<td><strong>Keynote Address</strong>&lt;br&gt;Liquid water path and rain water path climatologies in the GPM era&lt;br&gt;Bennartz, Ralf&lt;br&gt;University of Wisconsin-Madison</td>
<td>Bennartz, Ralf</td>
<td>University of Wisconsin-Madison</td>
</tr>
<tr>
<td>14:45</td>
<td>Water cycle over South America observed from space&lt;br&gt;Liu, W Timothy&lt;br&gt;JPL Jet Propulsion Laboratory</td>
<td>Liu, W Timothy</td>
<td>JPL Jet Propulsion Laboratory</td>
</tr>
<tr>
<td>15:00</td>
<td>Cyclone Global Navigation Satellite System (CYGNSS): All weather observations of surface winds in tropical cyclones and hurricanes&lt;br&gt;Possett, Derek&lt;br&gt;University of Michigan</td>
<td>Possett, Derek</td>
<td>University of Michigan</td>
</tr>
<tr>
<td>15:15</td>
<td><strong>COFFEE BREAK - POSTER/EXHIBIT VIEWING</strong></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

### Session 1 continued
(FESTSAAL)
Current and future satellites, instruments and their applications
Chairperson:
Philip Ardanuy - Raytheon<br>Johannes Schmetz - EUMETSAT

<table>
<thead>
<tr>
<th>Time</th>
<th>Event</th>
<th>Speaker</th>
<th>Institution</th>
</tr>
</thead>
<tbody>
<tr>
<td>16:15</td>
<td><strong>Keynote Address</strong>&lt;br&gt;The next generation NOAA GOES satellites&lt;br&gt;Mandt, Greg</td>
<td>Mandt, Greg</td>
<td>NOAA</td>
</tr>
<tr>
<td>16:45</td>
<td>Meteosat Third Generation (MTG) Space Segment Status and its technological challenges&lt;br&gt;Aminou, Donny M. A.&lt;br&gt;ESA/ESTEC</td>
<td>Aminou, Donny M. A.</td>
<td>ESA/ESTEC</td>
</tr>
<tr>
<td>17:00</td>
<td>NOAA satellite partnerships&lt;br&gt;Pereira, John&lt;br&gt;Presented by: Goldberg, Mitchell&lt;br&gt;NOAA/NESDIS</td>
<td>Pereira, John</td>
<td>NOAA/NESDIS</td>
</tr>
<tr>
<td>17:15</td>
<td>A future geostationary hyperspectral sensor system - SOUNDING and TRACKING&lt;br&gt;Observatory for Regional Meteorology (STORM)&lt;br&gt;Huang, Hung Lung Allen&lt;br&gt;University of Wisconsin-Madison</td>
<td>Huang, Hung Lung Allen</td>
<td>University of Wisconsin-Madison</td>
</tr>
<tr>
<td>17:30</td>
<td>A GOES-R cal/val overview&lt;br&gt;Robert Iacovazzi&lt;br&gt;NASA Goddard Space Flight Center</td>
<td>Robert Iacovazzi</td>
<td>NASA Goddard Space Flight Center</td>
</tr>
<tr>
<td>17:45</td>
<td>JAXA's approach to meteorological and climatological applications by Earth observation programs&lt;br&gt;Umezawa, Kazuo&lt;br&gt;JAXA Japan Aerospace Exploration Agency</td>
<td>Umezawa, Kazuo</td>
<td>JAXA Japan Aerospace Exploration Agency</td>
</tr>
</tbody>
</table>

**ICEBREAKER COCKTAIL**
Vienna City Hall<br>19:30 - 21:30
MONDAY AFTERNOON, 16 SEPTEMBER

Sessions 1, 2, 3, 4 and 5 are in parallel

SESSION 2
(ZEREMONIENSAAL)
Climate
Chairperson:
Mitchell Goldberg - NOAA/NESDIS
Gabriela Seiz - Federal Office of Meteorology and Climatology MeteoSwiss

16:15 Development of an architecture for climate monitoring from space
Bojinski, Stephan
WMO

16:45 Sustained, Coordinated Processing of Environmental Satellite Data for Climate Monitoring (SCOPE-CM)
Fernández-Serdán, Schüller, Lothar
EUMETSAT

ICEBREAKER COCKTAIL
Vienna City Hall
19:30 - 21:30
### Session 5
**Data access for easy utilisation**

**Chairperson:** Simon Elliot  
**EUMETSAT**

<table>
<thead>
<tr>
<th>Time</th>
<th>Title</th>
<th>Presenter</th>
<th>Institution</th>
</tr>
</thead>
<tbody>
<tr>
<td>14:00</td>
<td>CycloneCenter.org: Citizen Scientists analyzing tropical cyclone satellite imagery</td>
<td>Knapp, Ken</td>
<td>NOAA/NCDC</td>
</tr>
<tr>
<td>14:15</td>
<td>MyOcean central information system: Achievements and perspectives</td>
<td>Claverie, Vincent</td>
<td>CLS Collecte Localisation Satellites</td>
</tr>
<tr>
<td>14:30</td>
<td>Pytroll: From raw satellite data to database archiving of products, a use case</td>
<td>Raspaud, Martin</td>
<td>SMHI Swedish Meteorological and Hydrological Institute</td>
</tr>
<tr>
<td>14:45</td>
<td>EO Portal – The EUMETSAT real-time image gallery</td>
<td>Schick, Michael</td>
<td>EUMETSAT</td>
</tr>
<tr>
<td>15:00</td>
<td>The Meteorological Service of Canada’s Datamart</td>
<td>Tremblay, Miguel</td>
<td>Environment Canada</td>
</tr>
<tr>
<td>15:15</td>
<td>Challenges of using geostationary satellite data for building operational global solar radiation database SolarGIS</td>
<td>Jan, Kanička</td>
<td>GeoModel Solar s.r.o.</td>
</tr>
<tr>
<td>15:30</td>
<td><strong>COFFEE BREAK - POSTER/EXHIBIT VIEWING</strong></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

### Session 5 continued
**Data access for easy utilisation**

**Chairperson:** Harald Rothfuss  
**EUMETSAT**

<table>
<thead>
<tr>
<th>Time</th>
<th>Title</th>
<th>Presenter</th>
<th>Institution</th>
</tr>
</thead>
</table>
| 16:15 | **Keynote Address**  
Sustained data access and tools as key ingredients to strengthening EO capacities: examples from land application perspective | Jacobs, Tim               | VITO Flemish Institute for Technological Research NV |
| 16:45 | A blended training scheme for using a new meteorological workstations system in AEMET-Spain: the satellite layer example | Fernández-Serdán, José Miguel | AEMETAgencia Estatal de Meteorología             |
| 17:00 | Improving forecasters skill by introducing a convective initiation detection at DWD | Fritzsche, Pierre         | DWD Deutscher Wetterdienst                      |
| 17:15 | Processing HRIT MSG data with Meteosatlib for ARPA-SMC real time operational applications | Celano, Miria             | Arpa-smc Emilia Romagna                        |
| 17:30 | Satellite data ingest, archive, redistribution and product generation system | Robaidek, Jerrold         | SSEC Space Science and Engineering Center        |

---

**ICEBREAKER COCKTAIL**  
Vienna City Hall  
19:30 – 21:30
MONDAY AFTERNOON, 16 SEPTEMBER

Sessions 1, 2, 3, 4 and 5 are in parallel

Session 3 continued (PRINZ EUGEN SAAL)
Quantitative applications for nowcasting
Chairperson:
Wayne Feltz
University of Wisconsin-Madison

14:00  **Keynote Address**
RDT-CW: toward a multidimensional description of convection
Moisselin, Jean-Marc
Météo-France

14:30  Towards probabilistic convective initiation for Meteosat Second Generation satellites
Kocsis, Zsofia
OMSZ Hungarian Meteorological Service

14:45  **EARS-NWC** - A new EUMETSAT pilot service providing cloud parameters over Europe in near real time
Dybbroe, Adam
SMHI Swedish Meteorological and Hydrological Institute

15:00  Further investigation of ship wave signatures at top severe storm satellite images
Wang, Pao
University of Wisconsin-Madison

15:15  Lightning distribution during the hailstorms with the overshooting tops
Mikus, Petra
DMHZ Meteorological and Hydrological Service of Croatia

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

Session 3 continued (PRINZ EUGEN SAAL)
Quantitative applications for nowcasting
Chairperson:
Natasa Strelec Mahovic
Meteorological and Hydrological Service, Croatia

16:15  GOES-R proving ground: Results from the 2012 demonstrations and future plans
Feltz, Wayne
University of Wisconsin-Madison

16:30  MeteoCAST: A neural ensemble nowcasting model based on geostationary multispectral imagery for hydro-meteorological applications
de Rosa, Michele
“Sapienza” University of Rome Dept. of Electronic Engineering

16:45  **Synthetic NWC-SAF products for evaluation of regional NWP forecasts of summer convection over Central Europe**
Deneke, Hartwig
Leibniz Institute for Tropospheric Research

17:00  Significant improvements in local forecasts for severe thunderstorms over New Delhi (India) by combined use of satellite derived products and Doppler Weather Radar data during three years period (2010-2012)
Bhatia, Ramesh Chander
IMD India Meteorological Department

17:15  Performance improvements and validation of the cloud top temperature and height algorithms of PPS v2014
Håkansson, Nina
SMHI Swedish Meteorological and Hydrological Institute

17:30  Operational application of the TOOCAN algorithm for the analysis of the MCS life cycles over Brazil
Roca, Remy
CNRS/INSU Centre National de la Recherche Scientifique/ Institut National des Sciences de l’Univers

ICEBREAKER COCKTAIL
Vienna City Hall
19:30 – 21:30
MONDAY AFTERNOON, 16 SEPTEMBER

Sessions 1, 2, 3, 4 and 5 are in parallel

**Session 4**

**Societal benefits of user-focused communication of satellite data, products and services**

**Chairperson:**

Alois M. Holzer
ESSL European Severe Storms Laboratory

<table>
<thead>
<tr>
<th>Time</th>
<th>Presentation</th>
</tr>
</thead>
<tbody>
<tr>
<td>14:00</td>
<td>Societal benefits of the environmental satellites</td>
</tr>
<tr>
<td></td>
<td>Tanner, Michael - tbc</td>
</tr>
<tr>
<td></td>
<td>DOC/NOAA/NESDIS</td>
</tr>
<tr>
<td>14:15</td>
<td>METCAP+: Importance of analysing observations, satellite data, SAF products,</td>
</tr>
<tr>
<td></td>
<td>numerical weather forecasts on the same screen</td>
</tr>
<tr>
<td></td>
<td>Dokuyucu, Kemal</td>
</tr>
<tr>
<td></td>
<td>TSMS Turkish State Meteorological Service</td>
</tr>
<tr>
<td>14:30</td>
<td>Training and application of RGB imagery at the NOAA National Centers via the</td>
</tr>
<tr>
<td></td>
<td>GOES-R proving ground</td>
</tr>
<tr>
<td></td>
<td>Fuell, Kevin</td>
</tr>
<tr>
<td></td>
<td>University of Alabama Huntsville</td>
</tr>
<tr>
<td>14:45</td>
<td>CM4SH: A cross hemispheric project about Conceptual Models (CM)</td>
</tr>
<tr>
<td></td>
<td>Zwatzmeise, Veronika</td>
</tr>
<tr>
<td></td>
<td>ZAMG Zentralanstalt für Meteorologie und Geodynamik (retired)</td>
</tr>
<tr>
<td>15:00</td>
<td>Joint Polar Satellite System (JPSS) data product requirement prioritization:</td>
</tr>
<tr>
<td></td>
<td>Evolving future satellite products and enhancing user collaboration</td>
</tr>
<tr>
<td></td>
<td>Shontz, Kathryn</td>
</tr>
<tr>
<td></td>
<td>NOAA JPSS Program Office</td>
</tr>
<tr>
<td>15:15</td>
<td>Development of FISH4US (fish forecasting utility system): A GIS-based approach</td>
</tr>
<tr>
<td></td>
<td>towards sustainable fisheries management</td>
</tr>
<tr>
<td></td>
<td>Yip, Graceous Von</td>
</tr>
<tr>
<td></td>
<td>National Fisheries Research and Development Institute</td>
</tr>
<tr>
<td>15:30</td>
<td>COFFEE BREAK - POSTER/EXHIBIT VIEWING</td>
</tr>
</tbody>
</table>

**Session 4**

**Societal benefits of user-focused communication of satellite data, products and services**

**Chairperson:**

Ken Carey
Earth Resources Technology, Inc.

<table>
<thead>
<tr>
<th>Time</th>
<th>Presentation</th>
</tr>
</thead>
<tbody>
<tr>
<td>16:15</td>
<td>Multisensory atmospheric data mapping system: A web-based graphic tool for</td>
</tr>
<tr>
<td></td>
<td>multisensor observations of atmospheric data and NWP model forecasts</td>
</tr>
<tr>
<td></td>
<td>Petracca, Marco</td>
</tr>
<tr>
<td></td>
<td>CNR/ISAC Istituto di Scienze dell’Atmosfera e del Clima</td>
</tr>
<tr>
<td>16:30</td>
<td>Understanding your daily media weather report. An Austrian survey</td>
</tr>
<tr>
<td></td>
<td>Keul, Alexander</td>
</tr>
<tr>
<td></td>
<td>University of Salzburg</td>
</tr>
<tr>
<td>16:45</td>
<td>Panel Discussion</td>
</tr>
<tr>
<td></td>
<td>Are we meeting user needs?</td>
</tr>
<tr>
<td></td>
<td>An interactive panel discussion</td>
</tr>
<tr>
<td></td>
<td>End: 18:00</td>
</tr>
</tbody>
</table>

**ICEBREAKER COCKTAIL**

Vienna City Hall

19:30 - 21:30
TUESDAY MORNING, 17 SEPTEMBER

Sessions 1, 2, 3, 6 and 7 are in parallel

**Session 1 continued (FESTSAAL)**
Current and future satellites, instruments and their applications
Chairperson:
Philip Ardanuy - Raytheon
Johannes Schmetz - EUMETSAT

**Session 1 continued (FESTSAAL)**
Current and future satellites, instruments and their applications
Chairperson:
Christopher Velden - University of Wisconsin-Madison
Kenneth Holmlund - EUMETSAT

**08:30**  | **Keynote address**
NOAAs Joint Polar Satellite System and the Suomi NPP satellite: Delivering the next generation of Environmental Earth Observations
Cikanek, Harry
Presented by: Goldberg, Mitchell
NOAA JPSS Program Office

**09:00**  | **Applications of JPSS imagers and sounders to tropical cyclone track and intensity forecasting**
Chirokova, Galina
CIRA Cooperative Institute for Research in the Atmosphere

**09:15**  | **Suomi-NPP VIIRS imagery: RGB applications and product development at CIRA**
Seaman, Curtis
CIRA Cooperative Institute for Research in the Atmosphere

**09:30**  | **VIIRS improvements over MODIS**
Miller, Shawn
Raytheon

**09:45**  | **JPSS S-NPP land surface products: Status of land surface temperature and albedo EDRs**
Yu, Yunyue - tbc
NOAA/NESDIS/STAR

**10:00**  | **COFFEE BREAK - POSTER/EXHIBIT VIEWING**

**11:15**  | **Keynote address**
GCOM overview
Shimoda, Haruhisa
JAXA Japan Aerospace Exploration Agency

**11:45**  | **New developments of Russian meteorological satellite system**
Asmus, Vasily - tbc
SRC Planeta

**12:00**  | **ESA’s Soil Moisture and Ocean Salinity Mission - An overview on the mission’s performance and scientific results**
Mecklenburg, Susanne
ESA/ESRIN

**12:15 - 14:00**
LUNCH BREAK
<table>
<thead>
<tr>
<th>Time</th>
<th>Session Title</th>
<th>Speaker(s)</th>
<th>Institution(s)</th>
</tr>
</thead>
<tbody>
<tr>
<td>08:30</td>
<td><strong>Keynote Address</strong></td>
<td>Schulz, Jörg</td>
<td>EUMETSAT</td>
</tr>
<tr>
<td>09:00</td>
<td>Clear sky radiance maps from MODIS</td>
<td>Ackerman, Steven</td>
<td>University of Wisconsin-Madison</td>
</tr>
<tr>
<td>09:15</td>
<td>Characterizing sensitivities in the MODIS cloud climatological record</td>
<td>Foster, Michael</td>
<td>University of Wisconsin-Madison</td>
</tr>
<tr>
<td>09:30</td>
<td>Assessing spatiotemporal characteristics of clouds using the reprocessed SEVIRI-based cloud property dataset of CM SAF</td>
<td>Stengel, Martin</td>
<td>Presented by: Hollmann, Rainer DWD Deutscher Wetterdienst</td>
</tr>
<tr>
<td>09:45</td>
<td>A multi-sensor statistical approach to cloud radiative forcing over the Arctic</td>
<td>Sedlar, Joseph</td>
<td>SMHI Swedish Meteorological and Hydrological Institute</td>
</tr>
<tr>
<td>10:00</td>
<td>Revisiting changes in cloud top temperatures over Europe using CM-SAFs CLARA-A1 data</td>
<td>Devasthale, Abhay</td>
<td>SMHI Swedish Meteorological and Hydrological Institute</td>
</tr>
<tr>
<td>10:15</td>
<td>Climatological means and variations of tropical precipitation from 15 years of TRMM data</td>
<td>Wang, Jian-Jian</td>
<td>University of Maryland</td>
</tr>
<tr>
<td>10:30</td>
<td><strong>Coffee Break - Poster/Exhibit Viewing</strong></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>
**TUESDAY MORNING, 17 SEPTEMBER**

Sessions 1, 2, 3, 6 and 7 are in parallel

### SESSION 6 (RITTERSAAL)

**Satellite-based observations of the oceans**
**Chairperson:**
Chris Merchant  
University of Edinburgh

<table>
<thead>
<tr>
<th>Time</th>
<th>Title</th>
<th>Speaker/Institution</th>
</tr>
</thead>
</table>
| 08:30 | Evaluation and comparison of SST products from AVHRR, MODIS and VIIRS in SQUAM | Dash, Prasanjit  
NOAA/NESDIS/STAR; CIRA, Colorado State University                                                      |
| 08:45 | SST from polar orbiter satellites (METOP, NOAA and NPP); new OSI-SAF products and developments | Le Borgne, Pierre  
Météo-France                                                                         |
| 09:00 | Five years of Metop-A AVHRR sea surface temperature                       | Marsouin, Anne  
Météo-France                                                                         |
| 09:15 | Validation of IASI L2p core sea surface temperature with the ISAR sea surface reference data | Wimmer, Werenfrid  
University of Southampton                                                             |
| 09:30 | A Physical deterministic inversion for GOES SST retrievals               | Koner, Prabhat  
NOAA/NESDIS/STAR                                                                   |
| 09:45 | Defining optimal brightness temperature simulation adjustment parameters to improve Metop-A/AVHRR SST over the Mediterranean Sea | Tomazic, Igor  
AGO/GHER, University of Liège                                                    |
| 10:00 | Comparison of diurnal warming estimates from unpumped Argo data and SEVIRI satellite observations | Castro, Sandra  
University of Colorado                                                          |
| 10:15 | Modelled and observed diurnal SST signals                                 | Karagal, Ioanna  
DTU Technical University of Denmark                                                  |
| 10:30 | **COFFEE BREAK - POSTER/EXHIBIT VIEWING**                               |                                                      |

### SESSION 6 (RITTERSAAL)

**Satellite-based observations of the oceans**
**Marine Applications**
**Chairperson:**
Axel Andersson  
DWD Deutscher Wetterdienst

<table>
<thead>
<tr>
<th>Time</th>
<th>Title</th>
<th>Speaker/Institution</th>
</tr>
</thead>
</table>
| 11:15 | Occurrence of storm-force winds within the cyclones in the North-Atlantic, adjacent Nordic Seas and the Baffin Bay during winter months: comparison of the satellite wind retrievals with ERA Interim | Maksimovich, Elena  
IFREMER Institut Français de Recherche pour l'Exploitation de la Mer |
| 11:30 | ESA’s eSurge project: Improving storm surge modelling with advanced satellite data products | Deighton, Hugh  
Logica                                                                             |
| 11:45 | Investigating the impact of breaking wave parameterisations on air-sea CO2 fluxes using satellite, model and in situ data from the Oceanflux Greenhouse Gases project database | Hanafin, Jenny - tbc  
IFREMER Institut Français de Recherche pour l'Exploitation de la Mer |
| 12:00 | Weather regimes and air-sea fluxes: Linking the ocean heat budget and the atmosphere | Clayson, Carol  
Woods Hole Oceanographic Institution                                             |
| 12:15 | The daily upward longwave radiation flux for Baltic Sea from MSG/SEVIRI data | Zapadka, Tomasz  
Pomeranian University in Slupsk                                                   |

**12:30 – 14:00**

**LUNCH BREAK**
TUESDAY MORNING, 17 SEPTEMBER

Sessions 1, 2, 3, 6 and 7 are in parallel

Session 3 continued

Quantitative applications for nowcasting

Chairperson:
Natasa Strelec Mahovic
Meteorological and Hydrological Service, Croatia

08:30  A global flood estimation system using satellite rainfall information and a hydrological model
Adler, Robert
University of Maryland

08:45  Usefulness of MSG information for fog top detection in Brazil
Barbosa, Humberto
Federal University of Alagoas

09:00  Latest developments of NEFODINA software in the framework of Hydrological SAF project
Cap. Melfi, Davide
Italian Air Force Meteorological Service
C. N. M. C. A. - Satellite Section

09:15  Satellite identification of gravity waves and the problem of transverse banding
Wimmers, Anthony
University of Wisconsin-Madison

09:30  Case study of a windstorm at Hasselt-Kiewit, 18 August 2011
Putsay, Maria
OMSZ Hungarian Meteorological Service

09:45  Tropopause folding turbulence prediction and its application in mid-latitude weather analysis and forecasting
Shou, Yixuan
CMA/NMSC National Meteorological Satellite Center

10:00  Automated CB/TCU METAR based on radar and satellite data
De Valk, Paul
KNMI Royal Netherlands Meteorological Institute

10:15  COFFEE BREAK - POSTER/EXHIBIT VIEWING

WORKSHOP

Understanding the possible use of MTG-IRS data and products by the Nowcasting community

Chairperson:
Stephen Tjemkes - EUMETSAT

11:15 - 12:30

12:30 - 14:00
LUNCH BREAK
Sessions 1, 2, 3, 6 and 7 are in parallel

SESSION 7
Water vapour observations from satellites
Chairperson:
Remy Roca
CNRS/ INSU Centre National de la Recherche Scientifique/ Institut National des Sciences de l'Univers

08:30 Remote Sensing of atmospheric total column water vapor from five years of POLDER3/PARASOL and A-Train observations
Riedi, Jérôme
LOA-CNRS Laboratoire d'Optique Atmosphérique

08:45 Water vapour column density time series from the GOME, SCIAMACHY and GOME-2 instruments
Grossi, Margherita
DLR-IMF Deutsches Zentrum für Luft- und Raumfahrt/ Institut für Methodik der Fernerkundung

09:00 The validation of GOES-LI and AIRS total precipitable water retrievals using ground based measurements
Dworak, Richard
CIMSS Cooperative Institute for Meteorological Satellite Studies

09:15 Total precipitable water predictions over North America by blending GOES sounder, GPS, and MIRS observations
Hammerling, Dorit
SAMSI Statistical and Applied Mathematical Sciences Institute

09:30 Comparison of GOME-2/Metop total column water vapour with ground-based and in-situ measurements
Kalakoski, Niilo
FMI Finnish Meteorological Institute

09:45 Vertically integrated water vapour derived from NOAA satellites and radiosonde equipments over Nigeria
Adeyemi, Babatunde
Federal University of Technology

10:00 Evaluating satellite retrievals of integrated water vapour by co-located ground-based devices for climate change analysis
Van Malderen, Roeland
RMI Royal Meteorological Institute of Belgium

10:15 Investigation of the effect of ground pixel size on the retrieval of the atmospheric H2O column from UV/vis satellite instruments
Wagner, Thomas
MPI Max-Planck Institut für Chemie

10:30 COFFEE BREAK - POSTER/EXHIBIT VIEWING

SESSION 7 continued
Water vapour observations from satellites
Chairperson:
Steven Ackerman
University of Wisconsin-Madison

11:15 IASI retrievals in the intersection of the signal and forward model subspaces: A new configuration of the optimal estimation method in EUMETSAT's IASI Level 2 processor version 6
Hultberg, Tim
EUMETSAT

11:30 Retrieving temperature and moisture profiles from infrared hyper-spectral measurements over East Asia: Principal component regression method
Jang, Hyun-Sung - tbc
Seoul National University

11:45 Optimised comparisons of IASI 1D-Var water vapour retrievals over GRUAN radiosonde sites for climate studies
Trent, Tim
University of Leicester

12:00 Specific humidity and temperature profiles based on GPS-Radio occultations retrieved from Metop-A and Metop-B
Nielsen, Johannes K.
DMI Danish Meteorological Institute

12:15 Sensitivity study for operational GOES and planned GOES-R sounding benefit using real-time moisture constraints
Birkenheuer, Dan
NOAA/ESRL/GSD

12:30 – 14:00 LUNCH BREAK
TUESDAY AFTERNOON, 17 SEPTEMBER

POSTER SESSION

HOFBURG GALLERIE (1st floor)

GARDEHALLE I (ground floor)

GARDEHALLE II (ground floor)

14:00 – 16:30
POSTER SESSION
TUESDAY AFTERNOON, 17 SEPTEMBER

Sessions, 1, 6 and 7 are in parallel

Session 1 continued  (FESTSAAL)
Current and future satellites, instruments and their applications
Chairperson:
Christopher Velden - University of Wisconsin-Madison
Kenneth Holmlund - EUMETSAT

16:30  Keynote Address
Joint Polar Satellite System's operational and research applications
Goldberg, Mitchell
NOAA/NESDIS

17:00  Light amidst the shadows: A new paradigm of nocturnal environmental application capabilities from the Suomi NPP VIIRS day/night band
Miller, Steven
CIRA Cooperative Institute for Research in the Atmosphere

17:15  VIIRS data in support of operational forecasts
Strabala, Kathleen
CIMSS Cooperative Institute for Meteorological Satellite Studies

17:30  Operational ice charting in moonlight and the use of real-time Suomi NPP VIIRS data at SMHI
Dybbroe, Adam
SMHI Swedish Meteorological and Hydrological Institute

17:45  McIDAS-V, visualization and data analysis for Suomi National Polar-orbiting Partnership
Straka III, William
CIMSS Cooperative Institute for Meteorological Satellite Studies
SESSION 6 continued
(RITERSAAL)
Satellite-based observations of the oceans
Operational Oceanography
Chairperson:
Ewa Kwiatkowska
EUMETSAT

16:30  **Keynote Address**
Re-defining operational: An evolving paradigm for satellite oceanography
DiGiacomo, Paul
NOAA/NESDIS/STAR

17:00  Overview of the NRL ocean surface flux system
Rowley, Clark
Naval Research Laboratory - Stennis Space Center

17:15  MYOCEAN: Pre-operational Copernicus Marine Environment Monitoring Service: Sustainability and dependency on future satellite missions
Dorandeu, Joel
Mercator-Ocean

17:30  Mapping oil for the deepwater horizon oil spill disaster in the Gulf of Mexico
Sheffler, Dustin - tbc
NOAA/NESDIS

17:45  GMES-PURE: Shaping the marine GMES/Copernicus user requirements
Bonekamp, Hans
EUMETSAT
**SESSION 7**

*Water vapour observations from satellites*

**Chairperson:**
Remy Roca
CNRS/INSU Centre National de la Recherche Scientifique/Institut National des Sciences de l'Univers

<table>
<thead>
<tr>
<th>Time</th>
<th>Title</th>
<th>Presenter</th>
<th>Institution</th>
</tr>
</thead>
<tbody>
<tr>
<td>16:30</td>
<td>Assimilation into Met Office convective-scale models of water vapour radiance from cloudy regions</td>
<td>Tubbs, Robert</td>
<td>Met Office</td>
</tr>
<tr>
<td>16:45</td>
<td>Validation of brightness temperatures observed by SAPHIR instrument onboard Megha-Tropiques satellite</td>
<td>Clain, Gaëlle</td>
<td>LATMOS Laboratoire Atmosphères, Milieux, Observations Spatiales</td>
</tr>
<tr>
<td>17:00</td>
<td>Upper tropospheric humidity from Megha-Tropiques: A humidity-convection study</td>
<td>Viltard, Nicolas</td>
<td>LATMOS Laboratoire Atmosphères, Milieux, Observations Spatiales</td>
</tr>
<tr>
<td>17:15</td>
<td>Analysis of a multi-annual time series of total columnar water vapour and upper tropospheric humidity using measurements of MSG-SEVIRI, SSM/I and MERIS</td>
<td>Lindstroem, Rasmus</td>
<td>Freie Universität Berlin</td>
</tr>
</tbody>
</table>
# Wednesday Morning, 18 September

## Sessions 1, 2, 6, 7 and 8 in parallel

### Session 1 continued

**Chairperson:** Mitchell Goldberg  
**NOAA/NESDIS**

- **08:30**  
  **Keynote Address**  
  Multi-sensor field studies of lightning and implications for MTG-LI  
  Höller, Hartmut  
  Deutsches Zentrum für Luft- und Raumfahrt (DLR), Institut für Physik der Atmosphäre, Oberpfaffenhofen, Germany

- **09:00**  
  **A combined IR and lightning rainfall algorithm for application with GOES-R data**  
  Adler, Robert  
  University of Maryland

- **09:15**  
  **Recent changes and developments in EUMETSAT operational winds**  
  Borde, Regis  
  EUMETSAT

- **09:30**  
  **Recent improvements on operational geostationary winds at EUMETSAT**  
  Doutriaux-Boucher, Marie  
  EUMETSAT

- **09:45**  
  **Height correction of AMVs with airborne lidar observations**  
  Folger, Kathrin  
  Hans-Ertel-Centre for Weather Research, Data Assimilation Branch, Ludwig-Maximilians-Universität München

- **10:00**  
  **Using cross-polarization signals for retrieving strong and severe hurricane winds with MetOP-SG**  
  van Zadelhoff, Gerd-Jan  
  KNMI Royal Netherlands Meteorological Institute

- **10:15**  
  **Ocean surface wind vector and atmospheric parameters retrieval under tropical cyclone with WindSat**  
  Yan, Wei  
  College of Meteorology and Oceanography, PLA University of Science and Technology

### Joint Session 1 and 11

**Chairperson:** Steven Miller - CIRA Cooperative Institute for Research in the Atmosphere

- **11:15**  
  **The Sentinel-4 mission, its components and implementation**  
  Stark, Hendrik R. - tbc  
  ESA/ESTEC

- **11:30**  
  **The GMES Sentinel-4 Mission Dedicated to Atmospheric Composition**  
  Veihelmann, Ben  
  ESA/ESTEC

- **11:45**  
  **Tropospheric emissions: Monitoring of pollution (TEMPO)**  
  Chance, Kelly  
  Harvard-Smithsonian Center for Astrophysics

- **12:00**  
  **The Multi-Viewing Multi-Channel Multi-Polarisation Imaging (3MI) Mission of the EUMETSAT Polar System - Second Generation (EPS-SG) dedicated to aerosol characterisation**  
  Thiery Marbach  
  EUMETSAT

- **12:15**  
  **EarthCARE - The ESA and JAXA Cloud-Aerosol-Radiation Satellite Mission**  
  Wehr, Tobias  
  ESA/ESTEC

**12:30 – 14:00**  
**LUNCH BREAK**

**Plenary AMS/EMS**  
**FESTSAAL**  
**12:30 – 13:30**  
**Dominique Marbouty**  
**Marshall Shepherd**

Sandwiches provided for attendees after the plenary

---

EUM/CIS/DOC/09/0403 - 11/06/2013  
Page 2147
WEDNESDAY MORNING, 18 SEPTEMBER

Sessions 1, 2, 6, 7 and 8 are in parallel

SESSION 2 continued (ZEREMONIENSAAL)
Climate
Chairperson:
Gabriela Seiz
Federal Office of Meteorology and Climatology
MeteoSwiss

08:30 Keynote Address
Monitoring the consistency of Earth observation data through land surface modelling: an example for multi-decadal soil moisture from remote sensing
Albergel, Clement
ECMWF

09:00 AMSU/MHS climate data records for hydrological products
Yang, Wenze
University of Wisconsin-Madison

09:15 Observational evidence for changes in the Hadley cell based on 13 years of scatterometer ocean surface wind estimates
Hristova-Veleva, Svetla
JPL Jet Propulsion Laboratory

09:30 Two decades of global and regional sea level observations from the ESA Climate Change Initiative Sea Level Project
Larnicol, Gilles
CLS Collecte Localisation Satellites

09:45 The uncertainty of ocean surface wind climate data records from cross-calibrated data sources and implications on suitability
Bourassa, Mark
Florida State University

10:00 CryoClim: A new operational system and service for climate monitoring of the cryosphere
Solberg, Rune
Norwegian Computing Center

10:15 Radio occultation climate data records at the ROM SAF
Gleisner, Hans
DMI Danish Meteorological Institute

10:15 COFFEE BREAK - POSTER/EXHIBIT VIEWING

SESSION 2 continued (ZEREMONIENSAAL)
Climate
Chairperson:
Gabriela Seiz - Federal Office of Meteorology and Climatology MeteoSwiss
Mitchell Goldberg - NOAA/NESDIS

11:15 Keynote Address
The Climate Modelling User Group initial assessments of CCI datasets
Phulpin, Thierry
CNES Centre National d'Etudes Spatiales

11:45 The use of satellite-derived vegetation characteristics for understanding global and regional climate variability and land cover change and for climate model evaluation
Brunke, Michael
The University of Arizona

12:00 Validation of land surface temperature products with 5 years of permanent in-situ measurements in 4 different climate regions
Göttche, Frank
Karlsruher Institut für Technologie

12:15 The HOAPS climatology version 3.2 release and climate model evaluation using satellite data sets
Andersson, Axel
DWD Deutscher Wetterdienst

12:30 - 14:00 LUNCH BREAK

Plenary AMS/EMS FESTSAAL
12:30 - 13:30
Dominique Marbouty
Marshall Shepherd

Sandwiches provided for attendees after the plenary
WEDNESDAY MORNING, 18 SEPTEMBER

Sessions 1, 2, 6, 7 and 8 are in parallel

<table>
<thead>
<tr>
<th>Time</th>
<th>Title</th>
<th>Speaker</th>
</tr>
</thead>
<tbody>
<tr>
<td>08:30</td>
<td>Scatterometer wind services in Europe</td>
<td>Stoffelen, Ad</td>
</tr>
<tr>
<td></td>
<td></td>
<td>KNMI Royal Netherlands Meteorological Institute</td>
</tr>
<tr>
<td>08:45</td>
<td>Integrating multiple scatterometer observations into a climate data record of ocean vector winds</td>
<td>Ricciardulli, Lucrezia</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Remote Sensing Systems</td>
</tr>
<tr>
<td>09:00</td>
<td>Scatterometer and ECMWF analysis data in the Mediterranean basin. Part II: The wind relative vorticity</td>
<td>Zecchetto, Stefano</td>
</tr>
<tr>
<td></td>
<td></td>
<td>ISAC/CNR Instituto di Scienze dell’Atmosfera e del Clima/ Consiglio Nazionale delle Ricerche</td>
</tr>
<tr>
<td>09:15</td>
<td>Towards a correction of ASCAT ocean measurements for rain effects</td>
<td>Lin, Wenming</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Institut de Ciències del Mar - CSIC, Barcelona, Spain</td>
</tr>
<tr>
<td>09:30</td>
<td>Modelling of microwave Doppler sea spectrum and comparison with real measurements</td>
<td>Fois, Franco - tbc</td>
</tr>
<tr>
<td></td>
<td></td>
<td>ESA</td>
</tr>
<tr>
<td>09:45</td>
<td>Application of singularity analysis on ASCAT wind quality control</td>
<td>Lin, Wenming</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Institut de Ciències del Mar - CSIC, Barcelona, Spain</td>
</tr>
<tr>
<td>10:00</td>
<td>ASCAT-B ocean calibration and wind product results</td>
<td>Verspeek, Jeroen</td>
</tr>
<tr>
<td></td>
<td></td>
<td>KNMI Royal Netherlands Meteorological Institute</td>
</tr>
<tr>
<td>10:15</td>
<td>Calibration and validation of the advanced scatterometer on METOP-B</td>
<td>Anderson, Craig</td>
</tr>
<tr>
<td></td>
<td></td>
<td>EUMETSAT</td>
</tr>
<tr>
<td>11:15</td>
<td>Global model modelling - Effect of assimilation of altimetry data</td>
<td>Sievers, Oliver</td>
</tr>
<tr>
<td></td>
<td></td>
<td>DWD Deutscher Wetterdienst</td>
</tr>
<tr>
<td>11:30</td>
<td>Benefits of multi-mission altimetry and other sources of independent data to validate and estimate the performances of altimetry missions over ocean</td>
<td>Ablain, Michaël - tbc</td>
</tr>
<tr>
<td></td>
<td></td>
<td>CLS Collecte Localisation Satellites</td>
</tr>
<tr>
<td>11:45</td>
<td>Investigating short wavelength correlated errors on low-resolution mode altimetry</td>
<td>Thibaut, Pierre</td>
</tr>
<tr>
<td></td>
<td></td>
<td>CLS Collecte Localisation Satellites</td>
</tr>
<tr>
<td>12:00</td>
<td>Towards an error budget for SAR altimetry over the ocean: From Cryosat-2 SAR to the Sentinel-3 surface topography mission and Jason-CS</td>
<td>Bonekamp, Hans</td>
</tr>
<tr>
<td></td>
<td></td>
<td>EUMETSAT</td>
</tr>
<tr>
<td>12:15</td>
<td>Marine collaborative ground segment: Overview of the Sentinel-3 topography platform</td>
<td>Obligis, Estelle</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Presented by: Stephanie Limouzin</td>
</tr>
<tr>
<td></td>
<td></td>
<td>CLS Collecte Localisation Satellites</td>
</tr>
<tr>
<td>12:30</td>
<td>LUNCH BREAK</td>
<td></td>
</tr>
</tbody>
</table>

Plenary AMS/EMS

FESTSAAL

12:30 - 13:30

Dominique Marbouty
Marshall Shepherd

Sandwiches provided for attendees after the plenary
WEDNESDAY MORNING, 18 SEPTEMBER

Sessions 1, 2, 6, 7 and 8 are in parallel

Session 8  (PRINZ EUGEN SAAL)
Instrument calibration and characterisation
Visible channels
Chairperson:
Fangfang Yu - ERT.Inc.@NOAA/NESDIS/STAR
Tim Hewison - EUMETSAT

08:30  **Keynote Address**
Vicarious calibrations of GOES Imager visible channels
Yu, Fangfang
ERT.Inc.@NOAA/NESDIS/STAR

09:00  Towards the generation of GSICS corrections for the SEVIRI VIS 0.6 band, using MODIS/Aqua as a reference and Deep Convective Clouds as transfer targets
Wagner, Sébastien
EUMETSAT

09:15  Lunar calibration of Meteosat Second Generation SEVIRI solar channels
Viticchie, Bartolomeo
EUMETSAT

09:30  Multi-satellites normalization of the visible detectors equipped on the FengYun-2 geostationary meteorological satellites
Li, Yuan
CMA/NMSC National Meteorological Satellite Center

09:45  Geometric accuracy assessment of MSG-SEVIRI level 1.5 imagery
Kocaman Aksakal, Sultan
Eidgenössische Technische Hochschule Zürich

10:00  Let's talk dirty again: Throughput recovery and contaminated mirrors in space
Krijger, Matthijs
SRON Netherlands Institute for Space Research

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

Session 8 continued  (PRINZ EUGEN SAAL)
Instrument calibration and characterisation
VIS + IR Calibration
Chairperson:
Fangfang Yu - ERT.Inc.@NOAA/NESDIS/STAR
Tim Hewison - EUMETSAT

11:15  **Keynote Address**
Calibration inter-comparison of S-NPP VIIRS and aqua MODIS reflective solar bands
Xiong, Xiaoxiong
NASA Goddard Space Flight Center

11:45  Validation of ATOVS/AVHRR Onboard Metop-B
Ackermann, Jörg
EUMETSAT

12:00  Satellite inter-calibration and Polar observations from Highly Elliptical Orbit (HEO): Modeling study
Trishchenko, Alexander
Canada Centre for Remote Sensing

12:15 - 14:00  LUNCH BREAK

**Plenary AMS/EMS**
FESTSAAL
12:30 - 13:30  Dominique Marbouty
Marshall Shepherd

Sandwiches provided for attendees after the plenary
WEDNESDAY MORNING, 18 SEPTEMBER

SESSION 7 continued (FORUM)
Water vapour observations from satellites
Chairperson:
Remy Roca
CNRS/INSU Centre National de la Recherche Scientifique/Institut National des Sciences de l’Univers

08:30 Evapotranspiration monitoring in semi-arid areas using MSG/SEVIRI derived data: Improvements from the use of leaf area index and land surface temperature
Ghilain, Nicolas
RMI Royal Meteorological Institute of Belgium

08:45 A 25-year satellite microwave total precipitable water data set for use in climate study
Smith, Deborah K.
Remote Sensing Systems

09:00 NASA Water Vapor Project-MEaSUREs (NVAP-M) global water vapor dataset: Early results for climate studies
Vonder Haar, Thomas
CIRA Cooperative Institute for Research in the Atmosphere

09:15 A multi-sensor water vapor, temperature and cloud climate data record from the A-Train
Fetzer, Eric
Jet Propulsion Laboratory

09:30 Development of a 10 years China land surface energy balance product
Chen, Xuelong
ITC International Institute for Geo-information Science and Earth Observation

09:45 Impact of the FTH on the OLR in the intertropical belt: Observations and climate models
Picon, Laurence
LMD / UPMC

10:00 Climatology of free tropospheric humidity: Extension to SEVIRI, evaluation and trend assessment
Schroeder, Marc
DWD Deutscher Wetterdienst

10:15 Monitoring long-term variations in upper and mid-tropospheric water vapor from microwave satellite observations
Soden, Brian
University of Miami

10:30 COFFEE BREAK - POSTER/EXHIBIT VIEWING

SESSION 9 (FORUM)
Modelling and assimilation of water vapour, clouds and precipitation
Chairperson:
Derek Posselt
University of Michigan

11:15 Assimilation of pre-GPM constellation microwave radiances over land in the Goddard high-resolution WRF ensemble data assimilation system
Zhang, Sara
NASA Goddard Space Flight Center

11:30 A robust observation operator and associated background covariances to assimilate rain microwave radiances into cloud-permitting models
Haddad, Ziad
Jet Propulsion Laboratory

11:45 Assimilation of satellite radiances in all sky conditions at ECMWF
Geer, Alan
ECMWF

12:00 Enhancing the use of hyperspectral radiances in the water vapour absorption band at ECMWF
Eresmaa, Reima
ECMWF

12:15 Experimental assimilation of space-borne cloud radar and lidar observations at ECMWF
Janiskova, Marta
ECMWF

12:30 – 14:00 LUNCH BREAK

Plenary AMS/EMS
FESTSAAL
12:30 – 13:30
Dominique Marbouty
Marshall Shepherd

Sandwiches provided for attendees after the plenary
WEDNESDAY AFTERNOON, 18 SEPTEMBER

POSTER SESSION

HOFBURG GALLERIE (1st floor)

GARDEHALLE I (ground floor)

GARDEHALLE II (ground floor)

14:00 - 16:30
POSTER SESSION
**WEDNESDAY AFTERNOON, 18 SEPTEMBER**

Sessions 1, 6, 8 and 9 are in parallel

**Session 1 continued**
(FESTSAAL)

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

**Chairperson:**
William Smith

**University of Wisconsin-Madison**

---

16:30  **Keynote Address**

The IASI-NG program: A CNES/Eumetsat cooperation for a new generation of Infrared Atmospheric Sounding Interferometer

Bermudo, Francisco
CNES Centre National d'Etudes Spatiales

17:00  **The IASI-NG mission onboard MetOp-SG: scientific objectives and expected results**

Crevoisier, Cyril
LMD-CNRS Laboratoire de Météorologie Dynamique

17:15  **IASI-NG Phase A Instrument Study**

Bernard, Frédéric
CNES/CST Centre Spatial de Toulouse

17:30  **IASI on MetOp-B performance status**

Jacquette, Elsa
CNES/CST Centre Spatial de Toulouse

17:45  **Status and evolution of the operational IASI L2 products at EUMETSAT: An introduction to the version 6**

August, Thomas
EUMETSAT

---

**CONFERENCE DINNER**

Orangerie Schönbrunn

19:00 - 23:00

Departure from Hofburg at 18:45
### SESSION 6 continued

**Satellite-based observations of the oceans**

**Sea Surface Salinity and Ocean Colour**

**Chairperson:** Joel Dorandeu

**Mercator-Ocean**

<table>
<thead>
<tr>
<th>Time</th>
<th>Title</th>
<th>Presenter(s)</th>
<th>Institution</th>
</tr>
</thead>
<tbody>
<tr>
<td>16:30</td>
<td>Aquarius/SACD surface salinity measurements status and results after two years</td>
<td>Lagerloef, Gary</td>
<td>Earth &amp; Space Research</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Presented by: Lee, Tong - tbc</td>
<td></td>
</tr>
<tr>
<td>16:45</td>
<td>Aquarius sea surface salinity bring new understanding to intraseasonal variability in tropical oceans</td>
<td>Lee, Tong</td>
<td>JPL Jet Propulsion Laboratory</td>
</tr>
<tr>
<td>17:00</td>
<td>Accomplishments of the first International Ocean Colour Science meeting</td>
<td>Kwiatkowska, Ewa</td>
<td>EUMETSAT</td>
</tr>
<tr>
<td>17:15</td>
<td>The use of full disk SEVIRI to study suspended sediments in a variety of coastal waters</td>
<td>Vanhellemont, Quinten</td>
<td>Royal Belgian Institute of Natural Sciences</td>
</tr>
<tr>
<td>17:30</td>
<td>Validation of three atmospheric correction algorithms for GOCI using in-situ measurements</td>
<td>Zhang, Minwei</td>
<td>Chinese Academy of Sciences</td>
</tr>
<tr>
<td>17:45</td>
<td>On the effect of internal tidal waves in remote sensing near-surface chlorophyll products</td>
<td>Muacho, Sérgio</td>
<td>Portuguese Institute for Ocean and Atmosphere</td>
</tr>
</tbody>
</table>

**CONFERENCE DINNER**

*Orangerie Schönbrunn*

19:00 - 23:00

Departure from Hofburg at 18:45
WEDNESDAY AFTERNOON, 18 SEPTEMBER

Sessions 1, 6, 8 and 9 are in parallel

Session 8 continued (PRINZEUGEN SAAL)
Instrument calibration and characterisation
UV/VIS channels
Chairperson:
Rosemary Munro
EUMETSAT

16:30  **Keynote Address**
GOME-2 level 1 calibrated radiances for atmospheric composition retrievals from two operational Metop satellites
Lang, Ruediger
EUMETSAT

17:00  **Sentinel-4/UVN calibration and characterisation approach**
Ahlers, Berit
ESA/ESTEC

17:15  **Status of Suomi NPP OMPS Nadir sensors calibration and validation**
Wu, Xiangqian - tbc
NOAA/NESDIS/STAR

17:30  **Initial performance and calibration of the Suomi NPP OMPS Limb Profiler**
Jaross, Glen
NASA Goddard Space Flight Center

17:45  **On the S-NPP Ozone Mapper Profiler Suite Nadir Sensor Data Record**
Pan, Chunhui
University of Maryland

**CONFERENCE DINNER**
Orangerie Schönbrunn
19:00 - 23:00

Departure from Hofburg at 18:45
### SESSION 9 continued

**Water vapour observations from satellites**

**Chairperson:**
Tony McNally
ECMWF

<table>
<thead>
<tr>
<th>Time</th>
<th>Title</th>
<th>Speaker</th>
<th>Institution</th>
</tr>
</thead>
<tbody>
<tr>
<td>16:30</td>
<td>The Impact of assimilating cloud-affected infrared radiances into the GEOS-5 data assimilation system</td>
<td>McCarty, Will</td>
<td>NASA Goddard Space Flight Center</td>
</tr>
<tr>
<td>16:45</td>
<td>The use of FengYun satellite data in short-range precipitation forecasting in China</td>
<td>Liu, Ruixia</td>
<td>CMA China Meteorological Administration</td>
</tr>
<tr>
<td>17:00</td>
<td>Evaluation of ice clouds in COSMO-DE with satellite observations</td>
<td>Reitter, Sonja</td>
<td>Universität zu Köln</td>
</tr>
<tr>
<td>17:15</td>
<td>Assimilation of cloud information into a short-range numerical weather prediction model with an ensemble Kalman filter</td>
<td>Schomburg, Annika</td>
<td>DWD Deutscher Wetterdienst</td>
</tr>
<tr>
<td>17:30</td>
<td>Assimilation of water vapor sensitive infrared brightness temperatures during a high impact weather event</td>
<td>Otkin, Jason</td>
<td>University of Wisconsin-Madison</td>
</tr>
</tbody>
</table>

**CONFERENCE DINNER**

Orangerie Schönbrunn

19:00 - 23:00

Departure from Hofburg at 18:45
### Session 1 continued
#### Current and future satellites, instruments and their applications
**Chairperson:**
*Dieter Klaes*
EUMETSAT

<table>
<thead>
<tr>
<th>Time</th>
<th>Title</th>
<th>Presenter</th>
<th>Institution</th>
</tr>
</thead>
<tbody>
<tr>
<td>08:30</td>
<td>Satellite ultra-spectral soundings: Validation using airborne and ground-based measurements</td>
<td>Smith, William</td>
<td>University of Wisconsin-Madison</td>
</tr>
<tr>
<td>08:45</td>
<td>A verification study over Europe of AMSU-A/MHS and SSMIS passive microwave precipitation retrievals</td>
<td>Panegrossi, Giulia</td>
<td>CNR/ISAC Institute of Atmospheric Sciences and Climate</td>
</tr>
<tr>
<td>09:00</td>
<td>Global soil moisture data products from AMSR2 and other satellite sensors</td>
<td>Zhan, Xiwu - tbc</td>
<td>NOAA/NESDIS/STAR</td>
</tr>
<tr>
<td>09:15</td>
<td>Updating the Goddard Profiling Algorithm 2010 (GPROF2010) for AMSR-E and AMSR2</td>
<td>Meyers, Patrick</td>
<td>University of Maryland</td>
</tr>
<tr>
<td>09:30</td>
<td>Infrared Land Surface Emissivity Diurnal Variation from SEVIRI</td>
<td>Li, Zhenglong</td>
<td>CIMSS Cooperative Institute for Meteorological Satellite Studies</td>
</tr>
<tr>
<td>09:45</td>
<td>Comparison of SEVIRI and IASI emissivity retrievals over Sahara desert during the dry season</td>
<td>Masiello, Guido</td>
<td>University of Basilicata</td>
</tr>
<tr>
<td>10:00</td>
<td>Applications of NOAA’s operational Sea Surface Temperatures products</td>
<td>Maturi, Eileen</td>
<td>NOAA/NESDIS/STAR</td>
</tr>
<tr>
<td>10:15</td>
<td>MISR stereo observations of Kálmán vortex streets</td>
<td>Horvath, Akos</td>
<td>Leibniz Institute for Tropospheric Research</td>
</tr>
<tr>
<td>10:30</td>
<td><strong>COFFEE BREAK - POSTER/EXHIBIT VIEWING</strong></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td><strong>SESSION 1 CONTINUED</strong></td>
<td></td>
<td></td>
</tr>
<tr>
<td>11:15</td>
<td>METimage: The Visible/ Infrared Imager (VII) for EPS-SG</td>
<td>Bruens, Christian</td>
<td>DLR Deutsches Zentrum für Luft- und Raumfahrt</td>
</tr>
<tr>
<td>11:30</td>
<td>SMOS data products and applications: The potential for operational Numerical Weather Prediction</td>
<td>Drusch, Matthias</td>
<td>ESA/ESTEC</td>
</tr>
<tr>
<td>11:45</td>
<td>The MicroMAS CubeSat, mission: Demonstration of a core element of atmospheric constellation sensing</td>
<td>Blackwell, William</td>
<td>MIT Lincoln Laboratory</td>
</tr>
<tr>
<td>12:00</td>
<td>Progress on development of new products expected from Japanese follow-on geostationary meteorological satellites HIMAWARI-8/9</td>
<td>Tsuchiyama, Hiroaki</td>
<td>MSC/JMA Meteorological Satellite Center/ Japan Meteorological Agency</td>
</tr>
<tr>
<td>12:15</td>
<td>Progress in developing a geostationary microwave sounder</td>
<td>Lambrigtsen, Bjorn - tbc</td>
<td>JPL et Propulsion Laboratory, California Institute of Technology</td>
</tr>
</tbody>
</table>

#### Session 1 continued
#### Current and future satellites, instruments and their applications
**Chairperson:**
*Paul Ingmann*
ESA/ESTEC

<table>
<thead>
<tr>
<th>Time</th>
<th>Title</th>
<th>Presenter</th>
<th>Institution</th>
</tr>
</thead>
<tbody>
<tr>
<td>11:15</td>
<td>METimage: The Visible/ Infrared Imager (VII) for EPS-SG</td>
<td>Bruens, Christian</td>
<td>DLR Deutsches Zentrum für Luft- und Raumfahrt</td>
</tr>
<tr>
<td>11:30</td>
<td>SMOS data products and applications: The potential for operational Numerical Weather Prediction</td>
<td>Drusch, Matthias</td>
<td>ESA/ESTEC</td>
</tr>
<tr>
<td>11:45</td>
<td>The MicroMAS CubeSat, mission: Demonstration of a core element of atmospheric constellation sensing</td>
<td>Blackwell, William</td>
<td>MIT Lincoln Laboratory</td>
</tr>
<tr>
<td>12:00</td>
<td>Progress on development of new products expected from Japanese follow-on geostationary meteorological satellites HIMAWARI-8/9</td>
<td>Tsuchiyama, Hiroaki</td>
<td>MSC/JMA Meteorological Satellite Center/ Japan Meteorological Agency</td>
</tr>
<tr>
<td>12:15</td>
<td>Progress in developing a geostationary microwave sounder</td>
<td>Lambrigtsen, Bjorn - tbc</td>
<td>JPL et Propulsion Laboratory, California Institute of Technology</td>
</tr>
</tbody>
</table>
THURSDAY MORNING, 19 SEPTEMBER

Sessions 1, 8, 10, 11 and 12 are in parallel

SESSION 10  (ZEREMONIENSAAL)
Cloud observations from satellites, including 30 years ISCCP
Chairperson:
Jörg Schulz
EUMETSAT

08:30 KEYNOTE ADDRESS
Clouds as Harbingers of Weather
Rossow, William
City College of New York

09:00 The role of clouds in the radiation budget in the Southern Ocean
Bodas-Salcedo, Alejandro
Met Office

09:15 Trends and variability in cloud heights and cloud motion vectors based on 13 years of pole-to-pole observations from MISR
Garay, Michael
JPL Jet Propulsion Laboratory

09:30 The cloud cover vertical distribution and its diurnal cycle observed from multi-geostationary data
Seze, Genevieve
LMD Laboratoire de Météorologie Dynamique/IPSL, CNRS et Université Pierre et Marie Curie

09:45 Extension of the NOAA AVHRR PATMOS-x cloud climate record to other NOAA sensors (GOES and VIIRS)
Heidinger, Andrew
NOAA

10:00 Global cloud trends derived from a decade of polar-orbiting hyperspectral sounder measurements
Weisz, Elisabeth
Space Science and Engineering Center, University of Wisconsin-Madison

10:15 Exploring changes in North American cloudiness using the PATMOS-x AVHRR cloud climate record
Foster, Michael
University of Wisconsin-Madison

10:30 COFFEE BREAK - POSTER/EXHIBIT VIEWING

SESSION 10 continued  (ZEREMONIENSAAL)
Cloud observations from satellites, including 30 years ISCCP
Chairperson:
Elisabeth Weisz - Space Science and Engineering Center, University of Wisconsin-Madison

11:15 Cloud liquid water and ice in the mid-troposphere: Comparing observations and models
Nasiri, Shaima
Texas A&M University

11:30 Global Cloud Property Continuity from MODIS to Suomi NPP Sensors
Baum, Bryan
SSEC Space Science and Engineering Center

11:45 A process-oriented evaluation of a European Earth System Model (EC-EARTH) using nearly three decades of the CM-SAF's CLARA-A1 data
Devasthale, Abhay
SMHI Swedish Meteorological and Hydrological Institute

12:00 Combining ground- and satellite-based observations to analyse cloud frontal systems
Hünerbein, Anja
Leibniz-Institute for Tropospheric Research

12:15 – 14:00 LUNCH BREAK
**SESSION 11**

**Atmospheric composition**

**Chairperson:**

Jianglong Zhang  
University of North Dakota

<table>
<thead>
<tr>
<th>Time</th>
<th>Session</th>
<th>Title</th>
<th>Speaker</th>
<th>Institution</th>
</tr>
</thead>
<tbody>
<tr>
<td>08:30</td>
<td>Keynote</td>
<td>The NASA decadal survey GEO-CAPE mission and synergistic opportunities for a geostationary satellite constellation</td>
<td>Edwards, David</td>
<td>NCAR National Center for Atmospheric Research</td>
</tr>
<tr>
<td>09:00</td>
<td>08:30</td>
<td>The status of implementation of ESA’s GMES Atmospheric Service (GAS) related missions</td>
<td>Ingmann, Paul</td>
<td>ESA/ESTEC</td>
</tr>
<tr>
<td>09:15</td>
<td>08:30</td>
<td>The use of IASI and GOME-2 atmospheric composition data in the MACC-II data assimilation system</td>
<td>Inness, Antje</td>
<td>ECMWF</td>
</tr>
<tr>
<td>09:30</td>
<td>08:30</td>
<td>Global distributions and 5-year time series in the concentration of reactive species retrieved from IASI/MetOp</td>
<td>Coheur, Pierre-François</td>
<td>Université Libre de Bruxelles</td>
</tr>
<tr>
<td>09:45</td>
<td>08:30</td>
<td>New organic molecules from ACE-FTS observations</td>
<td>Harrison, Jeremy</td>
<td>University of York</td>
</tr>
<tr>
<td>10:00</td>
<td>08:30</td>
<td>Towards a multi-instrument analysis of atmospheric composition in fire driven ecosystems</td>
<td>Smith, Nadia</td>
<td>CIMSS Cooperative Institute for Meteorological Satellite Studies</td>
</tr>
<tr>
<td>10:15</td>
<td>08:30</td>
<td>Using IASI and MIPAS in combination to characterise CO and other volatile organic compound emissions from fires</td>
<td>Moore, David</td>
<td>University of Leicester/NCEO</td>
</tr>
<tr>
<td>10:30</td>
<td>08:30</td>
<td>COFFEE BREAK - POSTER/EXHIBIT VIEWING</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

**SESSION 11 continued**

**Atmospheric composition**

**Chairperson:**

Steven Miller - CIRA Cooperative Institute for Research in the Atmosphere

<table>
<thead>
<tr>
<th>Time</th>
<th>Session</th>
<th>Title</th>
<th>Speaker</th>
<th>Institution</th>
</tr>
</thead>
<tbody>
<tr>
<td>11:15</td>
<td>09:00</td>
<td>Trace gas column observations from the GOME-2 instruments on MetOp-A and B</td>
<td>Valks, Pieter</td>
<td>DLR-IMF Deutsches Zentrum für Luft- und Raumfahrt/ Institut für Methodik der Fernerkundung</td>
</tr>
<tr>
<td>11:30</td>
<td>09:00</td>
<td>Intercomparison of global nitrogen dioxide trends derived from multiple satellite instruments</td>
<td>Schneider, Philipp</td>
<td>NILU Norwegian Institute for Air Research</td>
</tr>
<tr>
<td>11:45</td>
<td>09:00</td>
<td>OMI bromine monoxide measurements: Operational data analysis algorithm and initial validation</td>
<td>Suleiman, Raid M.</td>
<td>Harvard-Smithsonian Center for Astrophysics</td>
</tr>
<tr>
<td>12:00</td>
<td>09:00</td>
<td>Space assessment of the heavy pollution episodes over East China</td>
<td>Hao, Nan - tbc</td>
<td>DLR-IMF Deutsches Zentrum für Luft- und Raumfahrt/ Institut für Methodik der Fernerkundung</td>
</tr>
<tr>
<td>12:15</td>
<td>09:00</td>
<td>Observations of sulphur dioxide in the planetary boundary layer from the nadir thermal infrared IASI sounder</td>
<td>Bauduin, Sophie</td>
<td>Université Libre de Bruxelles</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Time</th>
<th>Event</th>
</tr>
</thead>
<tbody>
<tr>
<td>12:30</td>
<td>LUNCH BREAK</td>
</tr>
</tbody>
</table>

**SESSION 11 continued**

**Atmospheric composition**

**Chairperson:**

Steven Miller - CIRA Cooperative Institute for Research in the Atmosphere

<table>
<thead>
<tr>
<th>Time</th>
<th>Session</th>
<th>Title</th>
<th>Speaker</th>
<th>Institution</th>
</tr>
</thead>
<tbody>
<tr>
<td>11:15</td>
<td>09:00</td>
<td>Trace gas column observations from the GOME-2 instruments on MetOp-A and B</td>
<td>Valks, Pieter</td>
<td>DLR-IMF Deutsches Zentrum für Luft- und Raumfahrt/ Institut für Methodik der Fernerkundung</td>
</tr>
<tr>
<td>11:30</td>
<td>09:00</td>
<td>Intercomparison of global nitrogen dioxide trends derived from multiple satellite instruments</td>
<td>Schneider, Philipp</td>
<td>NILU Norwegian Institute for Air Research</td>
</tr>
<tr>
<td>11:45</td>
<td>09:00</td>
<td>OMI bromine monoxide measurements: Operational data analysis algorithm and initial validation</td>
<td>Suleiman, Raid M.</td>
<td>Harvard-Smithsonian Center for Astrophysics</td>
</tr>
<tr>
<td>12:00</td>
<td>09:00</td>
<td>Space assessment of the heavy pollution episodes over East China</td>
<td>Hao, Nan - tbc</td>
<td>DLR-IMF Deutsches Zentrum für Luft- und Raumfahrt/ Institut für Methodik der Fernerkundung</td>
</tr>
<tr>
<td>12:15</td>
<td>09:00</td>
<td>Observations of sulphur dioxide in the planetary boundary layer from the nadir thermal infrared IASI sounder</td>
<td>Bauduin, Sophie</td>
<td>Université Libre de Bruxelles</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Time</th>
<th>Event</th>
</tr>
</thead>
<tbody>
<tr>
<td>12:30</td>
<td>LUNCH BREAK</td>
</tr>
</tbody>
</table>
THURSDAY MORNING, 19 SEPTEMBER

Sessions 1, 8, 10, 11 and 12 are in parallel

Session 8 continued
(PRINZ EUGEN SAAL)
Instrument calibration and characterisation
Microwave
Chairperson:
Tim Hewison
EUMETSAT

08:30 On-orbit Performance of Suomi NPP Advanced Technology Microwave Sounder (ATMS)
Weng, Fuzhong
Center for Satellite Applications and Research

08:45 The use of SAPHIR on megha-tropiques for intercalibration of polar-orbiting microwave water vapor sounders
Wilheit, Thomas
Texas A&M University

09:00 Calibration and validation results of the Advanced Microwave Scanning Radiometer 2 (AMSR2)
Kachi, Misako
JAXA Japan Aerospace Exploration Agency

09:15 Intercalibration and characterization of microwave imagers for both GPM and long-term climate applications
Berg, Wesley
Colorado State University

09:30 Towards a consensus fundamental climate data record of SSM/I brightness temperatures
Fennig, Karsten
DWD Deutscher Wetterdienst

09:45 The data quality and stability of FY-3A/B
Lu, Qifeng
NSMC/CMA National Satellite Meteorological Center, Chinese Meteorological Administration

10:00 Improved radiative transfer modelling of AMSU-A temperature sounding channels
Bell, William
Met Office

10:15 An improved bias correction scheme for SSMIS
Booton, Anna
Met Office

10:30 COFFEE BREAK - POSTER/EXHIBIT VIEWING

Session 8 continued
(PRINZ EUGEN SAAL)
Instrument calibration and characterisation
IR Hyperspectral
Chairperson:
Fuzhong Weng
Center for Satellite Applications and Research

11:15 Keynote Address
GSICS inter-calibration of Geostationary IR Imagers: Migrating from Metop-A/IASI to Metop-B/IASI as Reference
Hewison, Tim
EUMETSAT

11:45 In orbit determination and validation of Spectral Response Function using IASI radiances
Bali, Manik
University of Maryland

12:15 Intercomparisons of IASI and AATSR calibrated radiances
Remedios, John
University of Leicester/NC EO

12:30 - 14:00 LUNCH BREAK
<table>
<thead>
<tr>
<th>Time</th>
<th>Session 12</th>
<th>Session 12 continued</th>
</tr>
</thead>
<tbody>
<tr>
<td>08:30</td>
<td>Keynote Address</td>
<td>Keynote Address</td>
</tr>
<tr>
<td></td>
<td>A targeted OSE to determine relative impact of NPP-ATMS, NOAA18 AMSU/MHS, and NOAA19 AMSU/MHS observing systems</td>
<td>Preliminary assessment of GCOM-W1/AMSR2 radiance data with a numerical prediction model</td>
</tr>
<tr>
<td></td>
<td>Ruston, Benjamin - tbc</td>
<td>Kazumori, Masahiro - JMA Japan Meteorological Agency</td>
</tr>
<tr>
<td></td>
<td>Naval Research Laboratory, Monterey</td>
<td>Naval Research Laboratory, Monterey</td>
</tr>
<tr>
<td>09:00</td>
<td>Satellite data assimilation latency impacts on numerically simulated weather forecast: Initial case study results</td>
<td>Impact of SSMIS imager channels assimilation on hurricane analyses and forecasts</td>
</tr>
<tr>
<td></td>
<td>Shontz, Kathryn - NOAA JPSS Program Office</td>
<td>Han, Wei - CMA/NPC China Meteorological Administration Numerical Prediction Center</td>
</tr>
<tr>
<td>09:15</td>
<td>Assimilation of data from the Suomi-NPP satellite at the Met Office</td>
<td>All-sky assimilation of microwave radiances at ECMWF: Extension to land surfaces and to the new sensors SAPHIR and MADRAS</td>
</tr>
<tr>
<td></td>
<td>Smith, Andrew - Met Office</td>
<td>Baordo, Fabrizio - ECMWF</td>
</tr>
<tr>
<td>09:30</td>
<td>Satellite radiance assimilation impact in new Canadian ensemble-variational system</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Garand, Louis - Environment Canada</td>
<td></td>
</tr>
<tr>
<td>09:45</td>
<td>Use and impacts of satellite observations in GRAPES</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Liu, Yan - China Meteorological Administration</td>
<td></td>
</tr>
<tr>
<td>10:00</td>
<td>Assessing the impact of advanced satellite sounding instruments in the NASA GEOS-5 forecast system</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Gelaro, Ron - NASA Goddard Space Flight Center</td>
<td></td>
</tr>
<tr>
<td>10:15</td>
<td>Improving tropical cyclone forecasts by assimilating microwave and advanced IR sounder measurements</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Li, Jun - University of Wisconsin-Madison</td>
<td></td>
</tr>
<tr>
<td>10:30</td>
<td>COFFEE BREAK - POSTER/EXHIBIT VIEWING</td>
<td></td>
</tr>
</tbody>
</table>

**SESSION 12 continued**

Chairperson: Ben Ruston - tbc

**Naval Research Laboratory, Monterey**

<table>
<thead>
<tr>
<th>Time</th>
<th>Session 12 continued</th>
<th>12:15 - 14:00</th>
</tr>
</thead>
<tbody>
<tr>
<td>11:15</td>
<td>Keynote Address</td>
<td>LUNCH BREAK</td>
</tr>
<tr>
<td></td>
<td>Preliminary assessment of GCOM-W1/AMSR2 radiance data with a numerical prediction model</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Kazumori, Masahiro</td>
<td></td>
</tr>
<tr>
<td></td>
<td>JMA Japan Meteorological Agency</td>
<td></td>
</tr>
<tr>
<td>11:45</td>
<td>Impact of SSMIS imager channels assimilation on hurricane analyses and forecasts</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Han, Wei</td>
<td></td>
</tr>
<tr>
<td></td>
<td>CMA/NPC China Meteorological Administration Numerical Prediction Center</td>
<td></td>
</tr>
<tr>
<td>12:00</td>
<td>All-sky assimilation of microwave radiances at ECMWF: Extension to land surfaces and to the new sensors SAPHIR and MADRAS</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Baordo, Fabrizio</td>
<td></td>
</tr>
<tr>
<td></td>
<td>ECMWF</td>
<td></td>
</tr>
</tbody>
</table>
### Session 1 continued

#### Chairperson:
Regis Borde  
EUMETSAT

<table>
<thead>
<tr>
<th>Time</th>
<th>Title</th>
<th>Speaker</th>
<th>Institution</th>
</tr>
</thead>
<tbody>
<tr>
<td>14:00</td>
<td>Estimation of the solar radiation at the ground surface using geostationary satellites and radiative transfer calculation: renewable energy and the satellite remote sensing</td>
<td>Nakajima, Takashi</td>
<td>Tokai University</td>
</tr>
<tr>
<td>14:15</td>
<td>Challenges for soil moisture retrieval from C-band backscatter measurements in arid and semi-arid environments</td>
<td>Hahn, Sebastian</td>
<td>Technische Universität Wien</td>
</tr>
<tr>
<td>14:30</td>
<td>Exploring RTTOV to retrieve Land Surface Temperature from a geostationary satellite constellation</td>
<td>Bento, Virgílio A.</td>
<td>Instituto Dom Luiz, Universidade de Lisboa</td>
</tr>
<tr>
<td>14:45</td>
<td>Fire monitoring products based on information from MSG-SEVIRI: A systematic comparison over Brazil</td>
<td>DaCamara, Carlos</td>
<td>Universidade de Lisboa</td>
</tr>
<tr>
<td>15:00</td>
<td>Robust Satellite Technique (RST-FIRES) for timely detection of forest fires by geostationary satellite data</td>
<td>Tramutoli, Valerio</td>
<td>University of Basilicata</td>
</tr>
<tr>
<td>15:15</td>
<td>Vegetation modelling in WARP 6.0</td>
<td>Melzer, Thomas</td>
<td>Technische Universität Wien</td>
</tr>
<tr>
<td>15:30</td>
<td>The effects of gap wind induced vorticity, the ITCZ, and monsoon trough on tropical cyclogenesis</td>
<td>Bourassa, Mark</td>
<td>Florida State University</td>
</tr>
</tbody>
</table>

#### Coffee Break - Poster/Exhibit Viewing

**Note:**
- Sessions 1, 8, 10, 11 and 12 are in parallel.
- Session 1 continued in (FESTSAAL)
- Chairperson: Paul de Valk  
  KNMI Royal Netherlands Meteorological Institute

<table>
<thead>
<tr>
<th>Time</th>
<th>Title</th>
<th>Speaker</th>
<th>Institution</th>
</tr>
</thead>
<tbody>
<tr>
<td>16:30</td>
<td>The GOES-R ground segment architecture for producing improved environmental data products</td>
<td>Kalluri, Satya</td>
<td>NOAA/NESDIS</td>
</tr>
<tr>
<td>16:45</td>
<td>Meteosat Third Generation missions tools for image quality assessment and payload data simulation</td>
<td>Mathieu, Sandrine</td>
<td>Thales</td>
</tr>
<tr>
<td>17:00</td>
<td>3rd Party Data Services at EUMETSAT</td>
<td>Heinemann, Thomas</td>
<td>EUMETSAT</td>
</tr>
<tr>
<td>17:15</td>
<td>Joint Polar Satellite System (JPSS) Common Ground System (CGS) overview and architectural tenets</td>
<td>Miller, Shawn</td>
<td>Raytheon</td>
</tr>
<tr>
<td>17:30</td>
<td>Three key lessons learned building user-focused science data systems</td>
<td>Ardanuy, Philip E.</td>
<td>Raytheon</td>
</tr>
<tr>
<td>17:45</td>
<td>Landmark detection with Meteosat Third Generation mission: Infrared sounder for image navigation and registration</td>
<td>Claeyman, Marine</td>
<td>Thales</td>
</tr>
</tbody>
</table>
THURSDAY AFTERNOON, 19 SEPTEMBER

Sessions 1, 10, 11 and 12 are in parallel

SESSION 10 (ZEREMONIENSAAL)
Cloud observations from satellites, including 30 years ISCCP
Chairperson:
Shaima Nasiri - Texas A&M University
Karl-Göran Karlsson - SMHI Swedish Meteorological and Hydrological Institute

14:00 Toward an operational sky cover analysis from geostationary satellite cloud products via a linear optimization methodology
Gerth, Jordan
CIMSS Cooperative Institute for Meteorological Satellite Studies

14:15 Development of cloud optical properties during cloud live-cycles
Mueller, Jennifer
Freie Universität Berlin

14:30 Nighttime cloud products with the VIIRS day/night band
Walther, Andi
CIMSS/University of Wisconsin-Madison

14:45 PPS-PROB: A probabilistic cloud masking approach applied to AVHRR and VIIRS data for climate and nowcasting applications
Karlsson, Karl-Göran
SMHI Swedish Meteorological and Hydrological Institute

15:00 Probabilistic approach to cloud and snow detection on AVHRR imagery
Musial, Jan
Universität Bern

15:15 Toward a hybrid method for retrieving cloud properties over snow and ice covered surfaces
Minnis, Patrick
NASA Langley Research Center

15:30 COFFEE BREAK - POSTER/EXHIBIT VIEWING

SESSION 10 (ZEREMONIENSAAL)
Cloud observations from satellites, including 30 years ISCCP
Chairperson:
Shaima Nasiri - Texas A&M University
Karl-Göran Karlsson - SMHI Swedish Meteorological and Hydrological Institute

16:30 Generating consistent cloud property datasets from AVHRR-heritage sensors based on an optimal estimation retrieval algorithm
Hollmann, Rainer
DWD Deutscher Wetterdienst

16:45 The cloud top properties from the Atmospheric Infrared Sounder Version 6 release
Nasiri, Shaima
Texas A&M University

17:00 Synergistic retrievals of atmospheric ice
Holl, Gerrit
Luleå University of Technology

17:15 Resolving cirrus optical depth biases between CALIOP and MODIS using IR retrievals for MODIS collection 6
Holz, Robert
University of Wisconsin-Madison

17:30 Comparison between GOME-2B and GOME-2A FRESCO cloud retrievals
Wang, Ping
KNMI Royal Netherlands Meteorological Institute
<table>
<thead>
<tr>
<th>Time</th>
<th>Session Title</th>
<th>Speaker</th>
<th>Institution/University</th>
</tr>
</thead>
<tbody>
<tr>
<td>14:00</td>
<td>Monitoring of volcanic and anthropogenic SO2 emissions using the GOME-2</td>
<td>Hedelt, Pascal</td>
<td>DLR-IMF Deutsches Zentrum für Luft- und Raumfahrt/ Institut für Methodik der Fernerkundung</td>
</tr>
<tr>
<td></td>
<td>instruments aboard METOP-A and B</td>
<td></td>
<td></td>
</tr>
<tr>
<td>14:15</td>
<td>Ozone profile retrievals with MetOp-A and MetOp-B Using TIR, UV and Visible spectra</td>
<td>Miles, Georgina</td>
<td>RAL Rutherford Appleton Laboratory</td>
</tr>
<tr>
<td>14:30</td>
<td>Performance of the MACC ensemble of stratospheric ozone analyses during the period Sept 2009-2012</td>
<td>Lefever, Karolien</td>
<td>IASB-BIRA Belgian Institute for Space Aeronomy</td>
</tr>
<tr>
<td>14:45</td>
<td>Tropospheric ozone measurements over the Mediterranean as seen by the thermal infrared IASI/MetOp sounder</td>
<td>Safieddine, Sarah</td>
<td>CNRS/IPS/Institut Pierre Simon Laplace</td>
</tr>
<tr>
<td>15:00</td>
<td>Continuing the total ozone record:</td>
<td>Koukouli, MariLiza</td>
<td>Aristotle University of Thessaloniki</td>
</tr>
<tr>
<td>15:15</td>
<td>Validation of GOME-2/Metop-B and</td>
<td>Delcloo, Andy</td>
<td>Royal Meteorological Institute of Belgium</td>
</tr>
<tr>
<td></td>
<td>GOME-2/Metop-B tropospheric ozone column products, using balloon sounding data</td>
<td></td>
<td></td>
</tr>
<tr>
<td>15:30</td>
<td>Evidence of information content of GOME-2 spectral channels in Chappuis band for ozone profile retrieval by automatic feature selection methods and regularised supervised learning</td>
<td>Sehnke, Frank</td>
<td>ZSW Zentrum für Sonnenenergie- und Wasserstoff-Forschung</td>
</tr>
<tr>
<td>15:45</td>
<td>COFFEE BREAK - POSTER/EXHIBIT VIEWING</td>
<td></td>
<td></td>
</tr>
<tr>
<td>16:30</td>
<td>A view on mid-tropospheric CH4 and CO2 in the tropics 6 years from MetOp-A/IASI</td>
<td>Crevoisier, Cyril</td>
<td>LMD-CNRS Laboratoire de Météorologie Dynamique</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>16:45</td>
<td>Progress on greenhouse gas satellite remote sensing in China</td>
<td>Zhang, Xingying</td>
<td>NSMC National Satellite Meteorological Center</td>
</tr>
<tr>
<td>17:00</td>
<td>A decade of global carbon dioxide observations from the satellite instrument SCIAMACHY</td>
<td>Reuter, Maximilian</td>
<td>Universität Bremen</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>17:15</td>
<td>Evaluation of recent improvements to the spectroscopy of H2O, CO2, and CH4 in the thermal infrared using observations from IASI and TES</td>
<td>Alvarado, Matthew</td>
<td>AER Atmospheric and Environmental Research Inc.</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>17:30</td>
<td>Remote sensing of the effect of atmospheric particles on global temperature</td>
<td>Boers, Reinout</td>
<td>KNMI Royal Netherlands Meteorological Institute</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>17:45</td>
<td>Metop-SG 3MI (Multi-viewing Multi-channel Multi-polarization Imaging): A powerful observing mission for future operational applications</td>
<td>Biron, Daniele</td>
<td>C.N.M.C.A. Centro Nazionale di Meteorologia e Climatologia Aeronautica</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>
### Session 8 continued (PRINZ EUGEN SAAL)
**Instrument calibration and characterisation**

**Chairperson:**
Fuzhong Weng  
Center for Satellite Applications and Research

<table>
<thead>
<tr>
<th>Time</th>
<th>Session Title</th>
<th>Presenter</th>
<th>Institution</th>
</tr>
</thead>
<tbody>
<tr>
<td>14:00</td>
<td>IR calibration breakthroughs demonstrated by current advanced sounders and by a recent prototype of future instruments for climate and weather, part 1: Emphasis on the Cross-track Infrared Sounder (CrIS) on Suomi NPP</td>
<td>Revercomb, Henry</td>
<td>University of Wisconsin-Madison</td>
</tr>
<tr>
<td>14:15</td>
<td>IR calibration breakthroughs demonstrated by current advanced sounders and by a recent prototype of future instruments for climate and weather, part 2: Absolute Radiance Interferometer (ARI) for CLARREO</td>
<td>Best, Fred</td>
<td>University of Wisconsin-Madison</td>
</tr>
<tr>
<td>14:30</td>
<td>CrIS sensor data record quality assessment</td>
<td>Jin, Xin</td>
<td>NOAA/NESDIS/STAR</td>
</tr>
<tr>
<td>14:45</td>
<td>Metop-B IASI data quality and impact assessment</td>
<td>Cameron, James</td>
<td>Met Office</td>
</tr>
<tr>
<td>15:00</td>
<td>Lessons from the AIRS, IASI and CrIS hyperspectral infrared sounder data</td>
<td>Aumann, Hartmut - tbc</td>
<td>California Institute of Technology</td>
</tr>
<tr>
<td>15:15</td>
<td>Inter-comparison of IASI and CRIS spectra</td>
<td>Coppens, Dorothee - tbc</td>
<td>EUMETSAT</td>
</tr>
<tr>
<td>15:30</td>
<td>Validation of atmospheric temperature and water vapour profiles obtained from ECMWF outputs and retrieved from IASI radiances using in-situ based reference measurements</td>
<td>Calbet, Xavier</td>
<td>EUMETSAT</td>
</tr>
<tr>
<td>15:45</td>
<td><strong>COFFEE BREAK - POSTER/EXHIBIT VIEWING</strong></td>
<td></td>
<td></td>
</tr>
<tr>
<td>16:30</td>
<td>The NOAA/NESDIS/STAR long term data record of Environmental Climate Variables from hyperspectral infrared sounders (AIRS, IASI and CrIS)</td>
<td>Gambacorta, Antonia</td>
<td>NOAA/NESDIS/STAR</td>
</tr>
<tr>
<td>16:45</td>
<td>The calibration of broad band infrared sensors: time variable biases and other issues</td>
<td>Mittaz, Jonathan</td>
<td>University of Maryland</td>
</tr>
<tr>
<td>17:00</td>
<td>Evaluation of nonlinear calibration on the satellite TIR image applications</td>
<td>Lu, Feng</td>
<td>CMA/NSMC National Satellite Meteorological Center</td>
</tr>
<tr>
<td>17:15</td>
<td>Onboard blackbody calibration models of FY-2D infrared channels</td>
<td>Zhang, Yong</td>
<td>CMA China Meteorological Administration</td>
</tr>
</tbody>
</table>

---
### Session 12  
**Satellite impact on NWP**

**Chairperson:**  
Ron Gelaro  
NASA Goddard Space Flight Center

<table>
<thead>
<tr>
<th>Time</th>
<th>Topic</th>
<th>Presenter/Institution</th>
</tr>
</thead>
<tbody>
<tr>
<td>14:00</td>
<td>Accounting for inter-channel error correlations in the assimilation of AIRS and IASI data at ECMWF</td>
<td>Bormann, Niels ECMWF</td>
</tr>
<tr>
<td>14:15</td>
<td>Improvements to the assimilation of cloud-affected radiances at the Met Office</td>
<td>Pavelin, Edward Met Office</td>
</tr>
<tr>
<td>14:30</td>
<td>Direct assimilation of FY-3A MWTS radiance data and the impact on Chinese NWP system</td>
<td>Li, Juan CMA China Meteorological Administration</td>
</tr>
<tr>
<td>14:45</td>
<td>Feature tracked winds from moisture and ozone images derived from satellite sounder retrievals</td>
<td>Santek, David University of Wisconsin-Madison</td>
</tr>
<tr>
<td>15:00</td>
<td>Impact of high resolution AMVs using the NWCSAF package on the Met Office 1.5 km meso scale systems</td>
<td>Kelly, Graeme Met Office</td>
</tr>
<tr>
<td>15:15</td>
<td>AMVs in the ECMWF system: Highlights of recent operational and research activities</td>
<td>Salonen, Kirsti ECMWF</td>
</tr>
<tr>
<td>15:30</td>
<td>Characterizing height assignment errors in synthetic AMVs generated from NWP model radiances</td>
<td>Lean, Peter University of Reading</td>
</tr>
<tr>
<td>15:45</td>
<td><strong>Coffee Break - Poster/Exhibit Viewing</strong></td>
<td></td>
</tr>
</tbody>
</table>
FRIDAY MORNING, 20 SEPTEMBER

Sessions 1, 11, 12, 13 and 14 are in parallel

Session 1 continued

(FESTSAAL)

Current and future satellites, instruments and their applications

Chairperson:
Huang, Hung Lung Allen
University of Wisconsin-Madison

08:30 Clear-sky and cloudy atmosphere and surface retrievals in Principal Component Space from IASI, ARIES and other sensors using the Havemann-Taylor Fast Radiative Transfer Code (HT-FRTC)
Havemann, Stephan
Met Office

08:45 Wind vector measurements from combined active and passive L-band sensors
Ricciardulli, Lucrezia
Remote Sensing Systems

09:00 Baseline longwave flux retrieval for the EarthCARE Broad-Band Radiometer
Velazquez-Blazquez, Almudena
RMI Royal Meteorological Institute of Belgium

09:15 Rain rate retrieval using polarimetric GNSS signals
Hao, An
Presented by: Wei, Yan
College of Meteorology and Oceanography, PLA University of Science and Technology

09:30 Advanced techniques for generating global satellite composites
Kohrs, Richard
University of Wisconsin-Madison

09:45 SSALTO/DUACS Multi-Mission Altimeter Center: Recent changes and improvements
Faugère, Yannice
CLS Collecte Localisation Satellites

10:00 True color images of the Earth created with MSG SEVIRI
Reuter, Maximilian
Universität Bremen

10:15 COFFEE BREAK - POSTER/EXHIBIT VIEWING

Session 1 continued

(FESTSAAL)

Current and future satellites, instruments and their applications

Chairperson:
Huang, Hung Lung Allen
University of Wisconsin-Madison

11:15 Explicit surface reflection treatment in the next version of the Nowcasting SAF Polar Platform System
Scheirer, Ronald
SMHI Swedish Meteorological and Hydrological Institute

11:30 Comparing lightning polarity and cloud microphysical properties over regions of high ground flash density in South Africa
Simpson, Lee-Ann - tbc
South African Weather Service

11:45 GRAFIIR and JAFIIR - Efficient end-to-end semi automated GEO and LEO sensor performance analysis and verification systems
Zhang, Hong
University of Wisconsin-Madison

12:00 Cloud analytics using MSG & GOES in support of free space optical communications
Alliss, Randall
Northrop Grumman

12:15 Performance and scalability of the Community Radiative Transfer Model (CRTM) on GPUs: The Infrared Atmospheric Sounding Interferometer (IASI) case study
Huang, Bormin
University of Wisconsin-Madison

12:30 Meteorological satellite status and sensor data quality Long Term Monitoring (LTM) System for NOAA/NESDIS/STAR Integrated Cal/Val System (ICVS)
Sun, Ninghai
NOAA/NESDIS/STAR

CLOSING CEREMONY
FESTSAAL
13:30 – 14:00
FRIDAY MORNING, 20 SEPTEMBER

**SESSION 13** (ZEREMONIENSAAL)
Adventures in understanding cloud precipitation processes, with emphasis on satellite remote sensing and climate applications  
Chairperson:  
Alexander Jann – ZAMG Zentralanstalt für Meteorologie und Geodynamik  
Graeme Stephens – NASA/JPL

<table>
<thead>
<tr>
<th>Time</th>
<th>Session Details</th>
</tr>
</thead>
</table>
| 08:30 | **Keynote Address**  
Tropical ocean water budgets and model diagnostics as derived from satellite data  
Kummerow, Christian  
Colorado State University |
| 09:00 | Investigating satellite microwave observations of precipitation in different climate regimes  
Wang, Nai-Yu  
University of Maryland |
| 09:15 | Quantitative evaluation of the seasonal variations in climate model cloud regimes  
Tsushima, Yoko  
Met Office |
| 09:30 | Identification and quantification of errors and uncertainties in precipitation estimates from satellite and surface radar  
Kidd, Chris  
ESSIC/UMD and NASA/GSFC |
| 09:45 | Precipitation estimation method from passive microwave, infrared and raingauge data at high spatial and temporal resolution  
You, Ran  
CMA China Meteorological Administration |
| 10:00 | Using FY-2 high temporal resolution regional scan data to monitor strong convective cloud  
Liu, Jian  
CMA/NSMC National Satellite Meteorological Center |
| 10:15 | Snowfall rate retrieval using passive microwave satellite measurements  
Wang, Nai-Yu  
University of Maryland |
| 10:30 | **COFFEE BREAK - POSTER/EXHIBIT VIEWING** |

**SESSION 13 continued** (ZEREMONIENSAAL)
Adventures in understanding cloud precipitation processes, with emphasis on satellite remote sensing and climate applications  
Chairperson:  
Alexander Jann – ZAMG Zentralanstalt für Meteorologie und Geodynamik  
Graeme Stephens – NASA/JPL

<table>
<thead>
<tr>
<th>Time</th>
<th>Session Details</th>
</tr>
</thead>
</table>
| 11:15 | Satellite rainfall retrievals during CHUVA-GLM experiment: Rainfall validation and life cycle considerations  
Vila, Daniel  
CPTEC Centro de Previsão de Tempo e Estudos Climáticos |
| 11:30 | Impacts of precipitation on low clouds using A-Train  
Papp, Anita  
Texas A&M University |
| 11:45 | Combining multiple satellite instruments to observe relationships between aerosols, ice clouds and detrained water vapour  
Kablick, Pat  
University of Maryland |
| 12:00 | Breakthrough capabilities in detecting cloud aerosol interactions with VIIRS imager  
Rosenfeld, Daniel  
The Hebrew University of Jerusalem |
| 12:15 | Regional differences in heavy rainfall structure and their implications in satellite rain retrieval  
Song, Hwan-Jin  
Seoul National University |
| 12:30 | Characteristic features of warm-type rain producing heavy rainfall under the East Asian humid climate - Possible link to the 'atmospheric river'  
Sohn, B.J.  
Seoul National University |
| 12:45 | Spatial-temporal characteristics and synoptic significance of deep convective clouds over topography transition region of western Huanghuai in China  
Su, Aifang  
Henan Meteorological Observatory |

**CLOSING CEREMONY**  
FESTSAAL  
13:30 – 14:00
FRIDAY MORNING, 20 SEPTEMBER

Sessions 1, 11, 12, 13 and 14 are in parallel

SESSION 11 continued (RITTERSAAL)
Atmospheric composition
Chairperson:
Ruediger Lang
EUMETSAT

08:30  Keynote address
Interannual variability and long-term trends of aerosol loading based upon aerosol products from SEAWIFS and MODIS
Hsu, Christina N.
NASA Goddard Space Flight Center

09:00  Vertical profiles of desert dust concentration from IASI TIR measurements: sensitivity to surface and atmospheric states
Vandenbussche, Sophie
IASB-BIRA Belgian Institute for Space Aeronomy

09:15  Towards a global climatology of aerosol types from satellite measurements
Wagner, Thomas
MPI Max-Planck Institut für Chemie

09:30  Analysis of aerosol property spatial variability in the San Joaquin Valley during DISCOVER-AQ field campaign from high-resolution MISR data
Kalashnikova, Olga
J PLJ Jet Propulsion Laboratory

09:45  Preliminary study of nighttime aerosol optical depth retrievals using the VIIRS DNB
Zhang, Jianglong
University of North Dakota

10:00  Retrieval of aerosol optical properties for cloudy scenes from Metop
Grzegorski, Michael
EUMETSAT

10:15  Synergetic retrieval of aerosol properties from Metop
Martynenko, Dmytro
### SESSION 14  (PRINZ EUGEN SAAL)
**Satellite-based observations of the cryosphere**

**Chairperson:**
- Lars Anders Breivic - met.no Norwegian Meteorological Institute
- Dorothy Hall - NASA Goddard Space Flight Center

<table>
<thead>
<tr>
<th>Time</th>
<th>Title</th>
<th>Speaker</th>
<th>Institution</th>
</tr>
</thead>
<tbody>
<tr>
<td>08:30</td>
<td>Status and future plans for operational satellite-based observation of the cryosphere at the U.S. National Ice Center (NIC)</td>
<td>Clemente-Colon, Pablo - tbc</td>
<td>U.S. National Ice Center</td>
</tr>
<tr>
<td>08:45</td>
<td>What led the sea-ice extent in the Arctic to its record minimum in summer 2012?</td>
<td>Devasthale, Abhay</td>
<td>SMHI Swedish Meteorological and Hydrological Institute</td>
</tr>
<tr>
<td>09:00</td>
<td>New Options for Satellite Imaging of Polar Regions</td>
<td>Puschell, Jeffery</td>
<td>Raytheon</td>
</tr>
<tr>
<td>09:15</td>
<td>Changes in snow and lake ice cover and stream discharge in the Wind River Range, Wyoming, USA, from 2000 to 2013</td>
<td>Hall, Dorothy - tbc</td>
<td>NASA Goddard Space Flight Center</td>
</tr>
<tr>
<td>09:30</td>
<td>Global snow cover from AVHRR and multi-sensor analysis</td>
<td>Kilie, Mari Anne</td>
<td>met.no Norwegian Meteorological Institute</td>
</tr>
<tr>
<td>09:45</td>
<td>Observing sea ice from the Suomi NPP VIIRS</td>
<td>Liu, Yinghui</td>
<td>CIMSS Cooperative Institute for Meteorological Satellite Studies</td>
</tr>
<tr>
<td>10:00</td>
<td>Advanced snow and glacier products from optical and radar satellite image data</td>
<td>Nagler, Thomas</td>
<td>ENVIEO Environmental Earth Observation Information Technology GmbH</td>
</tr>
<tr>
<td>10:30</td>
<td>COFFEE BREAK - POSTER/EXHIBIT VIEWING</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

### SESSION 14  (PRINZ EUGEN SAAL)
**Satellite-based observations of the cryosphere**

**Chairperson:**
- Lars Anders Breivic - met.no Norwegian Meteorological Institute
- Dorothy Hall - NASA Goddard Space Flight Center

<table>
<thead>
<tr>
<th>Time</th>
<th>Title</th>
<th>Speaker</th>
<th>Institution</th>
</tr>
</thead>
<tbody>
<tr>
<td>11:15</td>
<td>Satellite based snow cover validation and long term trend analysis over Turkey</td>
<td>Sonmez, Ibrahim</td>
<td>Ondokuz Mayis University</td>
</tr>
<tr>
<td>11:30</td>
<td>Snow melting processes modelling with use of satellite information</td>
<td>Struzik, Piotr</td>
<td>IMGW-PIB Institute of Meteorology and Water Management - National Research Institute</td>
</tr>
<tr>
<td>11:45</td>
<td>Sea ice CCI prototype system for radar altimeter sea ice thickness processing</td>
<td>Rinne, Eero</td>
<td>FMI Finnish Meteorological Institute</td>
</tr>
<tr>
<td>12:00</td>
<td>MSG/SEVIRI and Metop/AVHRR snow extent products in H-SAF</td>
<td>Siljamo, Niilo</td>
<td>FMI Finnish Meteorological Institute</td>
</tr>
</tbody>
</table>

**CLOSING CEREMONY**

**FESTSAAL**

13:30 - 14:00
FRIDAY MORNING, 20 SEPTEMBER

Sessions 1, 11, 12, 13 and 14 are in parallel

SESSION 12 continued
Satellite impact on NWP
(FORUM)
Chairperson:
John Eyre - ECMWF
Lars Peter Riishojgaard - JCSDA Joint Center for Satellite Data Assimilation

08:30 The impact of the temporal spacing of satellite observations on NWP analysis errors
Eyre, John
Met Office

08:45 Early-morning-orbit Observing System Simulation Experiments in the Joint Center for Satellite Data Assimilation
Casey, Sean
JCSDA Joint Center for Satellite Data Assimilation

09:00 Use of spectral information in the microwave region for Numerical Weather Prediction data assimilation
Milz, Mathias
Luleå University of Technology

09:15 The simulation and assimilation of high temporal hyperspectral imaging sounding data: A flash flood case study
Lim, Agnes
CIMSS Cooperative Institute for Meteorological Satellite Studies

09:30 Future benefits of simulated high-density MTG-IRS data assimilation in a fine-scale weather forecast model
Guedj, Stephanie
Météo-France

09:45 Observing System Simulation Experiments for OAWL: A new Doppler wind lidar technology
Riishojgaard, Lars Peter
JCSDA Joint Center for Satellite Data Assimilation

10:00 Discussion
10:00 – 10:30

10:30 COFFEE BREAK - POSTER/EXHIBIT VIEWING

CLOSING CEREMONY
FESTSAAL
13:30 - 14:00
Special thanks go to:

SPC Members

Steve Ackerman (CIMSS/ University of Wisconsin-Madison)
Philip E. Ardanuy (Raytheon)
Lars Anders Breivic (met.no Norwegian Meteorological Institute)
Kenneth Carey (Earth Resources Technology, Inc.)
Carol Anne Clayson (Woods Hole Oceanographic Organisation)
Simon Elliot (EUMETSAT)
John Eyre (Met Office)
Wayne Feltz (SSEC/ University of Wisconsin-Madison)
Volker Gaertner
Mitchell Goldberg (NOAA)
Dorothy Hall (NASA Goddard Space Flight Centre)
Tim Hewison (EUMETSAT)
Kenneth Holmlund (EUMETSAT)
Alois M. Holzer (ESSL European Severe Storms Laboratory)
Alexander Jann (ZAMG Zentralanstalt für Meteorologie und Geodynamik)
Pat Kablick (University of Maryland)
Ewa Kwiatkowska (EUMETSAT)
Tony McNally (EC MWF)
Rosemary Munro (EUMETSAT)
Shaima Nasiri (Texas A&M University)
Derek Posselt (University of Michigan)
Lars Peter Riishojgaard (JCSDA Joint Center for Satellite Data Assimilation)
Remy Roca (CNRS/ INSU Centre National de la Recherche Scientifique/ Institut National des Sciences de l'Univers)
Johannes Schmetz (EUMETSAT)
Jörg Schulz (EUMETSAT)
Gabriela Seiz (Federal Office of Meteorology and Climatology MeteoSwiss)
Graeme Stephens (NASA/J PL)
Nataša Strelec Mahovic (Meteorological and Hydrological Service, Croatia)
Chris Velden (University of Wisconsin-Madison)
Fuzhong Weng (NOAA)
Jianglong Zhang (University of North Dakota)