

EUMETSAT **METEOROLOGICAL SATELLITE**

CONFERENCE 2014

P R O G R A M M E

**GENEVA, SWITZERLAND.
22 - 26 SEPTEMBER.**



Schweizerische Eidgenossenschaft
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Federal Office of Meteorology and Climatology MeteoSwiss



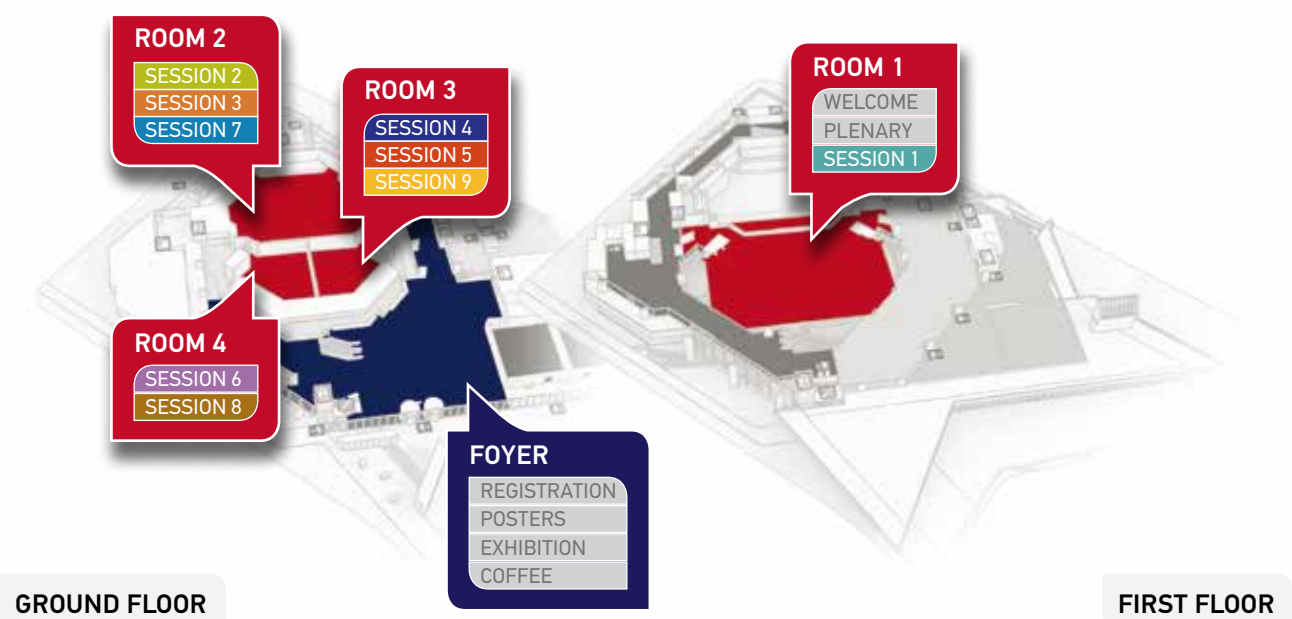


PROGRAM OVERVIEW

CONFERENCE SESSIONS GUIDE

SESSION 1	Current and future satellites, instruments and their applications
SESSION 2	Climate
SESSION 3	Quantitative applications for nowcasting
SESSION 4	Data access for easy utilisation
SESSION 5	Marine meteorology and oceanography
SESSION 6	Instrument calibration and validation campaigns
SESSION 7	Atmospheric composition
SESSION 8	Satellite data in global and regional modelling
SESSION 9	Advances in understanding atmospheric processes using satellite data

CONFERENCE ROOMS GUIDE



	SUNDAY 21 SEP	MONDAY 22 SEP	TUESDAY 23 SEP	WEDNESDAY 24 SEP	THURSDAY 25 SEP	FRIDAY 26 SEP
08:30		WELCOME COFFEE	SESSION 1 Room 1	SESSION 1 Room 1	SESSION 1 Room 1	SESSION 3 Room 2
08:45		Foyer	SESSION 2 Room 2	SESSION 7 Room 2	SESSION 7 Room 2	SESSION 4 Room 3
09:00		WELCOME	SESSION 5 Room 3	SESSION 6 Room 4	SESSION 9 Room 3	SESSION 8 Room 4
09:15		ADDRESS	SESSION 6 Room 4			
09:30		Room 1				
09:45		PLENARY TALK				
10:00		Room 1				
10:15						
10:30			COFFEE BREAK & POSTER SESSION	COFFEE BREAK & POSTER SESSION	COFFEE BREAK & POSTER SESSION	COFFEE BREAK & POSTER SESSION
10:45		COFFEE BREAK & POSTER S. - Foyer	Foyer	Foyer	Foyer	Foyer
11:00						
11:15		SESSION 1 Room 1	SESSION 1 Room 1	SESSION 1 Room 1	SESSION 1 Room 1	SESSION 3 Room 2
11:30		SESSION 2 Room 2	SESSION 2 Room 2	SESSION 7 Room 2	SESSION 7 Room 2	SESSION 4 Room 3
11:45			SESSION 5 Room 3	SESSION 6 Room 4	SESSION 9 Room 3	SESSION 8 Room 4
12:00			SESSION 6 Room 4			
12:15						
12:30			LUNCH	LUNCH	LUNCH	
12:45		LUNCH	Restaurant 1 st floor	Restaurant 1 st floor	Restaurant 1 st floor	CLOSING CEREMONY
13:00		Restaurant 1 st floor				Room 2
13:15						
13:30						
13:45						
14:00		SESSION 1 Room 1	POSTER SESSION	POSTER SESSION	SESSION 1 Room 1	
14:15		SESSION 2 Room 2	Foyer	Foyer	SESSION 7 Room 2	
14:30		SESSION 5 Room 3			SESSION 9 Room 3	
14:45					SESSION 8 Room 4	
15:00						
15:15						
15:30		COFFEE BREAK & POSTER SESSION	COFFEE BREAK & POSTER SESSION	COFFEE BREAK & POSTER SESSION	COFFEE BREAK & POSTER SESSION	
15:45		Foyer	Foyer	Foyer	Foyer	
16:00	REGISTRATION					
16:15	Foyer	SESSION 1 Room 1	Foyer	Foyer	Foyer	
16:30		SESSION 2 Room 2	SESSION 1 Room 1	SESSION 1 Room 1	SESSION 1 Room 1	
16:45		SESSION 5 Room 3	SESSION 6 Room 4	SESSION 7 Room 2	SESSION 3 Room 2	
17:00				SESSION 6 Room 4	SESSION 9 Room 3	
17:15					SESSION 8 Room 4	
17:30						
17:45		PLENARY TALK				
		Room 1				
NETWORKING EVENTS						
18:00		ICEBREAKER				
18:15		Boat tour of				
18:30		Lake Geneva				
18:45		Please meet in front				
19:00	WELCOME RECEPTION	of the CICG at 18:00	WMO SIDE-EVENT	CONFERENCE DINNER		
19:15	Foyer		WMO Headquarters,	Bâtiment des Forces		
19:30			Geneva	Motrices (BFM),		
19:45				Geneva		
20:00						
20:15						
20:30						
21:00						

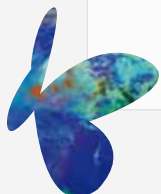
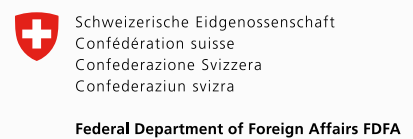


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CONFERENCE SPONSORS

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MORNING

ORAL PRESENTATION

22 SEP

TIME

WELCOME COFFEE

Foyer

08:30

08:45

OFFICIAL ADDRESS

Alain Ratier, *Director-General, EUMETSAT*

09:00

OFFICIAL ADDRESS

Peter Binder, *Director General, Federal Office of Meteorology and Climatology MeteoSwiss*

09:15

OFFICIAL ADDRESS

Jeremiah Lengoasa, *Deputy Secretary-General, WMO*

09:30

EUMETSAT GEOSTATIONARY AND LOW EARTH ORBIT DEVELOPMENT PROGRAMMES

Clemens Kaiser, *Director of Programme Preparation and Development, EUMETSAT*

09:45

NOAA CURRENT AND FUTURE ACTIVITIES

Harry Cikaneck, *JPSS Director, NOAA*

10:00

STATUS OF JAXA SATELLITE PROJECTS CONTRIBUTING TO METEOROLOGICAL APPLICATIONS

Keiji Imaoka, *Senior Researcher, Earth Observation Research Center, JAXA*

10:15

CONFERENCE ANNOUNCEMENTS

Lorna Putze, *Core Communications Manager, EUMETSAT*

10:30

POSTER SESSION

Foyer

10:45

COFFEE BREAK

Foyer

CURRENT AND FUTURE SATELLITES, INSTRUMENTS
AND THEIR APPLICATION

Room 1

Chairs: Anne-Grete Straume (*ESA/ESTEC*)
Lionel de la Taille (*EUMETSAT*)11:15 The role of WMO in developing a Space-based Architecture
for Climate MonitoringWenjian Zhang, *WMO*11:45 An Early Look at Status of GPM Data Products and How
to Access ThemErich Stocker, *NASA/GSFC*12:00 Status of the Global Precipitation Measurement (GPM)
mission in JapanMisako Kachi, *JAXA*12:15 Joint polar satellite system: the United States next
generation civilian polar orbiting environmental
satellite systemHarry Cikaneck, *NOAA*

CLIMATE

Room 2

Chairs: Mark Dowell (*Joint Research Centre (JRC)*)
Jörg Schluz (*EUMETSAT*)11:15 Architecture for Monitoring Climate from Space -
Status and Way ForwardTillmann Mohr, *WMO*11:45 Reporting uncertainties in satellite-based climate datasets:
Are we doing it right?Ralf Bennartz, *University of Wisconsin - Madison,
Vanderbilt University*

12:00 Snow monitoring within GCOS Switzerland

Fabio Fontana, *Federal Office of Meteorology and
Climatology MeteoSwiss*12:15 Use of long-term MSU/AMSU data to examine the
weakening of Walker Circulation in CMIP5 climate
simulationsB.J. Sohn, *Seoul National University*

11:15

LUNCH BREAK

Restaurant 1st floor

12:45

AFTERNOON

22 SEP

TIME

14:00

CURRENT AND FUTURE SATELLITES, INSTRUMENTS AND THEIR APPLICATION

Room 1

Chairs: Peter Schlüssel (EUMETSAT)
Donny Aminou (ESA/ESTEC)

- 14:00 Status of Next Generation Japanese Geostationary Meteorological Satellites Himawari-8/9 and their Products
Satoru Tsunomura, MRI / JMA
- 14:15 MTG Programme Status
Lionel de la Taille, EUMETSAT
- 14:30 Meteosat Third Generation (MTG), Space Segment Status and its technological challenges
Donny M. A. Aminou, ESA/ESTEC
- 14:45 The Sentinel-4 Mission and its Atmospheric Composition Products
Ben Veihelmann, ESA/ESTEC
- 15:00 The Sentinel-4/UVN instrument on-board MTG-S
Grégory Bazalgette Courrèges-Lacoste, ESA/ESTEC
- 15:15 MetOp Second Generation - Overview
Graeme Mason, ESA / ESTEC

CLIMATE

Room 2

Chair: Jörg Schulz (EUMETSAT)

- 14:00 Recalibrating HIRS Sensors to Produce a 30 year Record of Radiance Measurements
W. Paul Menzel, University of Wisconsin-Madison
- 14:15 Climate Signals in AIRS and IASI data
Hartmut Aumann, CalTech/JPL
- 14:30 Inter-calibration of METEOSAT IR and WV channels
Rob Roebeling, EUMETSAT
- 14:45 Overcoming the challenges in deriving a uniform geostationary calibration approach based on multiple independent methods.
David Doelling, NASA-Langley
- 15:00 Generation of the Daily OLR Climate Data Record
Hai-Tien Lee, University of Maryland
- 15:15 ASCAT-A radar backscatter re-processed: An overview of the long term performance and product quality
Craig Anderson, EUMETSAT

15:30

POSTER SESSION

Foyer

COFFEE BREAK

Foyer

16:15

CURRENT AND FUTURE SATELLITES, INSTRUMENTS AND THEIR APPLICATION

Room 1

Chairs: Peter Schlüssel (EUMETSAT)
Donny Aminou (ESA/ESTEC)

- 16:15 Ice Cloud Imager Instrument for MetOp Second Generation
Ville Kangas, ESA/ESTEC
- 16:30 Microwave Sounder Instrument for MetOp Second Generation
Ville Kangas, ESA/ESTEC
- 16:45 The Sentinel-5 Instrument for MetOp Second Generation
Didier Martin, ESA/ESTEC
- 17:00 Microwave Imager Instrument for MetOp Second Generation
Ville Kangas, ESA
- 17:15 Radio Occultation Instrument for MetOp Second Generation
Marc Loiselet, ESA
- 17:30 Scatterometer Instrument for MetOp Second Generation
Marc Loiselet, ESA/mao

CLIMATE

Room 2

Chair: Paul Menzel (SSEC University of Wisconsin-Madison)

- 16:15 A Two Channel Climatological Cloud Mask for all Meteosat Generations
Reto Stöckli, Federal Office of Meteorology and Climatology MeteoSwiss
- 16:30 The current status of Cloud Top Height remote sensing from SEVIRI, assessment of eleven remote sensing algorithms
Ulrich Hamann, KNMI
- 16:45 Developing a cloud algorithm suite that provides consistent performance across the MODIS and VIIRS data records for climate research.
Steven Ackerman, Space Science and Engineering Center
- 17:00 Generating consistent Cloud Property Datasets from AVHRR-Heritage Sensors Based on an OE Retrieval Algorithm in the ESA Cloud_cci Project
Martin Stengel, DWD Deutscher Wetterdienst
- 17:15 Results from a Merged AVHRR/HIRS Cloud Record
Michael Foster, CIMSS, University of Wisconsin

17:45

PLENARY TALK

- 3D Exploration of Weather Data in Combination with 3D Atmospheric (IASI) Profiles
Michael Koutek, KNMI

ORAL PRESENTATION

TIME

MARINE METEOROLOGY AND OCEANOGRAPHY

Room 3

Chair: *W. Timothy Liu (Jet Propulsion Laboratory)*

14:00

14:00 Ocean-atmosphere coupling over mid-latitude ocean fronts observed from Space

W. Timothy Liu, Jet Propulsion Lab., California Institute of Technology

14:30 Upwelling events at the western African coast related to synoptic atmospheric structures: An analysis with satellite observations:

Fabien Desbiolles, CNES Centre National d'Etudes Spatiales

14:45 Relationships between ocean-atmosphere surface heat and moisture fluxes and weather regimes

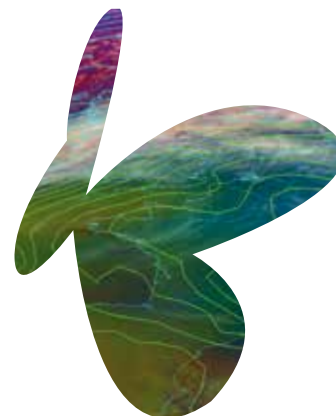
Carol Anne Clayson, Woods Hole Oceanographic Institution

15:00 Danger at Sea: Diagnosing and Communicating the Threat for Strong Maritime Thunderstorms

Michael Folmer, University of Maryland/ESSIC/GICS

15:15 From research to marine forecast operations: examples current training activities and future challenges

Mark Higgins, EUMETSAT



POSTER SESSION

Foyer

15:30

COFFEE BREAK

Foyer

MARINE METEOROLOGY AND OCEANOGRAPHY

Room 3

Chair: *Carol-Anne Clayson (Woods Hole Oceanographic Institution)*

16:15

16:15 Towards Homogenization of Scatterometer Winds

Abderrahim Bentamy, IFREMER Institut Français de Recherche pour l'Exploitation de la Mer

16:30 Quikscat NWP ocean calibration for wind product improvement

Jeroen Verspeek, KNMI

16:45 Monitoring of Altimeter and Scatterometer Backscatter Coefficients

Giovanna de Chiara, ECMWF



MORNING

23 SEP

TIME

08:30

CURRENT AND FUTURE SATELLITES, INSTRUMENTS AND THEIR APPLICATION

Room 1

Chairs: Anne-Grete Straume (ESA/ESTEC)
Regis Borde (EUMETSAT)

- 08:30 Present status of EUMETSAT operational AMVs
Régis Borde, EUMETSAT
- 09:00 EUMETSAT Operational dual-Metop winds products
Olivier Hautecoeur, METIS S.A.S., EUMETSAT
- 09:15 Status of the ADM-AEOLUS Wind LIDAR Mission and Its Contribution to Numerical Weather Prediction
Anne Grete Straume-Lindner, ESA/ESTEC
- 09:30 Aeolus horizontal and vertical sampling
Gert-Jan Marseille, KNMI
- 09:45 Toward the creation of a consistent climate record of ocean surface winds: Why we need RapidSCAT.
Svetla Hristova-Veleva, Jet Propulsion Laboratory, California Institute of Technology
- 10:00 Usage of the VIIRS Day Night Band to Detect Mesospheric Gravity Waves
William Straka III, Cooperative Institute for Meteorological Satellite Studies
- 10:15 EUMETSAT's Network of Satellite Application Facilities (SAFs)
Lothar Schüller, EUMETSAT

CLIMATE

Room 2

Chair: Reto Stöckli (Federal Office of Meteorology and Climatology MeteoSwiss)

- 08:30 Preliminary assessment of the impact of EUMETSAT reprocessed datasets for global reanalyses
Carole Peubey, ECMWF
- 09:00 Reprocessing of Atmospheric Motion Vectors at EUMETSAT
Jörg Schulz, EUMETSAT
- 09:15 Meteorological Product Extraction Facility products reprocessed at EUMETSAT
Marie Doutriaux-Boucher, EUMETSAT
- 09:30 The internal consistency of the ozonesonde network data archive assessed through comparisons with satellite ozone profilers
Daan Hubert, Belgian Institute for Space Aeronomy (BIRA-IASB)
- 09:45 Best practice for nadir ozone profile validation: Methodology and application to MetOp-A GOME-2
Tijl Verhoelst, Belgian Institute for Space Aeronomy (BIRA-IASB)
- 10:00 Discussions

10:30

POSTER SESSION

Foyer

COFFEE BREAK - Foyer

11:15

CURRENT AND FUTURE SATELLITES, INSTRUMENTS AND THEIR APPLICATION

Room 1

Chairs: Anne-Grete Straume (ESA/ESTEC)
Regis Borde (EUMETSAT)

- 11:15 Aerosol Type Detection by Using PARASOL Multi-channel Polarized Data
Xuehua Fan, Institute of Atmospheric Physics, Chinese Academy of Sciences
- 11:30 GRASP Aerosol Retrievals: Latest Advancements with Accelerator Technology and Application Scenarios
Michael Aspetsberger, Catalysts GmbH
- 11:45 Algorithm to Detect Dust and Smoke in Suomi-NPP VIIRS Imagery
Pubu Ciren, NOAA/NESDIS/STAR
- 12:00 Implementation of the RST (Robust Satellite Techniques) approach on MSG-SEVIRI data: applications for volcanic activity monitoring
Nicola Pergola, Institute of Methodologies of Environmental Analysis - National Research Council
- 12:15 3MI Instrument for MetOp Second Generation
Massimiliano Porciani, ESA/ESTEC
- 12:30 A New Atmospheric Motion Vector Intercomparison Study
Javier Garcia Pereda, NWCSAF/AEMET

CLIMATE

Room 2

Chair: Marie Doutriaux Boucher (EUMETSAT)

- 11:15 30 Years of Land Surface Albedo from Geostationary Satellites: Status of the SCOPE-CM LAGS Project
Jörg Schulz, EUMETSAT
- 11:30 A 30-year time series of lake surface water temperatures as observed from AVHRR 1-km over Central Europe
Michael Riffler, University of Bern
- 11:45 Towards a European surface albedo climatology
Melanie Sütterlin, Institute of Geography, University of Bern
- 12:00 Soil temperature at ECMWF: an assessment using ground based observations
Clément Albergel, ECMWF
- 12:15 Snow cover climatology over the Baltic States based on MODIS satellite data
Justinas Kilpys, Lithuanian Hydrometeorological Service under the Ministry of Environment

12:30

LUNCH BREAK

Restaurant 1st floor

PRESENTATION

Room 18 (level-1)

3D exploration of weather data in combination with 3D atmospheric (IASI) profiles

Michael Koutek, KNMI

ORAL PRESENTATION

TIME

MARINE METEOROLOGY AND OCEANOGRAPHY Room 3 *Chair: Paulo di Giacomo (NOAA)*

- 08:30 Recent changes and trends of the upwelling intensity in the Canary Current ecosystem
Karim HILMI, *INRH*
- 08:45 Low-level coastal jet event along the western Iberia coast in July 2011
Isabel Monteiro, *Instituto Português do Mare da Atmosfera*
- 09:00 Integration of satellite data and in-situ measurements for coastal water quality monitoring: preliminary results of the first IOSMOS (Ionian Sea water quality Monitoring by Satellite data) campaign.
Teodosio Lacava, *CNR, Institute of Methodologies for Environmental Analysis*
- 09:15 Integration of satellite and UMV (Unmanned Marine Vehicle) based observations for coastal water quality assessment and monitoring: preliminary results from the RITMARE project.
Giancario Sileo, *University of Basilicata, ULR-CINFAL*
- 09:30 Sea surface temperature from IASI: OSI-SAF GHRSSST L2P and PPF6 updates
Anne O'Carroll, *EUMETSAT*
- 09:45 Discussions

INSTRUMENT CALIBRATION AND VALIDATION CAMPAIGNS Room 4 *Chair: Fuhzong Weng (NOAA)*

- 08:30 Calibrating ultra-violet/visual hyperspectral instruments for Earth Observation
Berit Ahlers, *ESA ESTEC*
- 09:00 GOME-2 level 1 calibrated radiance quality from two operational Metop satellites
Rosemary Munro, *EUMETSAT*
- 09:15 S-NPP OMPS Nadir System Calibration
Chunhui Pan, *University of Maryland, NOAA/STAR*
- 09:30 Comparison of OMPS on Suomi NPP with GOME-2 on METOP-A/B
Xiangqian Wu, *NOAA/NESDIS/STAR*
- 09:45 An AVHRR multiple calibration approach designed to overcome the biases associated with the NOAA degrading orbits.
David Doelling, *NASA Langley*
- 10:00 Establishing a seamless transition from Aqua-MODIS to NPP-VIIRS as the reference in providing geostationary visible imager calibration
Rajendra Bhatt, *Science Systems and Applications, Inc.*

08:30

POSTER SESSION

Foyer

COFFEE BREAK - Foyer

10:30

MARINE METEOROLOGY AND OCEANOGRAPHY Room 3 *Chair: François Montagner (EUMETSAT)*

- 11:15 Kalman Filter retrieval of Sea Skin Temperature from SEVIRI: An intercomparison case study
Guido Masiello, *Università degli Studi della Basilicata*
- 11:30 Asymmetric features of oceanic microwave brightness temperature in high surface wind speed condition
Masahiro Kazumori, *ECMWF, JMA Japan Meteorological Agency*
- 11:45 The Sentinel-3 Marine Centre
Vincent Fournier-Sicre, *EUMETSAT*
- 12:00 Jason-CS: Continuing the Jason Altimeter Data Records as Copernicus Sentinel-6
Vincent Fournier-Sicre, *EUMETSAT*
- 12:15 Conclusions

INSTRUMENT CALIBRATION AND VALIDATION CAMPAIGNS Room 4 *Chair: Fuhzong Weng (NOAA)*

- 11:15 Hyperspectral L1
David Tobin, *Space Science and Engineering Center, University of Wisconsin-Madison*
- 11:45 IASI on MetOp-A and MetOp-B: status of the two instruments and their performances in orbit
Elsa Jacquette, *Centre National d'Etudes Spatiales (CNES)*
- 12:00 Radiometric and spectral inter-comparison of IASI:IASI-A / IASI-B, IASI / AIRS, IASI / CrIS
Denis Jouglet, *Centre National d'Etudes Spatiales (CNES)*
- 12:15 Validation of MTG-IRS Level-1b data using Earth scenes
Emmanuel Dufour, *NOVELTIS*

11:15

LUNCH BREAK

Restaurant 1st floor

PRESENTATION

Room 18 (level-1)

3D exploration of weather data in combination with 3D atmospheric (IASI) profiles
Michael Koutek, *KNMI*

12:30

AFTERNOON

23 SEP

ORAL PRESENTATION

TIME

14:00

POSTER SESSION

Foyer

DVB-2 DEMO TALKS

EUMETCast Europe migration from DVB-S to DVB-S2

EUMETSAT stand foyer

15:45

COFFEE BREAK

Foyer

16:30

CURRENT AND FUTURE SATELLITES, INSTRUMENTS
AND THEIR APPLICATION

Room 1

Chairs: Anne-Grete Straume (ESA/ESTEC)
Regis Borde (EUMETSAT)

INSTRUMENT CALIBRATION AND VALIDATION CAMPAIGNS

Room 4

Chair: Dave Tobin (SSEC University of Wisconsin-Madison)

16:30

The Global Precipitation Measurement mission:
status and early results**Walt Peterson**, NASA/Goddard Space
Flight Center

17:00

First-light observations and retrievals of precipitation
from the Global Precipitation Measurement mission.**Christopher Kidd**, University of Maryland, College Park,
USA, NASA/Goddard Space Flight Center

17:15

Precipitation estimate from MSG satellite at EUMETSAT

Marie Doutriaux-Boucher, EUMETSAT

17:30

CDRD and PNPR passive microwave precipitation
retrieval algorithms: extension to the MSG full disk
area within H-SAF**Paolo Sanò**, Institute of Atmospheric Sciences
and Climate/National Research Council of Italy

16:30

Advances and Challenges in the Calibration/Validation
of the Suomi NPP VIIRS Day/Night Band**Changyong Cao**, NOAA/NESDIS/STAR

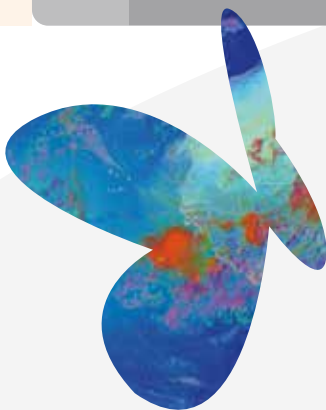
17:00

Visible channel calibration of JMA's geostationary satellites
using the Moon images**Masaya Takahashi**, Meteorological Satellite Center/Japan
Meteorological Agency

17:15

Lunar calibration and monitoring of instrument radiometric
stability in reflective solar bands**Tim Hewison**, EUMETSAT

17:30

Inter-calibration of MTSAT-2 Imager visible channel using
deep convective clouds**Masaya Takahashi**, Meteorological Satellite Center/Japan
Meteorological Agency



NETWORKING EVENTS

TIME

ICEBREAKER COCKTAIL

Boat tour of Lake Geneva
Monday, 22 September, at 19:00-21:00
Please meet at 18:00 in front of the CICG.

Max. participants 350
Please bring your invitation card

This Icebreaker cocktail encompasses a tour of Lake Geneva and its beautiful scenery from the decks of the magnificent 100-year old neoclassic steamship "Simplon". Transportation from the CICG to the lakeside is provided.

Please note that rucksacks and bulky luggage are not permitted on the boat. You can leave them on the bus, please remember the number of the bus for the return journey. Buses will depart from the CICG at 18:00 and on the return journey stop at Gare Cornavin and at Les Nations.



Scan for map

WMO SIDE EVENT

WMO Headquarters, Geneva
Tuesday, 23 September, at 19:00-21:30

Max. participants 240
Please bring your invitation card & badge

We are pleased to invite conference participants to a side-event at the Geneva headquarters of the World Meteorological Organisation. A presentation on the socio-economic benefits of satellite data will be followed by a reception in the building's rooftop restaurant – a good opportunity to network and to enjoy a wonderful view of Geneva! Please ensure that you bring your conference badge with you to this event.



Scan for map

CONFERENCE DINNER

Bâtiment des Forces Motrices (BFM), Geneva
Wednesday, 24 September, at 19:00-23:00

Max. participants 350
Please bring your invitation card

The Conference dinner is hosted by the Federal Department of Foreign Affairs FDFA, the République et canton de Genève and the Ville de Genève. This is an informal event in a beautiful setting. Situated on the river Rhone, the magnificent BFM building was built in 1886 and was first designed to supply the fountains, homes and factories of the city with water from the Rhone. It now serves as a parallel events venue for the Grand Théâtre. Its architecture is inspired by both the classical and the industrial with the building facades of concrete and stone seeming to 'swim' over the river. This is one of the most beautiful historical buildings in Geneva, especially in the evenings when it is illuminated. The BFM was listed as a historical monument in 1988. For more information, visit: <http://www.bfm.ch/>



Scan for map

19:00



MORNING

24 SEP

TIME

08:30

CURRENT AND FUTURE SATELLITES, INSTRUMENTS AND THEIR APPLICATION

Room 1

Chairs: Susanne Mecklenburg (ESA)
Rob Roebing (EUMETSAT)

- 08:30 ESA's Soil Moisture and Ocean Salinity Mission - Mission performance and data product evolution
Susanne Mecklenburg, ESA
- 09:00 Integration of H-SAF satellite soil moisture and rainfall products for operational early warning systems purposes
Luca Brocca, Research Institute for Geo-Hydrological Protection, National Research Council
- 09:15 Combining optical and passive microwave satellite data with in-situ measurements for assessing an experimental flood monitoring system
Teodosio Lacava, CNR-IMAA
- 09:30 Eight years continuous validation of operational satellite products - status, results and outlook
Folke Olesen, Karlsruher Institut für Technologie
- 09:45 Maturity of the Terrestrial Environmental Data Products from the Suomi NPP satellite
Ivan Csiszar, NOAA/NESDIS/STAR
- 10:00 Use of high resolution satellite data and in situ spectral measurements for crops state monitoring
Gheorghe Stancalie, National Meteorological Administration
- 10:15 Recent results from the development and evaluation of active fire products from Suomi NPP VIIRS
Ivan Csiszar, NOAA/NESDIS/STAR

ATMOSPHERIC COMPOSITION

Room 2

Chair: Ruediger Lang (EUMETSAT)

- 08:30 The Stratospheric Aerosol and Gas Experiment III - International Space Station: Extending Long-Term Ozone and Aerosol Observations
Richard Eckman, NASA Headquarters, USA, NASA Langley Research Center
- 09:00 ESA's Copernicus Atmospheric Service Related Missions
Paul Ingmann, ESA/ESTEC
- 09:15 EUMETSAT O3M SAF: Overview of new products and services
Seppo Hassinen, Finnish Meteorological Institute
- 09:30 Toward aerosol height retrievals with Sentinel-5 Precursor and Sentinel-4: application to O2 A band observations from GOME-2
Abram F.J. Sanders, KNMI
- 09:45 Investigation of trace gas to aerosol relationships over biomass burning areas using daily satellite observations
Jan Zörner, Max-Planck-Institute for Chemistry
- 10:00 Systematic aerosol characterization by combining UV Aerosol Indices with trace gas concentrations
Marloes Penning de Vries, Max-Planck-Institute for Chemistry
- 10:15 Monitoring of volcanic and anthropogenic SO₂ emissions using the GOME-2 instrument aboard MetOp-A and B
Pascal Hedelt, Deutsches Zentrum für Luft- und Raumfahrt, IMF

10:30

POSTER SESSION

Foyer

COFFEE BREAK - Foyer

11:15

CURRENT AND FUTURE SATELLITES, INSTRUMENTS AND THEIR APPLICATION

Room 1

Chairs: Susanne Mecklenburg (ESA)
Rob Roebing (EUMETSAT)

- 11:15 Preparing for Sentinel 3 and Jason CS with Cryosat-2 SAR Mode Over Ocean
Sylvie Labroue, CLS
- 11:30 Outcome of the fourth cloud retrieval evaluation workshop
Robert Roebing, EUMETSAT
- 12:00 Downscaling of multi-resolution multispectral satellite images and its application to the METEOSAT SEVIRI high-resolution visible channel
Fabian Senf, Leibniz-Institute for Tropospheric Research
- 12:15 A RST-based cloud mask for fire-related applications
Carolina Filizzola, Università degli Studi della Basilicata, IMAA-CNR

ATMOSPHERIC COMPOSITION

Room 2

Chair: Ruediger Lang (EUMETSAT)

- 11:15 Retrieval of aerosol optical properties over land using PMAp
Michael Grzegorski, EUMETSAT
- 11:30 Intercomparison and validation of three volcanic ash cloud retrieval schemes for MSG SEVIRI
Richard Siddans, Rutherford Appleton Laboratory
- 11:45 RPAS for predicting/evaluating volcanic ashes using proximal remote sensing monitoring technology
Alberto Bernabeo, University of Bologna
- 12:00 Inter-comparison of aerosol optical thickness from MODIS, MISR, and OMI using CARSNET measurements over China
Ling Sun, National Satellite Meteorological Center
- 12:15 Sensitivity Study of Cross-Atlantic Dust Transport and Comparison with Ground and Satellite Data (AERONET, MODIS, CALIPSO and PMAp)
Swen Metzger, The Cyprus Institute, Max-Planck-Institute for Chemistry

12:30

LUNCH BREAK

Restaurant 1st floor

PRESENTATION

Room 18 (level-1)

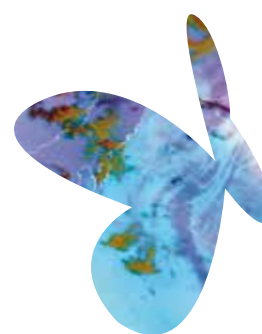
3D exploration of weather data in combination with 3D atmospheric (IASI) profiles

Michael Koutek, KNMI

ORAL PRESENTATION

TIME

INSTRUMENT CALIBRATION AND VALIDATION CAMPAIGNS		08:30
Room 4	<i>Chair: Kenneth Holmlund (EUMETSAT)</i>	
08:30	Suomi National Polar-Orbiting Partnership (NPP) Satellite Instrument Calibration, Validation and Applications Fuzhong Weng , NOAA/Center for Satellite Applications and Research (STAR)	
09:00	Validation of satellite sounder environmental data records: Application to S-NPP Nicholas Nalli , NOAA/NESDIS/STAR	
09:15	Inter-Comparison of Suomi NPP CrIS with AIRS and IASI toward Infrared Hyperspectral Benchmark Radiance Measurements Likun Wang , University of Maryland	
09:30	Co-location of GRUAN radiosondes and IASI infrared hyperspectral measurements Xavier Calbet , EUMETSAT	
09:45	The use of Globally Distributed Reference and Dedicated Radiosondes for the Validation of Satellite Derived Sounding Products Flavio Iturbide-Sanchez , I. M. Systems Group, Inc., at the NOAA/NESDIS/STAR	
10:00	Assessing Impacts of Atmospheric State on Differential Absorption Spectroscopy Retrievals of Column XCO ₂ Mixing Ratios T Scott Zaccheo , AER Atmospheric and Environmental Research Inc.	
POSTER SESSION		10:30
Foyer		
COFFEE BREAK - Foyer		
INSTRUMENT CALIBRATION AND VALIDATION CAMPAIGNS		11:15
Room 4	<i>Chair: Kenneth Holmlund (EUMETSAT)</i>	
11:15	The Role of Numerical Weather Prediction Models in Satellite Cal/Val William Bell , Met Office	
11:45	Satellite inter-calibration products and New Initiatives at GSICS Co-ordination center. Manik Bali , University of Maryland	
12:00	Calibration Algorithms Applied to Current & Future EUMETSAT Satellite Instruments Tim Hewison , EUMETSAT	
12:15	Inter-calibrating Metop/AVHRR-IASI to prepare for Sentinel-3/SLSTR and bridge the gap since ENVISAT/AATSR. Anne O'Carroll , EUMETSAT	
LUNCH BREAK		12:30
Restaurant 1 st floor	PRESENTATION	
	Room 18 (level-1)	
	3D exploration of weather data in combination with 3D atmospheric (IASI) profiles	
	Michael Koutek , KNMI	



AFTERNOON

24 SEP

TIME

14:00

POSTER SESSION

Foyer

DVB-2 DEMO TALKS

EUMETCast Europe migration from DVB-S to DVB-S2

EUMETSAT stand foyer

15:45

COFFEE BREAK

Foyer

16:30

CURRENT AND FUTURE SATELLITES, INSTRUMENTS
AND THEIR APPLICATION

Room 1

Chairs: Susanne Mecklenburg (ESA)
Rob Roebing (EUMETSAT)

- 16:30 Exploration and Implementation of Next Generation Satellite Data at NOAA's Aviation Weather Center: The GOES-R Proving Ground
Amanda Terborg, *Univ. of Wisc./CIMSS and NOAA's Aviation Weather Center*
- 16:45 Recent improvements to the Nowcasting SAF AVHRR/VIIRS cloud mask algorithm
Adam Dybbroe, *SMHI*
- 17:00 Detecting Cloud with MODIS: Attributing Error and Uncertainty to Sources
Steven Ackerman, *University of Wisconsin-Madison*
- 17:15 Cloud fraction determination from GOME-2 on MetOp-A/B using the OCRA algorithm
Ronny Lutz, *DLR-IMF Deutsches Zentrum für Luft- und Raumfahrt/ Institut für Methodik der Fernerkundung*
- 17:30 Validation and Verification of CloudSat and GPM products for Cold Season Weather Systems
David Hudak, *Environment Canada*
- 17:45 Preparing for GOES-R at the Satellite Proving Ground for Marine, Precipitation and Satellite Analysis
Michael Folmer, *University of Maryland/ESSIC/CICS*

ATMOSPHERIC COMPOSITION

Room 2

Chair: Richard Eckman (NASA)

- 16:30 Data assimilation enhancement of a chemical transport model: a dust forecast application
Enza Di Tomaso, *Barcelona Supercomputing Center*
- 16:45 Satellite Monitoring of Urban Air Pollution using MODIS and VIIRS
N. Christina Hsu, *NASA Goddard Space Flight Center*
- 17:00 Rain-induced emission pulses of NO_x and HCHO from soils in African regions after dry spells as viewed by satellite sensors
Jan Zörner, *Max-Planck-Institute for Chemistry*
- 17:15 Global spatially resolved total ozone variability and trend patterns obtained from comprehensive European satellite-based data sets
Melanie Coldewey-Egbers, *German Aerospace Center - Remote Sensing Technology Inst.*
- 17:30 The potential impact of small satellite instruments for air quality: a NO₂ case study (OSSE)
Renske Timmermans, *TNO*
- 17:45 Worldwide biogenic soil NO_x emission estimates from OMI NO₂ observations and the GEOS-Chem model
Geert Vinken, *Eindhoven University of Technology*



ORAL PRESENTATION

	TIME
POSTER SESSION Foyer	14:00
COFFEE BREAK Foyer	15:45
INSTRUMENT CALIBRATION AND VALIDATION CAMPAIGNS Room 4 <i>Chair: William Bell (Met Office)</i>	16:30
16:30 Calibration status of GCOM-W1/AMSR2 and GPM instruments <i>Keiji Imaoka, Japan Aerospace Exploration Agency</i>	
17:00 Validation of AMSU-A measurements from two different calibrations in the lower stratosphere using COSMIC radio occultation data <i>Wenyang He, LAGEO, Institute of Atmospheric Physics, Chinese Academy of Sciences</i>	
17:15 Evaluation of the calibration of SAPHIR / Megha-Tropiques with high quality soundings <i>Helene Brogniez, LATMOS Laboratoire Atmosphères, Milieux, Observations Spatiales</i>	
17:30 Characterization of ASCAT backscatter uncertainty under rainy conditions: Toward an improved wind product <i>Wenming Lin, Institut de Ciències del Mar – CSIC</i>	



MORNING

25 SEP

TIME

08:30

CURRENT AND FUTURE SATELLITES, INSTRUMENTS AND THEIR APPLICATION

Room 1

Chairs: Peter Schlüssel (EUMETSAT)
Stephan Tjemkes (EUMETSAT)

- 08:30 Use of Spectral Information in Microwave Region for Numerical Weather Prediction
Filipe Aires, Estellus
- 08:45 Satellite observations of Water-vapor and its impact on climate-change
Venkata-Subba Reddy Imma Reddy, Department of Physics, GITAM University-Hyderabad-Campus
- 09:00 The operational IASI L2 products version 6 at EUMETSAT
Thomas August, EUMETSAT
- 09:15 A synergetic approach for the retrieval of atmospheric and surface parameters over land from infrared and microwave satellite measurements
Filipe Aires, Estellus
- 09:30 The NOAA operational hyper spectral retrieval algorithm: algorithm description and inter-consistency among the CrIS/ATMS, IASI/AMSU/MHS and AIRS/AMSU retrieval data sets.
Antonia Gambacorta, MSG @ NOAA/NESDIS/STAR
- 09:45 Study for the joint use of IASI, AMSU and MHS for OEM retrievals of temperature, humidity and ozone
Daniel Gerber, RAL Rutherford Appleton Laboratory
- 10:00 GOME-2 Metop-B In-Orbit Degradation and its Impacts on Level 2 Data Products
Faiza Azam, Institut für Umweltphysik, Universität Bremen
- 10:15 Validation of MTG-IRS-L2 proxy temperature and humidity profiles
Gert-Jan Marseille, KNMI

ATMOSPHERIC COMPOSITION

Room 2

Chair: Richard Engelen (ECMWF)

- 08:30 Global Changes In Ozone Pre-Cursor Emissions And The Intercontinental Transport Of Pollution
John Worden, JPL/Caltech
- 09:00 Observational constraints on the budget and distribution of CO in global model studies
Olaf Stein, Forschungszentrum Jülich
- 09:15 The use of atmospheric composition data from Eumetsat in the MACC-II data assimilation system
Antje Inness, ECMWF
- 09:30 Monitoring atmospheric composition using Composition-IFS
Vincent Huijnen, KNMI
- 09:45 GOME-2 total ozone columns from MetOp-A/MetOp-B and assimilation in the MACC system
Nan Hao, DLR-IMF Deutsches Zentrum für Luft- und Raumfahrt
- 10:00 Global monitoring of near-surface sulfur dioxide (SO₂) from IASI satellite observations: Method and first results
Sophie Bauduin, Université Libre de Bruxelles
- 10:15 Ammonia Measurements from the Tropospheric Emission Spectrometer (TES) and the NPP Suomi Cross-Track Infrared Sounder (CrIS)
Karen Cady-Pereira, Atmospheric and Environmental Research

10:30

POSTER SESSION

Foyer

COFFEE BREAK - Foyer

11:15

CURRENT AND FUTURE SATELLITES, INSTRUMENTS AND THEIR APPLICATION

Room 1

Chairs: Peter Schlüssel (EUMETSAT)
Stephan Tjemkes (EUMETSAT)

- 11:15 Selected Results of the MTG-IRS Level 2 Validation and Demonstration Processor
Stephen Tjemkes, EUMETSAT
- 11:30 Advances in Non-linear Retrievals for IASI and MTG-IRS Hyperspectral Infrared Sounders
Gustavo Camps-Valls, Universitat de Valencia
- 11:45 Evaluation of the atmospheric humidity as seen by SAPHIR/Megha-Tropiques : accounting for uncertainties
Helene Brogniez, LATMOS Laboratoire Atmosphères, Milieux, Observations Spatiales
- 12:00 Calibration of the Observing Simulation System Experiment (OSSE) use to assess the Impact of Geostationary Hyperspectral Data
Allen Huang, CIMSS
- 12:15 The EUMETSAT OSI SAF near 50 GHz sea ice emissivity model
Rasmus Tonboe, DMI The Danish Meteorological Institute

ATMOSPHERIC COMPOSITION

Room 2

Chair: Richard Engelen (ECMWF)

- 11:15 N₂O and CH₄ Observations using AIRS, IASI and CrIS
Xiaozhen(Shawn) Xiong, NOAA/NESDIS/STAR
- 11:30 Air Quality Monitoring and Forecasting Services: Results of PASODOBLE
Thilo Erbertseder, DLR, Deutsches Fernerkundungsdatenzentrum
- 11:45 Tropospheric ozone from satellite and model data: a global and local assessment
Sarah Safieddine, UPMC Univ. Paris 06, Université Versailles St-Quentin, CNRS/INSU, LATMOS-IPSL
- 12:00 Tropospheric ozone and profile retrievals using TIR, UV and visible spectra from MetOp-A and B
Georgina Miles, RAL Rutherford Appleton Laboratory
- 12:15 Tropospheric trace gas column observations from GOME-2 for air quality applications
Pieter Valks, DLR-IMF

12:30

LUNCH BREAK

Restaurant 1st floor

PRESENTATION

Room 18 (level-1)

3D exploration of weather data in combination with 3D atmospheric (IASI) profiles

Michael Koutek, KNMI

ORAL PRESENTATION

TIME

ADVANCES IN UNDERSTANDING ATMOSPHERIC PROCESSES USING SATELLITE DATA
 Room 3 *Chair: Vincenzo Levizzani (ISAC/CNR)*

- 08:30 Improving the understanding of freezing processes in clouds using satellite data
Martin Stengel, *DWD Deutscher Wetterdienst*
- 09:00 The Fog/Low Stratus Detection during Nighttime Using NPP VIIRS Data
Wei Yan, *Institute of Meteorology and Oceanography, PLA Univ. of Science and Technology*
- 09:15 Near real time temperature and specific humidity profiles based onGPS radio occultations from Metop-A and Metop-B.
Johannes K. Nielsen, *DMI*
- 09:30 Record-breaking statistics in CLAAS to study trends and variance of cloud properties
Anke Kniffka, *DWD Deutscher Wetterdienst*
- 09:45 Observing Atmospheric Processes with the GNSS Radio Occultation Technique
Ulrich Foelsche, *IGAM/Institute of Physics, University of Graz, Austria, Wegener Center for Climate and Global Change*
- 10:00 Observing stratospheric gravity waves with IASI: detection algorithm, case studies, and climatology
Lars Hoffmann, *Forschungszentrum Jülich*

POSTER SESSION
 Foyer

COFFEE BREAK - Foyer

ADVANCES IN UNDERSTANDING ATMOSPHERIC PROCESSES USING SATELLITE DATA
 Room 3 *Chair: Johannes Schmetz (EUMETSAT)*

- 11:15 GOME-2 observes transport of tropospheric BrO by polar cyclones
Anne-M. Blechschmidt, *Institut für Umweltphysik, Universität Bremen*
- 11:45 Shortwave infrared measurements of the TROPOMI instrument on the Sentinel 5 Precursor mission
Jochen Landgraf, *SRON Netherlands Institute for Space Research*
- 12:00 Solar energy forecasting using Meteosat Second Generation Optimal Cloud Analysis and cloud motion vectors derivation from MSG HRV channel
Sylvain Cros, *Reuniwatt SAS*

LUNCH BREAK
 Restaurant 1st floor

PRESENTATION
 Room 18 (level-1)
 3D exploration of weather data in combination with 3D atmospheric (IASI) profiles
Michael Koutek, *KNMI*



AFTERNOON

25 SEP

TIME

14:00

CURRENT AND FUTURE SATELLITES, INSTRUMENTS
AND THEIR APPLICATION

Room 1

Chairs: Lothar Schüller (EUMETSAT)
Thomas August (EUMETSAT)

- 14:00 Use of SAPHIR and GMI for intercalibration of polar orbiting passive microwave water vapor sounders
Vivienne Payne, *Jet Propulsion Laboratory/California Institute of Technology*
- 14:15 Geometric accuracy assessment of AVHRR orthoimages from METOP-2
Sultan Kocaman Aksakal, *ETH Zurich*
- 14:30 GRAFIIR and JAFIIR – Efficient End-to-End Semi Automated GEO and LEO Sensor Performance Analysis and Verification Systems
Hong Zhang, *CIMSS/SSEC University of Wisconsin-Madison*
- 14:45 Transitioning the GOES-R Fog and Low Stratus Products from Research To Operations
Chad Gravelle, *NWS Operations Proving Ground*
- 15:00 The VIIRS Day/Night Band Lights the Way toward a New Era in Nocturnal Environmental Characterization
Steven Miller, *CIRA Cooperative Institute for Research in the Atmosphere*
- 15:15 Fire on High—Unique Perspectives on the Chelyabinsk Meteor from Earth-Viewing Environmental Satellites
Steven Miller, *CIRA Cooperative Institute for Research in the Atmosphere*

ATMOSPHERIC COMPOSITION

Room 2

Chair: David Edwards (NCAR National Center for
Atmospheric Research)

- 14:00 Lowermost tropospheric ozone observed by multispectral synergism of IASI thermal infrared and GOME-2 ultraviolet satellite measurements
Juan Cuesta, *LISA-CNRS Laboratoire Interuniversitaire des Systèmes Atmosphériques*
- 14:15 Degradation Corrected Vertical Ozone Profiles from Metop/GOME-2
Olaf Tuinder, *KNMI*
- 14:30 NDACC-based validation of Envisat greenhouse gas products and their evolution
Daan Hubert, *Belgian Institute for Space Aeronomy (BIRA-IASB)*
- 14:45 Comparisons of satellite and ground-based measurements of atmospheric gaseous composition
Alexander Polyakov, *Saint-Petersburg State University*
- 15:00 Direct validation of satellite-derived trends in tropospheric nitrogen dioxide with ground-based MAX-DOAS instruments
Philipp Schneider, *NILU - Norwegian Institute for Air Research*
- 15:15 GOME-2 total and tropospheric NO₂ validation based on zenith-sky, direct-sun and MAXDOAS network observations
Gaia Pinardi, *IASB-BIRA Belgian Institute for Space Aeronomy*
- 15:30 Validation and accuracy estimation of a new multispectral retrieval of ozone using IASI infrared and GOME-2 ultraviolet satellite measurements
Chloé Caumont-Prim, *LISA-CNRS Lab. Interuniversitaire des Systèmes Atmosphériques*

15:45

POSTER SESSION

Foyer

COFFEE BREAK - Foyer

16:30

CURRENT AND FUTURE SATELLITES, INSTRUMENTS
AND THEIR APPLICATION

Room 1

Chairs: Lothar Schüller (EUMETSAT)
Thomas August (EUMETSAT)

- 16:30 Heading for the Future: The next Phase of EUMeTrain (2014 - 2019)
Andreas Wirth, *ZAMG Zentralanstalt für Meteorologie und Geodynamik*
- 16:45 Training Within the GOES-R Proving Ground: Past, Present, and Future
Chad Gravelle, *NWS Operations Proving Ground*
- 17:00 CIRA Proving Ground Activities
Renate Brummer, *CIRA, Colorado State University*
- 17:15 3D Exploration of Weather Data in Combination with IASI L2 Products for Better Understanding of Potential Applications
Michal Koutek, *KNMI*

QUANTITATIVE APPLICATIONS FOR NOWCASTING

Room 2

Chair: Paolo Ambrosetti (Federal Office of Meteorology and
Climate MeteoSwiss)

- 16:30 Using hyper-spectral sounding products to improve forecasts of the pre-convective environment as a prelude to MTG-IRS
Ralph Petersen, *CIMSS*
- 17:00 Integration of a nowcasting model based on the Meteosat Second Generation satellite with the Nowcasting SAF framework
Michele de Rosa, *Geo-K s.r.l.*
- 17:15 H-SAF future developments on Convective Precipitation Retrieval
Davide Melfi, *C.N.M.C.A.*
- 17:30 Evaluation of NWC SAF Precipitation Products for the Adriatic Region
Izidor Pelajic, *DMHZ Meteorological and Hydrological Service of Croatia*

ORAL PRESENTATION
TIME
ADVANCES IN UNDERSTANDING ATMOSPHERIC PROCESSES USING SATELLITE DATA

 Room 3 Chair: Jochen Landgraf (SRON)

- 14:00 Comparison of the MSG 2.5-minute rapid scan data and products derived from these, with radar and lightning observations
Martin Setvak, *Czech Hydrometeorological Institute*
- 14:30 Evaluation of the Precipitating Convective Systems over the Arabian Peninsula using Microwave Satellite Observations
Paul Kucera, *National Center for Atmospheric Research*
- 14:45 NARVAL - Airborne remote sensing of warm and cold clouds for satellite validation with HALO
Mario Mech, *University of Cologne*
- 15:00 Evolution of the U.S. Global Precipitation Measurement Mission Ground Validation Program in the Pre and Post-Launch Era
Walter Petersen, *NASA Wallops Flight Facility*
- 15:15 Photon path length distributions for cloudy atmospheres from GOSAT satellite measurements
Marloes Penning de Vries, *MPI Max-Planck Institut für Chemie*

SATELLITE DATA IN GLOBAL AND REGIONAL MODELLING

 Room 4 Chairs: Dieter Klaes (EUMETSAT) (14:00 - 14:45)
 Paul Menzel (SSEC University of Wisconsin-Madison) (14:45 - 15:45)

- 14:00 Assessing the impact of incorrect observational covariance matrix over Retrieval: Methods and Application to IASI data
Carmine Serio, *School of Engineering, University of Basilicata*
- 14:30 The potential impact of MTG-IRS data assimilation in a fine-scale weather forecast model : An observing system simulation experiment
Stephanie Guedj, *Météo-France and CNRS CNRM/GAME*
- 14:45 Assimilation Impact of Hyperspectral Infrared Retrieved Profiles on Advanced Weather and Research Model Simulations of a Non-Convective Wind Event
Kevin Fuell, *NASA Postdoctoral Fellow Marshall Space Flight Center*
- 15:00 Selection of IASI channels for data assimilation in a global NWP model
Youngchan No, *Seoul National University*
- 15:15 The data quality and performance of four FY-3 instruments for NWP
Ling Sun, *National Satellite Meteorological Center, China Meteorological Administration*
- 15:30 Investigating the impact of the SAPHIR microwave sounder onboard Megha-Tropiques into the ARPEGE global model
Philippe Chambon, *CNRM/GAME, Météo France and CNRS*

14:00

POSTER SESSION

Foyer

COFFEE BREAK - Foyer

15:45

ADVANCES IN UNDERSTANDING ATMOSPHERIC PROCESSES USING SATELLITE DATA

 Room 3 Chair: Walter Petersen (NASA)

- 16:30 Impact of tropical mesoscale convective systems on upper tropospheric humidity: exploitation of megha-tropiques data
Garot Thomas, *Laboratoire Atmosphères, Milieux, Observations Spatiales*
- 16:45 A key tool for atmospheric remote sensing applications: the GEISA spectroscopic database
Nicole Jacquinet, *LMD-CNRS Laboratoire de Météorologie Dynamique, Palaiseau*
- 17:00 Conceptual Models for Southern Hemisphere
Vesa Nietosvaara, *EUMETSAT*
- 17:15 Conceptual models for the Southern Hemisphere (CM4SH): South Africa
Lee-ann Simpson, *South African Weather Service*
- 17:30 Quality index for radar-based rainfall estimation and the impact of its introduction on the validation of H-SAF satellite precipitation products: a comparative test over Italy and Slovakia
Angelo Rinollo, *Italian Department of Civil Protection (DPC)*

SATELLITE DATA IN GLOBAL AND REGIONAL MODELLING

 Room 4 Chair: Carmine Serio (University of Basilicata)

- 16:30 Evaluating microwave temperature and humidity sounding data from China's FY-3 satellites in the ECMWF system
Heather Lawrence, *ECMWF*
- 16:45 Assimilation of Cross-track Infrared Sounder radiances at ECMWF
Reima Eresmaa, *ECMWF*
- 17:00 Scatterometer Impact Studies at ECMWF
Giovanna De Chiara, *ECMWF, Reading, United Kingdom*
- 17:15 Assimilation of strongly non-linear observations within a 1dVar system
Erik Lange, *DWD Deutscher Wetterdienst*
- 17:30 Assimilating nearly-simultaneous IR and microwave observations over severe weather into cloud-permitting models
Ziad Haddad, *JPL Jet Propulsion Laboratory*

16:30

MORNING

26 SEP

TIME

08:30

QUANTITATIVE APPLICATIONS FOR NOWCASTING

Room 2

Chair: Veso Nietosvaara (EUMETSAT)

- 08:30 Using GOES-R Demonstration Products to Bridge the Gap Between Severe Weather Watches and Warnings for the 20 May 2013 Moore, OK Tornado Outbreak
Chad Gravelle, *NWS Operations Proving Ground*
- 09:00 Automated CB/TCU METAR based on radar and satellite data.
Paul (Johannes) DeValk, *KNMI*
- 09:15 Gravity wave interference signatures atop thunderstorms as observed by satellites
Pao Wang, *University of Wisconsin, Madison, USA, Academia Sinica*
- 09:30 Pattern Recognition in Infrared Satellite Imagery atop Deep Convective Clouds over Slovenia
Mateja Irsic Zibert, *Slovenian Environment Agency*
- 09:45 Cases Studies and Sensitivity Analyses of Satellite Derived Cape Instability Indices
Zsófia Kocsis, *OMSZ Hungarian Meteorological Service*
- 10:00 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 four year period 2010- 2013.
Ramesh Chander Bhatia, *Retired from India Meteorological Department*

DATA ACCESS FOR EASY UTILISATION

Room 3

Chair: John van de Vegte (KNMI)

- 08:30 Advancement of Community Satellite Processing Packages - Status and Outlook of CSPP and IMAPP
Hung-Lung Allen Huang, *Cooperative Institute for Meteorological Satellite Studies (CIMSS)*
- 09:00 Reading and Processing VIIRS data efficiently with Pytroll
Martin Raspaud, *SMHI*
- 09:15 Application of polar orbiter products in weather forecasting using open source tools and open standards
Maarten Plieger, *KNMI*
- 09:30 SATURN: SATellite User Readiness Navigator for the next generation of geostationary satellites
Mikael Rattenborg, *WMO*
- 09:45 Aspects, Utilization and Benefits of the SADCA (Satellite Data Access for Central Asia) Project
Erdem Erdi, *Turkish State Meteorological Service*
- 10:00 Engineering of the central and user services in a distributed Ground Segment: H-SAF case
Emiliano Agosta, *Telespazio*

10:30

POSTER SESSION

Foyer

COFFEE BREAK - Foyer

11:15

QUANTITATIVE APPLICATIONS FOR NOWCASTING

Room 2

Chair: Paolo Ambrosetti (Federal Office of Meteorology and Climatology MeteoSwiss)

- 11:15 Can the 3D tool at KNMI together with satellite images help the forecaster to make a better forecast in a severe weather situation?
Frans Debie, *KNMI*
- 11:30 Satellite products used in the Austrian nowcasting system INCA: recent developments
Andreas Wirth, *ZAMG*
- 11:45 Improving early drought detection using AIRS satellite observations
Amir Agha Kouchak, *University of California*
- 12:00 Satellite observations of Hurricane Bill (2009): links to African easterly waves and precipitation patterns
Vesa Nietosvaara, *Laboratory for Analyzing and Processing Satellite Images (LAPIS)*
- 12:15 A novel multispectral algorithm based on the Meteosat Second Generation satellite for the detection, the tracking and the nowcasting of the thunderstorms
Michele de Rosa, *Geo-K s.r.l.*

DATA ACCESS FOR EASY UTILISATION

Room 3

Chair: Harald Rothfuss (EUMETSAT)

- 11:00 Commentary Metadata - Sharing knowledge about climate data
J.D. Blower, *Department of Meteorology, University of Reading*
- 11:30 What's out there? WMO Online Resources on Satellite Systems, Data and Products
Stephan Bojinski, *World Meteorological Organization*
- 11:45 A New Processing Infrastructure Facilitating Data Access & Utilisation
Simon Hutton, *CGI*
- 12:00 The MTG Flexible Combined Imager Level 1c Dataset
Gary Fowler, *EUMETSAT*
- 12:15 MellowBox - software to facilitate development of temporal and spatial data processing algorithms, strongly focused on operational capabilities
Jakub Zdroik, *Institute of Oceanography / University of Gdansk*
- 12:30 Flexible scheduling of polar weather satellite reception
Martin Raspaud, *SMHI Swedish Meteorological and Hydrological Institute*

12:45

CLOSING CEREMONY

Closing Remarks, **Kenneth Holmlund**, EUMETSAT

13:00

Room 2

Presentation of 2015 conference location, **Maire-Ange Folacci**, Météo-France

ORAL PRESENTATION

TIME

SATELLITE DATA IN GLOBAL AND REGIONAL MODELLING 08:30
 Room 4 *Chairs: Carmine Serio (University of Basilicata) (08:30-08:45)*
Susanne Mecklenburg (ESA) (08:45-10:15)

08:30 Verifying NWP model analyses and forecasts using simulated satellite imagery

Thomas Blackmore, Met Office

08:45 Root zone soil moisture monitoring using a land data assimilation system: SM-DAS-2 product of H-SAF

Clément Albergel, ECMWF

09:00 The ESA WACMOS-ET project: advancing in the production of evapotranspiration from satellite observations

Carlos Jimenez, Estellus

09:15 Validation and Applications of Currently Operational Satellite Soil Moisture Data Products of NOAA-NESDIS

Xiwu Zhan, NOAA-NESDIS-STAR

09:30 SMOS - Land Product Developments and Applications

Matthias Drusch, ESA/ESTEC

09:45 Attempts to reduce uncertainty in snow water amount estimation for hydrological models use, based on microwave satellite data.

Piotr Struzik, Institute of Meteorology and Water Management-NRI

10:00 Assimilation of SMOS retrieved soil moisture into the land information system

Gary Jedlovec, NASA

POSTER SESSION 10:30
 Foyer

COFFEE BREAK - Foyer

SATELLITE DATA IN GLOBAL AND REGIONAL MODELLING 11:15
 Room 4 *Chair: Graeme Kelly (Met Office)*

11:15 Overview of the status of AMVs in the ECMWF system: operational and research activities

Kirsti Salonen, ECMWF

11:30 Characterizing amv height assignment errors in a simulation study

Graeme Kelly, Met Office

11:45 A study of regional differences in ECMWF cloud forecast skill using Climate Monitoring SAF products

Thomas Haiden, ECMWF

12:00 Evaluation of NWP forecasts by objective comparison between observed and synthetic MSG satellite images

Angeles Hernandez-Carrascal, AEMET

12:15 Comparison of high-resolution satellite-observed and model-predicted surface solar irradiances

Jan Fokke Meirink, KNMI

CLOSING CEREMONY 12:45
 Room 2 13:00





POSTER SESSION

CURRENT AND FUTURE SATELLITES, INSTRUMENTS AND THEIR APPLICATION

Foyer

- 1.1 Synthetic Satellite Imagery Development at CIRA
Renate Brummer, CIRA, Colorado State University
- 1.2 Enhancements and Applications of Microwave Radiation Code MonoRTM
Karen Cady-Pereira, Atmospheric and Environmental Research
- 1.3 Improvement of the Quality of Ground-Based AERI Retrievals and its Validation against MetOp/IASI and Radiosonde.
Joon-Sik Cho, National Institute of Meteorological Research
- 1.4 Algorithm integration and evaluation for JPSS satellite mission
Bigyani Das, MSG, NOAA/NESDIS/STAR
- 1.5 Continuity of microwave observations in L-band for operational and climate applications – an ISSI initiative
Matthias Drusch, ESA/ESTEC
- 1.6 Scene in-homogeneity effects on interferometer-based radiance measurements and their impact on the retrieval of atmospheric variables
Antonia Gambacorta, MSG @ NOAA/NESDIS/STAR
- 1.7 Consistency checks results of the MSG 2.5-minute rapid scan imagery and their impact to meteorological usage of data.
Jan Kanak, Slovak Hydrometeorological Institute
- 1.8 A Comparative study on target selection and feature tracking methods for derivation of AMV
Tae-Myung Kim, NMSC-KMA
- 1.9 A Study on the Direct Broadcast Service for GEO-KOMPSAT-2A
In Jun Kim, ETRI
- 1.10 Characterization of SAPHIR data using collocated MHS observations
Mathias Milz, Luleå University of Technology
- 1.11 Vegetation Monitoring using SEVIRI - Normalised Difference Vegetation Index product
Oana Nicola, National Meteorological Administration
- 1.12 Remote sensing of atmospheric and surface parameters with METEOR-M satellite IR-and MW-sounder data
Alexander Polyakov, Saint-Petersburg State University
- 1.13 Remote sensing tools for the next generation of direct broadcast satellites
Kota Prasad, SeaSpace Corporation
- 1.14 The NASA ISS-RapidScat Mission: First Post-Launch Results
Ernesto Rodriguez, Jet Propulsion Laboratory/California Institute of Technology
- 1.15 GOES-R AWG Product Processing System Framework: Transitioning Algorithms from Research to Operations
Shanna Sampson, MSG
- 1.16 Routine Validation of the GOES-R Multi-Satellite Processing System Framework
William Straka III, Cooperative Institute for Meteorological Satellite Studies
- 1.17 Procedures to Validate Satellite Sounding Products using Conventional and Reference/Dedicated Observations: NPROVS and NPROVS+
Bomin Sun, STAR/MSG

CURRENT AND FUTURE SATELLITES, INSTRUMENTS AND THEIR APPLICATION

Foyer

- 1.18 Physical basis for the baseline configuration of MTG-IRS L2PF at Day-1
Stephen Tjemkes, EUMETSAT
- 1.19 Assessment of Suomi NPP Vegetation Index EDR
Marco Vargas, NOAA/NESDIS/STAR
- 1.20 Improvements in scattometer wind ambiguity removal
Jeroen Verspeek, KNMI
- 1.21 A new approach for estimating operationally the spectral distribution of surface solar irradiance: Preliminary results
William Wandji, MINES ParisTech
- 1.22 Cross-track Infrared Sounder (CrIS) instrument performance on-orbit.
Vladimir Zavyalov, Space Dynamics Laboratory, USURF
- 1.23 Preliminary study of the FCI instrument capability to detect dust aerosols
Youva Aoun, MINES ParisTech
- 1.24 Spectral Response Functions of Meteosat Third Generation IR sounder: Main contributors, and estimated response provided to end-user.
Sylvain Abdon, Thales Alenia Space
- 1.25 Operational Retrieval System of High Resolution InfraRed Data
Paolo Antonelli, Space Science Engineering Center, University of Wisconsin - Madison
- 1.26 Update on 3rd party data service at EUMETSAT
Simon Elliott, EUMETSAT
- 1.27 A Linear Programming approach to retrieval of surface emissivity from IASI
Tim Hultberg, EUMETSAT
- 1.28 Assessment of Salomonson Method for Snow Cover Estimation in Karaj and Latyan Basins
Aliakbar Matkan, Shahid Beheshti University
- 1.29 Monitoring Drought Conditions in Slovenia using LSA SAF and MODIS data
Mateja Irsic Zibert, Centre of Excellence Space-SI
- 1.30 Data from the ATMS, CRIS and VIIRS instruments onboard the SUOMI-NPP spacecraft for Space environment monitoring of Kazakhstan
Lyudmila Shagarova, National centre for space-research & technologies
- 1.31 Meteosat Third Generation Lightning Imager, a review of future operational applications
Massimiliano Sist, University of Rome "Tor Vergata"
- 1.32 Development and Application of a Kalman Filter-based INR Algorithm into the Three-Axis Geostationary Remote Sensing Satellites
Dochul Yang, Korea Aerospace Research Institute

CLIMATE
Foyer

- 2.1 The experience and instructions for creating a satellite-based climate atlas for Europe and Latvia
Zanita Avotniece, *Latvian Environment, Geology and Meteorology Centre*
- 2.2 Development of a 30 years-long gridded homogenized solar radiation data set over the Benelux
Edward Baudrez, *RMI*
- 2.3 New developments in the GERB products suite: BARG and HR Edition release
Edward Baudrez, *RMI*
- 2.4 A comparison of data sources for creating a long-term time series of daily gridded solar radiation for Europe
Jedrzej S. Bojanowski, *MeteoSwiss*
- 2.5 Detecting Climate Signatures with High Spectral Resolution Infrared Satellite Measurements
Daniel Deslover, *University of Wisconsin-Madison; Space Science and Engineering Center*
- 2.6 Longwave radiative effect (LWRE) due to ozone estimated from IASI observations
Stamatia Doniki, *Université Libre de Bruxelles*
- 2.7 Urban Heat Island Monitoring under Present and Future Climate (project UCLIMESA)
Alexandru Dumitrescu, *National Meteorological Administration of Romania*
- 2.8 Comparison of surface global radiation maps based on surface and satellite data over Hungary.
Judit Kerényi, *OMSZ Hungarian Meteorological Service*
- 2.9 The cloud property datasets of CM SAF derived from SEVIRI on geostationary Meteosat Second Generation satellites: CLAAS and the 15 minutes cloud mask
Anke Kniffka, *DWD Deutscher Wetterdienst*
- 2.10 SSCP D2 Cloud Data as Compared to ISCCP-like MODIS Cloud Dataset
Andrzej Kotarba, *Space Research Centre, Polish Academy of Sciences*
- 2.11 Climate data records generated from GNSS radio occultation measurements
Kent Lauritsen, *Danish Meteorological Institute*
- 2.12 Retrieval broadband albedo using Red and NIR band in East Asia
Chang Suk Lee, *Dep. Spatial Information Engineering, Pukyong National University*
- 2.13 H-SAF MSG/SEVIRI and Metop/AVHRR based snow extent products and validation
Niilo Siljamo, *FMI Finnish Meteorological Institute*
- 2.14 2.14_Climatology of polar lows in the Nordic seas over 1995-2008 based on satellite data
Julia Smirnova, *Russian State Hydrometeorological University*
- 2.15 Long term climatological data records from scatterometer winds
Anton Verhoef, *KNMI*

CLIMATE
Foyer

- 2.16 Intelligent Drought Prediction Using Artificial Neural Network and low-cost satellite data
Getachew Berhan Demisse, *ADDIS ABABA UNIVERSITY*
- 2.17 Two Decades of Global and Regional Sea Level Observations from the ESA Climate Change Initiative Sea Level Project
Sylvie Labroue, *CLS, Space Oceanography Division*
- 2.18 Forest fire analysis system with sevir and modis data
Roberto Fabrizi, *ISDEFE*
- 2.19 Potential influence of climate change on the Namib Desert fog
Jan Tolzmann, *Karlsruhe Institute of Technology*
- 2.20 Climate Data Records of the EUMETSAT Satellite Application Facility on Climate Monitoring
Anke Kniffka, *DWD Deutscher Wetterdienst*
- 2.21 Passive-Microwave Remote Sensing of Snow-Depth Estimation over Iran, based on Results of the Three SSM/I Algorithms
Ali Akbar Matkan, *Shahid Beheshti University*

QUANTITATIVE APPLICATIONS FOR NOWCASTING
Foyer

- 3.1 Verification of cloud field simulated by the NWP model with MSG-SEVIRI data
Vojtech Bliznak, *Institute of Atmospheric Physics AS CR*
- 3.2 NWCSAF/PPS: Cloud product updates in version 2014
Adam Dybbroe, *SMHI*
- 3.3 The use of the RDT thunderstorm tracking product for the HAIC campaign
Amanda Gounou, *Météo-France DPrevi/PI*
- 3.4 Investigating the typical development of thunderstorms using satellite, weather radars, and lightning observations as well as NWP model data
Ulrich Hamann, *MeteoSwiss*
- 3.5 Multi-sensor nowcasting system integration at MeteoSwiss: design concept and first real-time application.
Alessandro Hering, *Federal Office of Meteorology and Climatology MeteoSwiss*
- 3.6 Combined use of an instability index and SEVIRI water vapor imagery to detect unstable air masses
Stavros Kolios, *Technological and Educational Institute of Epirus*
- 3.7 Rain rate estimation based on combination of satellite and radar data
Oleksii Kryvobok, *UHMI*
- 3.8 Perspectives of meteosat third generation infrared sounder in nowcasting
Petra Mikus Jurkovic, *DMHZ*
- 3.9 Using Webcam imaging as reference to validate the SAFNWC Cloud Top Temperature and Height product over Switzerland
Daniele Nerini, *Federal Office of Meteorology and Climatology MeteoSwiss*



POSTER SESSION

QUANTITATIVE APPLICATIONS FOR NOWCASTING

Foyer

- 3.10 Comparison between NWCSAF/MSG Precipitating Clouds and Convective Rainfall Rate products and Radar and Rain Gauge data for Romania
Oana Nicola, National Meteorological Administration
- 3.11 Identification of developing thunderstorms and convective intensity forecast with COALITION: validation and forecasters' feedbacks after one year of operational service.
Luca Nisi, Federal Office of Meteorology and Climatology MeteoSwiss
- 3.12 Tuning of METOP AVHRR RGB images
Mária Putsay, Hungarian Meteorological Service
- 3.13 EUMETSAT Hydrological Satellite Application Facility, Precipitation Products Generation System at C.N.M.C.A.
Davide Melfi, Centro Nazionale di Meteorologia e Climatologia Aeronautica
- 3.14 Estimation of global radiation by means of a semi-statistical approach using MeteoSat spectral channels and ground station measurements
Veronika Schreiner, MeteoGroup
- 3.15 Verification of Now casting of Thunderstorms using precipitable water vapor content by GPS installed at Guwahati and extension to Kolkata a Metro city of India
Prasann Kore, IMD India Meteorological Department

DATA ACCESS FOR EASY UTILISATION

Foyer

- 4.1 Meteosat SEVIRI visualization and processing – Comparing open source software for operational use
Mihaela Alina Ristea, National Meteorological Administration of Romania
- 4.2 Real time U.S. S-NPP data service to MyOcean2 and MACC-II Copernicus projects, capitalising on the NOAA-EUMETSAT IJPS cooperation
François Montagner, EUMETSAT
- 4.3 CHARMe: Characterization of Metadata to enable high-quality climate applications and services
Martin Stengel, DWD Deutscher Wetterdienst
- 4.4 Proposal of a User Manual for SMOS Level-2 Land Products. Data Processing and Comparison with Ground Observations for their Validation
Ernesto Lopez-Baeza, University of Valencia. Faculty of Physics. Earth Physics & Thermodynamics Dept.
- 4.5 Comparison of AWS data with co-located surface observatory data, for extreme weather events in India and Antarctica during 2008-13.
Rajesh Mali, IMD India Meteorological Department

DATA ACCESS FOR EASY UTILISATION

Foyer

- 4.6 Potential Applications of EUMETSAT on Environmental and Climate Change Modeling in the Blue Nile River Basin
Carlos Pascual, Kush Institute for Space Technology, Future University
- 4.7 Development of solar irradiance model (SolRad) for operational processing - Mellow Box software use case.
Aleksandra Wisz, Institute of Oceanography / University of Gdansk

MARINE METEOROLOGY AND OCEANOGRAPHY

Foyer

- 5.1 Improvement of OSI SAF product of sea ice edge and sea ice type
Signe Aaboe, Norwegian Meteorological Institute
- 5.2 Application of satellite altimeter data to the coastal protection of Northern Cuba
Eugenio Pugliese Carratelli, CUGRI (University Consortium for Research on Major Hazards)
- 5.3 NOAA Wind Data Products and Quality Control for the Oceansat-2 Scatterometer
Seubson Soisuvarn, NOAA/NESDIS/STAR, College Park
- 5.4 The ASCAT 6.25 km wind product
Jeroen Verspeek, KNMI
Validation and application of AMSR2 sea ice concentration product over the Bohai Sea
Timo Vihma, Finnish Meteorological Institute (FMI)
- 5.5 New release of Duacs products: 20 years of high resolution sea level time series reprocessed
Silvie Labroue, CLS Collecte Localisation Satellites
- 5.7 The upwelling newsletter for the moroccan atlantic coast
Karim Hilmi, INRH

INSTRUMENT CALIBRATION AND VALIDATION CAMPAIGNS

Foyer

- 6.1 Towards a multi-mission calibration and monitoring system for solar reflective bands. The case of the SEVIRI solar bands for Meteosat-8, -9 and -10.
Tim Hewison, EUMETSAT
- 6.2 Establishing GSICS corrections for the SEVIRI VIS06 band, using MODIS Aqua as a reference and Deep Convective Clouds as transfer targets
Tim Hewison, EUMETSAT
- 6.3 IASI validation activities at Sodankylä
Rigel Kivi, FMI Finnish Meteorological Institute

POSTER SESSION
INSTRUMENT CALIBRATION AND VALIDATION CAMPAIGNS

Foyer

- 6.4 EUMETSAT IASI Level 2 Version 6 Product Validation using GPS
Jacola Roman, University of Wisconsin-Madison
- 6.5 Operational Monitoring of IASI radiances at EUMETSAT
Bertrand Theodore, EUMETSAT
- 6.6 Lunar Calibration of Meteosat First Generation Data
Bartolomeo Viticchie, EUMETSAT
- 6.7 Collocation of COSMIC with AIRS, IASI and Suomi NPP
Atmospheric Sounding Retrievals and Radiosonde Observations
Xiaozhen(Shawn) Xiong, NOAA/NESDIS/STAR, College Park
- 6.8 Diurnal and seasonal variations of inter-calibration for COMS Infrared channels
Minjin Choi, National Meteorological Satellite Center/KMA
- 6.9 Preliminary Results from Chinese FY3C Satellite GNSS Radio Occultation Mission
Yan Liu, NWPC/CMA
- 6.10 Multi-instrument comparison of integrated water vapour on high spatio-temporal resolution during the field campaign HOPE
Sandra Steinke, Universität zu Köln
- 6.11 An Inter-comparison among the NOAA Operational CrIS, IASI and AIRS Retrieval Products via Simultaneous Nadir Observations
Changyi Tan, IMSG
- 6.12 Correction for IR channels of imaging radiometers onboard Electro-L and Meteor-M satellites using inter-calibration technique
Alexander Uspensky, SRC Planeta

ATMOSPHERIC COMPOSITION

Foyer

- 7.1 Validation of IASI Ozone Profiles, using balloon sounding data
A.W. Delcloo, Royal Meteorological Institute of Belgium
- 7.2 Validation of GOME-2/OPERA ozone profiles on METOP-A and METOP-B, using balloon sounding data
A.W. Delcloo, KMI
- 7.3 Validation of GOME-2/METOP-A and GOME-2/METOP-B tropospheric ozone column products, using balloon sounding data
A.W. Delcloo, KMI
- 7.4 Tropospheric ozone monitoring with IASI/MetOP using a self-adapting regularization method
Maxim Eremenko, Laboratoire Inter-universitaire des Systèmes Atmosphériques, CNRS
- 7.5 Retrieval of Cloud Top Height and Optical Thickness from GOME-2 using the new ROCINN-CAL algorithm
Sebastian Gimeno García, DLR-IMF
- 7.6 Direct Broadcast: Atmospheric data in real time, SNPP OMPS example and future possibilities
Seppo Hassinen, Finnish Meteorological Institute

ATMOSPHERIC COMPOSITION

Foyer

- 7.7 Validation of GOME-2 MetopA and MetopB ozone profiles
Michael Hess, DWD Deutscher Wetterdienst
- 7.8 4ARTIC: an operational tool for inversion of highly-resolved-atmospheric-spectra
Elsa Jacquette, Centre National d'Etudes Spatiales (CNES)
- 7.9 VALIASI: Validation of IASI trace gas retrievals by ground based FTIR measurements
Eliezer Sepulveda, Izaña Atmospheric Research Center (IARC), AEMET
- 7.10 Improved multi-sensor level-2 total ozone climate data records from GOME, SCIAMACHY, GOME-2 and OMI
Christophe Lerot, Belgian Institute for Space Aeronomy (BIRA-IASB)
- 7.11 The CM-SAF aerosol dataset
Stijn Nevens, RMI
- 7.12 Airborne dust identification from space: a new, MSG/SEVIRI-based method for air quality assessment
Nicola Pergola, CNR
- 7.13 Operational Validation of GOME-2/MetOp-A&B NO₂, HCHO, BrO and SO₂ Data Products
Gaia Pinardi, IASB-BIRA Belgian Institute for Space Aeronomy
- 7.14 Simultaneous assimilation of nadir ozone profiles from multiple UV-VIS instruments
Jacob Van Peet, KNMI
- 7.15 Error budget of the ground-based validation of satellite total ozone measurements
Tijl Verhoelst, Belgian Institute for Space Aeronomy, BIRA-IASB
- 7.16 Simultaneous satellite measurements of NH₃ and NO₂ emitted by fires
Simon Whitburn, Université Libre de Bruxelles
- 7.17 Comparison of OMI and GOME-2 CHOCHO columns since 2007
Leonardo Alvarado, Institute of Environmental Physics, University of Bremen
- 7.18 Consistency between IASI-A and IASI-B operational trace gas products in the Subtropical North Atlantic Region. Comparison to ground-based FTIR at the Izaña Observatory.
Omaira García, Agencia Estatal de Meteorología
- 7.19 GOME-2 total column ozone retrievals and the validation with ground-based and balloon measurements
Jochen Landgraf, SRON Netherlands Institute for Space Research
- 7.20 Inter-comparison of total columns of ozone obtained by IASI-MetOp with ground-based and satellite observations in the southern tropics and subtropics
Abdoulwahab Mohamed Tohir, Laboratoire de l'Atmosphère et des Cyclones, Université de La Réunion
- 7.21 Analysis of Methane Global Distributions from IASI
Richard Siddans, RAL Space
- 7.22 Stratospheric aerosol retrieved from SCIAMACHY measurements in limb geometry
Jan Zorner, Max Planck Institute for Chemistry



POSTER SESSION

ATMOSPHERIC COMPOSITION

Foyer

- 7.23 4A/OP: A fast and accurate operational forward radiative transfer model
Emmanuel Dufour, NOVELTIS
- 7.24 Verification and validation of tropospheric formaldehyde retrievals from GOME-2 on MetOp-A&B
Isabelle De Smedt, Belgian Institute for Space Aeronomy (IASB-BIRA)
- 7.25 Validation of OMI Total Ozone Retrievals from the SAO Ozone Profile Algorithm and Three Operational Algorithms with Brewer Measurements
Jae Kim, Pusan National University
- 7.26 Dust detection with IASI measurements in the weather forecast
Julie Letertre-Danczak, ECMWF
- 7.27 Comparison of Total and Tropospheric Ozone from IASI with OMI-, Ozonesonde- and Surface-Spectrophotometer-Measurements
Ernesto Lopez-Baeza, University of Valencia. Faculty of Physics. Earth Physics & Thermodynamics Dept.
- 7.28 Global surface albedo maps derived from GOME-2 observations
Olaf Tuinder Tilstra, KNMI
- 7.29 Total column ozone measurements with imaging radiometer on board geostationary satellite Electro-L
Alexander Uspensky, SRC Planeta
- 7.30 Global validation of IASI/Metop-A and IASI/Metop-B total ozone columns with ground-based measurements
Irene Zylichidou, Laboratory of Atmospheric Physics A.U.Th

SATELLITE DATA IN GLOBAL AND REGIONAL MODELLING

Foyer

- 8.7 A comparison between RTTOV-11 and 4A/OP-2012 using IASI observations in collocation with the LMD ARSA radiosoundings database
Jérôme Vidot, CMS / Météo-France
- 8.8 SEVIRI Data Impact on Forecasting Storms over Lake Victoria using NCEP NMM-B Model
Xiaoyan Zhang, NCEP/EMC College Park
- 8.9 Evaluation of the SMOS "soil moisture content" Level-3 Product Provided by the CP34 Processing Center for the Valencia Anchor Station Area and from the User Viewpoint
Ernesto Lopez-Baeza, University of Valencia. Faculty of Physics. Earth Physics & Thermodynamics Dept.

ADVANCES IN UNDERSTANDING ATMOSPHERIC PROCESSES USING SATELLITE DATA

Foyer

- 9.1 Cloud occurrences and properties in the Asian Monsoon season for the Pakistan region from CloudSat and CALIPSO observations
Farrukh Chishtie, Institute of Space Technology
- 9.2 Characteristics of decaying stage of deep convection in cloud-system resolving model and satellite observations
Toshiro Inoue, Atmosphere and Ocean Research Institute/The University of Tokyo
- 9.3 Validation of precipitation products of hydrology saf over Hungary for convective cases
Judit Kerényi, OMSZ Hungarian Meteorological Service
- 9.4 Retrieval of ice cloud microphysical properties using combined CloudSat and MODIS measurements based on optimal estimation theory
Yi Kong, Institute of Meteorology and Oceanography, PLA Univ. of Science and Technology
- 9.5 Multi-satellite observations of summertime mixed-phase boundary layer clouds over the Arctic ocean
Steven Miller, Cooperative Institute for Research in the Atmosphere/Colorado State University
- 9.6 Drought-estimation maps using high resolution-satellite data
Argentina Teodora Nertan, National Meteorological Administration
- 9.7 Can we infer plume chemistry from satellite observations?
Marloes Penning De Vries, Max-Planck-Institut für Chemie
- 9.8 Cloud characterization from interpolation of SEVIRI imagery
Vanda Salgueiro, CGE Évora Geophysics Centre, University of Évora

SATELLITE DATA IN GLOBAL AND REGIONAL MODELLING

Foyer

- 8.1 EUMETSAT's ISA-SAF evapotranspiration products focus on Africa region
Alirio Arboleda, RMI
- 8.2 Analysis of Satellite-based Soil Moistures for Application in NWP Model
Meeja Kim, NIMR
- 8.3 Subpixel Variability Analysis for SMOS Soil Moisture Using NDVI and Land Surface Temperature
Hyunji Kim, Pukyong National University
- 8.4 Situation-dependent observation errors for AMSU-A tropospheric channels in the ECMWF forecasting system
Heather Lawrence, ECMWF
- 8.5 Assimilation of COMS Clear Sky Radiance in KMA; Impact on Global Model and Local Model
Jung Rim Lee, KMA
- 8.6 On uncertainties of synthetic satellite images
Fabian Senf, Leibniz Institute for Tropospheric Research

POSTER SESSION

ADVANCES IN UNDERSTANDING ATMOSPHERIC PROCESSES USING SATELLITE DATA

Foyer

- 9.9 The Aerosynoptic Analysis of Formation of Heavy Precipitation and Hail as well as Forecasting Opportunities in Caucasus and the Republic of Armenia
Trahel Vardanian, Yerevan State University

- 9.10 Conceptual Models for the Southern Hemisphere Project: a test case for the SALLJ conceptual model
Luciano Vidal, National Meteorological Service

- 9.11 Airmass, land surface and cloud features, seen in satellite and radar images, indicative for development of severe mesoscale convective systems
Ivaylo Zamfirov, National Institute of Meteorology and Hydrology

- 9.12 The Use of Red Green Blue Air Mass Imagery to Investigate the Role of Stratospheric Air in a Non-Convective Wind Event
Kevin Fuell, NASA Postdoctoral Fellow Marshall Space Flight Center

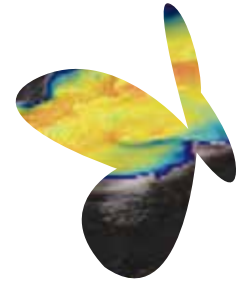
- 9.13 Advances in understanding atmospheric processes using satellite data in Belarus
Alena Khodachinskaya, Republican hydrometeorological centre

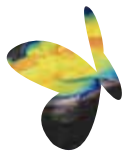
- 9.14 The longwave radiation flux for baltic sea
Marcin Paszkuta, University of Gdansk

- 9.15 Study of tropical cyclones generation in North Atlantic using water vapour channels of SEVIRI/MSG
Vera Rostovtseva, P. P. Shirshov Institute of Oceanology RAS

- 9.16 Ground truthing of Ten day TAMSAT and NOAA CPC rainfall estimates over western Uganda:
Samuel Senkunda, Department of Meteorology, Ministry of Water and Environment

- 9.17 Land-Surface Temperature Forecasting Using Neural Networks and Satellite Images
Farahnaz Taghavi, University of Tehran, Institute of Geophysics





SCIENTIFIC PROGRAMME COMMITTEE MEMBERS

- Paolo Ambrosetti (Federal Office of Meteorology and Climatology MeteoSwiss)
- Paul Di Giacomo (NOAA)
- Mark Dowell (Joint Research Centre (JRC))
- Richard Engelen (ECMWF)
- Kenneth Holmlund (EUMETSAT)
- Dieter Klaes (EUMETSAT)
- Ruediger Lang (EUMETSAT)
- Vincenzo Levizzani (ISAC/CNR)
- Paul Menzel (SSEC University of Wisconsin-Madison)
- François Montagner (EUMETSAT)
- Vesa Nietosvaara (EUMETSAT)
- Harald Rothfuss (EUMETSAT)
- Peter Schlüssel (EUMETSAT)
- Johannes Schmetz (EUMETSAT)
- Joerg Schulz (EUMETSAT)
- Anne-Grete Straume (ESA/ESTEC)
- John van de Vegte (KNMI)
- Fuzhong Weng (NOAA)

