The joint
2007 EUMETSAT Meteorological Satellite Conference
and the
15th American Meteorological Society (AMS) Satellite Meteorology & Oceanography Conference

Amsterdam, The Netherlands
24 - 28 September 2007

Programme - Poster Presentations
SESSION 1
New and Future Satellite Programmes and Instruments, including a special sub-session on NPOESS/Metop

The NPOESS, multi-mission spacecraft
Adkins, Don
Northrop Grumman Space Technology

Meteosat Third Generation: Progress on space segment system feasibility studies
Aminou, Donny M. A.
ESA/ESTEC

High accuracy infrared radiances for weather and climate, Part 1: NIST TXR Validation of scanning HIS radiances and a UW-SSEC blackbody
Best, Fred
University of Wisconsin-Madison

NPOESS: Building capacity in our global weather satellite system
Birk, Ron
Northrop Grumman Space Technology

Post-EPS Initial Satellite (PEPSIS) & METimage, an innovative imaging radiometer for post-EPS
Bruens, Christian
DLR

Evaluation of prototype GOES-R cloud algorithms using SEVIRI, CALIPSO and CloudSat data
Calvert, Corey
University of Wisconsin-Madison

Development of ADM-AEOLUS portable level 2b wind retrieval software
De Kloet, Jos
KNMI

From OMI and SCIAMACHY to TROPOMI: Recent improvements in sun backscatter atmospheric composition measurements
De Vries, Johan
Dutch Space BV

ASCAT wind cross-validation using QuikSCAT data
Dunbar, R. Scott
NASA/JPL

The Atmosphere Product and Evaluation and Test Element (PEATE) for the NPOESS Preparatory Project (NPP)
Dutcher, Steve
University of Wisconsin-Madison

Origami and GIPS: Running a hyperspectral sounder processing system on a lightweight on-demand distributed computing framework
Smuga-Otto, Maciej
University of Wisconsin-Madison

The Earth clouds, aerosols and radiation explorer (EarthCARE) mission
Eisinger, Michael
ESA/ESTEC

Wind retrieval performance on synthetic GOES-R ABI imagery
Genkova, Iliana
University of Wisconsin-Madison

NPOESS interface data processing Segment
Grant, Kerry
Raytheon

Baseline instruments for the GOES-R series
Gurka, James
NOAA/NESDIS

Low frequency noise in the MSG-2 WV 6.2 Image
Hanson, Christopher
EUMETSAT

GOES-R color product development
Hillger, Don
NOAA/NESDIS/STAR/RAMMB

Results of the GOES-13 Science Test
Hillger, Don
NOAA/NESDIS/STAR/RAMMB
NPOESS key to low data latency: SafetyNet(TM)
Jamilkowski, Michael
Raytheon Information Solutions

An optical device for correcting geostationary satellite imagery for Earth curvature effects - Making Meteosat imagery over Europe as good as it is over Equatorial Africa
Johnson, David
NCAR

The NOAA/NESDIS/STAR IASI near real-time operational product processing system
King, Thomas
QSS Group Inc.

The GRAS SAF project: First results from Metop
Lauritsen, Kent
DMI

Improving the usability of night-time imagery from low light sensors
Lee, Thomas
Naval Research Laboratory

In orbit verification results from GRAS receiver on Metop-A satellite
Loiselet, Marc
ESA/ESTEC

Representativity of the Valencia and the Alacant anchor stations in the context of validation of remote sensing algorithms and low-resolution products
Lopez-Baeza, Emesto
University of Valencia

A change to the MSG level 1.5 image product radiance definition
Mueller, Johannes
EUMETSAT

GPS radio occultation on-board the OCEANSAT-2 mission: An Indian (ISRO) and Italian (ASI) collaboration
Petitta, Marcello
Università Sapienza

Formation flying: Toward a robust polar orbiting satellite observing system
Purdom, James
CIRA

Tropospheric ozone pollution sensor for geosynchronous imaging and scientific monitoring
Puschell, Jeffrey
Raytheon

Operational center for GRAS radio occultation products
Rubek, Frans
DMI

The ABI (Advanced Baseline Imager) on GOES-R
Schmit, Tim
NOAA/NESDIS

An observing system simulation experiment (OSSE) for aerosols to consolidate the user requirements for the MTG candidate missions
Siddans, Richard
Rutherford Appleton Laboratory

A unique opportunity for 16 years of Earth observation using the new iridium constellation of 66 LEO satellites
Simpson, William
Trident Sensors Ltd.

Validation of the Metop/IASI sounder radiances
Straw, Larrabee
University of Maryland Baltimore County

GOME-2 polariation measurements - Validation results
Tilstra, L.G.
SRON

Simulation of CERES and GERB TOA products over the Valencia anchor station for GERB validation purposes
Velazquez-Blazquez, Almudena
University of Valencia

AltiKa/SARAL: A new Ka-band altimetry system in tandem with JASON-2
Verron, Jacques
LEGI

FORMOSAT-3/COSMIC constellation mission results and follow-on mission
Yen, Nick L
NSPO
SESSION 2
Assimilation in Numerical Weather Prediction, Ocean, and Coupled Ocean-Atmosphere Models

A proposed new quality indicator to estimate atmospheric motion vector observation error
Berger, Howard
University of Wisconsin-Madison

WindSat products and mission update
Bettenhausen, Michael
Naval Research Laboratory

Assimilation experiments with data from three conically scanning microwave instruments (SSMIS, AMSR-E, TMI) in the ECMWF system
Bomann, Niels
ECMWF

Assimilation of atmospheric motion vectors at ECMWF
Delsol, Claire
ECMWF

Flow-dependent error covariance matrix determination with a multi-analysis model-perturbed ensemble forecast system
Di Giuseppe, Francesca
ARPA-SIM

The assimilation of IR and MW radiances into the high-resolution limited area model-COSMO
Di Giuseppe, Francesca
ARPA-SIM

Combating flood crisis with Geographic Information System (GIS): An example from Akure, Southwest
Ediang, Okuku
Nigeria Meteorological Agency

Challenges of River Basin Information System (RBIS) as a framework for the assessment and monitoring of surface water in Nigeria
Ediang, Okuku
Nigeria Meteorological Agency

Assimilation of cloud and precipitation affected microwave radiances at ECMWF
Geer, Alan
ECMWF

Joint Center for Satellite Data Assimilation (JCSDA) Community Radiative Transfer Model (CRTM)
Groff, David
NOAA/SAIC

A satellite-based thermal infrared retrieval of soil moisture: Implementation within a numerical mesoscale model
Hain, Christopher
University of Alabama in Huntsville

Progress toward the assimilation of cloudy infrared radiances at MSC
Heilliette, Sylvain
Environment Canada

Radiance data assimilation to improve severe weather predictions
Kim, Min-Jeong
NOAA/NESDIS

Impact of temperature and humidity profiles from MODIS on mesoscale modelling
Koos, Svenja
University of Hannover

Evaluation and assimilation of cloud cleared radiances for AIRS in GEOS-5
Liu, Emily (Huichun)
NASA/GSFC

Assimilation of hyperspectral radiances into regional weather forecasting models
McCarty, Will
University of Alabama in Huntsville

Use of the data from the SEVIRI imager on geostationary satellite METEOSAT-8 into operational models ARPEGE and ALADIN
Michel, Yann
Météo-France/CNRS

Assimilation of geostationary radiances at ECMWF
Peubey, Carole
ECMWF

A comparison of two microwave radiative transfer models with satellite and aircraft borne radiometer observations of mixed phase clouds
Pollard, David
Met Office

The Concordiasi project over Antarctica during IPY
Rabier, Florence
Météo-France/CNRS

Using a data assimilation adjoint to improve channel selection for assimilating hyperspectral datasets
Ruston, Benjamin
Naval Research Laboratory

The global impact of satellite-derived polar winds on model forecasts
Santek, David
University of Wisconsin-Madison
A new fast radiative transfer model RTTOV-9
Saunders, Roger
Met Office

Assimilation of SEVIRI infra-red radiances into
a meso-scale NWP model
Stengel, Martin
SMHI

Assimilation of SEVIRI information in the Met
Office's forecast models: Initial experiences
Taylor, Ruth
Met Office

An end-to-end simulator for the EarthCARE
mission
Voors, Robert
KNMI

Addition of several satellite data types in the
operational data assimilation systems at the
Meteorological Service of Canada
Wagneur, Nicolas
Environment Canada

Evaluation of the ARW WRF model in the
complex terrain of Southwest Asia
Part I: Objective verification and impacting
of radiance assimilation
Xu, Jianjun
Joint Center for Satellite Data Assimilation

The impact of including model errors on 4D-
Var data assimilation
Xu, Liang
Naval Research Laboratory

The impact of near-real-time AIRS
thermodynamic profiles on regional weather
forecasting
Zavodsky, Bradley
University of Alabama in Huntsville

SESSION 6
Atmospheric Composition

Monitoring ozone precursors with GOME-2
Beirle, Steffen
MPI Mainz

Application of satellite observations to air
quality monitoring
Chu, D. Allen
NASA/UMBC

Evaluation of cloud influences on aerosol
retrieval and effects on radiative forcing
using MODIS and airborne measurements in
INTEX field campaigns
Chu, D. Allen
NASA/UMBC

DLR data services for GOME-2/Metop
atmospheric trace gas monitoring
Kiemle, Stephan
DLR

Total ozone column and ozone profile
observations by the ozone monitoring
instrument aboard NASA EOS Aura
Kroon, Mark
KNMI

Retrieval of tropospheric ozone: The
synergistic use of thermal infrared emission
and ultraviolet reflectivity measurements
from space
Landgraf, Jochen
SRON

GOME-2 commissioning results - Geophysical
validation of the level 1 products
Munro, Rosemary
EUMETSAT

Aerosol optical depth retrieval over land
from NOAA AVHRR: An enhanced multi-
temporal method
Riffler, Michael
University of Bern

Comparison of NO2 column estimates from
AERONET data with SCIAMACHY retrievals in
industrialized regions
Rublev, Alexei
Russian Research Center "Kurchatov
Institute"

Exploitation of ozone information from the
SEVIRI IR 9.7 micron channel
Siddans, Richard
Rutherford Appleton Laboratory

Atmospheric data access for the geospatial
user community
Som de Cerff, Wim
KNMI

Providing a basic atmospheric science
infrastructure, the NL-SCIA-DC
Van Hees, Richard
SRON

Overview of science results of Aura’s ozone
monitoring instrument
Veefkind, Pepijn
KNMI

Aerosol properties from OMI: Overview and
preliminary results of the multi-wavelength
Algorithm
Veihelmann, Ben
KNMI
XCO2 retrieval over marine boundary layer clouds: Testing OCO methodology on SCIAMACHY data  
Vidot, Jerome  
University of Wisconsin-Madison

The operational GOME-2 cloud product algorithm and preliminary validation  
Wang, Ping  
KNMI

SESSION 9  
Hyperspectral Studies

The use of principal component analysis in processing IASI data  
Cheng, Zhaohui  
Perot Systems

Joint Airborne IASI Validation Experiment (JAIEx) cirrus cloud property intercomparison  
DeSlover, Daniel  
University of Wisconsin-Madison

The use of simulated data sets in atmospheric motion vector research  
Genkova, Iliana  
University of Wisconsin-Madison

A 1DVar atmosphere and surface retrieval algorithm using EOF decomposition applied to measurements taken during the JAIEx campaign  
Havemann, Stephan  
Met Office

The GEISA/IASI spectroscopic database: Evaluation for IASI/Metop flight data  
Jacquinet, Nicole  
Ecole Polytechnique

Preliminary radiance inter-comparisons for the Joint Airborne IASI Validation Experiment (JAIEx)  
Larar, Allen  
NASA Langley Research Center

The physical derivation of emissivity spectrum and its impact on hyperspectral infrared sounding retrieval  
Li, Jinlong  
University of Wisconsin-Madison

The synergistic use of GEO imager and LEO sounder systems for sounding evolution  
Liu, Chian-Yi  
University of Wisconsin-Madison

Comparison of land surface infrared emissivity databases from MODIS, AIRS, and SEVIRI  
Moy, Leslie  
University of Wisconsin-Madison

Forward modelling of IASI and airborne interferometer radiances from the JAIEx campaign  
Newman, Stuart  
Met Office

Large-scale WRF-simulated proxy atmospheric profile datasets used to support GOES-R research activities  
Otkin, Jason  
University of Wisconsin-Madison

Intercalibrating the world’s geostationary imagers via polar orbiting high spectral resolution data  
Schmit, Timothy  
NOAA/NESDIS

Improved radiance validation products: Results for operational correction of Tilt induced interferometric errors for the Scanning High-resolution Interferometer Sounder (SHIS)  
Taylor, Joe  
University of Wisconsin-Madison

Joint Airborne IASI Validation Experiment (JAIEx) - Validation of EUMETSAT level 2 products  
Taylor, Jonathan  
Met Office

Upper level water vapor studies using the Scanning High-resolution Interferometer Sounder  
Tobin, David  
University of Wisconsin-Madison

Cloudy sounding and cloud-top height retrieval from AIRS alone single field-of-view radiance measurements  
Weisz, Elisabeth  
University of Wisconsin-Madison

Initial retrieval validation from the Joint Airborne IASI Validation Experiment (JAIEx)  
Zhou, Daniel K.  
NASA Langley Research Center

Regression of surface infrared emissivity from hyperspectral observations  
Zhou, Lihang  
Perot Systems

SESSION Joint 1 & 2  
New and Future Satellite Programmes and Instruments AND Data Assimilation

Doppler wind Lidar measurement scenarios in the Tropics  
Zagar, Nedjeljka  
NCAR
SET 2:
WEDNESDAY 26 - FRIDAY 28 SEPTEMBER

Set-up as from Wednesday morning 26 September. Dismantling Friday lunch time. Panel numbers will be assigned at a later stage.

SESSION 3
Operational Applications

Verification of the Zambia rainfall seasonal forecasts using meteorological products from Meteosat
Aikayo, Ndui
Zambian Meteorological Department

A satellite-derived drought product to improve agro-meteorological consulting
Becker, Ralf
DWD

Tropical cyclone outflow diagnostics as observed in GOES Rapid-Scan Atmospheric Motion Vector analyses
Berger, Howard
University of Wisconsin-Madison

Snow cover retrieval over Italy by MSG data
Boi, Paolo
SAR Sardegna

Mapping evaporative fraction and soil moisture at national scale assimilating SAF products: The operational system of Italian Civil Protection
Boni, Giorgio
University of Genova

Solar radiation assessment over South America using GOES and MSG imagery
Ceballos, Juan
CPTCE/INPE

Applications of GOES sounder data and retrieved products at NOAA/NESDIS
Daniels, Jaime
NOAA/NESDIS

Atmospheric motion vectors derived operationally at NOAA/NESDIS
Daniels, Jaime
NOAA/NESDIS

Status of the nowcasting SAF Polar Platform System software (PPS) package and first results with Metop
Dybbroe, Adam
SMHI

EPSView - A freely available tool for the analysis and display of EUMETSAT products from Metop and NOAA data
Elliott, Simon
EUMETSAT

Fog detection in cold winter situations using MSG
Eronn, Anna
SMHI

Satellite-based nowcasting and aviation weather applications for convection, turbulence, and volcanic ash
Feltz, Wayne
University of Wisconsin-Madison

Satellite-derived mountain wave turbulence interest field detection
Feltz, Wayne
University of Wisconsin-Madison

Height-resolved wind vectors from GOES sounder moisture analyses
Genkova, Iliana
University of Wisconsin-Madison

Quantitative evaluation of 6.2 µ, 7.3 µ, 8.7 µ channels response to tropospheric moisture distribution
Georgiev, Christo
National Institute of Meteorology and Hydrology, Bulgaria

Using IR and WV channel combinations from geostationary satellites for convection monitoring with the RDT product
Guillou, Yann
Météo-France
Progress on the integration of advanced satellite cloud products into an operational aircraft icing nowcasting system
Haggerty, Julie
NCAR

Current status of lossless compression of ultraspectral sounder and hyperspectral imager data
Huang, Bormin
University of Wisconsin-Madison

Web-based tools that facilitate education and training in satellite meteorology
Jasmin, Tommy
University of Wisconsin-Madison

An open source, three-tiered approach to satellite data collection, delivery, and visualization.
Jasmin, Tommy
University of Wisconsin-Madison

Developing satellite data access methods to broaden potential user community
Knapp, Ken
NOAA/NCDC

Use of the satellite derived instability indices (MPEF product GII) for short-term forecasts of severe weather
König, Marianne
EUMETSAT

Use of MSG data - Improvement in a short range forecasting: Case study on 22 August 2006
Kryvobok, Oleksiy
Ukrainian Hydrometeorological Institute

Comparison and validation of the SEVIRI RGB products from the perspective of their operational applicability for night-time fog detection and nowcasting
Lacinova, Martina
Czech Hydrometeorological Institute

EUMETSAT advanced retransmission service - ATOVS, AVHRR and ASCAT service developments
Lee, David
EUMETSAT

Retrieval of total precipitable water from the split-window technique in the East Asian region
Lee, Kwang-Mog
Kyungpook National University

ASCAT NRT data processing and distribution at NOAA/NESDIS
Legg, Gene
NOAA/NESDIS

Using multi-spectral satellite remote sensing techniques to nowcast nocturnal convection initiation
Mackenzie, Wayne
University of Alabama in Huntsville

Extending satellite-based convective initiation nowcasts into the 1-3 hour timeframe
Mackenzie, Wayne
University of Alabama in Huntsville

Validation of two IR-MSG images forecast models: CINESAT and METCAST
Magaldi, Adolfo
University of Barcelona

NOAA’s suite of operational geostationary sea surface temperature products
Maturi, Eileen
NOAA/NESDIS

Mapping the climatology of 0-1 hour convective initiation across the southeastern United States
Mecikalski, John
University of Alabama in Huntsville

Observational considerations for NexGen: The U.S. next generation air transportation system
Murray, John
NASA Langley Research Center

Tropical cyclone convection and intensity analysis using differenced infrared and water vapor imagery
Olander, Timothy
University of Wisconsin-Madison

Calibration monitoring of MTSAT-1R Infrared channels using Terra MODIS measurements
Park, Hye-Sook
Seoul National University

The Surface Albedo Product (SAL) of CM-SAF in Modeling of Sea Ice Mass Balance
Riihelä, Aku
Finnish Institute of Marine Research

Water vapour imagery analysis in 7.3 μ/6.2 μ for diagnosing thermo-dynamic context of intense convection
Santurette, Patrick
Météo-France
Application of satellite imagery in operational forecasting for aviation
Soboka, Tadesse
National Meteorological Agency, Ethiopia

Validation of the Tropical Rainfall Potential (TRaP) in the Atlantic hurricane basin
Spampata, Michelle
Riverside Technology Inc.

Real time diagnosis of satellite instrument biases using the OSTIA global sea surface temperature analysis system
Stark, John
Met Office

GOES rapid-scan atmospheric motion vectors: Contributions to field experiments and analyses
Stettner, Dave
University of Wisconsin-Madison

Assessing the quality of MODIS and AVHRR Polar winds
Straka III, William
University of Wisconsin-Madison

MSG global instability indices for storm nowcasting - Validation studies on product quality and analysis of sensitivity to input model data
Struzik, Piotr
Institute of Meteorology and Water Management, Poland

Development of the GOME 2 Processing System (G2PS)
vander Vegte, John
KNMI

Development of nowcasting capability for the New York City metropolitan area
Vant-Hull, Brian
NOAA/CREST

SATCHON: A satellite-based consensus TC intensity estimation algorithm
Velden, Chris
University of Wisconsin-Madison

NOAA/NESDIS operational cloud detection system for the Metop-1 satellite
Vicente, Gilberto
NOAA/NESDIS

Comparison of simulated SEVIRI radiances with operational RGB images
Watts, Philip
EUMETSAT

A prediction scheme for aircraft turbulence at tropopause folds using satellite imagery and EDR data
Wimmers, Anthony
University of Wisconsin-Madison

The application and utilization of Meteosat images for short and medium range weather forecasts over Ethiopia
Yohannes, Solomon
National Meteorological Agency, Ethiopia

The status of job of H-SAF precipitation products implementation at C.N.M.C.A.
Zauli, Francesco
Italian Meteorological Service

SESSION 4
Environmental Applications

Combining ASCAT derived soil moisture and MSG radiative fluxes into the LSA-SAF evapotranspiration algorithm, initial comparisons
Arboleda, Alirio
RMI

Statistical comparisons between satellite-derived atmospheric motion vectors, rawinsondes, and NOAA wind profiler observations
Bedka, Kristopher
University of Wisconsin-Madison

Satellite signatures associated with significant convectively-induced turbulence events
Bedka, Kristopher
University of Wisconsin-Madison

Using AVHRR imagery to improve the official database of wildfires in Portugal
Calado, Teresa
University of Lisbon

Operational derivation of surface albedo and down-welling short-wave radiation based on MSG observations in the frame of the SAF programme on Land Surface Analysis
Carre, Dominique
Météo-France

Measuring urban surfaces’ thermal inertia
Casano, Gianfranco
RMI

MODIS-based investigations on the urban heat islands of Bucharest (Romania) and Prague (Czech Republic)
Cheval, Sorin
National Meteorological Administration

Mapping the global distribution of cloud forests and other vegetation types using MODIS imagery
Douglas, Michael
NOAA/National Severe Storms Laboratory
Using AVHRR to assess the impact of the North Atlantic oscillation on vegetation dynamics over Europe
Gouveia, Celia
Escola Superior Tecnologia

Improving correlations between MODIS aerosol optical thickness and ground-based PM2.5 observations through 3D spatial analyses
Hutchison, Keith
University of Texas

Improved retrievals of cloud boundaries from MODIS for use in air quality modeling
Hutchison, Keith
University of Texas

Short term global and diffuse irradiance from MSG HRV imagery
Kemper, Axel
Carl von Ossietzky University

Potential use of MSG derived meteorological parameters in the MARS crop yield forecasting system
Klisch, Anja
European Commission/JRC

O3M SAF surface UV product - Initial Metop-A results
Kujanpää, Jukka
FMI

Snow cover mapping using SEVIRI time series
Lahtinen, Panu
FMI

A new optimal index for burnt area discrimination in satellite imagery
Libonati, Renata
University of Lisbon

Determination of the timing of snow melt in Finland in 2005 and 2006 using the CM-SAF weekly Surface Albedo Product (SAL)
Manninen, Terhiikki
FMI

Producing solar radiation atlas of Iran from satellite images
Mueller, Richard
DWD

Validation of the LSA SAF Land-Surface emissivity product using MODIS data
Peres, Leonardo
INPE

Global automated multisensor snow and ice mapping system
Romanov, Peter
NOAA/NESDIS

Monitoring drought stress in Romania mean NDVI spot vegetation images
Savin, Elena
National Meteorological Administration

GOES-R ABI fire detection and monitoring with the wildfire ABBA
Schmidt, Christopher
University of Wisconsin-Madison

A multi-satellite operational tool to detect and analyze vegetation fires in real-time
Setzer, Alberto
INPE

LandSAF snow cover mapping using MSG/SEVIRI data
Siljamo, Niilo
FMI

Detection of snow coverage with Meteosat-8 SEVIRI data in the Ore mountain
Sommer, Michael
Technical University, Dresden

DMSP F16 SSMIS product demonstration suite in NOAA/NESDIS/STAR
Sun, Ninghai
I.M. Systems Group, Inc.

Preliminary validation studies of EUMETSAT's active fire monitoring product for Turkey
Tekeli, Ahmet
TSMS

SESSION 7
Climate and Long-term Data Sets

Ten Years of TRMM Observations
Adler, Robert
NASA/GSFC

Trends in clouds and cloud correlations over the continental United States and Hawaii as derived from GOES imagery
Alliss, Randall
Northrop Grumman Space Technology

A System of systems approach for Integrated global weather, climate, and hazard monitoring
Baldauf, Brian
Northrop Grumman Space Technology

Developing consistent rainfall estimates from a constellation of satellite radiometers
Berg, Wesley
Colorado State University

Systematic observation requirements for satellite-based products for climate
Bojinski, Stephan
World Meteorological Organization
Towards a combined 25 Years GOME, SCIAMACHY and GOME-2 global water vapour data set
Bovensmann, Heinrich
University of Bremen

Estimating the impact of dust aerosol on radiative fluxes obtained from the Geostationary Earth Radiation Budget (GERB) instrument
Brindley, Helen
Imperial College

NOAA/NESDIS ASCAT near real-time wind data product - Calibration and Validation activities
Chang, Paul
NOAA/NESDIS/STAR-UCAR

Satellite-based global sea ice charts at the U.S. National Ice Center: A tactical to climate observation perspective
Clemente-Colón, Pablo
U.S. National Ice Center

First climate results from the Geostationary Earth Radiation Budget instrument
Dewitte, Steven
RMIB

Warm front shield and Atmospheric Motion Vectors in long term satellite data sets
Dlhopolsky, Rose
RMD Observations

Inter-comparison of long-term surface incoming solar measurements with ISCCP-FD and GEWEX-SRB series
Duerr, Bruno
MeteoSwiss

Arguments against a physical long-term trend in global ISCCP cloud amounts
Evan, Amato
University of Wisconsin-Madison

20 Years of Hydrological Products From the SSM/I: Status and Future
Ferraro, Ralph
NOAA/NESDIS

The Geostationary Earth Radiation Budget experiment: Status and results
Harries, John
Imperial College

Characteristics of the AVHRR Pathfinder Atmospheres Extended (PATMOS-x) Cloud Climatology
Heidinger, Andrew
NOAA

Assessment of the quality of the ERS-1 and ERS-2 scatterometer archive by collocation with buoy data and ECMWF re-analysis winds
Hersbach, Hans
ECMWF

Results of an operational validation of CM-SAF surface radiation budget products
Hollmann, Rainer
DWD

Comparison of cloud statistics from Meteosat with regional climate model data
Huckle, Roger
IMK - Forschungszentrum Karlsruhe

Examination of the effect of increasing greenhouse gas concentrations on HIRS intercalibrated and diurnally-corrected observations
Jackson, Darren
Cooperative Institute for Research in Environmental Sciences

Validation of cloud masks using ceilometer data
Joro, Sauli
EUMETSAT

Status and development of cloud products in the climate monitoring SAF
Karlsson, Karl-Göran
SMHI

Evaluation of variant and invariant cross-track asymmetry in the NOAA-14 microwave sounding unit by a planned maneuver and an unplanned spacecraft tumble
Kleespies, Thomas
NOAA/NESDIS

Data rescue, quality control and reformatting of SSM/I data
Knapp, Ken
NOAA NCDC

Verification of CM SAF and OSI-SAF surface radiation products over Ukraine
Kryvobok, Oleksiy
Ukrainian Hydrometeorological Institute

Climate data based on GNSS radio occultations from the GRAS/METOP instrument
Lauritsen, Kent
DMI

Deriving a sea surface temperature record suitable for climate change research from the along-track scanning radiometers
Merchant, Chris
University of Edinburgh
Verification of reanalysis data and climate change projections based on CM-SAF products
Mueller, Richard
DWD

Inter-calibration of operational geostationary satellite imagers using MODIS: Results from an automated calibration system
Nguyen, Louis
NASA Langley Research Center

Comprehensive analysis of ATOVS and CHAMP humidity estimates
Schulz, Jörg
DWD

Antarctic ice albedo, temperature and sea ice concentration trends, 1981-2000
Siljamo, Niilo
FMI

Climate monitoring using a validated SSM/I 20-year data set
Smith, Deborah
Remote Sensing Systems

Satellite evidence of acceleration of the hydrologic cycle
Smith, Deborah
Remote Sensing Systems

An analysis of the global climatology of ice cloud effective radius using PATMOS-x
Straka III, William
University of Wisconsin-Madison

Differences in daytime AVHRR cloud processing in the Arctic region depending on short-wave infrared channels at 1.6 and 3.7 micron
Tetzlaff, Anke
SMHI

A reanalysis of sea ice concentration from the SMMR and SSM/I passive microwave records
Tonboe, Rasmus
DMI

Satellite climatology of South Foehn events in the Carpathians Mountain in the period 1999 - 2006
Widawski, Artur
University of Silesia

Preliminary use of CM-SAF cloud and radiation products for validation of regional climate model simulations
Willén, Ulrika
SMHI

Recalibration and reprocessing of MSU observations for climate studies
Zou, Cheng-Zhi
NOAA/NESDIS

SESSION 8
Cloud Processes (cloud properties, precipitation, etc.)

Rainfall accumulation estimates over Africa using MSG
Blackmore, Thomas
Met Office

A parameterization of ice and water cloud optical properties for NWP models and its application to the limited area model Lokal-Modell developed by the consortium COSMO
Bozzo, Alessio
University of Bologna

Rain-rate estimation from SEVIRI/MSG and AMSR-E/AQUA: Validation and comparison by using U.K. weather radars
Capacci, Davide
University of Ferrara

A classification of cloud types using the SEVIRI data
Chang, Fu-Lung
National Institute of Aerospace

Using multiple data on Precipitation estimation for typhoon in Taiwan area
Chiou, Tai-Kuang
Central Weather Bureau, Taiwan

Diurnal variation of upper tropospheric humidity and its relations to convective activities over tropical Africa
Chung, Eui-Seok
Seoul National University

Simulation of microphysical and optical characteristics of frontal mixed clouds
Doman, Boris
Ukrainian Hydrometeorological Institute

CloudSat data processing - From the satellite to the researchers desktop
Eis, Kenneth
CIRS/CSU

A Users Guide to CloudSat standard data products
Eis, Kenneth
CIRS/CSU
Adaptation of the Nowcasting Satellite Application Facility (NWC-SAF) Polar Platform System (PPS) cloud detection software for inner Arctic night-time conditions
Eliasson, Salomon
SMHI

Assessment of uncertainty on satellite-derived areal rainfall estimates using dual sequential simulation
Grimes, David
University of Reading

Comparison of Metop AVHRR cloud products from the CLAVR-x, MAIA and PPS systems
Heidinger, Andrew
NOAA

Remote sensing of cloud optical thickness and effective radius from SEVIRI
Hünerbein, Anja
Free University Berlin

Distinguishing aerosols from clouds in multispectral satellite data with automated cloud classification algorithms
Hutchison, Keith
University of Texas

Importance, identification and measurement of light precipitation at mid-to high-latitudes
Kidd, Chris
University of Birmingham

Cloud-precipitation interaction derived from space-borne radar and radiometer measurements
Kobayashi, Takahisa
Meteorological Research Institute

Meteosat Second Generation: Convective storm nowcasting tools
König, Marianne
EUMETSAT

Reliability of the total cloud cover estimation over land with MODIS cloud mask data
Kotarba, Andrzej
Jagiellonian University

The parallax correction of MSG images on the basis of the SAFNWC cloud top height product
Lábó, Eszter
Hungarian Meteorological Service

Space-borne Lidar measurements: Advancing the knowledge on aerosols and clouds
Lajas, Dulce
ESA/ESTEC

Observations of tropical cyclones with microwave sounders
Lambrightsen, Bjorn
JPL/California Institute of Technology

Operational cloud masking for the O&SI SAF global Metop SST production
Lavanant, Lydie
Météo-France

Aerosol monitoring by PARASOL on A-train
Lifermann, Anne
CNES

Comparison of different cloud classification methods for Meteosat-8 SEVIRI data
Lorenz, Anne
Technical University, Dresden

A satellite based method for improving weather radar images
Magaldi, Adolfo
University of Barcelona

Contrails and contrail cirrus
Mannstein, Hermann
DLR

Observed and model-simulated intraseasonal WAM variability for the 2005 rainy season
Melani, Samantha
CNR

Near real-time CloudSat processing at the Naval Research Laboratory
Mitrescu, Cristian
Naval Research Laboratory

Precipitation retrieval algorithms and precipitation products for the EUMETSAT Satellite Application Facility in Support to Operational Hydrology and Water Management (H-SAF)
Mugnai, Alberto
CNR

Precipitation retrieval and analysis of severe storms based on The Cloud Dynamics and Radiation Database (CDRD) Approach
Mugnai, Alberto
CNR

An Intercomparison Study of MODIS-derived and WRF-simulated cloud data
Otkin, Jason
University of Wisconsin-Madison

Comparison and validation of cloud properties from Meteosat-8 to ground site observation
Palikonda, Rabindra
NASA Langley Research Center
Comparison and statistical analysis of cloud properties derived from POLDER and MODIS
Parol, Frederic
Laboratoire d'Optique Atmosphérique, USTL

Validation of high latitude ocean precipitation retrievals for AMSR-E and GPM
Petty, Grant
University of Wisconsin-Madison

Modeling of microwave extinction and scattering by complex snow aggregates for GPM
Petty, Grant
University of Wisconsin-Madison

Evaluation of Meteosat-8/SEVIRI retrieved cloud depth for water clouds using CloudNet sites
Placidi, Simone
Delft University of Technology

Results of the first year of activity of the Precipitation Products Validation group in the Hydrological SAF
Puca, Silvia
Dipartimento della Protezione Civile

Evaluation of the diurnal cycle of liquid water path in a regional climate model with SEVIRI retrievals
Roebeling, Rob
KNMI

Adaptation of a model-generated cloud database to satellite observations
Seo, Eun-Kyoung
Seoul National University

Improving cloud climatology analysis using space lidar observations: Comparison of SEVIRI and PARASOL Cloud products with CALIPSO lidar
Sèze, Geneviève
Laboratoire de Météorologie Dynamique

Cloud height from OMI, MODIS, POLDER, CALIPSO, and CloudSat in the "A" train: The potential power of combined satellite retrievals
Sneep, Maarten
KNMI

Orography parameters masks for MSG SEVIRI imagery interpretation
Velea, Liliana
CNR

Large-scale validation of daily rainfall estimates of uncorrected and corrected AMSU-B derived rain rate retrievals
Vila, Daniel
University of Maryland

The adjustment of TRMM PR monthly rainfall data for the post-boost period
Wang, Jian-Jian
University of Maryland Baltimore County

Comparison of SEVIRI and MODIS cloud phase determination methods over (sub)-tropical regions
Wolters, Erwin
KNMI

MODIS cloud-top properties estimation and a study of algorithm improvements in low level temperature inversions
Zhang, Hong
University of Wisconsin-Madison

SESSION 10
Retrieval Methods

The Hydrological SAF visiting scientist program: Merging of AMSU and SEVIRI data to improve precipitation estimates for convective systems
Antonelli, Paolo
University of Wisconsin-Madison

Retrieval of microphysical and optical characteristics of mixed frontal clouds from multispectral satellite data
Bakhanov, Vladimir
Ukrainian Hydrometeorological Institute

Assessment of algorithms for down-welling long-wave radiation at the surface
Barroso, Carla
Institute of Meteorology

Determination of sub-pixel variabilities of inferred latent heat fluxes for individual satellite pixels
Berger, Franz H.
DWD

WindSat ocean vector wind retrievals at multiple resolutions
Bettenhausen, Michael
Naval Research Laboratory

A high spectral resolution global land surface infrared emissivity database
Borbas, Eva
University of Wisconsin-Madison

Synergies between SEVIRI and MODIS
Bugliaro, Luca
DLR

Low stratus thickness retrieval from SEVIRI data
Cemak, Jan
University of Marburg
Notes on calculation of the SEVIRI band IR3.9 reflectivity
Charvát, Zdenek
Czech Hydrometeorological Institute

Improved narrowband-to-broadband conversions for and from SEVIRI-GERB
Clerbaux, Nicolas
RMI

Combination of ground-based GPS and MSG Total precipitable water
de Haan, Siebren
KNMI

Quantification of uncertainties in retrieved cloud properties from satellite imagers
Deneke, Hartwig
KNMI

Error propagation in the LSA-SAF algorithm for land surface temperature
Freitas, Sandra Coelho
Institute of Meteorology, Portugal

A Satellite-based thermal infrared retrieval of soil moisture: Validation with Oklahoma mesonet soil moisture observations
Hain, Christopher
University of Alabama in Huntsville

Reconstruction and visualization of 3D wind fields from satellite image sequences
Héas, Patrick
INRIA

Motion estimation of 2D atmospheric layers from satellite image sequences
Héas, Patrick
INRIA

Quantitative precipitation estimation over ocean using Bayesian approach from microwave data during the typhoon season
Hu, Jen-Chi
Chung Cheng Institute of Technology
Taiwan

Geometric exploration of nonlinear optimization in Measurement Environment (GENOME): Applications to GOES sounders
Huang, Bormin
University of Wisconsin-Madison

Retrieval of momentum flux properties associated with mesoscale winds
Jewett, Christopher
University of Alabama in Huntsville

Improvement of retrieval skill for the Advanced Microwave Sounding Unit/Microwave Humidity Sounder and the Advanced Technology Microwave Sounder by footprint matching
Kleespies, Thomas
NOAA/NESDIS

Application of time continuity on GOES sounding retrieval
Li, Zhenglong
University of Wisconsin-Madison

Satellite retrieval of ice and snow from high-frequency microwaves
Liu, Guosheng
Florida State University

Community radiative transfer model for satellite radiance simulation
Liu, Quanhua
J CSDA

Retrieval of cloud optical properties from infrared hyper-spectral measurements taken from multiple platforms
Maestri, Tiziano
University of Bologna

Improvements to the neural network retrieval of layer precipitable water including an IR SEVIRI local radiance-bias correction
Martínez, Miguel Angel
Institute of Meteorology, Portugal

Snowfall rate retrieval using AMSU/MHS passive microwave data
Meng, Huan
NOAA/NESDIS/STAR

Preparing for GOME-2 ozone profile retrievals: Improving the algorithm using GOME-1 data
Mijling, Bas
KNMI

Snowfall retrievals over land using high frequency microwave satellite data
Noh, Yoo-Jeong
Colorado State University-CIRA

LST from METEOSAT - retrieval – validation and application
Olesen, Folke
IMK - Forschungszentrum Karlsruhe

Motion estimation of 2D atmospheric layers with variational assimilation techniques
Papadakis, Nicolas
IRISA/INRIA
Multisensor Simulation and Retrieval of Cold-Cloud Precipitation Observed During the 2003 Wakasa Bay Field Experiment
Petty, Grant
University of Wisconsin-Madison

A method for the retrieval of aerosol type over land surfaces from MSG-SEVIRI data
Popp, Christoph
University of Bern

On the use of a SEVIRI based statistical rainfall classification technique calibrated with TRMM-PR over southern Mediterranean
Porcu, Federico
University of Ferrara

Estimating scatterometer wind speeds from a spatially varying wind field
Rodriguez, Ernesto
NASA/JPL

Towards an improved understanding of upper and middle tropospheric humidity
Schroeder, Marc
EUMETSAT

Prerequisites for humidity products with climate quality from infrared geostationary imaging
Schulz, Jörg
DWD

Development of land surface temperature retrieval algorithms from MTSAT-1R
Suh, Myoung-Seok
Kongju National University

Comparison of MSG dense atmospheric motion vector fields produced by different methods
Szantai, Andre
Laboratoire de Météorologie Dynamique

Gome Reflectance Degradation
Tilstra, L.G.
SRON

Sensor specific error statistics: A case study of the AVHRR-derived Adriatic SST
Tomazic, Igor
Rudjer Boskovic Institute, Croatia

Comparisons of retrieved rainfall from a constellation of passive microwave sensors
Turk, F. Joseph
Naval Research Laboratory

Land surface temperature and emissivity retrievals from SEVIRI/MSG data: Algorithm and validation
Uspensky, Serge
SRC Planeta

Analysis of the SST split-window equation by using the synergy of Meteosat Second Generation and NOAA polar satellites
Valiente, Jose Antonio
Fundacion CEAM

Validation of two algorithms for the retrieval of radiative flux densities with MSG-SEVIRI
Vazquez-Navarro, Margarita
DLR

Estimation of near-surface water vapour mixing ratio using MSG SEVIRI data
Velea, Liliana
CNR/ISAC

Precipitation retrieval over land from SSMIS
Wang, Nai-Yu
University of Maryland

Analysis of Special Sensor Microwave Imager and Sounder (SSMIS) calibration anomalies for lower atmospheric sounding channels
Yan, Banghua
QSS Group Inc

Improvements to night-time cloud detection and property retrievals with Meteosat-8
Yost, Chris
Science Systems and Applications, Inc.

The simulation of bright temperature at the top of the atmosphere using SOI Model
Zhou, Wei
University of Wisconsin-Madison
POSTERS DISPLAYED ALL WEEK  
MONDAY 24 – FRIDAY 28 SEPTEMBER  

Set-up as from Sunday 23 September. Dismantling Friday lunch time. 
Poster numbers will be assigned at a later stage.

**SESSION 5**  
Oceanography

- **Comparison of surface turbulent flux products**  
  Bourassa, Mark  
  Florida State University

- **Application of numerical diurnal warming models to the computation of bulk sea surface temperature from infrared satellite reference measurements**  
  Castro, Sandra  
  University of Colorado

- **Development of a global QC/QA processor for operational Metop AVHRR SST products**  
  Dash, Prasanjit  
  NOAA/NESDIS/STAR, Colorado State University/CIRA

- **Status of the OSI SAF Sea Ice products**  
  Eastwood, Steinar  
  Norwegian Meteorological Institute

- **Data assimilation of satellite data of Total Suspended matter in Delft3D-Delwaq for the North Sea**  
  El Serafy, Ghada  
  WL / Delft Hydraulics

- **Using SPM observations derived from MERIS reflectances in a data assimilation scheme for sediment transport in the Dutch coastal zone**  
  Eleveld, Marieke A.  
  VU-IVM

- **Assimilation of satellite derived sea ice data in the Labrador Sea**  
  Fenty, Ian  
  Massachusetts Institute of Technology

- **High resolution regional Level 4 interpolated SST fields**  
  Hoeyer, Jacob  
  DMI

- **Application of operational satellite altimetry observations for the North Sea and Baltic Sea**  
  Hoeyer, Jacob  
  DMI

- **Estimation of marine eutrophication levels based on Satellite Data**  
  Kitsiou, Dimitra  
  University of the Aegean

- **Multi-sensor satellite observations of the Adriatic Sea response to severe Bora winds**  
  Kuzmic, Milivoj  
  Rudjer Boskovic Institute

- **Mersea remote-sensing products and their use for operational oceanography**  
  Larnicol, Gilles  
 CLS

- **Wind field and sea state measured by synthetic aperture radar**  
  Lehner, Susanne  
  DLR

- **Assimilating altimeter sea surface height data into the FOAM operational ocean forecasting system.**  
  Martin, Matthew  
  Met Office

- **Short term variability of QuikScat wind fields and satellite-derived SST fronts: A statistical comparison**  
  Mavor, Timothy  
  NOAA/NESDIS

- **Extending the satellite altimeter Global mean sea level time series with GEOSAT observations**  
  Miller, Laury  
  NOAA

- **Wintertime SST and Chl-a off NW Iberian shelf from satellite and in-situ data**  
  Oliveira, Paulo  
  IPIMAR
Analysis of Synthetic Aperture Radar (SAR) images acquired in tropical cyclones
Reppucci, Antonio
DLR

Evaporation flux variability in the tropical Pacific from different satellite derived datasets
Romanou, Anastasia
Columbia University

Basic Radar Altimetry Toolbox and Tutorial
Rosmorduc, Vinca
CLS

Aviso Altimetry Products: Select your choice!
Rosmorduc, Vinca
CLS

Assessment of the role of atmospheric aerosols on the solar radiation of the Eastern Mediterranean from satellite and vessel data
Tragou, Elina
University of the Aegean

Data Assimilation of SSS with the Mercator operational system: Expected impact of the future SMOS and Aquarius SSS missions
Tranchant, Benoit
Mercator Ocean

Overview of OSI SAF and EARS scatterometer wind services at KNMI
Verhoef, Anton
KNMI

A coherent assimilation of absolute sea level from satellite and in-situ temperature in a model of the tropical Pacific ocean
Verron, Jacques
LEGI

Extending the use of satellite altimetry for coastal applications: The ALTICORE project
Vignudelli, Stefano
CNR