

POSTER PRESENTATION

POSTER PRESENTATION 1 Monday, January 25th – 17:35

Session 1: Instrument Availability, Performances, Monitoring **Chairpersons: Jonathan Taylor & Claude Camy Peyret**

Of chessboards and ghosts: Signatures of micro-vibrations from IASI monitoring in NWP?
A. McNally

IASI Technical Expertise Center
J. Chinaud

Assessing IASI radiance accuracy via a LEO/LEO intercalibration and a stand-alone validation approaches
NA. Scott

Radiometric and spectral validation of Infrared Atmospheric Sounding Interferometer (IASI) observations with the aircraft-based Scanning High-Resolution Interferometer Sounder
J. Taylor

Session 2: Data Handling: Processing, Compression, Distribution, Archiving **Chairpersons: Cathy Clerbaux & Dieter Klaes**

MIPAS-ENVISAT and IASI-METOP data fusion using the Measurement Space Solution method
M. Gai

Near-real time processing of IASI radiances for the monitoring of the atmospheric composition
J. Hadji-Lazaro

Development of a GPU-based High-Performance Radiative Transfer Model for the High-spectral Resolution Infrared Sounders
HLA. Huang

IASI Principal Component Compression (PCC) - first experiences.
T. Hultberg

EPS/Metop Data Processing and Applications
D. Klaes

A Web site for METOP Real-Time atmospheric fields visualisation for NowCasting applications. Poster and Desktop presentations.
T. Labrot

Evolution of IASI products and dissemination
F. Montagner

EARS-IASI Pilot Service: Description and Status
C. Ponsard

Synergy between IASI sounding and AVHRR imagery for the processing of IASI data in non-uniform scenes
P. Prunet

POSTER PRESENTATION 2
Tuesday, January 26th – 10:20

Session 3: Applications: Weather Forecasting (global or regional NWP)
Chaipersons: Vincent Guidard & Tony McNally

The vertical resolution of the information content of the IASI assimilation system
F. Hilton

Observation Impact of IASI on the US Navy's Atmospheric Analyses and Forecasts
B. Ruston

The sensitivity of the harmonie/norway forecasts to the IASI Data
R. Randriamampianina

Session 4: Applications: Cloud & Aerosol
Chaipersons: Lydie Lavanant & Peter Schlüssel

Aerosol and cloud remote sensing from high resolution infrared sounders. Application to IASI observations.
H. Herbin

Cloud top retrievals using the CO2 slicing method on IASI data
M. Ridal

Comparison of Observed and Simulated Infrared Hyper-Spectral Characteristics of Asian Dust
Bl. Lee

Session 7: Spectroscopy for IASI and Radiative Transfer Models for IASI
Chaipersons: Nicole Jacquinet & Larrabee Strow

4A/OP: A fast & accurate operational forward radiative transfer model
L. Chaumat

POSTER PRESENTATION 3
Tuesday, January 26th – 15:20

Session 6: Applications: Retrievals
Chaipersons: Carmine Serio & Peter Schlüssel

Information-centered representation of retrievals with limited degrees of freedom for signal: Application to methane from the Tropospheric Emission Spectrometer
S. Clough

ESA WACMOS IASI-SEVIRI merged water vapour product
K. Hungershofer

SOFRID : SOftware for Fast Retrievals of IASI Data
E. Le Flochmœn

Development of IASI Outgoing Longwave Radiation
HT. Lee

Temperature sounding from IASI using N₂O channels : theoretical study and validation with JAIVEx observations.
C. Pierangelo

Application of the Runge-Kutta method to the inversion of IASI spectra
M. Szopa

POSTER PRESENTATION 4
Wednesday, January 27th – 10:10

Session 5: Applications: Surface
Chaipersons: Cyril Crevoisier

Global land surface climatology data retrieved from IASI measurements
DK. Zhou

Session 9: Products Validation
Chaipersons: Fiona Hilton & Hank Revercomb

Validation of IASI-derived water vapour profiles using COPS data
T. Deleporte

Carbon monoxide distributions from the iasi/metop mission: evaluation with other space-borne sensors
M. George

Tropospheric ozone from IASI: comparison of different inversion algorithms and validation with ozone sondes
A. Griesfeller

IASI Level 2 water vapor profile comparisons with in situ measurements
R. Kivi

Examining the quality of IASI and AIRS temperature and moisture retrievals over East Asia using radiosonde observations and numerical model outputs
EH. Kwon

Measurements of water isotopologues from iasi and ground-based ftir at a subtropical site in the southern hemisphere
JL. Lacour

Comparison of MetOp IASI Cloud products for cloudy radiances assimilation Intercomparison exercise of Clouds characteristics from IASI
L. Lavanant

Validation of IASI with IASI-balloon during the Teresina campaign in June 2008
M. Pondrom

The CO₂ retrievals from IASI, AIRS and SCIAMACHY data and their validation by in situ measurements
S. Romanov

High variable humidity profiles in troposphere - a challenge in observation and validation
No title
B. Stiller

POSTER PRESENTATION 5
Wednesday, January 27th – 12:05

Session 10: Next FTIR Atmospheric Sounders
Chairpersons: Jonathan Taylor & Claude Camy Peyret

Advanced sounder spectral resolution impact on remote sensing system information content
A. Larar

Simulation of MTG Infrared Sounder spectra in strong air pollution conditions and use of space and time variability of the signal to monitor pollution events
P. Prunet

Expected Accuracy of the Cross-track Infrared Sounder (CrIS) for the US NPOESS
H. Revercomb

Session 8: Applications: Trace Gas
Chairpersons: Pierre Coheur & David Edwards

Sensitivity of IASI measurements to boundary layer pollution: theoretical analyses and case studies from IASI operation
PF. Coheur

Methane and methanol measurements from the IASI sounder
A. Razavi

Mid- to lower-tropospheric global measurements of CO₂ with AIRS and IASI
L. Strow

Channel selection for trace gas detection
J. Walker

IASI thermal infrared ozone profile retrieval using a regularization method
A. Wassmann

Retrieval of ozone profiles from Metop
A. Waterfall

HNO₃ global distributions from IASI/MetOP and preliminary tropospheric column distributions over Africa and tropical Atlantic
C. Wespes