IASI 2010

Monday JANUARY 25

REGISTRATION

12:30	**LUNCH BUFFET**
14:00	**OPENING SESSION:** **CNES: Philippe GOUDY** **EUMETSAT: Marc COHEN** **ORGANISATION**
Session 1: Instrument Availability, Performances, Monitoring ***Chairpersons: Jonathan Taylor & Claude Camy Peyret***	
14:45	The EPS/Metop System *M. Cohen*
15:05	Status of IASI instruments : FM2 after 3 years in orbit, PFM-R and FM3 on ground *L. Buffet*
15:25	IASI performances *E. Pequignot*
15:50	**COFFEE BREAK**
Session 1: Instrument Availability, Performances, Monitoring ***Chairpersons: Jonathan Taylor & Claude Camy Peyret***	
16:20	IASI L0/L1 NRT Monitoring at EUMETSAT: Results from 2.5 years of Operations *L. Fiedler*
16:40	Radiometric Intercomparisons of AIRS and IASI for Climate Monitoring Applications *L. Strow*
17:00	Evaluation of IASI and airs spectral radiances using simultaneous nadir Overpasses *D. Tobin*
17:20	Demonstration of the radiometric accuracy of IASI for climate monitoring using coincident data from the Advanced Along-Track Scanning Radiometer. *J. Remedios*
17:40	**POSTER PRESENTATION 1**
18:30	**ICE BREAKER & DINNER AT HOTEL**

Tuesday JANUARY 26

Session 2: Data Handling: Processing, Compression, Distribution, Archiving **Chaipersons: Cathy Clerbaux & Dieter Klaes**	
08:30	Evaluating scene in-homogeneity effects on the IASI instrument line shape *A. Gambacorta*
08:50	Principal Component Compression of IASI data: impact on the exploitation of trace gases information for atmospheric chemistry *P. Prunet*
Session 3: Applications: Weather Forecasting (global or regional NWP) **Chaipersons: Vincent Guidard &Tony McNally**	
09:10	An overview of the assimilation of IASI radiances at operational NWP centres *F. Hilton*
09:40	Toward a better assimilation of IASI data over polar area, in the framework of the Concordiasi campaign. *A. Bouchard*
10:00	Assimilation of IASI Data into the Regional NWP Model COSMO-EU: Setup and Results *M. Schwaerz*
10:20	**POSTER PRESENTATION 2**
10:45	**COFFEE BREAK**
Session 3: Applications: Weather Forecasting (global or regional NWP) **Chaipersons: Vincent Guidard &Tony McNally**	
11:10	Impact of IASI assimilation in convective scale model AROME *V. Guidard*
11:35	Improved assimilation of IASI radiances at the UK Met Office *E. Pavelin*
11:55	Assimilation of IASI cloudy radiances in global numerical weather prediction model. *N. Fourrie*
12:15	The direct assimilation of cloud affected IASI radiances *A. McNally*
12:35	**LUNCH**
Session 4: Applications: Cloud and Aerosol **Chairpersons: Lydie Lavanant & Peter Schlüssel**	
14:00	Sounding of aerosols with IASI - observations, retrievals and open questions *L. Clarisse*
14:20	Processing of IASI cloudy heterogeneous scenes using the AVHRR radiances analysis in an operational context. *F. Faijan*
14:40	Remote Sensing of Mineral Dust with IASI *L. Klueser*
15:00	**POSTER PRESENTATION 3**
15:20	**COFFEE BREAK**
Session 4: Applications: Cloud and Aerosol **Chairpersons: Lydie Lavanant & Peter Schlüssel**	
15:50	Dust aerosol optical depth and altitude retrieved from hyperspectral infrared observations (AIRS to IASI) and comparison with other aerosol datasets (MODIS, CALIOP, PARASOL) *S. Peyridieu*
16:10	Global Cloud Climatologies from satellite-based InfraRed Sounders (TOVS, AIRS and IASI) *C. Stubenrauch*
Session 5: Applications: Surface **Chairpersons: Cyril Crevoisier**	
16:30	Infrared continental surface emissivity spectra and skin temperature retrieved from IASI observations *V. Capelle*
16:50	Influence of emissivity and temperature inversion on the IASI products *T. Phulpin*
17:10	**POSTER SESSION**
20:00	**DINNER AT THE HOTEL**

Wednesday JANUARY 27

Session 6: Applications: Retrievals **Chairpersons: Carmine Serio & Peter Schlüssel**	
08:30	Physically based retrievals obtained from IASI observations collected during the JAIVEx field experiments *P. Antonelli*
08:50	Towards a better retrieval of fine water vapour atmospheric structures using IASI data. *L. Lavanant*
09:10	Intercomparison of two different statistical approaches to the initialization of the physical inversion of IASI radiances for temperature, water vapour and ozone. *G. Masiello*
09:30	A Dual-Regression Hyperspectral Atmospheric Sounding Algorithm *W. Smith*
09:50	Application of a 1d-var retrieval scheme on IASI data gathered during JAIVEX *J. Taylor*
10:10	**POSTER PRESENTATION 4**
10:35	**COFFEE BREAK**
Session 7: Spectroscopy for IASI and Radiative Transfer Models for IASI **Chairpersons: Nicole Jacquinet & Larrabee Strow**	
11:05	Validation of radiative transfer models in the highly absorbing water vapour band for hyperspectral infrared sounders *X. Calbet*
11:25	The Forward Model for IASI: Spectroscopic Issues *S.Clough*
11:45	The GEISA/IASI Spectroscopic Database: Description, Evaluation, Evolution *N. Jacquinet*
12:05	**POSTER PRESENTATION 5**
12:45	**LUNCH**
14:15	**GUIDED TOUR OF ANNECY**
16:45	**COFFEE BREAK**
Session 7: Spectroscopy for IASI and Radiative Transfer Models for IASI **Chairpersons: Nicole Jacquinet & Larrabee Strow**	
17:15	Radiative Transfer Model Under Cloudy Sky Conditions *X. Liu*
17:35	A Principal Component Based Version of the RTTOV fast Radiative Tranfer Model *M. Matricardi*
17:55	Quantitative spectroscopy of several tropospheric or stratospheric molecules: recent updates performed in the GEISA database *A. Perrin*
18:15	**POSTER SESSION**
19:45	**COCKTAIL AT THE HOTEL**
21:00	**DINNER AT THE HOTEL**

Thursday JANUARY 28

Session 8: Applications: Trace Gas **Chairpersons: Pierre Coheur / David Edwards**	
08:30	Trace gas retrievals in the operational IASI L2 product processor *T. August*
08:50	Retrievals of ozone profiles from IASI: latest results and validation with MOZAIC and sonde data *B. Barret*
09:10	Global to local observations of atmospheric ammonia with IASI *PF. Coheur*
09:30	First results of the assimilation of ozone tropospheric columns provided by the IASI instrument to assess air quality with a chemical transport model - CHIMERE at a continental scale *A. Coman*
09:50	Carbon dioxide retrieval from IASI measurements using the KLIMA inversion algorithm *M. Gai*
10:10	CO2 and CH4 in the tropics: 2,5 years from METOP/IASI *C. Crevoisier*
10:30	IASI measurements of tropospheric ozone over megacities *G. Dufour*
10:50	**COFFEE BREAK**
Session 8: Applications: Trace Gas **Chairpersons: Pierre Coheur / David Edwards**	
11:10	Using IASI Retrieved CO Measurements to Characterise CO Emissions from Local African Fires *S. Illingworth*
11:30	First global observation of formic acid from the IASI infrared sounder *A. Razavi*
11:50	Global and local ozone measurements from the thermal infrared IASI sounder for the monitoring of atmospheric composition *C. Scannell*
12:10	Using IASI trace gas retrievals to analyze the impact of fire emissions on air quality *S. Turquety*
12:30	**LUNCH**
Session 9: Products Validation **Chairpersons: Fiona Hilton & Hank Revercomb**	
14:00	An examination of the impact of a priori constraint assumptions on the retrieval of carbon monoxide from IASI and MOPITT *D. Edwards*
14:20	Validation of HNO3, CO and CH4 column amounts from IASI using ground-based FTIR data *T. Kerzenmacher*
14:40	An Assessment of the Absolute Accuracy of IASI Retrieved Precipitable Water Vapor at Tropical, Mid-Latitude, and Arctic Ground-Truth Sites *H. Revercomb*
15:00	Validation of IASI ozone columns using data assimilation *S. Massart*
15:20	**COFFEE BREAK**
Session 9: Products Validation **Chairpersons: Fiona Hilton & Hank Revercomb**	
15:40	IASI carbon monoxide validation over the Arctic *M. Pommier*
16:00	Information content and error assessment for IASI and AIRS temperature and water vapor retrievals *N. Pougatchev*
17h30	**CONFERENCE EVENING**

Friday JANUARY 29

Session 10: Nexr FTIR Atmospheric Sounders ***Chairpersons: Jonathan Taylor & Claude Camy Peyret***	
09:00	What's next after IASI? : IASI-new generation onboard postEPS *C. Clerbaux*
09:20	Studies on IASI Follow-on at CNES : IASI Next Generation *T. Maciaszeck*
09:40	Towards a consolidated L2 processor for MTG-IRS *S. Tjemkes*
10:00	Advenced developments for infrared sounding applications *D. Simeoni*
10:20	**COFFEE BREAK**
10:50	**SESSION SUMMARY**
12:20	**CLOSING SESSION: Thierry PHULPIN**
12:30	**LUNCH BUFFET**