



IASI 2020



14 YEARS AND 3 IASI IN SPACE, PREPARING THE NEXT GENERATION:
ADVANCES AND EXPECTATIONS IN THE WEATHER, CLIMATE AND ATMOSPHERIC SCIENCES

16-20 NOVEMBER EVIAN, FRANCE

IASI 2020 Preliminary Programme

Monday 16 November

| | | | |
|-------|--|---|--|
| 11:00 | Welcome coffee & registration | | |
| 13:30 | Opening session | | Adrien Deschamps (CNES), Thomas August (EUMETSAT) |
| 14:00 | Programmatic overviews The EPS/Metop and EPS-SG/Metop-SG Systems | | Dieter Klaes and Peter Schlüssel (EUMETSAT) |
| 14:30 | IASI: a key element in the CNES Earth Observation Program | | Selma Cherchali (CNES) |
| | Session 1 : IASI mission & services | Chairpersons : Pierre Coheur, Cyril Crevoisier | |
| 15:00 | Performances status and evolutions of the 3 in-flight IASI instruments | | Laura Le Barbier (CNES) / Laurence Buffet (CNES) |
| 15:30 | Operational IASI L2 products at EUMETSAT: status and user studies | | Thomas August (EUMETSAT) |
| 15:50 | Introduction Posters 48, 50, 52, 53, 54, 55, 56, 133 | | |
| 16:05 | Coffee break | | |
| | Session 2: Climate | Chairpersons Reima Eresmaa, Nadia Fourrie | |
| 16:40 | Monthly means of IASI L1C spectra: use for comparing the radiometry of the 3 IASI sounders and for climate studies | | CAMY-PEYRET Claude (IPSL) |
| 17:00 | Retrieval of Earth Outgoing Longwave Radiation and atmospheric heating rates with IASI | | TELLIER Yoann (CNRS/IPSL) |
| 17:20 | Spectrally resolved OLR from IASI measurements | | WHITBURN Simon (ULB) |
| 17:40 | Study of atmospheric temperatures from the thermal infrared sounder IASI | | BOUILLON Marie (LATMOS) |
| 18:00 | Introduction Posters 18, 22 | | |
| 18:05 | Poster viewing | | |
| 19:00 | Welcome cocktail | | |

14 YEARS AND 3 IASI IN SPACE, PREPARING THE NEXT GENERATION:
ADVANCES AND EXPECTATIONS IN THE WEATHER, CLIMATE AND ATMOSPHERIC SCIENCES

16-20 NOVEMBER EVIAN, FRANCE

Tuesday 17 November

Illustration: CNES - 2020-165

| | | | |
|-------|--|---|---|
| | Session 3: Retrieval techniques | Chairpersons: Carmine Serio, Thomas August | |
| 8:45 | Improved IASI Ozone retrievals with a tropopause dependent a priori | | BARRET Brice (Laboratoire d'Aréologie/CNRS-Université de Toulouse) |
| 9:05 | Investigating tropospheric moisture pathways with MUSICA IASI water isotopologue data | | DIEKMANN Christopher (KIT) |
| 9:25 | Global distribution of lowermost tropospheric ozone pollution derived from multispectral synergism of IASI and GOME-2 satellite measurements | | CUESTA Juan (LISA – CNRS/UPEC/UP) |
| 9:45 | IASI gridded L3 products: an application to air quality | | DE FEIS Italia (Istituto per le Applicazioni del Calcolo "M. Picone" CNR) |
| 10:05 | Introduction Posters 107, 108, 109, 110, 112, 115, 117, 118, 119, 120, 121 | | |
| 10:20 | Coffee break | | |
| | Session 4: L1 Calibration and intercomparison | Chairpersons: Raymond Armante, Dave Tobin | |
| 10:50 | KEYNOTE: Intercalibrating hyperspectral missions | | TOBIN Dave (SSEC, University of Wisconsin-Madison) |
| 11:20 | How well do HIRAS and GHIRS compare to IASI? A preliminary look at China's hyperspectral IR products | | COPPENS Dorothee (EUMETSAT) |
| 11:40 | Potential of the Moon as a calibration target for IASI instruments | | SIC Bojan (NOVELTIS) |
| 12:00 | An On-orbit, High-Accuracy Standard for Reducing Climate Trend Detection Times | | REVERCOMB Henry (University of Wisconsin-Madison) |
| 12:20 | Introduction Posters 68, 69, 70, 72, 73, 134 | | |
| 12:35 | Lunch break | | |
| | Session 5: Environmental monitoring | Chairpersons: Cyril Crevoisier | |
| 14:00 | IASI observations at the city scale | | CLERBAUX cathy (LATMOS/IPSL/CNRS) |
| 14:20 | Impact of the Precursors Emissions Reductions on the Recent Evolution of Pollutants in China | | DUFOUR Gaëlle (LISA/CNRS) |
| 14:40 | Role of atmospheric ammonia on PM formation in Toronto, Mexico and Paris megacities | | VIATTE Camille (LATMOS) |
| 15:00 | Evaluation of emissions and long-range transport from wildfires using IASI observations | | TURQUETY Solene (Sorbonne/ LMD/IPSL) |
| 15:20 | Introduction Posters 37, 39, 41, 45 | | |
| 15:35 | Poster session | | |
| 16:30 | Coffee break | | |
| 17:00 | Principal Component Analysis of IASI measurements for the detection of extreme events | | PRUNET Pascal (SPASCIA) |
| 17:20 | Measurements of HCl in the volcanic plumes of Calbuco (2015) and Raikoke (2019) | | CLARISSE Lieven (ULB/SQUARES) |
| 17:40 | First Space Detection of Anthropogenic Point Sources of Ethylene (C ₂ H ₄) | | FRANCO Bruno (ULB/SQUARES) |
| 18:00 | Adjourn | | |

14 YEARS AND 3 IASI IN SPACE, PREPARING THE NEXT GENERATION:
ADVANCES AND EXPECTATIONS IN THE WEATHER, CLIMATE AND ATMOSPHERIC SCIENCES

16-20 NOVEMBER EVIAN, FRANCE

Wednesday 18 November

| | | | |
|-------|--|--|---|
| | Session 6: NWP | Chairpersons: Vincent Guidard, Robin Faulwetter | |
| 8:45 | KEYNOTE: IASI impact in NWP | | SMITH Fiona (Australian Bureau of Meteorology) |
| 9:15 | Impact of IASI data assimilation on the weather analyses and forecasts | | FOURRIE Nadia (CNRM/Météo France and CNRS) |
| 9:35 | The use of variable O3 in the 4D-Var to improve IASI assimilation in ARPEGE NWP model | | COOPMANN Olivier (CNRM, Université de Toulouse, Météo France, CNRS) |
| 9:55 | Assimilation of Reconstructed Radiances from PC compressed Hyperspectral Sounder IASI data in the ICON EnVar | | MAY Silke (DWD) |
| 10:15 | Coffee break | | |
| 10:45 | Impact of IKFS-2 and IASI data in the data assimilation system of the Hydrometcentre of Russia | | USPENSKY Alexander (State Research Center Planeta) |
| 11:05 | Advances in the operational use of IASI at ECMWF | | ERESMAA Reima (ECMWF) |
| 11:25 | Session 7: Spectro & RTM | Chairpersons: Claude Camy-Peyret, Jerome Vidot | |
| 11:40 | Evaluation of the spectroscopic parameters with remote sensing data: Example of the new release of GEISA-2019 | | ARMANTE Raymond (LMD/IPSL/CNRS) |
| 12:00 | New Developments in PCRTM Fast Radiative Transfer Model and Its Applications | | LIU Xu (NASA Langley Research Center) |
| 12:20 | Introduction Posters 122, 123, 125, 126, 128 | | |
| 12:35 | Lunch break | | |
| | Session 8 : Regional and nowcasting applications | Chairpersons: Chawn Harlow, Guido Masiello | |
| 14:00 | IASI Real-Time Processing and Applications in Community Satellite Processing Package (CSPP) | | HUANG Allen (SSEC/CIMSS, University of Wisconsin Madison) |
| 14:20 | Introduction Posters 103, 104, 105 | | |
| | Session 9 : L2 validation, techniques and campaigns | Chairpersons: Chawn Harlow, Guido Masiello | |
| 14:35 | The results of the Metop-C IASI Level 2 Commissioning | | CRAPEAU Marc (EUMETSAT) |
| 14:55 | Characterizing atmospheric vertical distributions of thermodynamic variables and trace gases with combined ground-based and airborne measurements to validate space missions: the MAGIC initiative | | CREVOISIER Cyril (LMD/CNRS) |
| 15:15 | Introduction Posters 76, 77, 78, 79, 82, 83, 85, 87 | | |
| 15:30 | Poster session | | |
| 16:30 | Coffee break | | |
| 17:00 | Meteorological lidar- and IASI-derived vertical atmospheric profiles of temperature and water vapor | | CHAZETTE Patrick (LSCE) |
| 17:20 | On the Use of Routine Airborne Observations for Evaluating IASI Profile Retrievals | | WAGNER Timothy (SSEC/ University of Wisconsin Madison) |
| 17:40 | Ground-based measurements from CHRIS for the validation of satellite observations: Application to IASI | | EL KATTAR Marie-Thérèse (Université de Lille) |
| 18:00 | Adjourn - Validation working group | | |

14 YEARS AND 3 IASI IN SPACE, PREPARING THE NEXT GENERATION:
ADVANCES AND EXPECTATIONS IN THE WEATHER, CLIMATE AND ATMOSPHERIC SCIENCES

16-20 NOVEMBER EVIAN, FRANCE

Thursday 19 November

| | | | |
|-------|---|---|--|
| | Session 10: IASI-NG | Chairpersons: Nadia Fourrie, Laura Le Barbier | |
| 8:45 | IASI-NG Program: General Status Overview | | BERMUDO Francisco (CNES) |
| 9:05 | IASI-NG L1 processing : new algorithms to calibrate a new instrument | | LUITOT Clement (CNES) |
| 9:25 | Evaluation of a first IASI-NG channel selection for Numerical Weather Prediction | | VITTORIOSO Francesca (CNRM, Météo France & CNRS) |
| 9:45 | MUSICA IASI products and opportunities of Metop-SG | | SCHNEIDER Matthias (Karlsruhe Institute of Technology) |
| 10:05 | Introduction Posters 59, 60 | | |
| 10:10 | Introduction Posters "Clouds and aerosols" and "Surface properties": 25, 26, 27, 29, 31, 32, 33, 34, 35 and 129 | | |
| 10:25 | Coffee break | | |
| | Session 11: Atmospheric composition | Chairpersons: Cathy Clerbaux, Pierre Coheur | |
| 10:55 | Keynote: (TBC) | | TBC |
| 11:25 | Comparison between the assimilation of IASI Level 2 ozone retrievals and Level 1 radiances in a chemical transport model | | EMILI Emanuele (CERFACS) |
| 11:45 | Antarctic ozone enhancement during the 2019 sudden stratospheric warming event | | SAFIEDDINE Sarah (CNRS/LATMOS) |
| 12:05 | Spatio-temporal variability of the three major anthropogenic greenhouse gases CO ₂ , CH ₄ and N ₂ O as seen from IASI onboard three successive Metop platforms | | MEILHAC Nicolas (LMD/CNRS) |
| 12:25 | Introduction Posters 3, 6, 7, 11, 12, 13, 14, 16, 17 | | |
| 12:40 | Lunch break | | |
| 14:00 | Two decades of MOPITT carbon monoxide measurements: Comparison with IASI and other satellite sensors | | EDWARDS David (NCAR) |
| 14:20 | Global N ₂ O retrievals from IASI: First results and comparison with reference observations | | VANDEBUSSCHE Sophie (Royal Belgian Institute for Space Aeronomy) |
| 14:40 | Satellite monitoring of ammonia: from point sources to long-term trends | | VAN DAMME Martin (ULB) |
| 15:00 | Session 12: Other instruments | Chairpersons: Dorothee Coppens, Adrien Deschamps | |
| 15:15 | An assessment of the quality of the GIIRS instrument using ECMWF model fields | | BURROWS Chris (ECMWF) |
| 15:35 | Meteosat Third Generation Infrared Sounder (MTG-IRS): Bringing technology to a higher altitude | | MIRAS Didier (THALES ALENIA SPACE) |
| 15:55 | FORUM EE9 Mission: Level 2 Products and Synergies With IASI-NG | | RIDOLFI Marco (University of Bologna) |
| 16:15 | Intro posters "Other instruments": 93, 95, 96, 97, 98, 99, 100 | | |
| 16:30 | Poster session & Coffee break | | |
| 18:00 | Adjourn | | |
| 19:00 | Conference dinner | | |



IASI 2020



14 YEARS AND 3 IASI IN SPACE, PREPARING THE NEXT GENERATION:
ADVANCES AND EXPECTATIONS IN THE WEATHER, CLIMATE AND ATMOSPHERIC SCIENCES

16-20 NOVEMBER EVIAN, FRANCE

Friday 20 November

| | | | |
|-------|---|---|--|
| | Session 13: Clouds and aerosols | Chairpersons : Laurent Labonnote, Claude Camy-Peyret | |
| 9:30 | Validation and operational monitoring of cloud products derived from IASI measurements. | | STAPELBERG Stefan (EUMETSAT) |
| 9:50 | Building a 3D view of Upper Tropospheric cloud systems from synergistic satellite observations for a better understanding of the relation between anvil properties and convection | | STUBENRAUCH Claudia (LMD) |
| 10:10 | IASI cloud mask comparison between global broadcast and local processing | | ASSERAY Mathieu (Météo France CNRM/CEMS/SONDAGE) |
| 10:30 | Ice cloud properties retrieval from high spectral resolution measurements in the thermal infrared: Application to IASI and IASI-NG | | LEONARSKI Lucie (University of Lille – LOA) |
| 10:50 | Coffee break | | |
| | Session 14: Surface properties | Chairpersons: Raymond Armante, Jerome Vidot | |
| 11:20 | IASI-derived sea surface temperature dataset for climate studies | | PARRACHO Ana Claudia (LATMOS/IPSL) |
| 11:40 | Stand alone night-time sea surface temperature retrieved by the IASI/Metop suite: Toward long time series | | CAPELLE virginie (LMD/Ecole polytechnique) |
| 12:00 | IASI emissivity based vegetation and soil water stress indices to monitor natural and agricultural ecosystems | | MASIELLO Guido (University of Basilicata) |
| 12:20 | Closing session | | |
| 12:45 | End | | |



IASI 2020



14 YEARS AND 3 IASI IN SPACE, PREPARING THE NEXT GENERATION:
ADVANCES AND EXPECTATIONS IN THE WEATHER, CLIMATE AND ATMOSPHERIC SCIENCES

16-20 NOVEMBER EVIAN, FRANCE

POSTERS INDEX

SESSION 1: IASI MISSION

S1- 48 - AERIS: data and services for Atmosphere

BRISSEBRAT Guillaume, AERIS CNRS

S1- 50 - How to maintain IASI products quality over time ?

BUFFET Laurence, CNES

S1- 52 - IASI L1 reprocessing status and plans at EUMETSAT

VASQUEZ Mayte, EUMETSAT

S1- 53 - Climate data record of IASI temperature and humidity from Metop-A and -B

HUCKLE Roger, EUMETSAT

S1- 54 - A new TIGR dataset for statistical studies of the atmosphere

PERNIN Jérôme, Laboratoire de Météorologie Dynamique

S1- 55 - The IASI/AERIS portal: dissemination of atmospheric data in open access

BOYNARD Anne, LATMOS/IPSL

S1- 56 - OPS-LRS, a software for DB users to process IASI

ROQUET Pascale, Météo-France - CNRS, CNRM UMR3589

S1- 133 - EUMETSAT activities for IASI-C commissioning

GUEDJ Stéphanie, EUMETSAT



IASI 2020



14 YEARS AND 3 IASI IN SPACE, PREPARING THE NEXT GENERATION:
ADVANCES AND EXPECTATIONS IN THE WEATHER, CLIMATE AND ATMOSPHERIC SCIENCES

16-20 NOVEMBER EVIAN, FRANCE

SESSION 2: CLIMATE

S2- 18 - Validation of a 2007-2018 homogeneous reprocessed dataset of temperature and humidity profiles derived from IASI-A and IASI-B measurements with IGRA-v2 radiosonde data

STAPELBERG Stefan, EUMETSAT

S2- 22 - Long time series of essential climate variables from 3 successive Metop/IASI

CREVOISIER Cyril, LMD/CNRS

SESSION 3: RETRIEVAL TECHNIQUES

S3- 107- N2O retrieval with conjugate gradient least squares

HULTBERG Tim Helge, EUMETSAT

S3- 108 - AOEI, an Adaptive Optimal Estimation for IASI

AUGUST Thomas, EUMETSAT

S3- 109 - Data Fusion of IASI and GOME-2 measurements

ZOPPETTI Nicola, IFAC-CNR

S3- 110 - IASI instrument noise covariance matrix

CAMY-PEYRET Claude, IPSL (Institut Pierre-Simon Laplace)

S3- 112 - Overview on the MUSICA retrieval and product quality

SCHNEIDER Matthias, Karlsruhe Institute of Technology

S3- 115 - Tropospheric ozone retrieval from thermal infrared nadir satellite measurements using a self-adapting regularization.

EREMENKO Maxim, Laboratoire Interuniversitaire des Systèmes Atmosphériques, CNRS/UPEC/UPD/IPSL



IASI 2020



14 YEARS AND 3 IASI IN SPACE, PREPARING THE NEXT GENERATION:
ADVANCES AND EXPECTATIONS IN THE WEATHER, CLIMATE AND ATMOSPHERIC SCIENCES

16-20 NOVEMBER EVIAN, FRANCE

S3- 117 - Uncertainty estimation via Neural Networks

DURAN GOMEZ Nuria, Magellium

S3- 118 - Development of the University of Leicester IASI retrieval scheme to measure volatile organic compounds

MOORE David, National Centre for Earth Observation

S3- 119 - A novel method to retrieve CH₄ mixing ratio profile from IASI and comparison with in situ data from the Mauna Loa validation station

SERIO Carmine, Scuola di Ingegneria Università della Basilicata

S3- 120 - Sensitivity study of CH₄ retrievals in the TIR

ROBERT Charles, The Royal Belgian Institute for Space Aeronomy (BIRA-IASB)

S3- 121 - Elevated Moist Layers - Retrieving Complex Humidity Structures with IASI

PRANGE Marc, Universität Hamburg

SESSION 4: L1 CALIBRATION AND INTERCOMPARISON

S4- 68 - IASI Commissioning phase and lifetime: Quality Control of IASI level1 data and reference / auxiliary datasets

SCOTT Noelle, LMD/IPSL/CNRS

S4- 69 - Inter-comparisons between IASI on-board METOP-C with other infrared sounders

VINCENSINI Anaïs, Magellium

S4- 70 - Radiometric inter-comparisons: cross calibration between IASI/AVHRR/IIS on-board METOP-C and massive averaging using IASI (A, B and C) Level 1C data

ENACHE Silvia, Magellium Toulouse

S4- 72 - Hyperspectral Intercalibration: Theory and Results

TOBIN David, Space Science and Engineering Center



IASI 2020



14 YEARS AND 3 IASI IN SPACE, PREPARING THE NEXT GENERATION:
ADVANCES AND EXPECTATIONS IN THE WEATHER, CLIMATE AND ATMOSPHERIC SCIENCES

16-20 NOVEMBER EVIAN, FRANCE

S4- 73 - Recent Calibration Validation of IASI with the High-Altitude Airborne Scanning High-resolution Interferometer Sounder (S-HIS)

TAYLOR Joe, Space Science and Engineering Center, University of Wisconsin-Madison

S4- 134 - Three IASIs operating in the same time: L1c products inter-comparison

GUEDJ Stéphanie, EUMETSAT

SESSION 5: ENVIRONMENTAL MONITORING

S5- 37 - Daily evolution and photochemical production of lowermost tropospheric ozone during transport from multispectral satellite and in situ observations

OKAMOTO Sachiko, Laboratoire Interuniversitaire des Systèmes Atmosphérique

S5- 39 - Ammonia-biosphere interaction from IASI and ERA5

ABEED Rimal, LATMOS

S5- 41 - Detection of extreme events with IASI observations

VUVAN Adrien, LATMOS/SPASCIA

S5- 45 - Fire plume heights estimated from IASI-derived trace gas abundances

LECOMTE Gilles, Université Libre de Bruxelles (ULB)



IASI 2020



14 YEARS AND 3 IASI IN SPACE, PREPARING THE NEXT GENERATION:
ADVANCES AND EXPECTATIONS IN THE WEATHER, CLIMATE AND ATMOSPHERIC SCIENCES

16-20 NOVEMBER EVIAN, FRANCE

SESSION 7: SPECTRO & RTM

S7- 122 - Improved cloud scattering parameterization for Mid and Far-IR in RTTOV

VIDOT Jerome, CNRM Meteo-France/CNRS

S7- 123 - Sensitivities of computed radiance spectra to spectroscopic parameters

CHAILLEUX Johann, LMD

S7- 125 - Status of the new GEISA-2019 release

ARMANTE RAYMOND, LMD/IPSL/CNRS

S7- 126 - The 4A/OP radiative transfer model: new developments and validation results within the frame of international space missions like IASI

ARMANTE RAYMOND, LMD/IPSL/CNRS

S7- 128 - An update for Methane line-mixing spectroscopic parameters and its importance for IASI retrievals

ERWIN Justin, Royal Belgian Institute for Space Aeronomie (BIRA-IASB)

SESSION 8: REGIONAL AND NOWCASTING APPLICATIONS

S8- 103 - Fusion of Hyperspectral IR Sounding with Surface Observations: Application to Nowcasting of Atmospheric Instability

MAIER Jessica, CIMSS

S8- 104 - Evaluating the use of temperature and humidity profiles from the IASI hyperspectral sounder for severe storm forecasting at ESSL

GROENEMEIJER Pieter, European Severe Storms Laboratory - Science & Training

S8- 105 - Storm Environment Studies with IASI L2 Data

KOCSIS Zsofia, Hungarian Meteorological Service



IASI 2020



14 YEARS AND 3 IASI IN SPACE, PREPARING THE NEXT GENERATION:
ADVANCES AND EXPECTATIONS IN THE WEATHER, CLIMATE AND ATMOSPHERIC SCIENCES

16-20 NOVEMBER EVIAN, FRANCE

SESSION 9: L2 VALIDATION, TECHNIQUES AND CAMPAIGNS

S9- 76 - Comparison of thermal infrared measurements of CO2 from GOSAT/GOSAT2 and IASI over the Arctic Ocean

PAYAN Sébastien, LATMOS / Sorbonne Université & CNRS

S9- 77 - Intercomparison between the three French IASI ozone products (IASIFORLI, IASI-KOPRA and IASI-SOFRID)

BOYNARD Anne, LATMOS/IPSL

S9- 78 - CADDIWA: Aerosol-radiation-cloud interactions in the tropics investigated by synergism of an airborne campaign and multi-mission satellite observations

FLAMANT Cyrille, LATMOS/IPSL, CNRS

S9- 79 - Evaluation of IASI Level2 data with in-situ data acquired during the MAGIC campaigns

GUEDJ-VIDALENC Axel, LMD

S9- 82 - NAST-I Single Field of View Retrievals: A PCRTM Optimal Estimation Algorithm Used During the FIREX-AQ Campaign

GROENEMEIJER Pieter, European Severe JANG Hyun-sung, NASA LaRC / USRA

S9- 83 - Intercomparison between the LMD and RAL IASI CH4 products

DILS Bart, Royal Belgian Institute for Space Aeronomy (BIRA-IASB)

S9- 85 - Validation of weighted columns of CH4 and CO2 retrieved from space observations with balloon-borne AirCore

CHAUMAT Laure, Thales

S9- 87 - Validation of IASI-NH3 measurements

VAN DAMME Martin, Université libre de Bruxelles (ULB)



IASI 2020



14 YEARS AND 3 IASI IN SPACE, PREPARING THE NEXT GENERATION:
ADVANCES AND EXPECTATIONS IN THE WEATHER, CLIMATE AND ATMOSPHERIC SCIENCES

16-20 NOVEMBER EVIAN, FRANCE

SESSION 10: IASI-NG

S10- 59 - IASI-NG instrument development and performance status after CDR

BALDIT Elisa, CNES

S10- 60 - IASI-NG : System performance budget and verification strategy

JURADO Eric, CNES

SESSION 11: ATMOSPHERIC COMPOSITION

S11-3 - IASI radiance assimilation for ozone: estimation and impact of inter-channel error correlations in the chemistry model MOCAGE

EL AABARIBAOUNE MOHAMMAD, CERFACS

S11- 6 - A Diurnal evolution of atmospheric ammonia over the Paris megacity analysed by ground based and satellite remote sensing

KUTZNER Rebecca, Laboratoire Interuniversitaire des Systèmes Atmosphériques (LISA)

S11- 7 - 12 years of IASI CO retrievals

GEORGE Maya, LATMOS/IPSL

S11- 11 - Detecting and assessing trends of CFCs and substitutes from IASI measurements

DE LONGUEVILLE Hélène, Spectroscopy, Quantum Chemistry and Atmospheric Remote Sensing (SQUARES) - Université libre de Bruxelles (ULB)

S11- 12 - Deployment of Operational IASI Atmospheric Composition Products within the AC SAF

ASTORECA Rosa, Université Libre de Bruxelles

S11- 13 - Evaluation of the Polar Stratospheric Denitrification from the First IASI HNO₃ Decal Record (2008-2017)

WESPES Catherine, Université Libre de Bruxelles (ULB)

S11-14 - Evaluation of the Stratospheric O₃ Recovery and of its Radiative Effect from the 12-years IASI Record (2008-2019)

WESPES Catherine, Université Libre de Bruxelles (ULB)



IASI 2020



14 YEARS AND 3 IASI IN SPACE, PREPARING THE NEXT GENERATION:
ADVANCES AND EXPECTATIONS IN THE WEATHER, CLIMATE AND ATMOSPHERIC SCIENCES

16-20 NOVEMBER EVIAN, FRANCE

S11- 16 - Decadal Datasets of Five Major Oxygenated Volatile Organic Compounds Retrieved from IASI Satellite Measurements

FRANCO Bruno, Université libre de Bruxelles (ULB), Spectroscopy, Quantum Chemistry and Atmospheric Remote Sensing (SQUARES)

S11- 17 - Retrievals of Atmospheric Carbonyl Sulfide from IASI

CARTWRIGHT Michael, University of Leicester

SESSION 12: OTHER INSTRUMENTS

S12-93 - Preparation of the assimilation of radiances from hyperspectral IRS instrument onboard the MTG in AROME model

COOPMANN OLIVIER, CNRM, Université de Toulouse, Météo-France, CNRS

S12- 95 - An introduction to the MTG-IRS Level 2 operational baseline

AUGUST Thomas, EUMETSAT

S12- 96 - MTG-IRS: scientific improvements for a user-friendly mission

COPPENS Dorothee, EUMETSAT

S12- 97 - FORUM End-to-End Simulator, phase A. Performance assessment of the mission concept

SGHERI Luca, IAC - CNR

S12- 98 - FORUM: the ESA Earth Explorer 9 mission to characterise the far-infrared spectrum of the Earth outgoing long-wave radiation

DINELLI Bianca Maria, ISAC-CNR

S12- 99 - Doppler Shift Correction of the Cross-track Infrared Sounder (CrIS) Observed Radiances

TAYLOR Joe, Space Science and Engineering Center, University of Wisconsin-Madison

S12-100 - Low Latency Reception, Processing, and Applications for CrIS hyperspectral infrared sounder data

GUMLEY Liam, Space Science and Engineering Center, University of Wisconsin-Madison

14 YEARS AND 3 IASI IN SPACE, PREPARING THE NEXT GENERATION:
ADVANCES AND EXPECTATIONS IN THE WEATHER, CLIMATE AND ATMOSPHERIC SCIENCES

16-20 NOVEMBER EVIAN, FRANCE

SESSION 13 : CLOUDS AND AEROSOLS

S13- 25 - Three-dimensional distribution of aerosols observed by IASI

CUESTA Juan, LISA Laboratoire Interuniversitaire des Systèmes Atmosphériques - CNRS/UPEC/UP

S13- 26 - Three-dimensional pathways of dust over the summertime Sahara revealed by IASI

CUESTA Juan, LISA Laboratoire Interuniversitaire des Systèmes Atmosphériques - CNRS/UPEC/UP

S13- 27 - New quantitative vertically-resolved retrievals of volcanic sulphate aerosols using IASI measurements

SELLITTO Pasquale, LISA-UPEC

S13- 29 - A long time series of Metop/IASI observations of Saharan aerosols distribution using AOD-Altitude-Surface temperature triplets

CAPELLE virginie, LMD/Ecole polytechnique

S13- 31 - Mineral Aerosols Profiling from Infrared Radiances (MAPIR): Update of dust and ash vertical profile retrievals from IASI

VANDENBUSSCHE Sophie, Royal Belgian Institute for Space Aeronomy

S13- 32 - Alternative Level 1 IASI cloud flag based on sub-pixel imagery radiance clustering

PRUNET Pascal, SPASCIA

S13- 33 - Chemical and optical properties of volcanic ash: Laboratory measurements and applications to IASI observations

DEGUINE Alexandre, Université libre de Bruxelles

S13- 34 - A Decadal Data Set of Global Atmospheric Dust Retrieved from IASI Satellite Measurements

CLARISSE Lieven, Université libre de Bruxelles (ULB), Spectroscopy, Quantum Chemistry and Atmospheric Remote Sensing (SQUARES)

S13- 35 - Determination of physical parameters of mineral aerosols during intense dust storms using IASI

ALALAM Perla, University of Lille



IASI 2020



14 YEARS AND 3 IASI IN SPACE, PREPARING THE NEXT GENERATION:
ADVANCES AND EXPECTATIONS IN THE WEATHER, CLIMATE AND ATMOSPHERIC SCIENCES

16-20 NOVEMBER EVIAN, FRANCE

SESSION 14 : SURFACE PROPERTIES

S14- 129 - Comparison of IASI and SEVIRI retrieved land surface temperatures and assimilation into the land surface system of a NWP model
BIRMAN camille, CNRM, Météo-France and CNRS