



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		



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Tuesday 17 November

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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 GIIRS 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 (C2H4)	FRANCO Bruno (ULB/SQUARES)

18:00 **Adjourn**



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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		



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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		



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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		



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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



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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



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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



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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)



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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

ARMANTE Raymond, LMD/IPSL/CNRS

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



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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)



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SESSION 10: IASI-NG

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BALDIT Elisa, CNES

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

JURADO Eric, CNES

SESSION 11: ATMOSPHERIC COMPOSITION

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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 Decadal 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)



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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



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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



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SESSION 14 : SURFACE PROPERTIES

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BIRMAN camille, CNRM, Météo-France and CNRS