# EUMETSAT Land Surface Analysis
# Satellite Application Facility (LSA SAF)

## 2015 User Workshop

**8-10 June: Reading, United Kingdom**

## Programme

# ORAL COMMUNICATIONS
## 08 June

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| 13:15 | **Participants Arrival & Coffee** | |
| 14:00 | **Welcome** | Martin Wooster |
| 14:15 | The EUMETSAT Network of Satellite Application Facilities | Lothar Schüller |
| 14:35 | The EUMETSAT LSA SAF | Isabel Trigo |
| | **ALBEDO & VEGETATION** | |
| 14:55 | The LSA-SAF albedo products | Grégoire Jacob |
| 15:15 | Annual Land Cover change using MODIS time series to improve emission inventories | Gerardo Lopez-Saldana |
| 15:35 | **Coffee Break** | |
| 15:05 | A Generic Retrieval Package for Land Parameters applied to Surface Albedo Products | Thomas Kaminski |
| 16:25 | Use of Airborne Multiangle and Multispectral Data to Assess Reflectance and Albedo Products of Geostationary Satellites. | Said Kharbouche |
| 16:45 | A new aerosol product based on MSG geostationary satellite observations | Dominique Carrer |
| 17:05 | LSA SAF training activities in collaboration with EUMETSAT | Jose Prieto |
| 17:25 | **Icebreaker** | |

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| **Joint Social Event with EarthTemp 2015 Workshop** |

# 09 June

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| 9:00 | **Welcome Coffee** | |
| 9:30 | Current status and potential applications of the LSA SAF vegetation products | Javier García Haro |
| 9:50 | Monitoring variation in onset, cessation and length of season using rainfall and normalised difference vegetation index in Zimbabwe | Raymond Mugandani |
| 10:10 | Exploring the potential use of vegetation related satellite products within an NWP framework | Souhail Boussetta |
| 10:30 | **Coffee Break** | |
| 11:00 | Overview of the Sentinel-3 Mission Performance Centre | Jerome Bruniquel |
| | **WILD FIRES** | |
| 11:20 | Use of Satellite Data for Wild Fire Monitoring at INPE | Alberto Setzer |
| 11:40 | Performance evaluation of the Meteosat SEVIRI FRP-PIXEL product from the Land Surface Analysis Satellite Applications Facility | Weidong Xu |
| 12:00 | A temporal active fire detection algorithm applied to geostationary satellite observations | Gareth Roberts |
| 12:20 | **Lunch Break** | |
| 13:30 | Tailoring the Fire Risk Mapping product to forest managers | Carlos DaCamara |
| 13:50 | MSG toolbox | Tim Jacobs |
| | **EVAPOTRANSPIRATION / DROUGHT MONITORING** | |
| 14:10 | Monitoring Evapotranspiration and Drought using Thermal Remote Sensing | Chris Hain |
| 14:30 | The LSA-SAF evapotranspiration products | Nicolas Ghilain |
| 14:50 | **Coffee Break** | |
| 15:20 | A thermodynamic method to estimate actual evapotranspiration of a grass field resembling closely the FAO reference grass, suitable for remote sensing applications: advection-free case | Henk de Bruin |
| 15:40 | ECMWF re-analysis of soil moisture | Clement Albergel |
| 16:00 | ESA's Soil Moisture and Ocean Salinity Mission – contributing to land surface analysis | Susanne Mecklenburg |
| 16:20 | A Near-Real-Time soil moisture product from SMOS observations | Nemesio Rodriguez-Fernandez |

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| 16:40 | Monitoring the state of vegetation over Slovenia using LSA SAF products | Mateja Iršic Zibert |
| 17:00 | **Adjourn** | |

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| **Workshop Dinner** |

# 10 June

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| 9:00 | **Welcome Coffee** | |
| 9:30 | Evaluation of observation-driven evaporation algorithms: results of the WACMOS-ET project | Carlos Jimenez |
| 9:50 | Irrigation assessment via remote sensing evapotranspiration and land surface model data | Mireia Romaguera |
| 10:10 | Advanced Biogeophysical Indices for Land Surface State Analyses and Drought Related Applications | Julia Stoyanova |
| 10:30 | **Coffee Break** | |
| 11:00 | Validation of MSG-2 SEVIRI Operational Evapotranspiration Product at Selected European Sites | George Petropoulos |
| | **Land Surface Temperature** | |
| 11:20 | Status of Land Surface Temperature production from the JPSS Mission | Yunyue Yu |
| 11:40 | Towards a Harmonized LST Product – the problem of angular anisotropy of LST | Sofia Ermida |
| 12:00 | Suitability of Meteosat satellite data for climatological LST retrieval | Anke Tetzlaff |
| 12:20 | **Lunch Break** | |
| 13:30 | A simple and accurate algorithm to estimate land surface temperature from microwave satellite observations | Catherine Prigent |
| 13:50 | Radiometric in-situ measurements over European & African sites for validating LSA SAF's land surface temperature product | Frank Göttsche |
| 14:10 | Comparison of diurnal heating rate estimates derived from SEVIRI and MODIS (Terra and Aqua) for use in estimation of evaporative fraction for a case study in Amhara region, Ethiopia | Nathan Forsythe |
| 14:30 | **Coffee Break** | |
| 15:00 | Comparison of model land skin temperature with remotely sensed estimates to assess surface-atmosphere coupling | Isabel Trigo |

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| 15:20 | Maximising the benefits of satellite LST within the user community: ESA DUE GlobTemperature | Darren Ghent |
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| 15:40 | LSA SAF User Survey | Carla Barroso |
| 16:00 | Plenary Session | Isabel Trigo / Martin Wooster |
| 17:00 | **End of Workshop** | |

# 08-10 June: Posters Presentations

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| DownWelling ShortWave Radiation from MSG Geostationary Satellite for LSA SAF: accuracy assessment of the diffuse component using SIRAMix method and input aerosol load and type | Jean-Louis Roujean |
| Prototyping of LSA SAF AVHRR/Metop vegetation products with VEGETATION and SEVIRI data | Javier García Haro |
| Algorithm development for gross primary production (GPP) in LSA-SAF | Álvaro Moreno Martínez |
| Prospective changes in the LSA-SAF evapotranspiration products | Alirio Arboleda |
| Time series Analysis of MODIS retrieved land surface temperatures in Lute desert | S. K. Alavipanah |
| Potential for gas flare characterisation using the SEVIRI 1.6 micron channel | Daniel Fisher |
| Land Surface Temperature Validation Against In Situ Station Data | Maria Martin |
| Near-real time estimation and broadcasting of biophysical parameters from SEVIRI at the University of Valencia | Jose Sobrino |
| Geostationary and Polar-Orbiting Satellite-Based Global Clear-Sky Surface Skin Temperature Using a Single-Channel Algorithm With Viewing Zenith Angle Correction | Benjamin Scarino |
| Comparing satellite-derived and WRF-modeled Land Surface Temperatures for monitoring extremes over Iran | Efthymia Pavlidou |
| Algorithm improvement for correcting biases in LSA SAF FVC and LAI operational products | Javier García Haro |
| Towards evapotranspiration products with increased spatial resolution | Françoise Meulenberghs |
| Geothermal activity assessment via remote sensing land surface temperature and simulated data | Mireia Romaguera |
| A new approach to fire detection by geostationary sensors based on temporal background | Sofia Ermida |
| Radiative forcing from fire-induced shortwave albedo change at global scale | Gerardo Lopez-Saldana |
| Prototype of LSA SAF Burnt Area Product | Carlos DaCamara |
| The WACMOS-ET LST Dataset | João Paulo Martins |
| The LSA SAF LST Operational Products: Current Status and Future Development | Isabel Trigo |