

2024 SALGEE and LSA SAF User Workshop on:
Monitoring Drought Impacts on Vegetation & Feedback

Day1: 25 November 2024

09:00 – 09:45 Welcome & Introduction

- *Lothar Schüller (EUMETSAT, SAF Network Manager)*
- *Isabel Trigo (IPMA, LSA SAF Manager)*
- *Julia Stoyanova (NIMH, SALGEE chair): A short review of SALGEE history*
- *Christine Träger-Chatterjee (EUMETSAT): Workshop Objectives*

09:45 – 10:45 SAF products in use: Research, Applications, Operational Use - Drought Dynamics

Chair: Christine Träger-Chatterjee

- *Célia Gouveia (IPMA, Portugal): Droughts, heatwaves, and fires: compound and cascading hazards and their impacts on vegetation dynamics*
- *Guido Masiello (Univ. Basilicata, Italy): Estimating surface water loss using water deficit indices data and value-added indexes*
- *Julia Stoyanova (NIMH, Bulgaria): Drought monitoring in regions with strong land-atmosphere coupling using METEOSAT SAF*
- Q&A and Discussion

10:45 – 11:15 Coffee Break

11:15 – 12:45 SAF products in use: Research, Applications, Operational Use - Drought Monitoring

Chair: Julia Stoyanova

- *Bagher Bayat (Forschungszentrum Jülich, Germany): Multidimensional Accuracy Assessment and Development of an ESI-Based Water Stress Product Using MSG-SEVIRI ET Data Across Europe*
- *Pau Benetó (Fundación, CEAM, Spain): Drought conditions in Europe: characterization and evolution from a local perspective*
- *Marianna Ponte Oliveira (Instituto Dom Luiz, Faculdade de Ciências da Universidade de Lisboa, Portugal): Assessing the impact of drought conditions and heat waves interannual variability of burned area in Continental Portugal*
- *Ahac Paslar, Bostjan Muri (Slovenian Environment Agency, Slovenia): The state of Slovenian drought monitoring and insights gained from the preparation of Jupyter Notebooks*
- *Anke Teztlaff (MeteoSwiss, Switzerland): Operational Drought Monitoring in Switzerland*
- Q&A and Discussion

12:45 – 14:00 Group foto & Lunch

14:00 – 15:00 **Poster Session (incl. 2 mins spotlight presentation per poster) with Coffee**

Chair: Célia Gouveia

- *Michal Lewicki (IMGW-PIB, Poland):* Integration of EUMETSAT Land Surface Analysis data for use in agrometeorological service by the Polish Institute of Meteorology and Water Management
- *Christo Georgiev (NIMH, Bulgaria):* Daily assessment of drought and related vegetation susceptibility to fires by using land surface temperature parameter
- *Juliette Anema (KNMI, Netherlands):* Monitoring of Vegetation Dynamics Using Improved GOME-2 SIF Data
- *Sercan Akil (Turkish State Meteorological Service, Turkey):* Assessment of the July-August 2021 Manavgat Forest Fires in Turkey Using the Meteorological Early Warning System (MEUS), Land Surface Analysis, and Satellite Observations
- *Kurtulus Öztürk (Turkish State Meteorological Service, Turkey):* Decadal Examination of Land Surface Dynamics (LSA) and NDWI Variations in Akyatan Lake, Türkiye (2015-2024)
- *Daniel Alexandru (National Meteorological Administration, Romania):* Romanian Agrometeorological Network
- *Yessica Natalia Ramirez Yara (AGH University of Kraków, Poland):* Building the data repository for local-scale evapotranspiration data using Python, and Machine Learning tools

15:00 – 16:45 **Satellite Data and Models**

Chair: Isabel Trigo

- *Patricia de Rosnay (ECMWF, UK):* Land surface temperature analysis at ECMWF
- *Jean Christophe Calvet (Meteo France, France):* Improving the monitoring of vegetation and droughts by the ISBA land surface model through the integration of satellite data
- *Kazeem Ishola (Maynooth University, Ireland):* Soil Moisture Droughts Monitoring in Ireland: Evaluating a Dynamic NOAH-MP model against EUMETSAT ASCAT SWI
- Q&A and Discussion

16:45 – 17:30: **Discussion and Wrap up of Day 1**

18:00 **Dinner at EUMETSAT**

Day 2: 26 November 2024

09:00 – 9:15: Welcome Day 2

09:15 – 10:15: Poster Session (incl. 2 mins spotlight presentation per poster) with Coffee

Chair: Linda Jakschies

- *Isabel Trigo (LSA SAF, IPMA, Portugal):* LSA SAF Overview – LSA SAF Products and Services: Continuous Monitoring Vegetation & Drought
- *Miguel Barrios (LSA SAF, RMIB, Belgium):* LSA SAF surface fluxes and evapotranspiration products. Response to drought conditions
- *Luca Brocca (H SAF, CNR, Italy):* Overview on H SAF precipitation products and services portfolio and future developments
- *David Fairbairn (H SAF, ECMWF):* Monitoring soil moisture anomalies and trends with the H SAF ASCAT root-zone soil moisture data records
- *Nicoletta Roberto (H SAF, CIMA, Foundation Italy):* Training activities, tools and product applications in H SAF
- *Marc Schröder (CM SAF, DWD, Germany):* CM SAF data in support to land surface analysis and drought monitoring
- *Christine Träger-Chatterjee (EUMETSAT):* Towards a Climate Anomaly and Normal Service – Plans and current status
- Hands-on: Checking out the EUMETSAT User Portal

10:15 – 12:00: Options for collaboration

Session chair: Christine Träger-Chatterjee

- *Roope Tervo (EUMETSAT):* Overview and introduction on the European Weather Cloud
- *Plenary:* Discussion on potential collaborations, co-development initiatives, next steps, recommendations
- Wrap up

12:00 End of SALGEE & LSA SAF User Workshop

12:00 Lunch

13:30 Start of Fire Workshop