

8th SALGEE-LSASAF User Workshop

15 years SALGEE Project

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25 – 26 November 2024, Darmstadt, Germany

Monitoring Drought Impacts on Vegetation & Feedback

SALGEE



Short SALGEE History

- ❑ **Satellite Applications in Land surface analyses Group for Eastern Europe (SALGEE) (2009-20210)** <https://classroom.eumetsat.int/course/view.php?id=69>
- First workshop: Sofia, 2009, NIMH Bulgaria initiative
- SALGEE Group establishment, 2010:
 - Reported in the CGMS-38 by Dr. Volker Gaertner, EUMETSAT
 - Steering Group (2010-2021) for organization purposes
 - Elaboration of ToRs
 - Establishment of SALGEE Workshop Format: biannual meetings for exchange of knowledge and information between leading scientists and experts with users at target region at an international level on the use of satellite land surface analysis techniques in operational meteorology and climatology
- Purposes according to SALGEE ToRs
 - To gather experts in the field of satellite meteorology to complement the activities of the EUMETSAT LSA SAF in order to progress the use of satellite Land Surface Analysis techniques in Eastern Europe and other regions of interest.
 - To foster an integrated meteorological and climatological approach for research and operational activates related to the quantification of biogeophysical and biochemical cycles and related land surface processes, in combination with information from in situ data, model output and satellite observations.



SALGEE Activities & Evolution

➤ Thematic Biannual Workshops (2009-2021)

SALGEE dF	Topic	Date	Place
1st Workshop	MSG Land Surface Applications: Drought & Fires	07-10 Sep 2009	Sofia, Bulgaria
2nd Workshop	MSG Land Surface Applications: Drought & Fire	04-07 April 2011	Antalya, Turkey
3rd Workshop	MSG Land Surface Applications: Drought & Fire emissions	20-21 March 2013	Lisabon/Ericeira Portugal
4th Workshop	MSG Land Surface Applications: Drought and Environmental response	01-03 Sep 2015	Matera, Italy
5th Workshop	MSG Land Surface Applications: Heat waves, drought hazard and fire monitoring	18-20 Sep 2017	Yerevan, Armenia
6th Workshop	MSG Land Surface Applications: Connection of climate and biosphere	14–17 October 2019	Darmstadt, EUMETSAT HQ, Germany
7th Workshop	Drought & Vegetation Monitoring: Energy–Water Cycle	24–26 Nov 2021	On line

- Establish relations & Exchange of knowledge with ECMWF
- Exchange of experience with H-SAF and CM SAF.
- Active users and involved in satellite applications in LSA in target region are identified;
- Limitation: Only few countries in SEE have expressed interest to contribute.

- Satellite experts and developers (EUM, LSASAF, NASA, NOAA, and other agencies) are invited to present advanced research and operational applications.
- Studies in support the validation of EUMETSAT and Land SAF products for drought assessment, forest fire detection and the impact of post fire effects on climate.
- Results: Training & LSASAF products promotion.



SALGEE Prospective

- Combine efforts: First step is the Joint SALGEE & LSASAF User Workshop: “Monitoring Drought Impacts on Vegetation & Feedback”, 25-26 November 2024, Darmstadt, Germany
- To combine scientific and/or technical capacity to:
 - Identify research methods on Land Surface Analyses of drought in presence of vegetation and showcase some innovative uses related to drought.
 - Transfer from research to operations for early warning.
- Applying Integrated tools and in support to analyses drought related processes
 - Initiatives for Collaboration, Use of MTG Data.
 - A collaborative infrastructure in support of teaming efforts.