## Workshop Synopsis

The 6th SALGEE is an advanced thematic Workshop on “**MSG Land Surface Applications: Connection of climate and biosphere**”, providing a forum and framework to develop strategic objectives and collaborations:

* to maximize the uses of EUMETSAT LSASAF products for land surface analyses and biosphere applications, so to be prepared for the MTG mission.
* to force the relations between LSASAF and H-SAF for a common use of satellite products for water cycle components quantification and drought assessment.
* to initiate the use of Climate Data Records of satellite products.
* the role of biosphere in carbon cycle to be accounted, respectively vegetation activity, productivity, including during drought conditions.
* a better characterization of hazards like fires and fire risk forecast
* to be a forum to review the key uses of satellite data in this field and share experience among the NMSs user community (mainly) and product developers/trainers from EUMETSAT, LSA SAF, NASA, NOAA, and other related Universities and institutions.

## Main Topics

1. Introduction to the problem of climate-biosphere connection
2. Satellite products for land surface state & anomalies analyses

Sub-topic 1: General Overview

Sub-topic 2: Energy & Water cycles related products

1. Terrestrial drought monitoring

Sub-topic 1: Assessment and monitoring agricultural & ecological drought

Sub-topic 2: Monitoring European Forest (sustainability and disturbances) using satellites

1. Fires: Risk assessment, Detection, Emissions

Sub-topic 1: Fire detection and Biomass burning effects

Sub-topic 2: Fire Risk

Sub-topic 3: Carbon cycle and Climate: Vegetation as a carbon sink

1. Regional Applications

## Expected outcome

The Workshop outcomes might be of importance for:

* Agrometeorology and Agriculture
* Forest sustainability
* Environmental management
* Natural hazards risk assessment
* Climate and carbon cycle