

## JECAM open data license for EO dataset

Work with space agencies to open up data licensing to entire JECAM community to support MDS concept

⇒ **RADARSAT2 Multi User Agreement already applied for 2015 SAR data collection**

## JECAM opendata license for in situ dataset

Derived from the open data commons

(see related links to the licence [1], to a summary of the licence [2])

[1]: <http://opendatacommons.org/licenses/odbl/1.0/>

[2]: <http://opendatacommons.org/licenses/odbl/summary/>

In summary ,

- the licence allow to the user to share the database , use , modify and build up from it, as long as it is specified where the information is coming from and it is distributed ( also a modified version ) under the same open licence.

For each JECAM site dataset covered by this license we would have :

- a **COPYRIGHT.TXT file** with the following text:

*“UCLouvain have derivate this database from a database provided by XXX in the frame of the ESA Sentinel-2 For Agriculture project under the terms of the ODbL license.”*

- a **LICENCE.TXT file** reproducing the official license provided.

## ODC Open Database License (ODbL) Summary

This is a human-readable summary of the [ODbL 1.0 license](#). Please see the disclaimer below.

### You are free:



*To Share:* To copy, distribute and use the database.



*To Create:* To produce works from the database.



*To Adapt:* To modify, transform and build upon the database.

### As long as you:



*Attribute:* You must attribute any public use of the database, or works produced from the database, in the manner specified in the ODbL. For any use or redistribution of the database, or works produced from it, you must make clear to others the license of the database and keep intact any notices on the original database.



*Share-Alike:* If you publicly use any adapted version of this database, or works produced from an adapted database, you must also offer that adapted database under the ODbL.



*Keep open:* If you redistribute the database, or an adapted version of it, then you may use technological measures that restrict the work (such as DRM) as long as you also redistribute a version without such measures.

What are your experiences ?

Should it become a JECAM standards for the MDS ?




# JECAM Guidelines: Definition of the Minimum Earth Observation Dataset Requirements


## I. Objectives and background

The objective of the JECAM minimum data set requirements is to build a **common data set of satellite and in situ observations to support research and methods benchmarking activities across JECAM sites**. The JECAM network facilitates data sharing and collaborative research among its partners to develop crop assessment and agricultural monitoring methods for a large variety of agriculture systems. The enhanced coordination will facilitate a high level of bi-lateral and multi-lateral collaboration.

GEOGLAM was initiated in 2011, after JECAM inception in 2009. In response to GEOGLAM, JECAM has now become the foundation of the R&D component for GEOGLAM, consequently the JECAM objectives have evolved. The refocusing of the JECAM mandate has necessitated the need for a more coordinated approach to space-based EO observations as well as in-situ observations. This document outlines considerations and requirements for EO data, and a separate document outlines in-situ data considerations. It is expected the minimum data set concept will be applied to a subset of all JECAM sites. These sites will be selected based on their engagement level, representativeness, and desire to openly share EO and in-situ data within the JECAM community.



In order to encompass the diversity of regional crop types and crop development, a typical JECAM site will cover **an area of 25 x 25 km (625 sq. km) and be representative of one or several cropping systems** with a spatially nested core zone **of 10 x 10 km (100 sq. km)** for the most intensive field measurements, including those relating to crop stages and biophysical variables, that are repeated throughout the growing season.



## V. Minimum In-situ Datasets for JECAM Sites

Three types of *in-situ* data have to be systematically collected on the ground and/or possibly by airborne systems during the main growing season. The standardized approach to collecting this data is outlined in detail in another document. As an overview, these minimum types of data are defined as follows:

*Crop Mask (Cropland – Non Cropland) dataset:* field observation has to cover the cropland area with more than 100 fields but also includes a set of non-cropland samples covering the diversity of the landscape;

*Crop Type dataset:* each main crop type of a given JECAM site should be assessed by field observations with a minimum sampling density well distributed over the site. In addition a minimum sample of field observations should also cover the other crop types;

*Crop Condition (Vegetation status) dataset:* the main development stages (e.g. emergence, flowering, maturity, harvest) of the main crops should be described along the growing season for the JECAM site. On a best effort basis, biophysical variables such as LAI, fCover or fAPAR could be also measured for different crops over several fields.