



sentinel-2



→ AGRICULTURE

Sen2-Agri - 1st Webinar

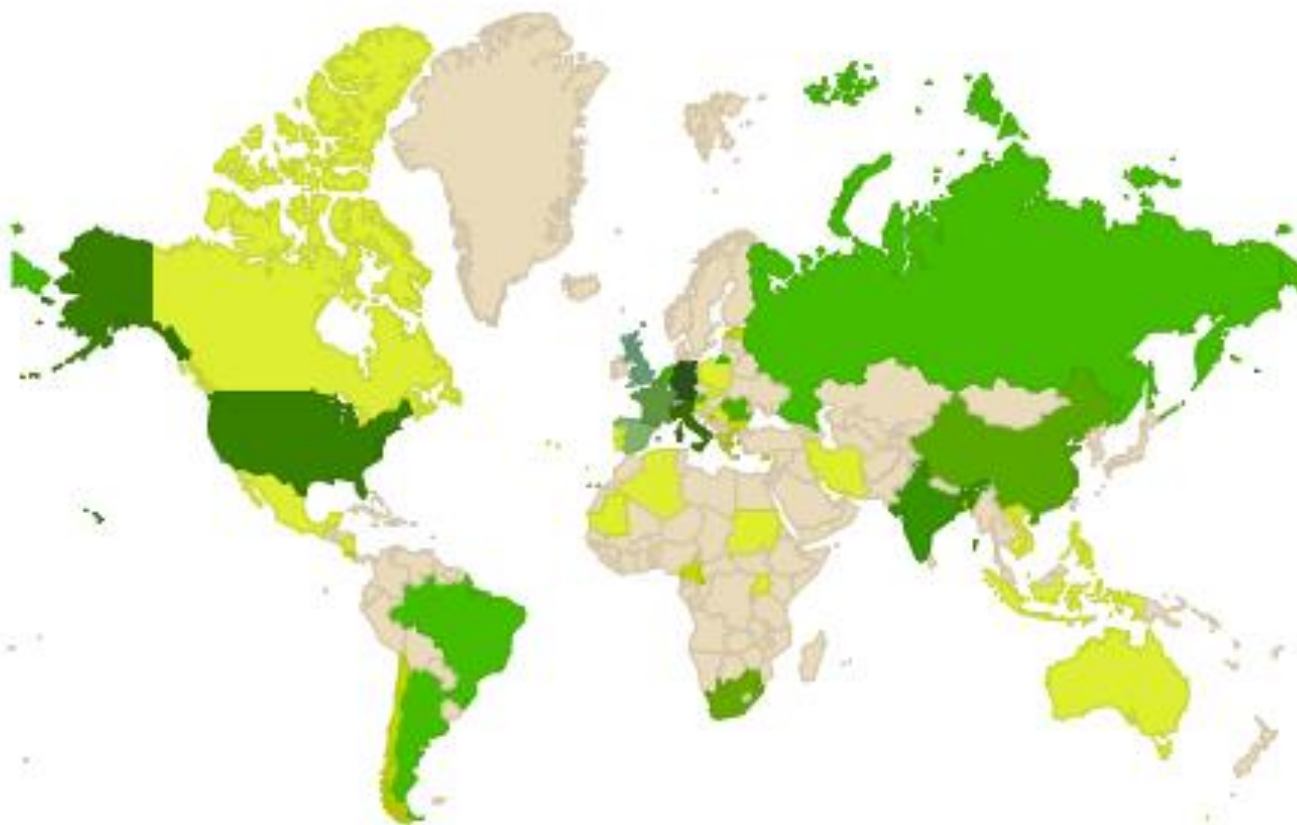
What's new since June 2017 ?

30 November 2017

Sen2-Agri system download



- 201 system downloads on www.esa-sen2agri.org/



12 ongoing supports



- What's new?
 - S2B images downloading and processing
 - Option to use local L1C repositories as products store in the S2 downloader
 - S2 red-edge bands (by-default) in the L4B crop mask without in-situ data
 - New flag for S2 L1C products MACCS processing to determine if the product was handled OK or not by MACCS

- What has been fixed?
 - RT and T2 L8 products are no longer downloaded
 - No status line for L8 downloader if it's not writing to a TTY
 - Crop mask post-filtering ignores negative reflectance values
 - Reduced CPU and disk usage of the crop mask post-filtering
 - Post-filtered crop mask data type from `Float32` to `Int16`
 - Fixed an issue that caused the supervised crop mask processor to crash on tiles spanned by multiple strata

Version 1.7 released



Installation package

System requirement

Installation procedure

Changelog

System Version 1.7 [30-11-2017]

Added

- The system is now able to download and process Sentinel-2B images.
- The unsupervised crop mask processor can now use (optionally, on by default) the red edge bands
- Added the local mode in the Sentinel-2 downloader in order to use a local LIC repositories as products store
- Added a new flag for LIC products processing in order to determine if the product was handled OK or not by MACCS.

Changed

- Products in the `RT` and `T2` Landsat 8 collections are no longer downloaded
- Changed the crop mask post-filtering to ignore negative reflectance values
- Reduced the CPU usage of the crop mask post-filtering NDVI extraction step by 20%, and the wall clock time by 15% when running with 4 threads
- Reduced the CPU and disk usage by merging the crop mask post-filtering no data filling and PCA steps; CPU usage went down by 27% and disk usage by about 20 GB for a single tile
- The Landsat 8 downloader no longer keep a download status line if it's not writing to a TTY

Fixed

- Fixed an issue that made the crop mask post-filtering output invalid rasters when both Sentinel-2 and Landsat 8 products were used for post-filtering; this was disabled by default
- Changed the post-filtered crop mask data type from `Float32` to `Int16`
- Fixed an issue that caused the supervised crop mask processor to crash on tiles spanned by multiple strata
- Fixed an issue that sometimes caused MACCS to be passed an L3C product instead of the previous L2A one
- Fixed a potential division by zero in the Landsat 8 downloader



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1st Sen2-Agri regular webinar, 30 November 2017



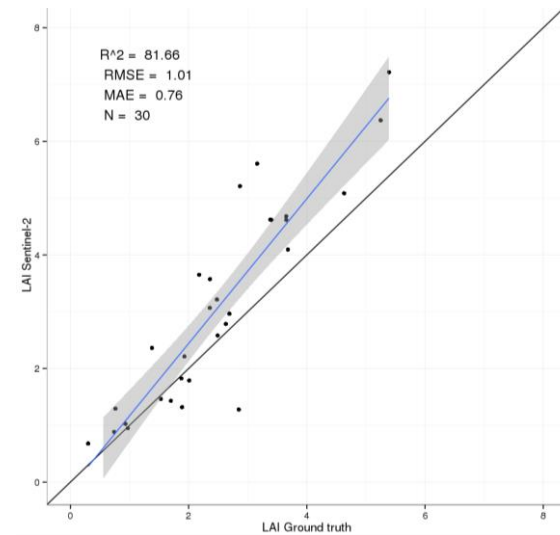
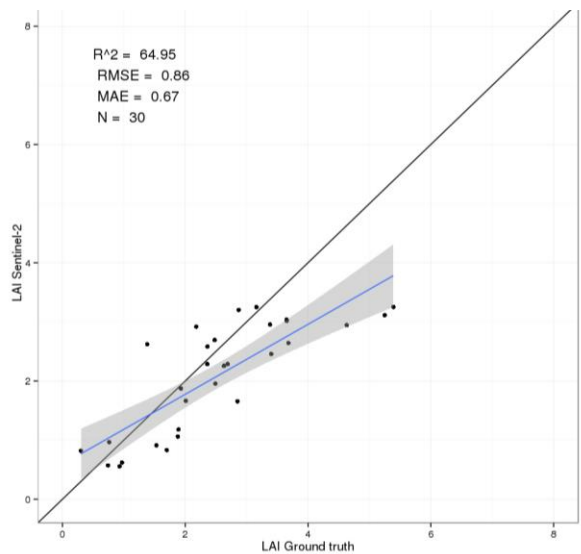
System evolution



- LAI processor
 - For the moment, saturation of LAI values around 3.5. Ongoing researches to improve next version.

Test with a new method directly based on INRA method

Current Sen2-Agri LAI



System evolution



- LAI processor
- User Interface
 - Date filtering for L2A selection in manual mode
 - Improve operational aspects of automated production (e.g. make easire the processing of a past season)
 - Increase flexibilty (jobs cancelling, sites removal, L8 enabling/disabling)
 - Make operational user interface of the sen2agri-config DB
 - Include progress bar for L4A crop mask and L4B crop type processors