



## Comparison between satellite wildfire databases in Europe

Malik Amraoui (1), Mário Pereira (1,2), and Carlos DaCamara (1)

(1) Instituto Dom Luiz, IDL, Universidade de Lisboa, Lisboa, Portugal (malik@utad.pt, cdcamara@fc.ul.pt), (2) Centro de Investigação e de Tecnologias Agro-Ambientais e Biológicas (CITAB), Universidade de Trás-os-Montes e Alto Douro, Vila Real, Portugal (gpereria@utad.pt)

For Europe, several databases of wildfires based on the satellite imagery are currently available and being used to conduct various studies and produce official reports. The European Forest Fire Information System (EFFIS) burned area perimeters database comprises fires with burnt area greater than 1.0 ha occurred in the Europe countries during the 2000 – 2011 period. The MODIS Burned Area Product (MCD45A1) is a monthly global Level 3 gridded 500m product containing per-pixel burning, quality information, and tile-level metadata. The Burned Area Product was developed by the MODIS Fire Team at the University of Maryland and is available April 2000 onwards. Finally, for Portugal the National Forest Authority (AFN) discloses the national mapping of burned areas of the years 1990 to 2011, based on Landsat imagery which accounts for fires larger than 5.0 ha. This study main objectives are: (i) provide a comprehensive description of the datasets, its limitations and potential; (ii) do preliminary statistics on the data; and, (iii) to compare the MODIS and EFFIS satellite wildfires databases throughout/across the entire European territory, based on indicators such as the spatial location of the burned areas and the extent of area burned annually and complement the analysis for Portugal will the inclusion of database AFN.

This work is supported by European Union Funds (FEDER/COMPETE - Operational Competitiveness Programme) and by national funds (FCT - Portuguese Foundation for Science and Technology) under the project FCOMP-01-0124-FEDER-022692, the project FLAIR (PTDC/AAC-AMB/104702/2008) and the EU 7th Framework Program through FUME (contract number 243888).