



ESA Fire_cci project

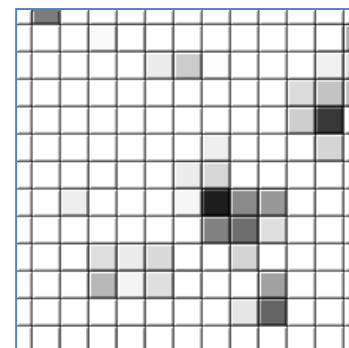
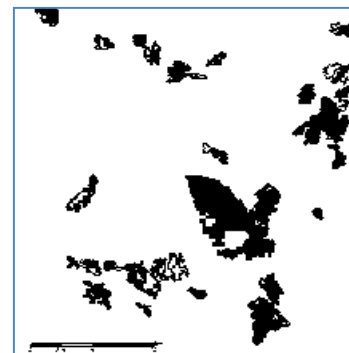
Emilio Chuvieco, University of Alcalá
On behalf of the Fire_cci consortium





BA products

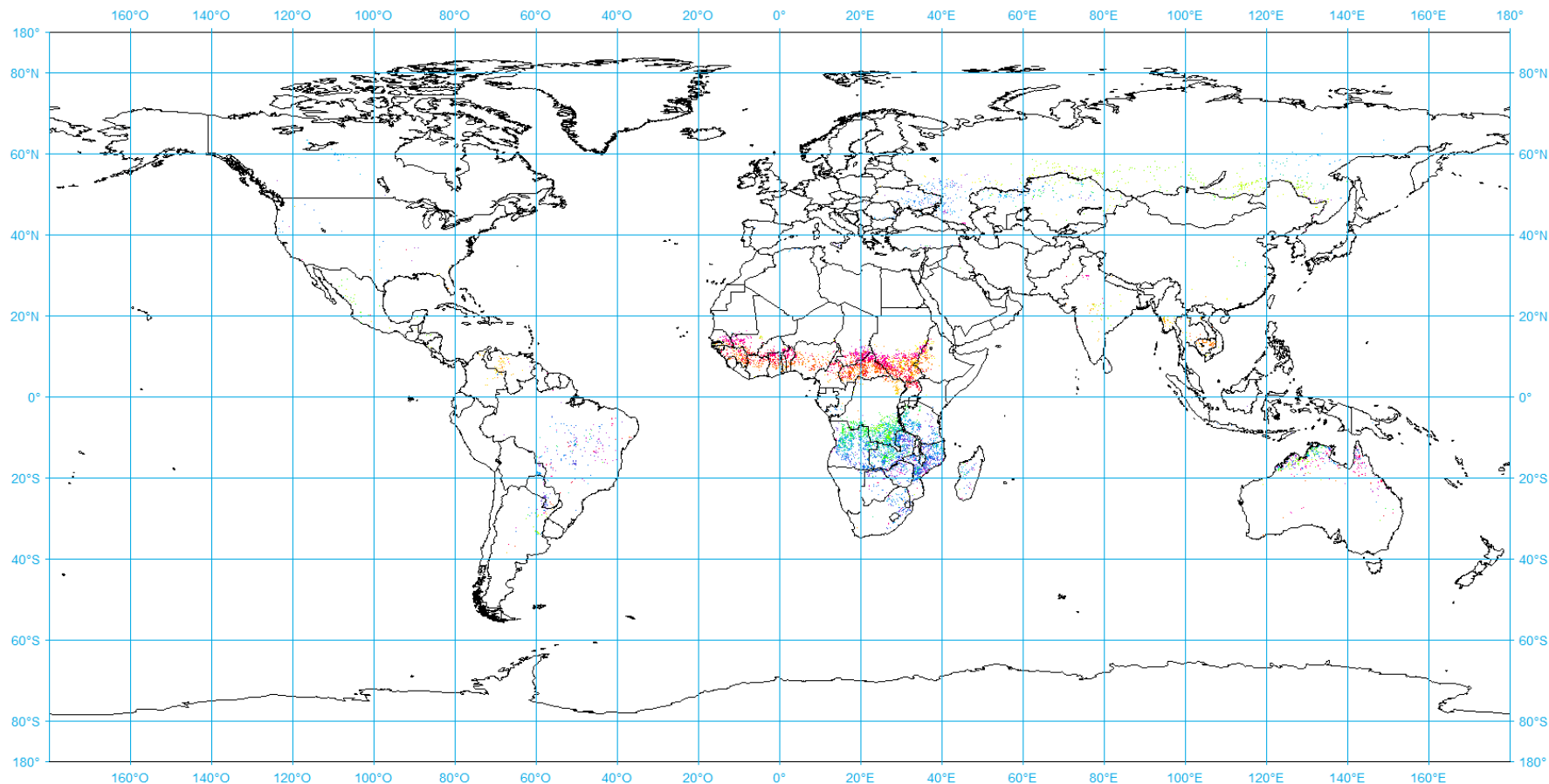
- Pixel product:
 - Full spatial resolution.
 - Day of detection.
 - Global: MERIS / MODIS.
 - Regional: S-2 and S-1.
- Grid product:
 - 0.25 d resolution.
 - 15-day BA accumulated.





Pixel product: Date of detection (2008)

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DoY



1

180

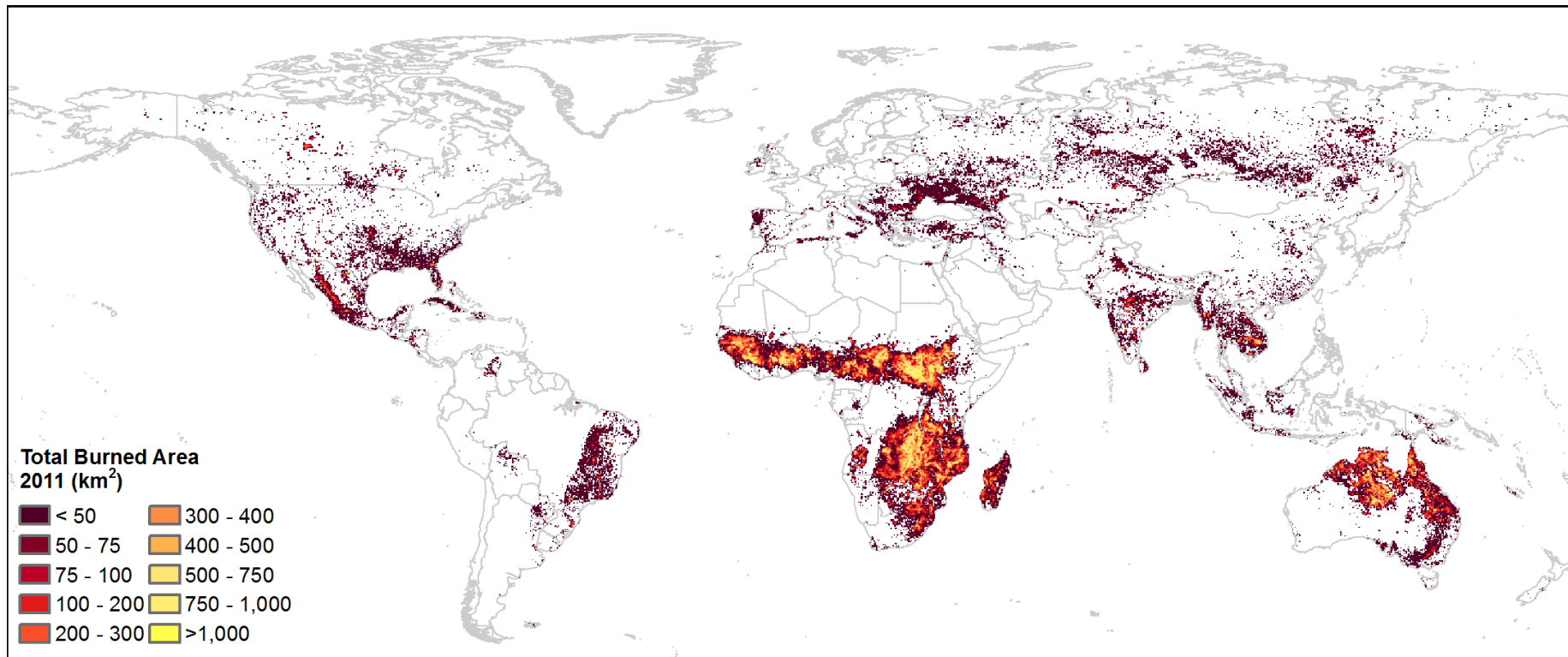
365

Plate Carrée Projection
Central Meridian: 0.00



Fire_cci BA product v4.1

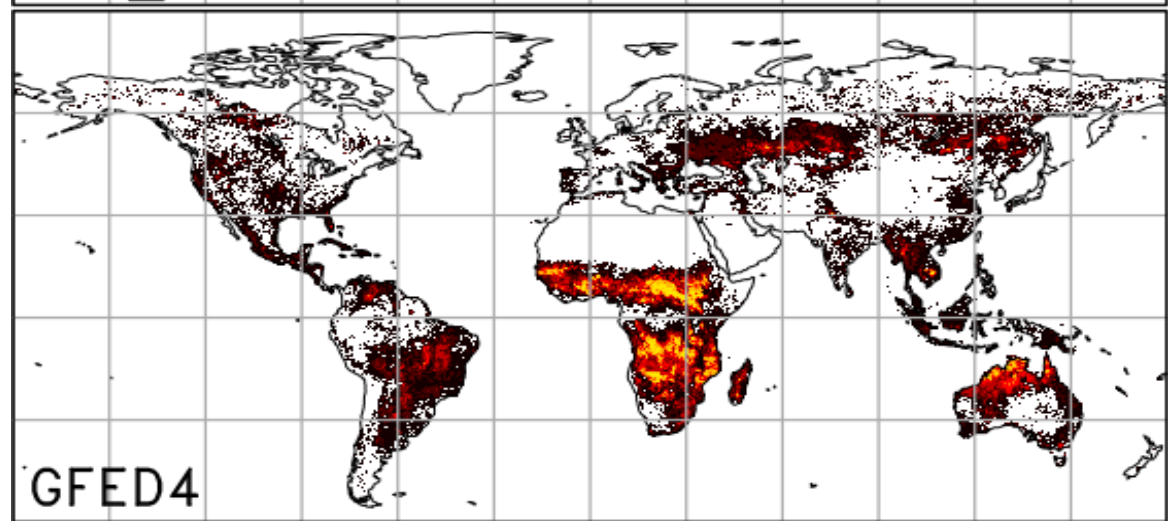
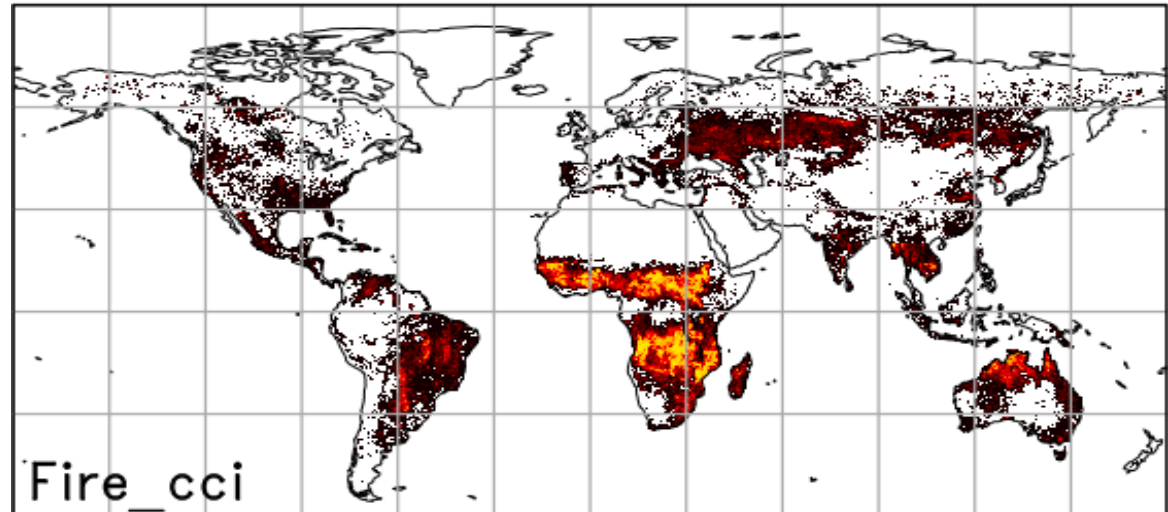
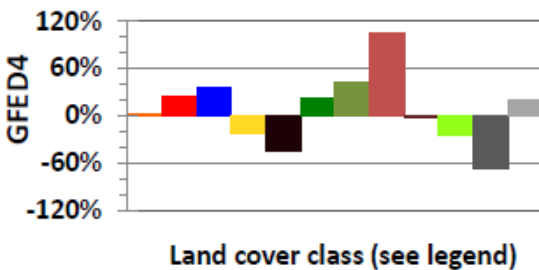
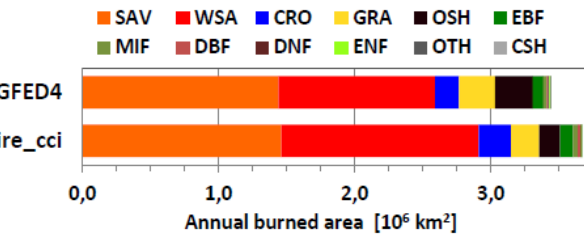
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Intercomparison

Differences GFED4 Fire_cci v3

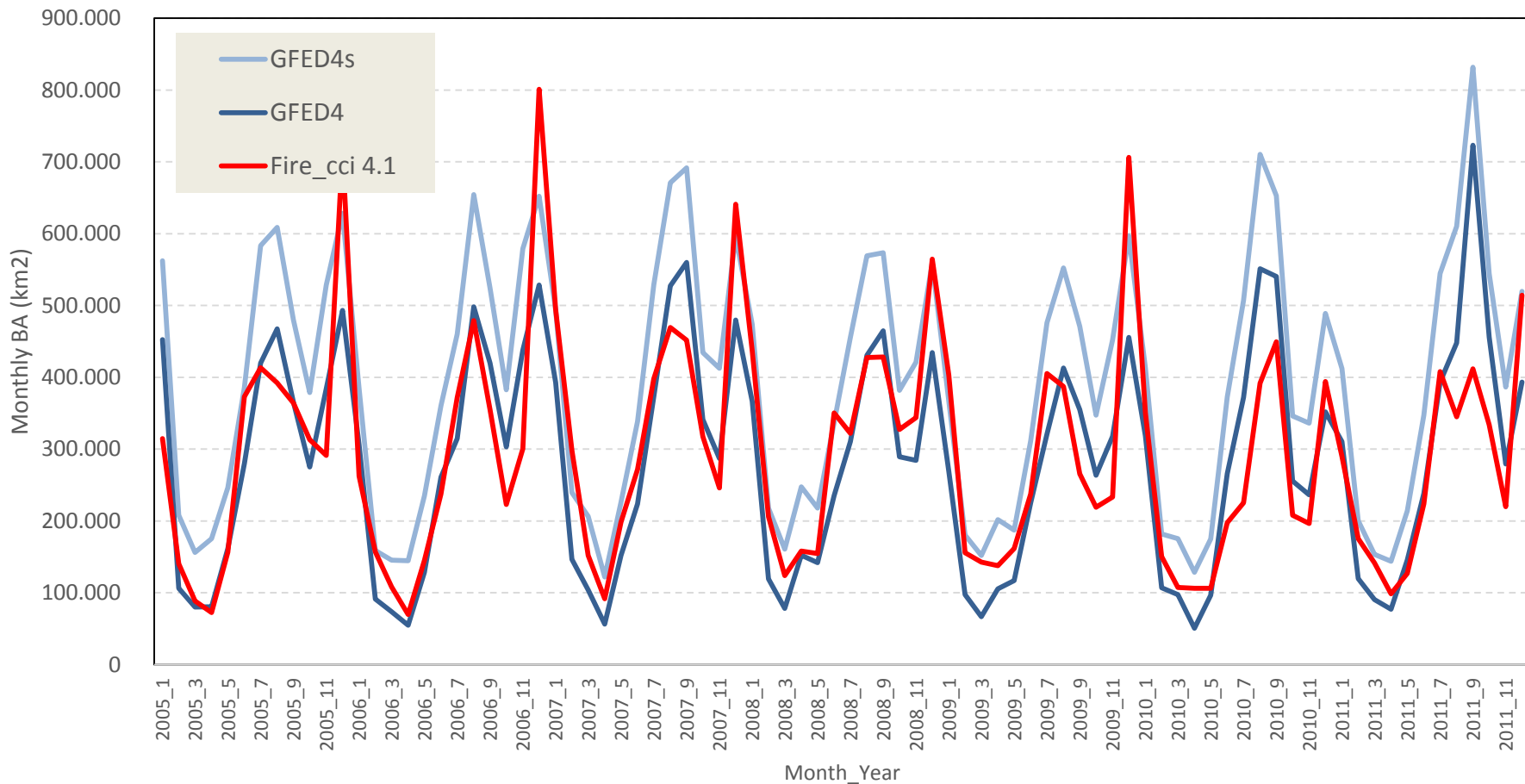




Temporal trends

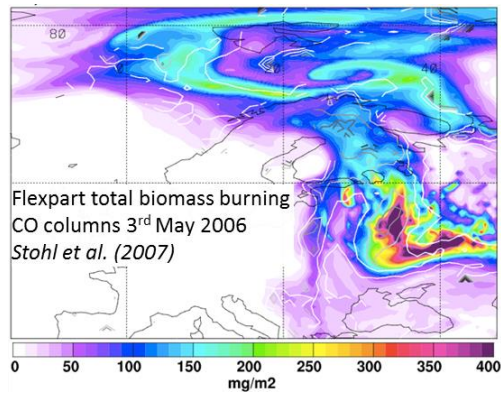
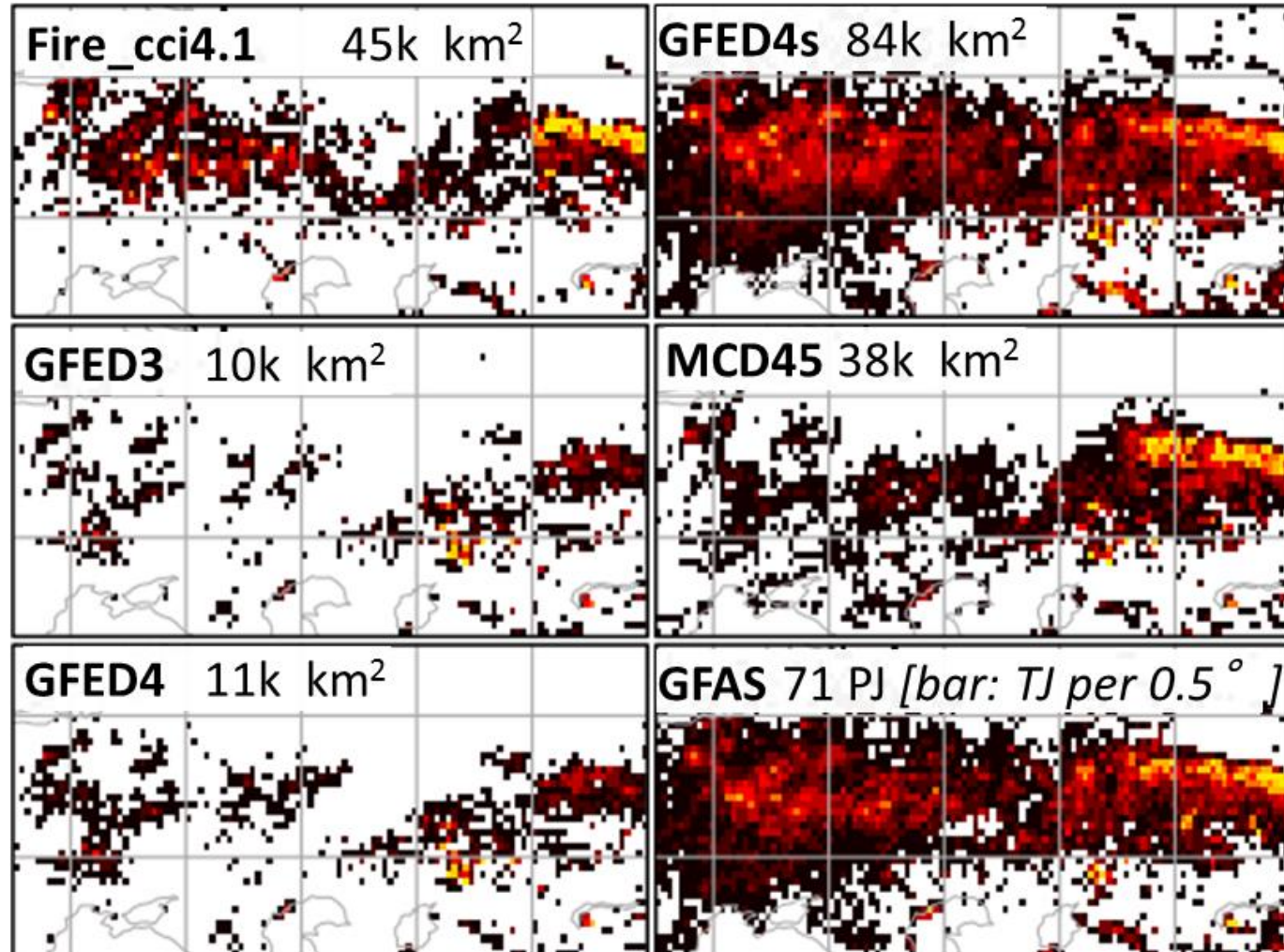
GFED 4 – GFED4s – Fire_cci4.1

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Regional differences

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Current (and exciting) challenges!!

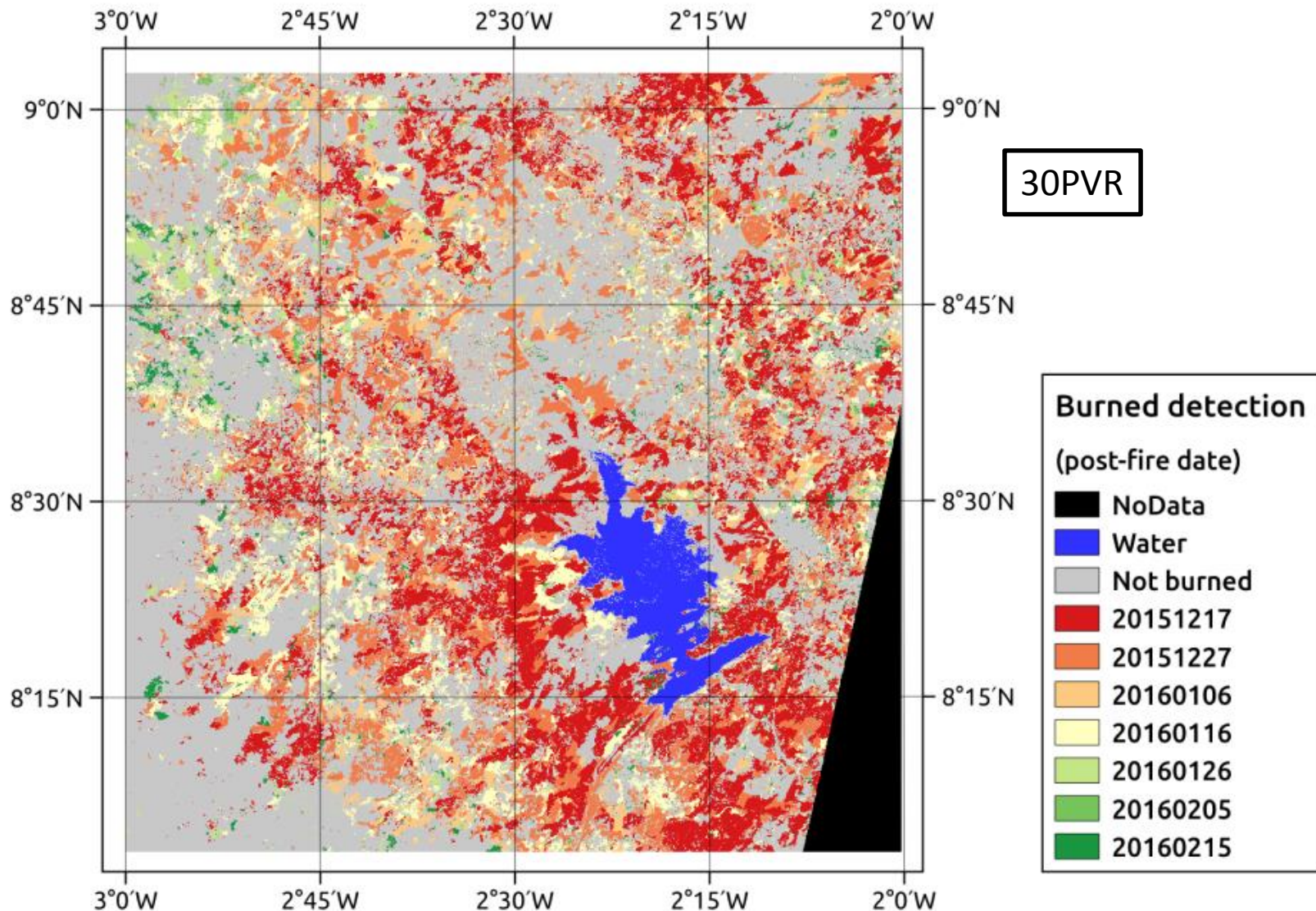
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- Existing MERIS (2005-2011).
- MODIS BA time series (2000-2016):
 - Longer and more coherent time series.
 - Compare to existing GFED datasets.
- Small fire database (2015-2016):
 - Fire size distribution.
 - Fire shapes.
- LTDR option (1981-2000):
 - Significant extension of the time series.



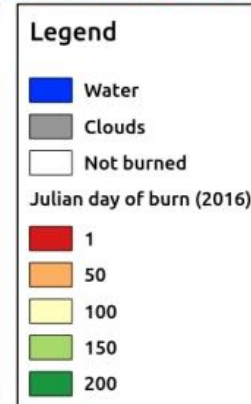
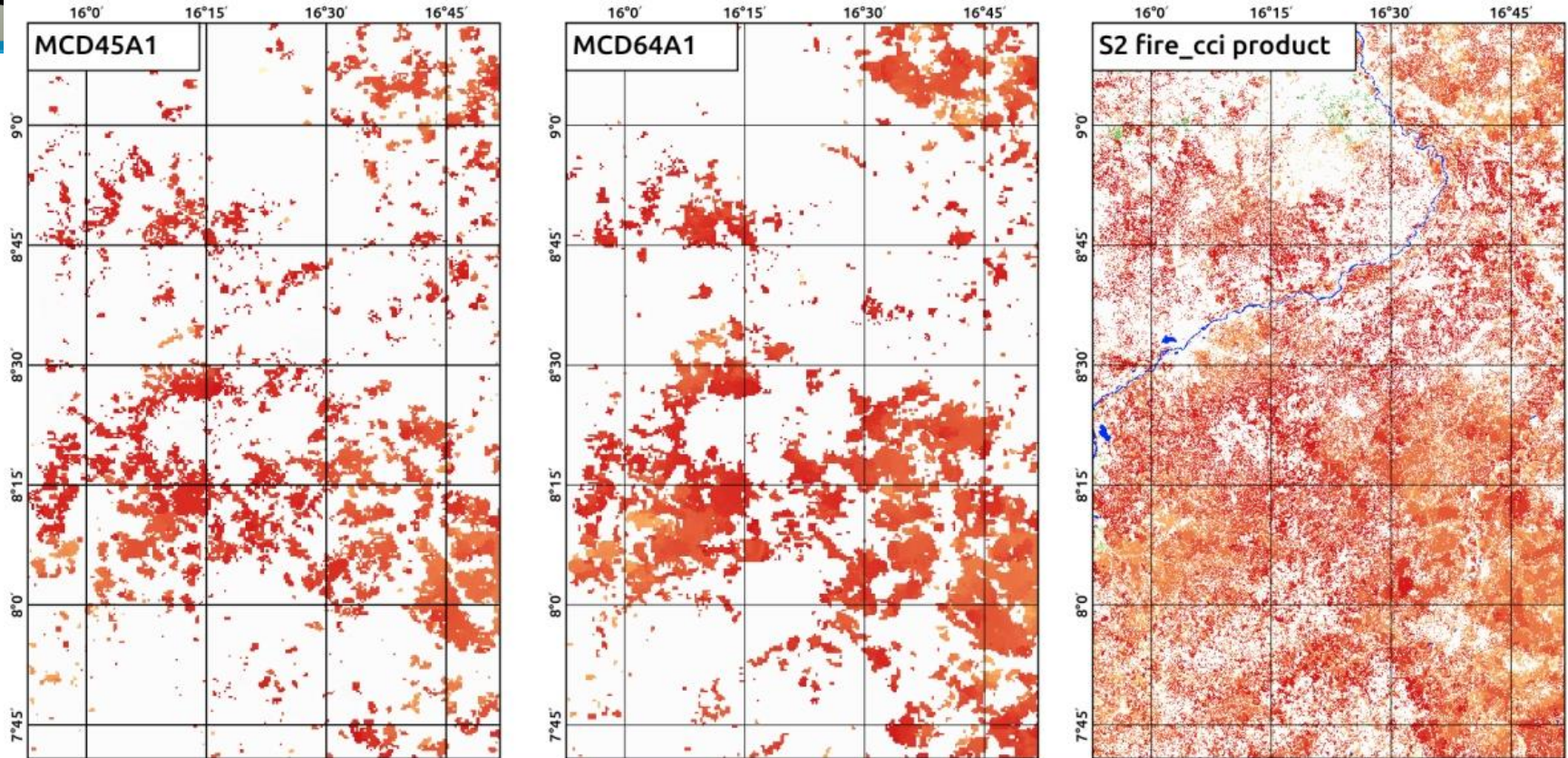
Small Fire Database (S-2) Africa

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Small Fire Database (S-2) Africa

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Climate assessment of Fire_cci product

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- Fire emissions:
 - Comparing with existing estimations based on MODIS data.
 - Improve modelling with small fires.
- Fire models:
 - Fire size / shape distributions (+Fire ecology).
 - Extending BA time series (LTDR)



FIRE_CCI



Navigation

- Home
- ▶ About Fire_CCI
- ▶ Resources
- ▶ Support

Questionnaire for users

Potential users of the BA Products are kindly requested to fill this questionnaire.

New publication of Fire_cci on Global Ecology and Biogeography

A new article detailing the methods and results of the global burned area (BA) product developed by the Fire_cci Team has been published in Global Ecology and Biogeography in March 2016.

The article, entitled "A new global burned area product for climate assessment of fire impacts", presents the methods for generating the global BA product, along...

Submitted by: MLP
Post date: 31 Mar 16

Overview

Why is information on burned areas needed?

It is estimated, that about 25%-35% of Greenhouse gases (GHG) are resulting from biomass burning and therefore they are considered an important factor in climate change (GTOS 68, T13 Fire Disturbance).

Aims of the Fire_cci project

Current global...

Submitted by: MLP
Post date: 28 Jan 16

Questionnaire for users

In order to generate a BA product that fits your needs you are kindly asked to complete the following questionnaire. Your input is very valuable to us and if you have more detailed comments or suggestions, please feel free to formulate them. While the focus of the ESA initiative is on climate change research and assessments, other user communities are very welcomed to use the Fire_cci products.

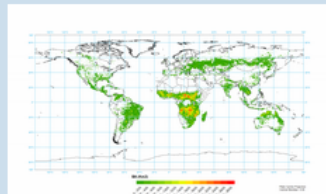
...
Submitted by: MLP
Post date: 24 Sep 15

Fire_cci Newsletter - Issue COP 21

Fire_cci Newsletter - Special Issue COP 21

Download BA products

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