

## TM5-MP - Bug #373

### Diurnal cycle biomass burning emissions

09/17/2015 09:54 AM - Twan van Noije

<b>Status:</b>	New	<b>Start date:</b>	09/17/2015
<b>Priority:</b>	Normal	<b>Due date:</b>	
<b>Assignee:</b>		<b>% Done:</b>	10%
<b>Category:</b>		<b>Estimated time:</b>	0.00 hour
<b>Target version:</b>		<b>Spent time:</b>	0.00 hour
<b>Description</b>			
<p>In the current version of the model, a diurnal cycle can optionally applied in the tropics (between 20S and 20N) using a simple parametrization based on some daily cycle in isoprene emissions. This option has only been implemented for the gaseous tracers (NO<sub>x</sub>, CO, NMVOCs, CH<sub>4</sub>, SO<sub>x</sub>, NH<sub>3</sub>).</p> <p>A better way would be to use the mean diurnal cycle provided for GFEDv3 (or v4), which is based on Mu et al. (JGR, 2011). It is more directly based on observations and not restricted to tropical fires. We should apply it for all emissions from biomass burning, including aerosols.</p>			

#### History

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**#1 - 05/12/2016 07:25 AM - Philippe Le Sager**

- % Done changed from 0 to 10

From [r323](#) (fixed in [r332](#)), the diurnal cycle is now applied to biomass burning isoprene and terpenes emissions.

**#2 - 07/03/2018 12:34 PM - Philippe Le Sager**

- Project changed from TM5-ZOOM to TM5-MP

- Category deleted (emissions)