

## TM5-MP - Bug #362

### Dry deposition total for aggregated NOx

06/23/2015 09:30 AM - Jason Williams

<b>Status:</b>	New	<b>Start date:</b>	06/23/2015
<b>Priority:</b>	Normal	<b>Due date:</b>	
<b>Assignee:</b>	Jason Williams	<b>% Done:</b>	80%
<b>Category:</b>		<b>Estimated time:</b>	1.00 hour
<b>Target version:</b>		<b>Spent time:</b>	0.00 hour
<b>Description</b>			
The calculation of the total NOx deposition velocity does not include HNO4, whereas the partitioning of NOx at the start of solving the differential equations does. This introduces an error when analysing the lumped NOx budget. The bug occurs across different versions.			

#### History

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##### #1 - 06/23/2015 09:48 AM - Twan van Noije

If I understand correctly, I don't think this needs to be fixed in the TM5 code. Deposition of NOy species other than NOx can be added in postprocessing. In that way a closed budget is obtained (see Table A3 in my 2014 GMD paper).

##### #2 - 06/24/2015 02:06 PM - Jason Williams

Also HNO3 should be removed from the calculation of the total as this is a specifically declared transported tracer.