

## TM5-ZOOM - Bug #354

### Size distribution of online calculated mineral dust emissions

04/08/2015 03:32 PM - Twan van Noije

<b>Status:</b>	Closed	<b>Start date:</b>	04/08/2015
<b>Priority:</b>	Normal	<b>Due date:</b>	
<b>Assignee:</b>	Twan van Noije	<b>% Done:</b>	0%
<b>Category:</b>	Aerosols	<b>Estimated time:</b>	0.00 hour
<b>Target version:</b>			
<b>Description</b>			
<p>The online calculation of mineral dust emissions involves a mapping of the size distribution obtained using the sectional model of Tegen et al. (JGR, 2002) onto the log-normal accumulation and coarse modes of M7. This part of the calculation has been modified, resulting in two to three times higher emissions in the accumulation mode. For details, see the new comments in the code.</p> <p>The attached figures show the impacts on the simulated annual mean dust load, aerosol optical depth (AOD) and contribution from mineral dust, as well as a comparison of the simulated annual mean, summer (JJA) and winter (DJF) AOD field with correction for stratospheric aerosols included with MODIS.</p>			

#### History

##### #1 - 04/10/2015 02:22 PM - Twan van Noije

- File DD\_mp\_bcri\_aii\_oc2pom2\_msa\_soa24\_0a16\_seff\_modes-mp\_bcri\_aii\_oc2pom2\_msa\_soa24\_0a16\_seff\_2006.eps added
- File DD\_mp\_bcri\_aii\_oc2pom2\_msa\_soa24\_0a16\_seff\_modes-mp\_bcri\_aii\_oc2pom2\_msa\_soa24\_0a16\_seff\_rel\_2006.eps added
- File AOD\_mp\_bcri\_aii\_oc2pom2\_msa\_soa24\_0a16\_seff\_modes-mp\_bcri\_aii\_oc2pom2\_msa\_soa24\_0a16\_seff\_2006.eps added
- File AOD\_mp\_bcri\_aii\_oc2pom2\_msa\_soa24\_0a16\_seff\_modes-mp\_bcri\_aii\_oc2pom2\_msa\_soa24\_0a16\_seff\_rel\_2006.eps added
- File DD\_AOD\_mp\_bcri\_aii\_oc2pom2\_msa\_soa24\_0a16\_seff\_modes-mp\_bcri\_aii\_oc2pom2\_msa\_soa24\_0a16\_seff\_2006.eps added
- File DD\_AOD\_mp\_bcri\_aii\_oc2pom2\_msa\_soa24\_0a16\_seff\_modes-mp\_bcri\_aii\_oc2pom2\_msa\_soa24\_0a16\_seff\_rel\_2006.eps added
- File AOD\_mp\_bcri\_aii\_oc2pom2\_msa\_soa24\_0a16\_seff\_modes\_saod-modis\_2006.eps added
- File AOD\_mp\_bcri\_aii\_oc2pom2\_msa\_soa24\_0a16\_seff\_modes\_saod-modis\_2006\_DJF.eps added
- File AOD\_mp\_bcri\_aii\_oc2pom2\_msa\_soa24\_0a16\_seff\_modes\_saod-modis\_2006\_JJA.eps added
- Status changed from In Progress to Resolved

##### #2 - 04/10/2015 02:27 PM - Twan van Noije

- Status changed from Resolved to Closed

#### Files

DD_mp_bcri_aii_oc2pom2_msa_soa24_0a16_seff_modes-mp_bcri_aii_oc2pom2_msa_soa24_0a16_seff_2006.eps	5452 KB	04/10/2015	Twan van Noije
DD_mp_bcri_aii_oc2pom2_msa_soa24_0a16_seff_modes-mp_bcri_aii_oc2pom2_msa_soa24_0a16_seff_rel_2006.eps	6024 KB	04/10/2015	Twan van Noije
AOD_mp_bcri_aii_oc2pom2_msa_soa24_0a16_seff_modes-mp_bcri_aii_oc2pom2_msa_soa24_0a16_seff_2006.eps	5926 KB	04/10/2015	Twan van Noije
AOD_mp_bcri_aii_oc2pom2_msa_soa24_0a16_seff_modes-mp_bcri_aii_oc2pom2_msa_soa24_0a16_seff_rel_2006.eps	6462 KB	04/10/2015	Twan van Noije
DD_AOD_mp_bcri_aii_oc2pom2_msa_soa24_0a16_seff_modes-mp_bcri_aii_oc2pom2_msa_soa24_0a16_seff_2006.eps	6984 KB	04/10/2015	Twan van Noije
DD_AOD_mp_bcri_aii_oc2pom2_msa_soa24_0a16_seff_modes-mp_bcri_aii_oc2pom2_msa_soa24_0a16_seff_rel_2006.eps	6682 KB	04/10/2015	Twan van Noije
AOD_mp_bcri_aii_oc2pom2_msa_soa24_0a16_seff_modes_saod-modis_2006.eps	7612 KB	04/10/2015	Twan van Noije
AOD_mp_bcri_aii_oc2pom2_msa_soa24_0a16_seff_modes_saod-modis_2006_DJF.eps	6542 KB	04/10/2015	Twan van Noije
AOD_mp_bcri_aii_oc2pom2_msa_soa24_0a16_seff_modes_saod-modis_2006_JJA.eps	6112 KB	04/10/2015	Twan van Noije