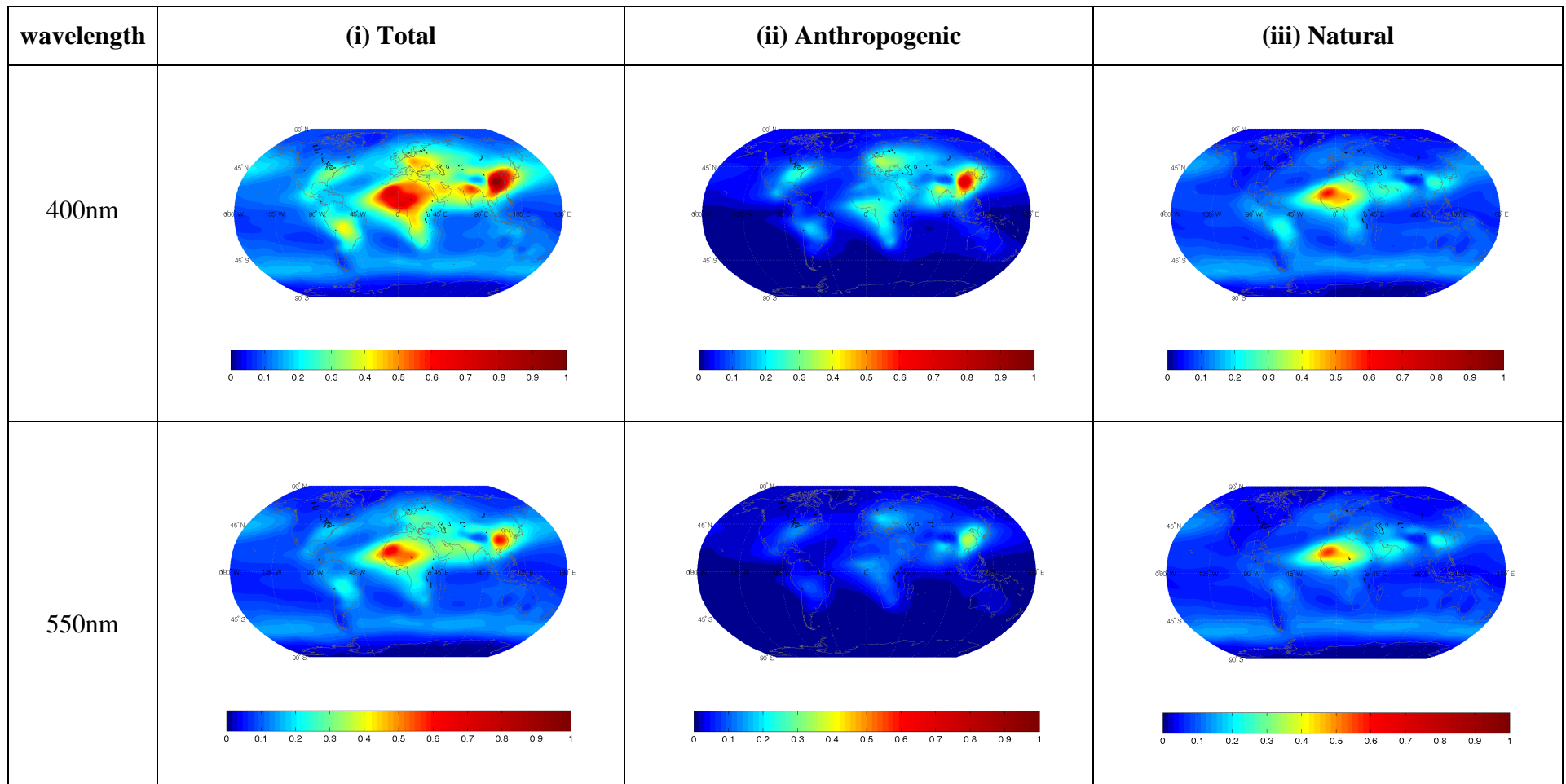
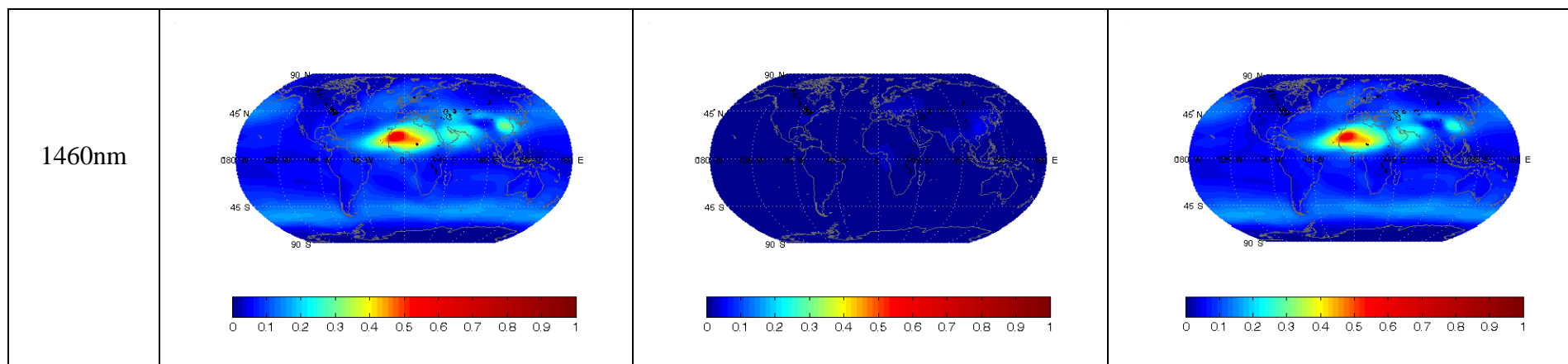


**Supplementary Material of paper acp-2012-925:**

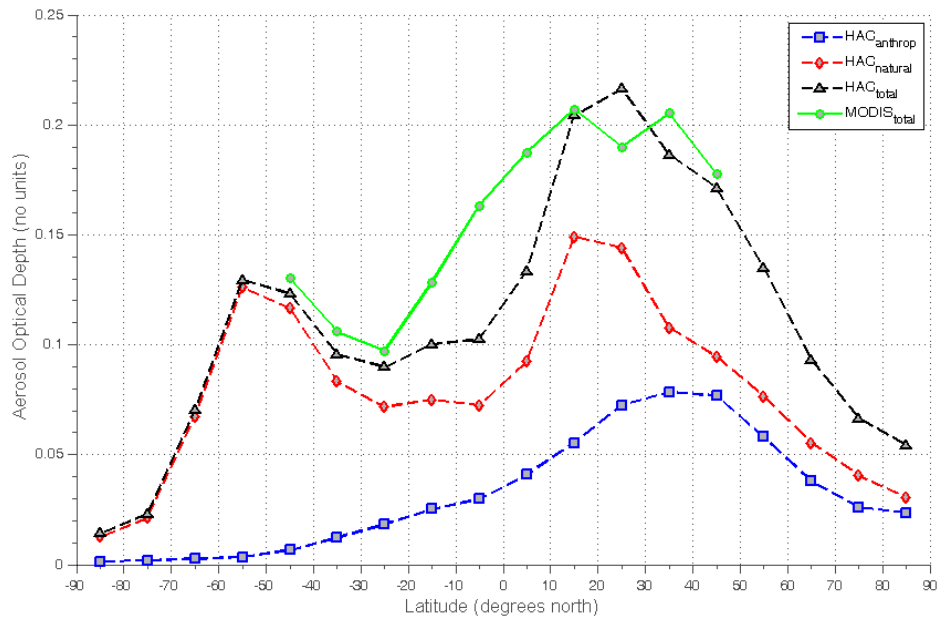
**Spatio-temporal variability of global Hamburg Aerosol  
Climatology and evaluation against MODIS and  
CALIOP data**

**by V. Pappas, N. Hatzianastassiou, C.D. Papadimas, C. Matsoukas, S.  
Kinne, I. Vardavas**

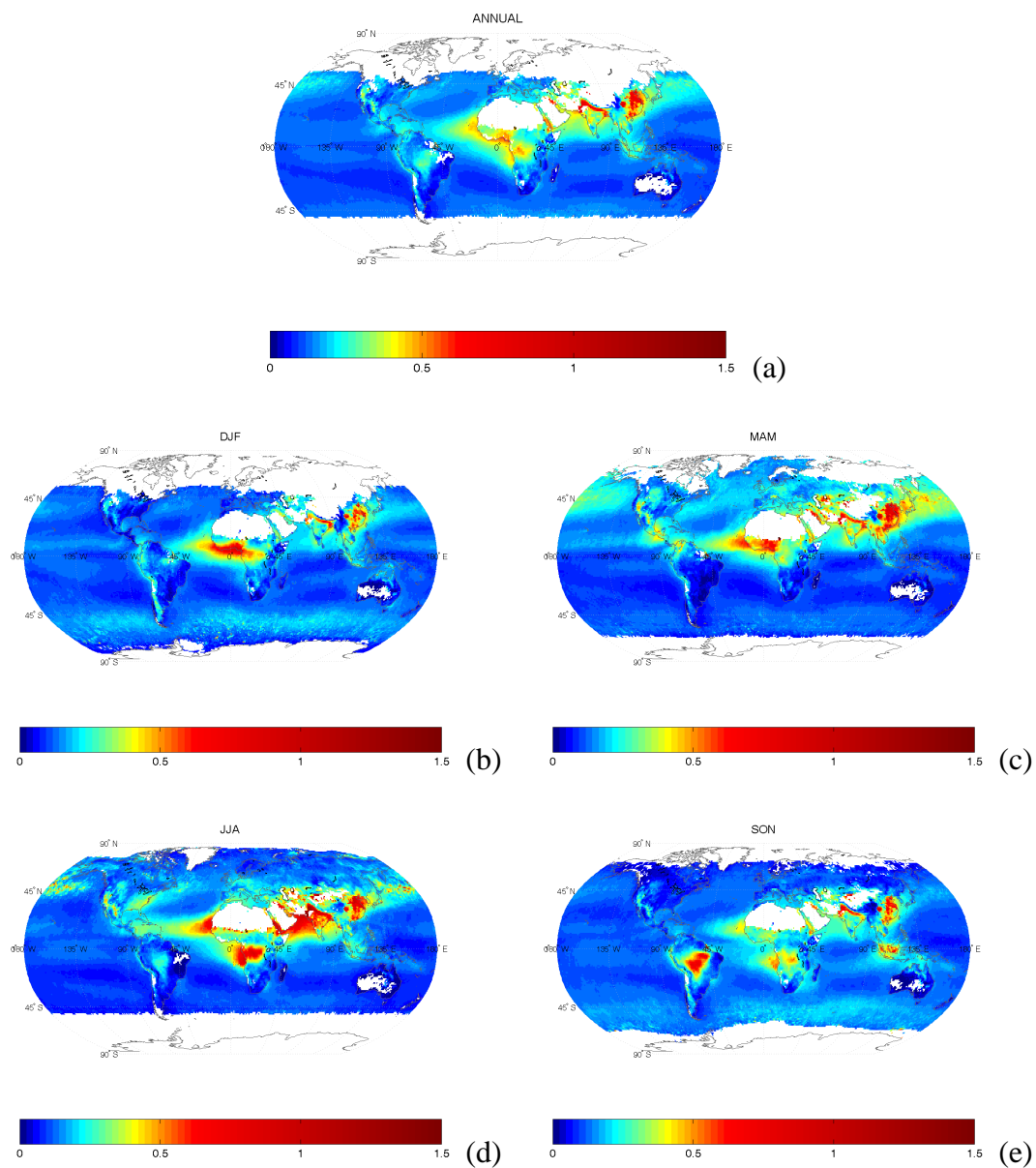




**Figure S1.** Hamburg Aerosol Climatology (HAC) global annual distribution of aerosol optical depth at 400 nm, 550 nm and 1460nm. Results are given for (i) total, (ii) anthropogenic (consisting of fine mode only), and (iii) natural (pre-industrial-fine mode + coarse) aerosol.



**Figure S2.** Zonal latitudinal variation of HAC AOD (550 nm) for natural (red line-diamonds), anthropogenic (blue line-rectangles) and total (black line-triangles) aerosol from all available grids. The corresponding variation is given for MODIS total AOD (solid green line-circles). The values are for the atmospheric column from the surface up to 20 km above mean sea level.



**Figure S3.** Global distribution of 7-year (2000-2007) mean annual (a) and seasonal means (winter-b, spring-c, summer-d, autumn-e) MODIS Collection 005 AOD at 550 nm.