

Response to emailed suggestion by anonymous:

Dear Cynthia,

With great interest I read your ACPD paper titled:

"Intercomparison of shortwave radiative transfer schemes in global aerosol modeling: results from the AeroCom Radiative Transfer Experiment".

The model description part provides a very good summary of about the radiation schemes used in current global aerosol models (especially I appreciate the description for the scheme used in ECHAM5.5). On the other hand, in my opinion, it would be nice to explicitly mention which radiation scheme is used in which global aerosol model. For example, the ECHAM5.5 radiation scheme is used in the ECHAM5-HAM2 model. The latter has been used in recent AeroCom A2 experiments. With this information, the modelers can better relate the conclusions from this work to those from other work (Myhre et al. 2012, Stier et al. 2012).

Thank you for your excellent suggestion. This information is given in Figure 8, but per your suggestion we've decided to add an additional table to the appendix that relates the radiation schemes in this inter-comparison to the global models considered in Myhre et al. (2013) and Stier et al. (2013).

Model #	Radiation Scheme (Randles et al., 2013)	AeroCom Prescribed (Stier et al., 2013)	AeroCom Direct RF (Myhre et al., 2013)
3	Oslo-DISORT	OsloCTM2	OsloCTM2
8	GSFC-FL	--	GMI
11	CAR-RRTMG	CAM-PNNL and GEOS-CHEM	CAM5.1
12	RRTMG-SW	CAM-PNNL and GEOS-CHEM	CAM5.1
14	MPI-2stream	MPI-2stream	--
15	CAR-GSFC	GOCART GEOS-4 and GOCART MERRA	GOCART
16	BCC-RAD	--	BCC
18	ECHAM5.5	ECHAM-HAM2	ECHAM5-HAM
24	UKMO-HadGEM2	HadGEM2-ES	HadGEM2

Table A5: Synergy across AeroCom Phase II Aerosol Radiative Forcing experiments.