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Aerosol direct radiative effect efficiency (ADREE), aerosol optical properties and surface albedo - comparison between simulations of models and results derived with measurements

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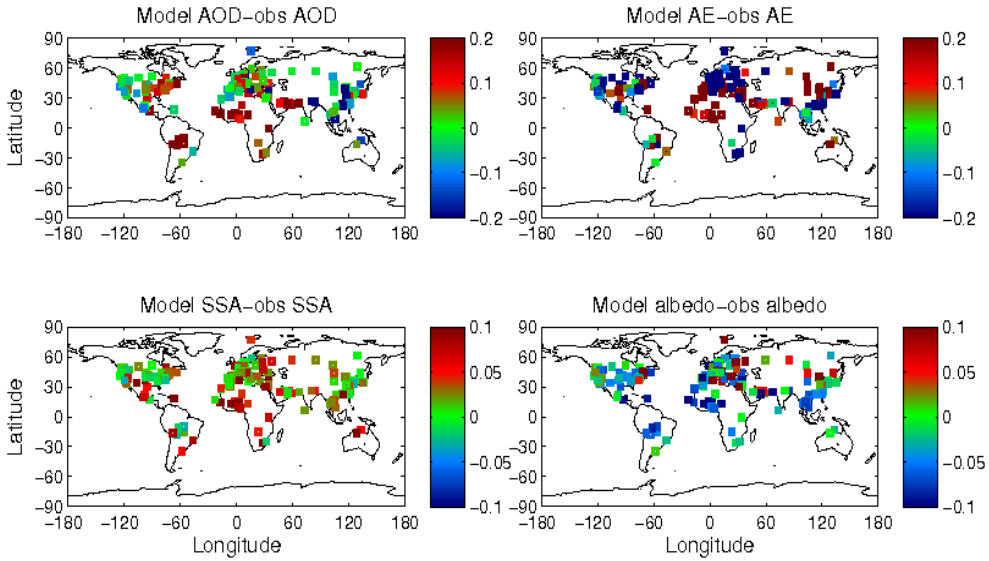
The aim of this study: **to compare models with observations and examine possible discrepancies**

Parameters: **ADREE, aerosol optical depth, Ångström exponent, single scattering albedo and surface albedo**

Status: **all the fields from five models, still waiting from others**

Schedule: **model fields before the end of October and then finalize the analysis**



The difference in AOD, AE, SSA and albedo between modeled and observations regionally. Oslo CTM2 with AERONET.

-Surface Upward Radiation **(RSUS)**

- Downward **(RSDS)**

- Clear sky cloud-free **RSDSCS** (**CTRL** and **ZERO**)

- AOD (**od550aer**, also **od440aer** and **od870aer** for Ångström exponent)

- Absorption AOD (**abs550aer**)

Hopefully table's empty parts are filled in the end of October. **Thank you!**

Model	RSUS	RSDS	RSDSCS	RSDSCS ZERO	od550aer	abs55aer	od440aer	od870aer
CAM4-Oslo	X	X	X	X	X	X	X	X
Oslo CTM2	X	X	X	X	X	X	X	X
HadGEM2	X	X	X	X	X	X	X	X
GMI	X	X	X	X	X	X	X	X
MPIHAM	X	X			X	X		
SPRINTARS	X	X	X	X	X	X	X	X
GISS-Matrix		X	X		X	X		
GISS-modelE		X	X		X	X		
CAM5	X	X	X		X	X	X	X
BCC	X	X	X		X			
LSCE								
GOCART	X	X	X		X	X	X	X
SALSA	X	X			X	X		
SK								
TM4					X			
TM5					X	X	X	X
More?								

Table updated in 18.9.2013