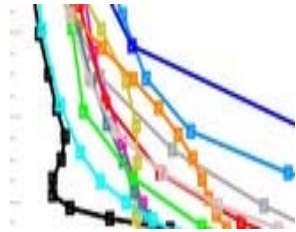


“Final remarks”

<http://aerocom.met.no>



Pdfs of presentations and posters



PDFs will be posted on AeroCom website

Oral and poster presentations !!!

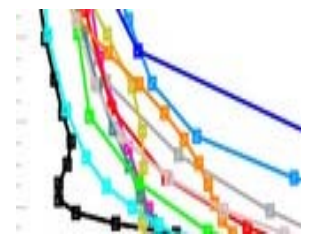
Password protected for AeroCom participants

Please send “updated if needed” pdf to Stefan Kinne

CHECK your entry when we send you an email



Timeline



IPCC submitted paper deadline July 2012

that implies

Deadline for “primary” phase II submissions

End of October 2011

with model corrections End of November 2011

Drafts for circulation in AeroCom among coauthors

End of February 2012

Call for further AeroCom analysis March 2012

Beyond IPCC

Aerocom data policy (1)

- Aerocom model data represent a voluntary based common information source on global aerosol modeling. The model data have been assembled for the purpose of advancing aerosol science and help assessments such as the IPCC to reduce uncertainty in aerosol climate forcing. This data policy concerns the model data contained on the AeroCom datasever and visualizations accessible via the AeroCom web interface. It also informs about the terms of usage of the observational data stored on the Aerocom datasever.

Aerocom data policy (2)

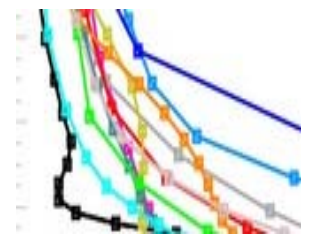
- 1) Papers based on from one or several individual models should label the individual models and associated AeroCom experiment, reference the models and offer co-authorship to the respective modelling groups (typically one author each) and to one of the AeroCom coordination team members.
- 2) Papers based on average/median/composite results of AeroCom models should offer co-authorship to the respective modelling groups if these results constitute the main part of the publication.
- 3) However, if the AeroCom model results constitute only a minor part of a publication (e.g. papers describing mainly measurements) no co-authorship is required but: i) the work should be made available to the respective modelling groups before publication (e.g. 2 weeks) for commenting, ii) these modelling groups should be acknowledged and iii) all models used in composites and respective AeroCom experiments and overview publications should be referenced explicitly (see AeroCom website) to ensure reproducibility. iv) Any author using AeroCom model results should notify the modellers of the citation once the paper is published.

AeroCom data policy (3)

- 4) When using AeroCom results **appropriate referencing** is required to one or several of the articles, which provides an overview and document the AeroCom modelling activity (see references on webpage)
- 5) **Usage of observational datasets stored on the AeroCom data server require that the respective data authors are contacted** before any publication type of use is made of these data.
- 6) **Images from the AeroCom web interface and information herein are a preliminary information source** and shall not be used in any publication without acquiring agreement from model authors and the AeroCom coordination team. Images may be used for presentations to discuss model results, indicating “Source AeroCom”.



New AeroCom facilities at met.no



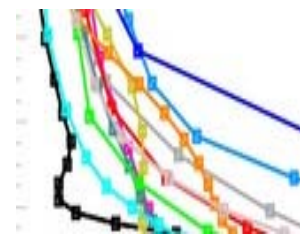
With user account provided “immediately”

contact jan.griesfeller@met.no

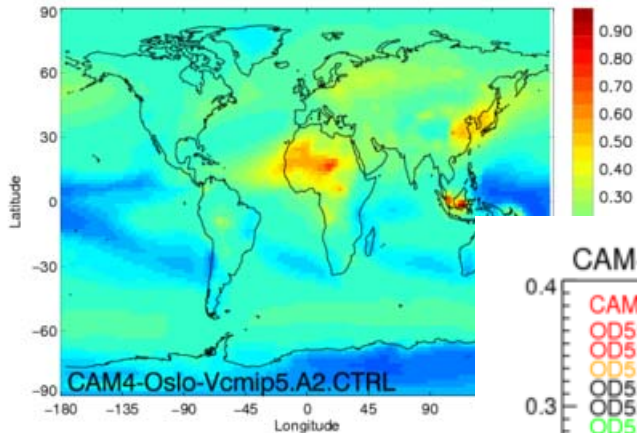
- web => <http://aerocom.met.no/>
(will hold uploadable emissions, median model)
- ftp server => <ftp.aerocom.met.no>
(no removable after 10 days.....)
- wiki => <https://wiki.met.no/aerocom/start>
 - User overview, model documentation, Data policy
- User server => aerocom-users.met.no
(under construction)
- Email lists => aerocom-modeller@lists.met.no
aerocomc@lists.met.no (broader announcement)



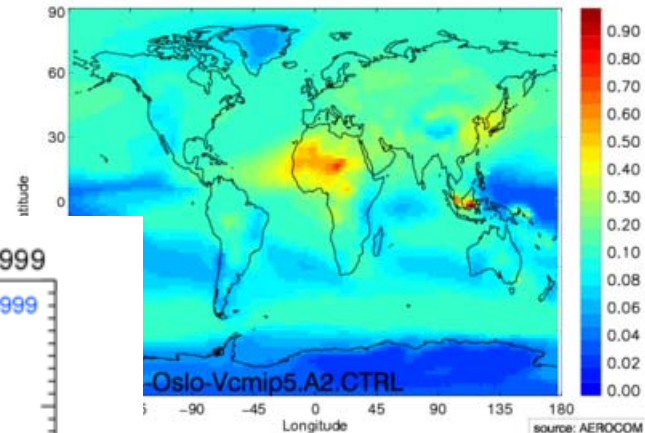
What is clear sky and all sky AOD?



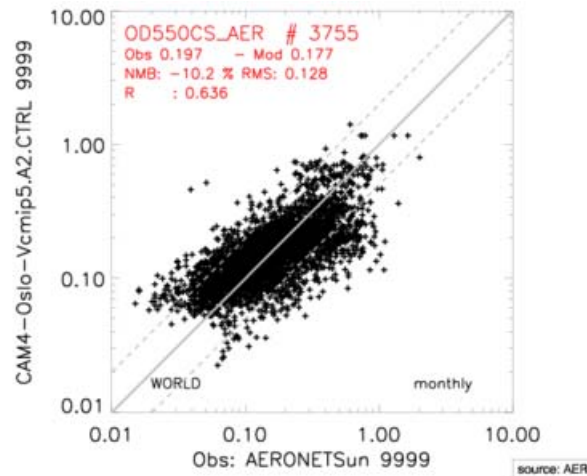
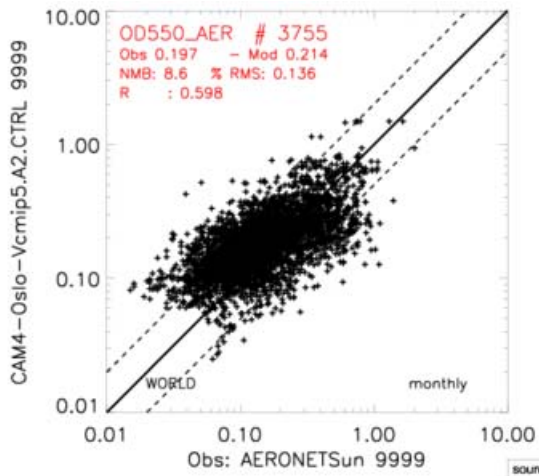
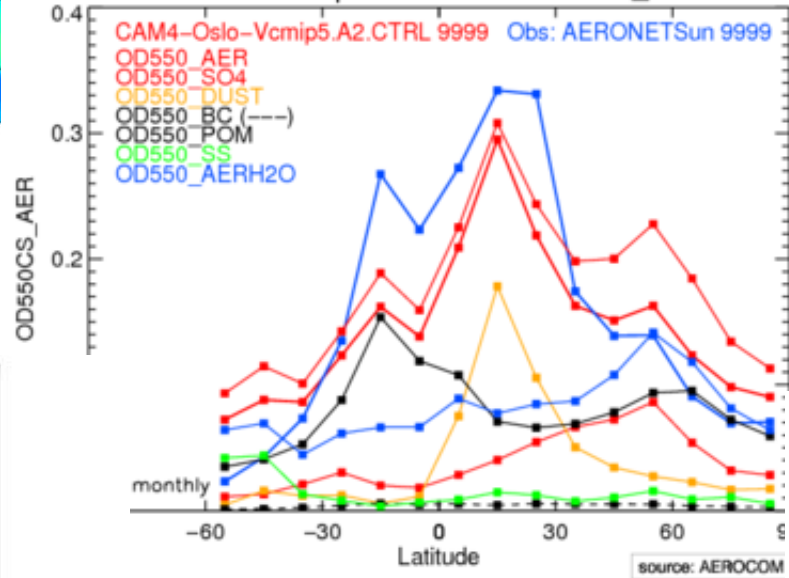
OD550_AER 9999 mean 0.153



OD550CS_AER 9999 mean 0.128



CAM4-Oslo-Vcmip5.A2.CTRL OD550CS_AER 9999



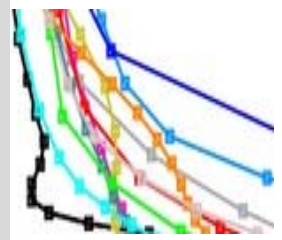
Questionary on Optical Properties

https://wiki.met.no/aerocom/optical_properties

- 1) Do you assume and how internal mixing?
- 2) Do you differentiate between clear-sky and all-sky relative humidity ?
- 3) Which is reported-to-AeroCom AOD?) used for RF calculations?
- 4) Would you consider this AOD provided as representative for clear-skies obs such Aeronet and satellite retrievals
- 5) Assumptions on RH in clear skies?
- 6) Which humidity growth factor? Do you include sub-grid variability in RH
- 7) Do you diagnose the aerosol water mass or aerosol water AOD?
- 8) Is the diagnosed sea salt and sulfate AOD computed at ambient RH?
- 9) Do you average nighttime and daytime values of AOD into daily averages?
- 10) What is the single-scattering albedo of your BC, POM, DUST? $F(\text{size})$, $f(\text{RH})$?
- 11) What is the absorption coefficient of BC
- 12) Please provide the refractive index at 0.55 microns for each aerosol species?
And eventually further information on the hygroscopicity for each species.
AND ITS WAVELENGTH DEPENDENCY



What observations do we need



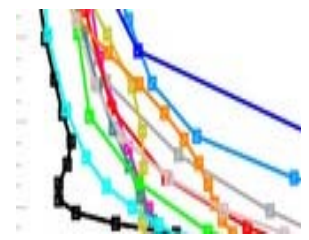
- Regional data gaps
 - Where should we put supersites?
 - How to make available data for comparison?
- Which campaigns to propose?
- Quality understanding
- Representativity of stations
- How to use EC and absorption data?
- Assimilation products as reference?

Call for AeroCom Analysis

- Template for announcing an analysis topic will be on the wiki page
- Name, contact, objective, committed models participating, diagnostics required, documentation requested, deadlines, observational data used,



Indirect effect working group



Follow up telephone conference in ca 1-2 months

Cloud susceptibility documentation

Perturbation of process parameter

Ice phase

Aqua planet

Semi-direct effect ? (...IPCC gap)

Workshop on further studies and observational constraints

AeroCom joint Analysis Topics

EMISSIONS

Thomas Diehl / Angelika Heil An AeroCom hindcast emission dataset
emission uncertainty?, preindustrial aerosol?

MODEL EVALUATION

Kostas Tsigaridis Organic aerosol model evaluation

Michael Schulz AeroCom Median Model and model evaluation

Brigitte Koffi Caliop v3 Vertical profile evaluation phase II

Brigitte Koffi Caliop v3 Vertical profile evaluation phase II

Elisabetta Vignati Exploring EC and absorption EUSAAR for AeroCom

Graham Mann Size distribution evaluation

Jianrong Bi Model evaluation over Loess plateau in Northwestern China

Kazuma Oki Aerocom model evaluation with SKYNET data

Daisuke Goto Bridging ABC and Aerocom (Nakajima pers comm.)

P. Suntharilingam Natural sulphate in Southern Ocean Atmosphere

AeroCom joint Analysis Topics

DIRECT EFFECT

Gunnar Myhre Direct Radiative Forcing

Bjorn H. Samset Vertical distribution

Michael Schulz Best guess of forcing relevant aerosol fields

Cynthia Randles AeroCom model solar radiative transfer schemes

Philip Stier Prescribed aerosol optics impact on radiative forcing

Jani Huttunen Direct radiative effect efficiency at surface

Mark Flanner Black Carbon on Snow

AeroCom joint Analysis Topics

INDIRECT EFFECT

Yi Ming Process parameterisation perturbation

Kari Alterskjaer Cloud susceptibility documentation

Xiahong Liu Aerosol effects on precipitation

HINDCASTS

Mian Chin Satellite AOD trends and surface radiation in hindcasts

Dongchul Kim Dust export to Atlantic

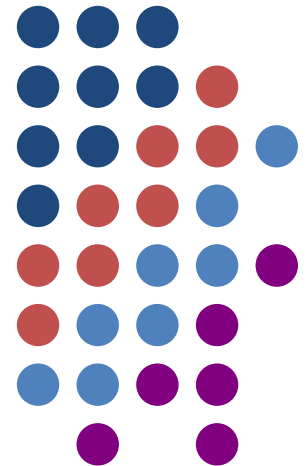
Mian Chin Arctic transport from HTAP regions

Michael Schulz Sulphate and AOD evaluation in hindcast simulations

Kyu-Myong Kim Dust trends and Monsoon

Nicolas Bellouin Comparing CMIP5 and Hindcast simulations

AeroCom 2012



U of Wash. Seattle, Sep 10-13, 2012

ANY CONFLICT WITH THE DATE???

