

11th AeroCom workshop

Final remarks

Michael Schulz; Stefan Kinne; Mian Chin

AeroCom Infrastructure

- Database quality check (*Michael, Bjorn, Nick, Mian, Jan, Stefan*)
- Regular working group updates via aerocom-modeller email list (request to “report” will come)
- CF checker for new upload of data
- wcs and/or opendap server to link with interactive extraction tools
- ACP special issue to combine previous and new AeroCom papers

Consolidating phase II

- Prescribed forcing Experiment !!!!
- Last minute forcing fields => 1 November
3D cloud fields, cod, cloud fraction, lwc
- Combining Forcing, prescribed forcing, and other model insight , *Gunnar, Philip, Bjorn*
- Hindcast dataset, extending up to 2010? ++ PNNL, GeosCHEM-APM, ECHAM-HAM, OsloCTM, +?? *Mian*
More evaluation of trends???
- BC surface absorption and EC in Europe
Michael&Elisabetta
... extension to Improve, trends, extinction?

Consolidating phase II

- AeroCom overview paper for BAMS (*Michael, Stefan, Mian & Gunnar et al*)
- Aeronet & satellite data evaluation (*Michael&Stefan*)
- Sulfate evaluation (*Cathrine Myhre, Wenche Aas, NILU*)
- Caliop II (*Brigitte, Francois-Marie, Dave*)
link to HSRL data ?? Rich
- Size evaluation *Graham et al.*

Indirect effect evaluation

- Proposed experiments shall be sent to Steve
- Common diagnostics proposal by Steve with Susanne, Trude, Philip, Yi, Joyce, Xiahong, Stefan, Johannes

Based on AeroCom, ACCMIP, CMIP5, COSP simulators; which temporal resolution? preprocessing during model run?

- Naming of experiments proposal
- Which data testbeds can be developed?
Vocals, South Atlantic?

Open subjects (I)

- Nitrate and Ammonium evaluation
(Didier Hauglustaine, Huisheng Bian, ++)
- All-sky-clear-sky RH growth recommendations and clarifications Kai, Alf, Mian, Michael
- Biomass burning height 2008 experiments? MISR injection heights, Maria, Mikael Sofiev
- Dust transport out of N-Africa (Dongchul Kim)
- Dust source revision, Anthropogenic dust, Paul, Yves
- Emulators for other problems and models?

Open subjects (II)

- BC deposition on snow, Mark Flanner
- BCMMR profiles vs HIPPO Shuka Schwarz
- BCMMR profiles vs AFORCE, Yutaka Kondo
- Consistent BC global distribution?

- Secondary organic aerosol constraints, recommendations for modelling
- Parameterization of marine POC

Open subjects (III)

- Shall we explore future scenario with higher aerosol loads? Is that done in HTAP?
- Preindustrial aerosol emission estimates and implications for forcing
Can we construct a preindustrial emission dataset consistent with ice core data
Simulations of preindustrial transport to arctic and antarctic?

Open subjects (IV)

- Climate model response to idealized aerosol forcing fields (direct+indirect)
Hemispheric aerosol effect on shift in precip,
Monsoon, Range of response for SLCF,
detection of aerosol effect in historic
simulations
 - Michael, Philip, Nick, Björn, Sandrine, Drew,
Nicolas ++

Recommendations for model development

- Secondary aerosol and nitrate should be included in model
- Include all AeroCom diagnostics as standard option
- Clarify all-sky and clear-sky AOD calculation

12th AeroCom workshop

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12th AeroCom workshop

10 years AeroCom

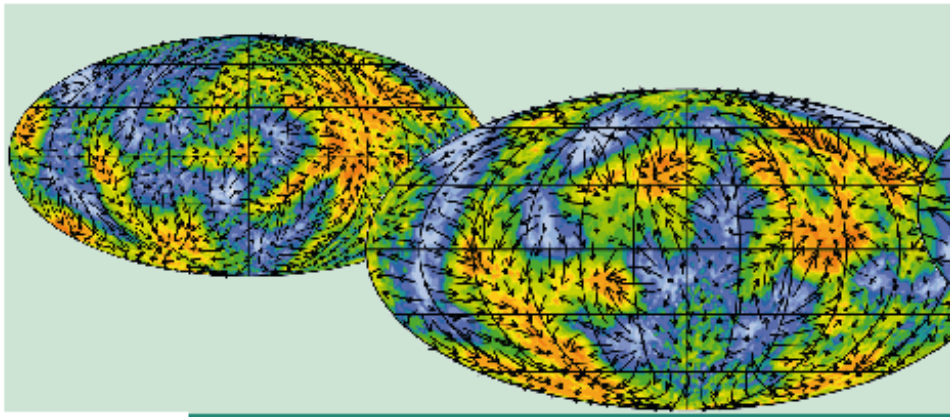
end of Sept 2013

Hamburg



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Including the AOD prediction contest
Model, Satellite, Expert
Versus
Microtops measurement

