new ideas ...

session 2

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focus !

- How to make better use of data capabilities?
 - need to use observations in a more systematic way
 - at least focus on particular regions or seasons
 - with interpretation by mesoscale models ?
 - possibly look at individual sites
 - with interpretation by LES models ?
 - collaborate with other communities
 - actively participate in planning focused of (longterm) experimental setups
 - commit to data-use

OCA global is not good enough

- stratify global data for analysis (space, time)
- how ?
 - test model performance 'at the slowest pitch' the best sampled regions (US, EU)
- how can we dig deeper into the models and validating model?
 - isolate process in space and time
 - identify cancellation of error cases

future sub-groups items (1)

- how to reduce uncertainty in forcing ?
 which variables and relationships are essential ?
- how to understand temporal trends
 - commitment of ALL models to do the 'hindcast'
 - use model (ensemble) to understand / interpret
- what are near/far away source differences
 - why do model underestimate Arctic Haze
 - missed biogenic sources? transport ? emissions?
 - do we have data ? (Barrow since 1988 sufficient?)

future sub-groups items (2)

- how to improve the emission inventories?
 - is inverse modeling a solution for corrections?
 - collaborate…

 how does climate sensitivity relate to (aerosol) radiative forcing?

update Jeff Kiehl's approach with AeroCom models

• how to test aerosol-precip. assumptions?

- single well equipped sites hold more quantitative promise than Cloudsat data
- stratify data on precip type according to model

tools

- better inventory (description) of modeling
 - aerosol modules
 - climate modeling host
 - model input (e.g. emissions)
 - ancillary data
- can we come up with a more appropriate set of metrics?
 - co-variance
 - quantitative scores
 - ... but how to avoid mis-conceptions