Literature Review Presentation

For a final class presentation, you will review a topic related to the content of this class. They will be held during our final exam period, Thursday May 15 from 11:50-1:50pm.

1. ***By Tuesday May 6, talk to me about what you plan to do and show me 1-2 papers you plan to include.***
2. ***No later than 10am May 15 please email me your slides.***
3. ***Give your presentation***

Project Possibilities

Choose a class-related topic to do a literature review on, and present to class. 20-25 minutes per presentation. This will leave time for questions but keep each person under 30 minutes total.

Some Possibilities:

- Modeling shortwave fluxes and associated biases (long-standing difficulties here).
- 3D RT effects associated with clouds & precip
- RT effects associated with non-spherical particles
- Effects of oriented cirrus particles on vis/IR radiances
- Polarization effects from aerosols, precipitation, ice, land surfaces, etc– observations and/or modeling (any waveband).
- Correlated-k distributions / modeling scattering over large wavelength ranges for weather/climate models.

Presentation Components

The overall flow of the presentation should be "past-present-future" of the problem or topic. First, be sure to give a solid introduction to the topic and put it in context. Why do we care? What science problems will this help to solve? What is the history of trying to solve this problem? I am a big fan of history so really try to put the topic in context.

After this part, try to focus on one or two papers especially if there was a break-through that essentially solved the problem or made a big leap forward. If not, state the situation now and if there is any more work to be done to "solve" the problem, extend the applicability of the issue or method, etc. If there is a big future to the topic, talk about that at the end.

Throughout the talk, try to connect to ideas from class when possible.