



NCAR Junior Faculty Forum
2010: Topic 2
Biomass Burning
Goals, Objectives, and
Charge to Meeting

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Who Is Here?

- A highly diverse group of scientists
 - Atmospheric chemistry
 - Aerosols and radiation
 - Climate change
 - Air quality forecasting
 - Weather forecasting
 - Ecology
- Biomass burning is an integrative process that bridges all these components of the Earth system

Why Are We Here?

- For some scientists, biomass burning is an end;
- For others, biomass burning is an obstacle;
- For most of us, it's a bit of both
- So, we are here to:
 - Share current knowledge of BB
 - Discuss the nature and outlook of BB uncertainties
 - Discuss how our experiments (and reporting) can most rapidly reduce those uncertainties
 - Discuss experimental practices for studies whose end is not BB
 - Get to know each other and each other's work

Where Are We in 2010?

- We are at the crest of a wave of observations
 - Observations of biomass burning
 - Observations of atmospheric composition
 - Observations of the land surface
- We have numerous BB emissions products for atmospheric models
 - Now it's time to start using them
- Basic results from bottom-up and top-down efforts to constrain BB emissions: daunting
- Successful constraint will require combining
 - The process-based approach of terrestrial models
 - The observational leverage of atmospheric simulations

How's This Meeting Going to Go?

- We have lots of great speakers!
 - Great speakers leave time for questions
- Session 1 (Ed): Observations of BB & Estimation of Burning Emissions
- Session 2 (Jun): Atmospheric effects of BB
- Session 3 (Ave): Atmospheric signal of BB emissions and inverse modeling
- Thursday morning: Identification of community priorities and meeting outcomes

What Are the Outcomes?

- We have limited time for discussion
 - Ask questions
 - Speak your mind
 - Stay focused
 - The conversation will not end on Thursday
- We are charged with preparing a note for BAMS about this meeting
- So let's begin