CCSM CHEMISTRY-CLIMATE WORKING GROUP MEETING

AGENDA

Co-chairs: Michael Prather, University of California, Irvine, and Peter Hess, NCAR

The Village at Breckenridge, Blue River Room
Thursday, 20 June 2005
9:00 AM – 5:00 PM

8:30 AM-9:00 AM Continental Breakfast

9:00 AM-9:20 AM Introductions (Hess)
Working Group Structure
Meetings & Schedules
Resources
Entrepreneurial Versus Community Model Development
Responsibilities and Obligations
Integration with the CCSM

9:20 AM-9:30 AM Work Plan – Set the Objectives for this Meeting (Prather)
Define Scientific Priorities on Various Timescales
Define Project Goals and Deadlines, such as IPCC AR5
Determine Development Priorities and Necessary Resources
Establish National/International Community Involvement

9:30 AM-11:00 AM State of the Chemistry-Climate Model (Prather)
Current Released CCSM Modules and Capabilities (Rasch) – 20 min
- Overview of the CCSM
- Components of Atmospheric Model: Boundary Layer, Clouds, Convection . . .
- Transport
- Likely Changes in Model Physics
Atmospheric Chemistry in the Development Branch of CAM (Hess and others) – 20 min
- Online/Offline Transport Versions
- Chemical Preprocessor
- Scavenging and Dry Deposition
- Fast TUV Photolysis
- Tropospheric Chemistry and Aerosols
- Emissions Modules
- Coupling with Other Components of CCSM
- Planned Upgrades
Atmospheric Chemistry in Other Branches of CAM/MOZART-3 (Kinnison) – 10 min
- Stratospheric Chemistry and Heterogeneous Processes
- Photolysis
10:30 AM  Break

Discussion
   Relation to Other Major Atmospheric Chemistry Modeling Projects (e.g., GMI, LLNL, Cactus, EU Projects)
   Obvious Model Deficiencies (Near and Far Term)

11:00 AM-12:00 PM  Meeting Objectives – I (Prather)
   Define Scientific Priorities on Various Timescales (i.e., Main Challenges in Atmospheric Chemistry Over the Next 2, 6, 20 yrs.)
   Define Project Goals and Deadlines, such as IPCC AR5 . . .

12:00 PM-1:00 PM  Lunch (on your own)

1:00 PM-2:30 PM  Contributed Talks from Group Members (Hess)
   Interesting Science, Collaboration, Contribution to CCSM (short: 10 min, 2 slides per)

2:30 PM  Break

2:30 PM-4:30 PM  Meeting Objectives – II (Hess)
   Carryover from Part I
   Determine Development Priorities and Necessary Resources
   Establish National/International Community Involvement
   Other Issues

4:30 PM-5:00 PM  Meeting Summary (Prather)

5:00 PM  Adjourn