Mantle Convection

Education & Training Activities
Software

- CitcomS
- CitcomCU
- Ellipsis-3D
- ConMan
- Education & Training
  - Focus on CitcomS
Education & Training Activities

• Manual with Cookbooks

• Hands-on time at workshops
  – Learn to install
  – Learn to run simple cookbook examples
  – Learn how to change some parameters.
Workshops

• 2005, Univ. of Colorado
  – Mantle Convection Workshop
    • Problems getting software installed dominated training

• 2007, EarthScope (Monterey Bay)
  • Pre-instruction on installing before arriving
  • Time to get cookbooks to run.

• 2008, UC Davis
  – Mantle Convection & Lithosphere Dynamics Workshop
    • Short tutorials on codes & numerical methods (e.g., multi-grid).
Participant Feedback

• Like:
  – Training sessions
  – Cookbook examples
  – Helpful and responsive staff
  – Tutorials (code & methods)

• Need:
  – Road-maps through the codes
    • Identify those parts of the code a user is likely to modify (BC, IC, rheology, I/O).
What else is needed?

- Training beyond the basics
  - Create different levels of training
    - Beginner:
      - install & run cookbooks 1-3
    - Intermediate:
      - modifying B.C. (kinematic time-dependent), using tracers, (cookbooks 4-8)
      - includes some reading/modifying code
    - Advanced:
      - Code coupling (Nested CitcomS; Cookbook 9)
      - includes some reading/modifying code
What else is needed?

- Training beyond the basics (continued)
  - Where/when?
    - At meetings/workshops?
    - Summer-time at CIG in Pasadena?
    - Summer-time with CIDER?
  - Instructors?
    - Current users
    - CIG Staff
  - Students?
    - Graduate students
    - Researchers/faculty