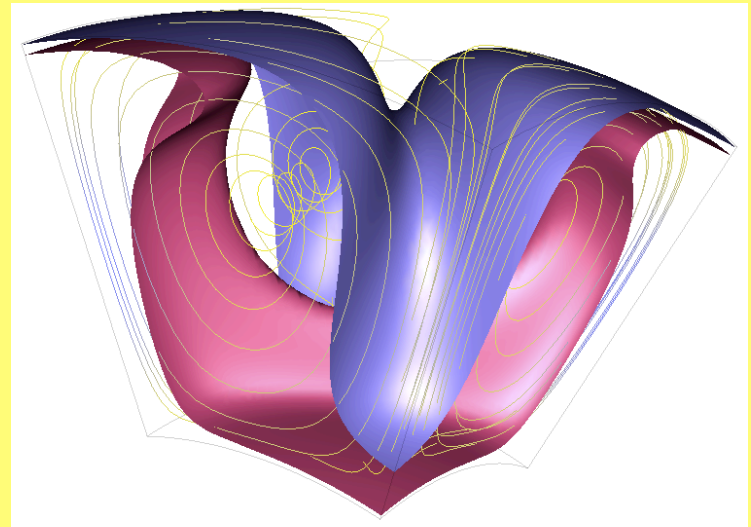
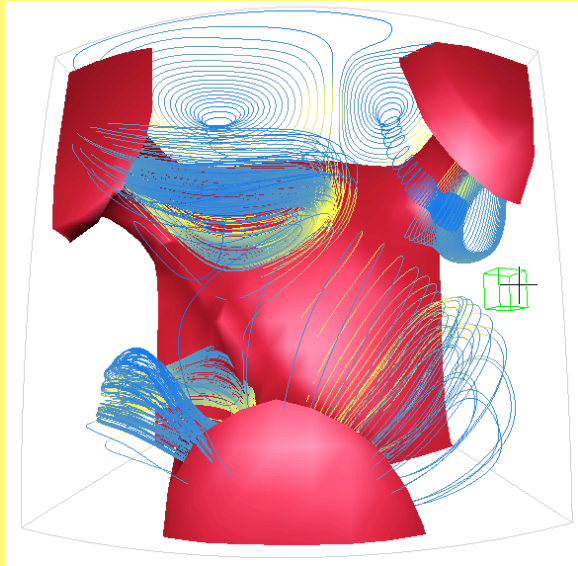


# Mantle Convection



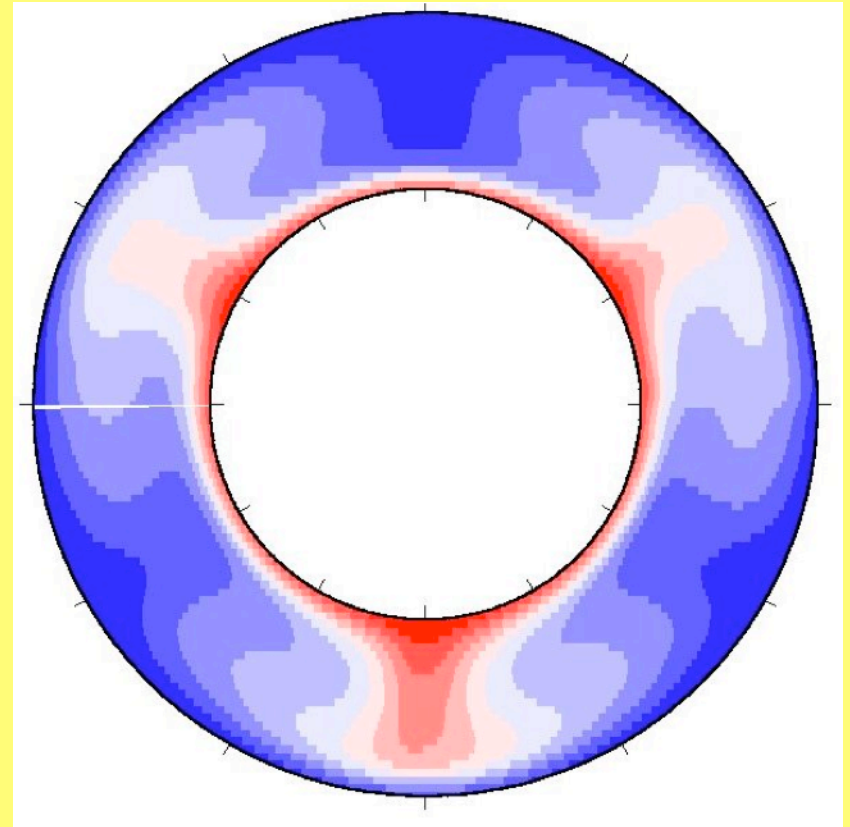
## Education & Training Activities

March 31, 2009

CIG Future/Planning

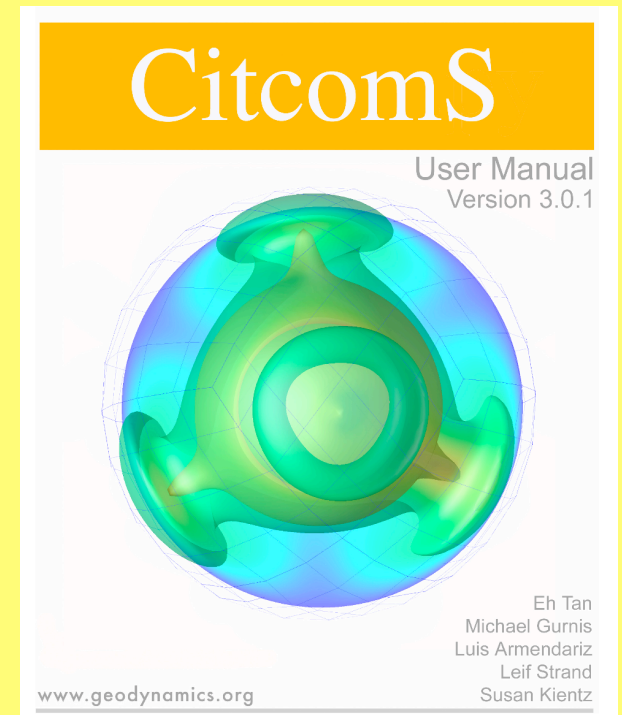
# Software

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



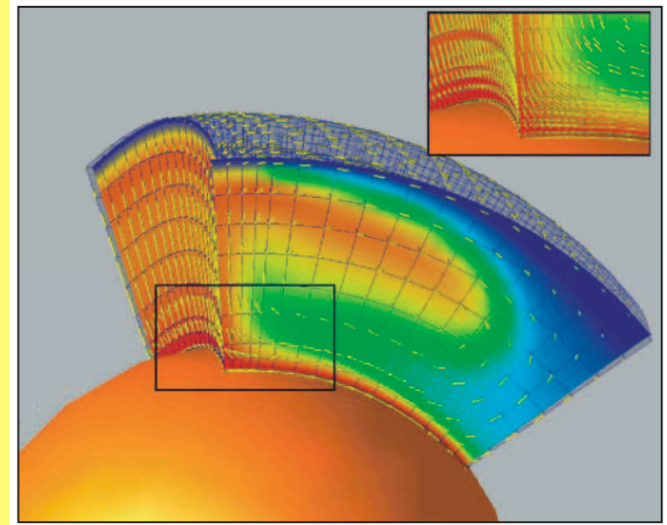
# Education & Training Activities

- Manual with Cookbooks
- Hands-on time at workshops
  - Learn to install
  - Learn to run simple cookbook examples
  - Learn how to change some parameters.



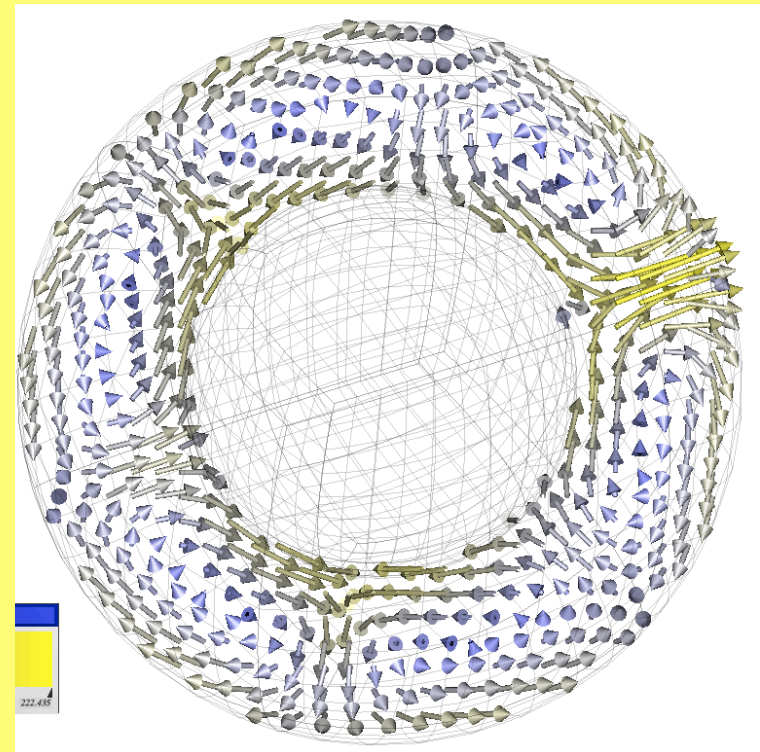
# Workshops

- 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).



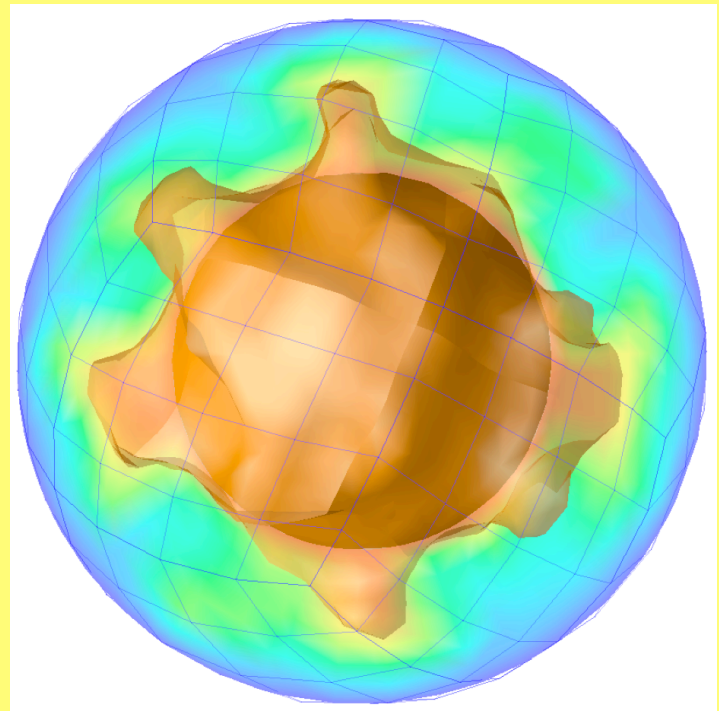
# Participant Feedback

- 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

