

# CIG Business Meeting

December 11, 2007

NSF Reverse-Site Visit, November 28, 2007

Brad Aagaard

# Reverse-Site Visit to NSF

Coordinated by Robin Reichlin

- Progress report to Division of Earth Sciences (EAR) staff
- NSF-wide presentation on CIG
- Joint meetings with EAR and other divisions
  - Extend awareness of CIG and its activities
  - Potential collaborations and funding opportunities for CIG-2

# Participants

- CIG
  - Mike Gurnis, Director
  - Marc Spiegelman, Chair of the EC
  - Brad Aagaard, Chair of the SSC
  - Omar Ghattas, Member of the SSC
  - Peter Olson, EC member and previous chair of the SSC
- NSF staff
  - Division of Earth Sciences (EAR)
  - Division of Ocean Sciences (OCE)
  - Office of Cyberinfrastructure (OCI)
  - Division of Mathematical and Physical Sciences (DMS)

# Looking Beyond August, 2009

## Current Five-Year CIG Strategic Plan

- Most short-term goals outlined in NSF proposal have been achieved
- Substantial progress in achieving original long-term goals
- Synopsis of CIG activities
  - Apply methods developed in other disciplines to geodynamics
  - Rapidly approaching limit of current methods
  - Forward progress will require innovations in computational science
- CIG should seek proactive collaborations with the computational science community
  - Ensure new developments in computational science target difficulties in geodynamics
  - Enlighten computational science community of challenges in geodynamics
  - Bring new, untapped talent to geodynamics community

# Tentative Vision for CIG-2

Geoscience focus but add collaboration with computational science

- Core computational infrastructure and community organization
  - Maintain computational infrastructure and support
  - Limited software development
  - Potentially funded through Division of Earth Sciences (EAR)
- Research in computational science and applied math targeting obstacles in geoscience
  - Focus on areas impeding progress in multiple working groups
  - Potentially funded through Office of Cyberinfrastructure's Cyber-enable Discovery and Innovation (CDI) initiative

# Preparing for CIG-2

Leverage positive reaction from various NSF divisions

- NSF sponsored joint geoscience and computational science/applied math workshop
  - Identify areas of mutual interest for collaborative research
- Refine vision of CIG-2 organization and activities
  - Maintain cohesive community
  - Desire flexibility in seeking most fruitful partnerships
  - Support innovations in computational science and their application to geodynamics

# Timeline for Proposal to NSF

**Feb 15, 2008** Magma proposal due with NSF MG&G

**Sep 1, 2008** Final year of CIG starts

**Sep 15, 2008** Submit letter of intent to CDI

**Aug 1–Oct 15, 2008** Prepare CDI preliminary proposal

**Oct 15, 2008** Submit preliminary CDI proposal

**Early 2009** Full CDI proposal due

**Jul 9, 2009** EAR Geoinformatics proposal due

**Aug 31, 2009** CIG ends - Fund transition with

- Carry over
- Existing small OCI funding
- Potential MG&G funding