2011-2016 Work Plans

Short-Term Tectonics Priorities

Short-Term Tectonics Working Group priorities for Mar 2011 – Jan 2016.

Immediate, Urgent goals

SOFTWARE DEVELOPMENT

- PyLith development (For more details see PyLith Development Plans)
- Bring semi-analytic codes (layered elastic and viscoelastic, internal and surface loads) under version control. Add documentation as necessary and provide portability via a standard build procedure. (POLLITZ?)
- Establish interaction with computational seismology group on meshing issues (e.g., keep up-to-date on the development of Geo-CUBIT).

COMMUNITY ACTIVITIES

Provide training via virtual workshops
 Initial virtual workshop tentatively scheduled for Jun 20-22, 2011. We would likely schedule virtual workshops to immediately follow releases in order to get users up to speed on changes and new features. We could also have community workshops focused on solving a specific type of problem or dealing with a specific computational or workflow issue (e.g., meshing).

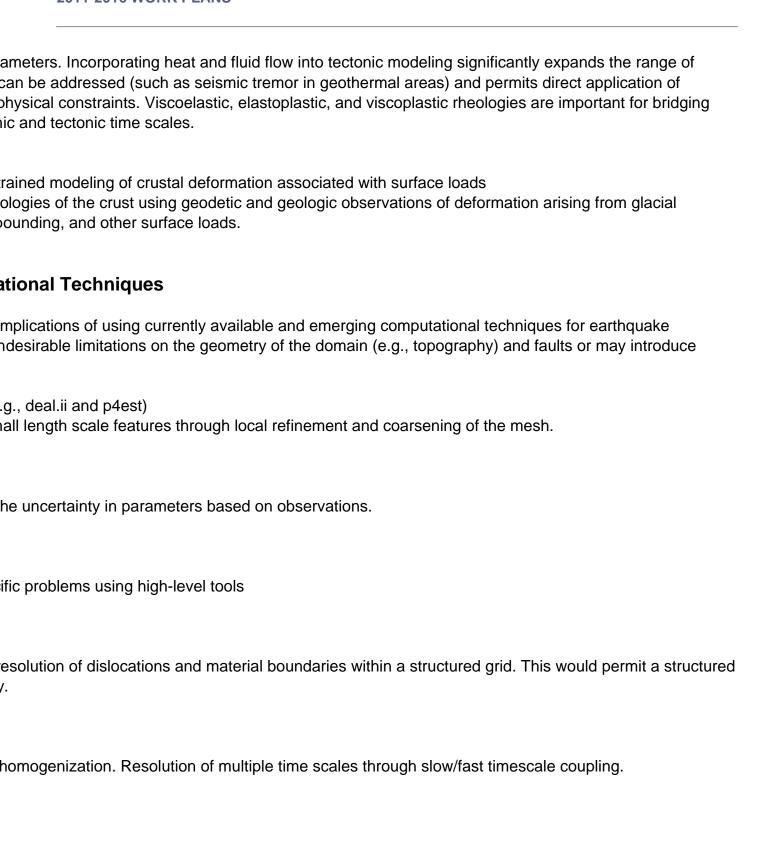
Begin development of a PyLith wiki to complement the cig-short email list Continue series of workshops on biannual basis (even years)
ADD MORE DETAIL HERE

uestions (UPDATE THESE)

vationally constrained and internally consistent physics for the entire seismic cycle e the entire seismic cycle in simulations that capture interseismic deformation, rupture nucleation and ation, and postseismic deformation with realistic Earth models (geometrical complexity, material geneity, and inelastic rheologies). Constraints on fault and bulk rheologies that are consistent with ve geodetic, seismic, and geologic observations are critical to understanding the behavior of fault s and improving the accuracy and precision of earthquake hazard assessments.

ly constrained and internally consistent physics for tectonics of magmatic systems, geothermal systems, there

eling tectonic processes with heat and fluid flow, thereby enabling complex rheologies with temperature



outs of the various stages of modeling (creating the geologic model, meshing the domain, simulating the

ırrent software.
to new users but also provides the flexibility and extensibility required by expert users. codes eatures to community codes in order to solve specific research problems.
rt modeling codes and tools.
arth science developers and vice versa. This could be implemented via some form of travel grants for in-
d features