

SEIZE (MARGINS- related)

Modeling Of Coseismic Pore Pressure Changes In Subduction Zones: Implications For Fluid Flow And Planning For Drilling And Long-Term Observatories

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Accomplishments:

- Modeling as part of a PhD Dissertation by Paula Cutillo (University of Colorado) demonstrates general patterns of head change due to subduction zone fault slip (Figure 1).
- Results suggest that changes in fault zone permeability due to fault movement may have greater impact on fluid flow and heat transport than the strain-related head changes.
- Presentations by Shemin Ge: 'Seismically induced hydrodynamic response in the Earth's crust' at the BP Institute for Multiphase Flow, University of Cambridge (9/19/2003), and the Centre Européen de Recherche et d'Enseignement des Géosciences de l'Environnement, France (10/24/2003).

