

## LLNL Geophysical Monitoring Peer-Reviewed Publication List For 2002-2009 as of June 30, 2009

### **2009 (including submitted and in-press)**

- Adams, A., R. Brazier, A. Nyblade, A. Rodgers and A. Al-Amri, 2009. Source parameters for moderate earthquakes in the Zagros mountains with implications for the depth extent of seismicity, *Bull. Seism. Soc. Am.*, 99, 2044-2049, doi: 10.1785/0120080314.
- Aldamegh, K.S., Abou Elenaen, K.M., Hussein, H.M. and A. J. Rodgers 2009. Source mechanism of June 2004 Tabuk earthquake sequence, Eastern Red Sea margin, Kingdom of Saudi Arabia, *J. Seismology DOI* 10.1007/s10950-008-9148-5.
- Anderson, M.L., and S.C. Myers, Assessment of Regional-Distance Location Calibration Using a Multiple-Event Location Algorithm, submitted to *Bull. Seismol. Soc. Am.*
- Anderson, D. N., W. R. Walter, D. K. Fagan, T. M. Mercer and S. R. Taylor, 2009. Regional multi-station discriminants: magnitude, distance and amplitude corrections and sources of error, *Bull. Seism. Soc. Am.*, 99, 794-808, doi: 10.1785/0120080014.
- Ford, S. R., D.S. Dreger, and W. R. Walter, 2009. Identifying isotropic events using a regional moment tensor inversion, *J. Geophys. Res.*, 114 B01306, doi:10.1029/2008JB005743.
- Ford, S.R., W.S. Phillips, W.R. Walter, M.E. Pasyanos, K. Mayeda, and D.S. Dreger (2009). Attenuation tomography of the Yellow Sea / Korean Peninsula from coda-source normalized and direct Lg amplitudes, submitted to *Pure and Applied Geophysics*.
- Ford, S. R. and W. R. Walter, 2009. Aftershock characteristics as a means of discriminating explosions from earthquakes, submitted to *Bull. Seism. Soc. Am.*
- Ford, S.R., Dreger, D.S, and W.R. Walter, 2009. Network sensitivity solutions for regional moment tensor inversions, submitted to *Bull. Seism. Soc. Amer.*
- Forte, A.M., R. Moucha, N.A. Simmons, S.P. Grand & J.X. Mitrovica (2009). Earth,s decelerating plates, *Science* (submitted).
- Forte, A.M., S. Quere, R. Moucha, N.A. Simmons, S.P. Grand, J.X. Mitrovica & D.B. Rowley (2009). African mantle flow is driven by two superplumes: Implications for asthenospheric flow and driving forces below the African plate, *Earth Planet. Sci. Lett.* (under review).
- Forte, A.M., R. Moucha, N.A. Simmons, S.P. Grand & J.X. Mitrovica (2009). Deep mantle contributions to the surface dynamics of the North American continent, *Tectonophysics* (under review).
- Gök R., L. Hutchings, K. Mayeda and D. Kalafat, 2009. Source Parameters for 1999 North Anatolian Fault Zone Aftershocks, *Pure and Appl. Geophys.*, doi: 10.1007/s00024-009-0461-x
- Morasca P., K. Mayeda, R. Gok, S. Phillips, L. Malagnini, 2D Coda and Direct-Wave Tomography in Northern Italy, submitted to *Bull. Seism. Soc. Am.*
- Moucha, R., A.M. Forte, D.B. Rowley, J.X. Mitrovica, N.A. Simmons & S.P. Grand (2009). A new geodynamic view of the Neogene evolution of Colorado plateau,s topography, *Nature* (submitted).

- Murphy, K. R., K. Mayeda, and W. R. Walter, 2009. Lg-coda methods applied to Nevada Test Site events: spectral peaking and yield estimation, submitted to *Bull. Seism. Soc. Am.* 99, 441-448, doi:10.1785/0120080046.
- Myers, S. C., G. Johannesson and W. Hanley, 2009. Incorporation of probabilistic seismic phase labels into a Bayesian multiple-event seismic locator, *Geophys. J. Int.*, 177 193-204, doi: 10.1111/j.1365-246X.2008.04070.x
- Myers, S., S. Ballard, C. Rowe, G. Wagner, M. Antolik, W. Phillips, A. Ramirez, M. Begnaud, M. Pasyanos, D. Dodge, M. Flanagan, K. Hutchenson, G. Barker, J. Dwyer, and D. Russell (2009). A crust and upper mantle model of Eurasia and North Africa for Pn travel time calculation, *Bull. Seismol. Soc. Am.*, In preparation
- Pasyanos, M.E., 2009. Lithospheric thickness modeled from long period surface wave dispersion, *in press Tectonophysics*, doi:10.1016/j.tecto.2009.02.023.
- Pasyanos, M. E., E. M. Matzel, W. R. Walter, and A. J. Rodgers, 2009. “Broadband Lg attenuation modeling in the Middle East, *Geophys. J. Int.*, 177, 1166-1176, doi:10.1111/j.1365-246X.2009.04128.x.
- Pasyanos, M.E., W.R. Walter, and E.M. Matzel (2009). A simultaneous multi-phase approach to determine P-wave and S-wave attenuation of the crust and upper mantle, *in press for Bull. Seism. Soc. Amer.*, doi:10.1785/0120090061
- Pasyanos, M.E., and W. R. Walter, (2009). Improvements to regional explosion identification using attenuation models of the lithosphere, *in press for Geophys. Res. Lett.*, doi:10.1029/2009GL038505
- Simmons, N.A., A.M. Forte & S.P Grand (2009). Joint seismic, geodynamic and mineral physical constraints on three-dimensional mantle heterogeneity: Implications for the relative importance of thermal versus compositional heterogeneity, *Geophys. J. Int.*, 177, 1284-1304, doi: 10.1111/j.1365-246X.2009.04133.x
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- Ford, S. R., D.S. Dreger, and W. R. Walter, 2008. Source Characterization of the August 6, 2007 Crandall Canyon Mine Seismic Event in Central Utah, *Seism. Res. Lett.*, 79, 637-644, doi: 10.1785/gssrl.79.5.637.
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- Di Luccio, F. and M. Pasyanos, 2007. Crustal and upper-mantle structure in the Eastern Mediterranean from the analysis of surface wave dispersion curves, *Geophys. J. Int.*, doi:10.1111/j.1365-246.2007.03332.
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