

PEER-REVIEWED PAPERS – KARL MUELLER

1. Hough, S., Bilham, R., Mueller, K., Stephenson, W., Williams, R., and J. Odum, in review, Wagonloads of Sandblows: Bulletin Seismological Society of America.
2. Mueller, K., and Golombek, M., 2004, Compressional structures on Mars: Annual Reviews Earth and Planetary Sciences, 32, 435-464.
3. Mueller, K., Hough, S., and Bilham, R., 2004, Investigating 1811-1812 New Madrid mainshocks with instrumentally recorded aftershocks: Nature, 429, 284-288.
4. Ishiyama, T., Mueller, K., Togo, M., Okada, A., and Takemura, K., 2004, Geomorphology, kinematic history and earthquake behaviour of the active Kuwana wedge-thrust anticline, central Japan: Journal of Geophysical Research (in press).
5. Lee, J.C., Rubin, C., Mueller, K., Chen, Y.G., Chan, Y.C., Sieh, K., Chu, H.T., and W.S. Chen, 2004, Quantitative analysis of movement along an earthquake thrust scarp: a case study of a vertical exposure of the 1999 surface rupture of the Chelungpu Fault at Wufeng, western Taiwan: Journal of Asian Earth Sciences, 23, 263-273.
6. Mueller, K., Kier, G., Rockwell, T., and C. Jones, Quaternary Rift-Flank Uplift of Southern California and Northern Baja California: *Tectonics*, (in review).
7. *Bielecki, A.E., and Mueller, K.J., 2002, Origin of terraced hillslopes on active folds in the southern San Joaquin Valley, California: *Geomorphology*, 42, 131-152.
8. Mueller, K.J., and Pujol, J., 2002, 3D geometry of the Reelfoot blind thrust: implications for moment release and earthquake magnitude in the New Madrid seismic zone: *Seismological Society of America Bulletin*, 91, 1563-1573.
9. Guccione, M.J., Mueller, K.J., *Champion, J., Sheperd, S., Carlson, S.D., and Odhiambo, B., 2002. Stream response to repeated coseismic folding, Tiptonville Dome, western Tennessee: *Geomorphology*, 43, 313-349.
10. *Champion, J.A., Tate, A., Mueller, K.J., and Guccione, M., 2001, Geometry, numerical modeling and revised slip rate for the Reelfoot blind thrust and trishear fault-propagation fold, New Madrid seismic zone: *Engineering Geology*, 62, 31-49.
11. Lee, J.C., Chen, Y.G., Sieh, K., Mueller, K., Chen, W.S., Chu, H.T., Chan, Y.C, Rubin, C., Yeats, R., 2001, A Vertical Exposure of the 1999 Surface Rupture of the Chelungpu Fault at Wufeng, Western Taiwan: Structural and Paleoseismic Implications for an Active Thrust Fault: *Seismological Society of America Bulletin*, 91, 914-929.
12. Rubin, C., K. Sieh, Y.G. Chen, J.C. Lee, H.T. Chu, R. Yeats, K. Mueller and Y.C. Chan, 2001, Post-earthquake response, 1999 Chi-Chi earthquake: Evidence for past earthquakes: *Eos*, 82, 565-567.
13. Bendick, R., Bilham., R., Fielding, E., Gaur, V., Hough, S.E., Kier, G., Kulkarni, M.N., Martin, S., Mueller, K., and M. Mukul, 2001, The January 26, 2001 Bhuj Earthquake: India, *Seismological Research Letters*, 72, 329-335.

14. Rivero, C., Shaw, J.H., and Mueller, K.J., 2000, Insights into the origin of blind thrust faults in coastal southern California: The Oceanside and Thirtymile Bank thrusts: *Geology*, 28, 891-994.
15. Mueller, K. J., *Champion, J.A., Guccione, M., and Kelson, K., 1999, Fault slip rates in the modern New Madrid seismic zone: *Science*, 286, 1135-1138.
16. Grant, L.B., Mueller, K.J., Gath, E.L., Cheng, H., Edwards, L., Munro, R., and Kennedy, G., 1999, Late Quaternary uplift and earthquake potential of the San Joaquin Hills, southern Los Angeles Basin, California: *Geology*, 27, 1031-1034.
17. Mueller, K.J., Cerveny, P.K., Snee, L.W., and Perkins, M.E., 1999, Chronology of Polyphase Extension in the Windermere Hills, NE Nevada: *Geological Society of America Bulletin*, 111, 11-27.
18. Walls, C., Rockwell, T.R., Mueller, K., Bock, Y., Williams, S., Pfanner, J., Dolan, J., P. Fang, 1998, Escape Tectonics in the Los Angeles Metropolitan Region and Implications for Seismic Risk: *Nature*, 394, 356-360.
19. Mueller, K., and Suppe, J., 1997, Growth of Wheeler Ridge Anticline, California: Implications for fault-bend folding behaviour during earthquakes, *Journal of Structural Geology*, 19, 383-396.
20. Mueller, K., and Talling, P., 1997, Geomorphic evidence for tear faults accommodating lateral propagation of an active fault-bend fold, Wheeler Ridge, California, *Journal of Structural Geology*, 19, 397-411.
21. Mueller, K.J., and Rockwell, T.R., 1995, Late Quaternary activity of the Laguna Salada fault in northern Baja California, Mexico: *Geological Society of America Bulletin*, 107, 8-18.
22. Mueller, K.J., and Snoke, A.W., 1993, Progressive overprinting of normal fault systems and their role in Tertiary exhumation of the East Humboldt-Wood Hills metamorphic complex, northeast Nevada: *Tectonics*, 12, 361-371.
23. Mueller, K.J., 1993, Geologic map of the Windermere Hills, Elko County, Nevada, (with cross sections and descriptions of geologic units): *Nevada Bureau of Mines and Geology Field Studies Maps*, No. 4, scale 1:48,000. Area covers (4) 7.5 minute quadrangles.
24. Mueller, K.J., and Rockwell, T.R., 1991, Late Quaternary structural evolution of the western margin of the Sierra Cucapa, Baja California Norte: in Dauphin, J., and Simoneit, B., (ed) *The Gulf and Peninsular Province of the Californias*, *AAPG Memoir* 47, 249-260.

SYMPOSIA VOLUMES

Mueller, K.J., 2000, Evaluating blind thrust hazards with structural analysis, geomorphology and trench excavations; examples for southern California and New Madrid: Active fault research for the New Millennium, *Proceedings of the Hokudan International Symposium on Active Faulting*, Hokudan, Japan (eds) K. Okamura, K. Takada, and H. Goto, p. 299-314.

Mueller, K.J., 1999, Geomorphic criteria for establishing the kinematics of active fault-related folds: McClay, K., and Munoz, J., (eds) Thrust Tectonics-99, Royal Holloway, London, p. 90-93.

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