

A3. GeoPRISMS-funded References

- Armstrong, C., Mohrig, D., Hess, T., George, T., Straub, K.M., 2014. Influence of growth faults on coastal fluvial systems, Examples from the late Miocene to recent Mississippi River Delta. *Sedimentary Geology* 301, 120-132, doi: 10.1016/j.sedgeo.2013.06.010.
- Atwater, B.F., Carson, B., Griggs, G.B., Johnson, H.P., Salmi, M.S., 2014. Rethinking turbidite paleoseismology along the Cascadia subduction zone. *Geology* 42, 827-830. 10.1130/g35902.1
- Dean, S., Sawyer, D., Morgan, J., 2015. Galicia Bank ocean-continent transition zone: New seismic reflection constraints. *Earth and Planetary Science Letters* 413, 197-207. 10.1016/j.epsl.2014.12.045
- den Hartog, S.A., Saffer, D.M., Spiers, C.J., 2014. The roles of quartz and water in controlling unstable slip in phyllosilicate-rich megathrust fault gouges. *Earth, Planets and Space* 66:78, doi:10.1186/1880-5981-66-78.
- Emry, E.L., Wiens, D.A., 2015. Incoming plate faulting in the Northern and Western Pacific and implications for subduction zone water budgets. *Earth and Planetary Science Letters* 414, 176-186. 10.1016/j.epsl.2014.12.042
- Emry, E.L., Wiens, D.A., Garcia-Castellanos, D., 2014. Faulting within the Pacific plate at the Mariana Trench: Implications for plate interface coupling and subduction of hydrous minerals. *J. Geol. Res.* 119, 3076-3095. 10.1002/2013jb010718
- Gao, H., Shen, Y., 2014. Upper mantle structure of the Cascades from full-wave ambient noise tomography: Evidence for 3D mantle upwelling in the back-arc. *Earth Planet. Sci. Lett.* 390, 222-233. 10.1016/j.epsl.2014.01.012
- Gao, H., Shen, Y., 2015. Validation of recent shear wave velocity models in the United States with full-wave simulation. *J. Geophys. Res.* 120, 344-358. 10.1002/2014jb011369
- Ghosh, A., Huesca-Perez, E., Brodsky, E., Ito, Y., 2015. Very low frequency earthquakes in Cascadia migrate with tremor. *Geophys. Res. Lett.* 42, 3228-3232. 10.1002/2015gl063286
- Hacker, B.R., Kelemen, P.B., Behn, M.D., 2015. Continental Lower Crust. *Annu. Rev. Earth Planet. Sci.* 43, 167-205. 10.1146/annurev-earth-050212-124117
- Hautala, S.L., Solomon, E.A., Johnson, H.P., Harris, R.N., Miller, U.K., 2014. Contemporary ocean warming dissociates Cascadia margin gas hydrates. *Geophys. Res. Lett.* 10.1002/2014gl061606
- Haynes, J.T., Johnson, E.A., Whitmeyer, S.J., 2014. Active features along a "passive" margin: The intriguing interplay between Silurian-Devonian stratigraphy, Alleghanian deformation, and Eocene magmatism of Highland and Bath Counties, Virginia, in: Bailey, C.M., Coiner, L.V. (Eds.), *Elevating Geoscience in the Southeastern United States: New Ideas about Old Terranes: Field Guides for GSA Southeastern Sevier Meeting*, Blacksburg, Virginia. GSA, pp. 1-40
- Hirth, G., Guillot, S., 2013. Rheology and tectonic significance of serpentinite. *Elements* 9, 107-113. 10.2113/gselements.9.2.107
- Homola, K., Paul Johnson, H., Hearn, C., 2015. In situ measurements of thermal diffusivity in sediments of the methane-rich zone of Cascadia Margin, NE Pacific Ocean. *Elem. Sci. Anth.* 3, 000039-. 10.12952/journal.elementa.000039

- Huesca-Perez, E., Ghosh, A., 2015. Crustal anisotropy from tectonic tremor under Washington State in the Cascadia. *Geophys. Res. Lett.* 42, 2228-2234. 10.1002/2014gl062614
- Jicha, B., Yogodzinski, G., Kelemen, P., 2014. Sharing resources for Aleutian arc research. *Eos Trans. AGU* 95, 97-98. 10.1002/2014eo110005
- Jicha, B.R., Singer, B.S., Valentine, M.J., 2013. $^{40}\text{Ar}/^{39}\text{Ar}$ Geochronology of Subaerial Ascension Island and a Re-evaluation of the Temporal Progression of Basaltic to Rhyolitic Volcanism. *Journal of Petrology* 54, 2581-2596. 10.1093/petrology/egt058
- Johnson, H.P., Solomon, E.A., Harris, R.N., Salmi, M.S., Berg, R.D., 2013. Heat flow and fluid flux in Cascadia's seismogenic zone. *Eos Transactions American Geophysical Union* 94, 457-458. 10.1002/2013EO480001
- Johnson, H.P., Solomon, E.A., Harris, R.N., Salmi, M.S., Berg, R.D., 2014. A geophysical and hydrogeochemical survey of the Cascadia subduction zone. *GeoPRISMS Newsletter* 32, 4-7
- Kelemen, P.B., Hirth, G., 2012. Reaction-driven cracking during retrograde metamorphism: Olivine hydration and carbonation. *Earth and Planetary Science Letters* 345-348, 81-89. 10.1016/j.epsl.2012.06.018
- Kim, W., Petter, A., Straub, K.M., Mohrig, D., 2014. Decoupling allogenic forcing from autogenic processes: experimental geomorphology and stratigraphy, in: *From depositional systems to sedimentary successions on the Norwegian Continental Shelf* (Eds. A.W. Martinius, R. Ravnas, J.A. Howell, R.J. Steel, and J.P. Wonham), IAS Spec. Publ., 46, 127-138.
- Kitajima, H., Saffer, D.M., 2012. Elevated pore pressure and anomalously low stress in regions of low frequency earthquakes along the Nankai Trough subduction megathrust. *Geophys. Res. Lett.* 39. 10.1029/2012gl053793
- Kitajima, H., Saffer, D.M., 2014. Consolidation state of incoming sediments to the Nankai Trough subduction zone: Implications for sediment deformation and properties. *Geochem. Geophys. Geosyst.* 15, 2821-2839. 10.1002/2014gc005360
- Manduca, C.A., Tikoff, B., Hotchkiss, S., Johnson, H.P., Solomon, E.A., Harris, R.N., Salmi, M.S., Berg, R.D., 2013. The evolving nature of collaboration in the geological sciences. *The Geological Society of America Special Paper* 502, 153-164. doi:10.1130/2013.2502(09)
- Matoza, R.S., Fee, D., Lopez, T.M., 2014. Acoustic characterization of explosion complexity at Sakurajima, Karymsky, and Tungurahua volcanoes. *Seism. Res. Lett.* 85, 1187-1199. 10.1785/0220140110
- Mazza, S.E., Gazel, E., Johnson, E.A., Kunk, M.J., McAleer, R., Spotila, J.A., Bizimis, M., Coleman, D.S., 2014. Volcanoes of the passive margin: The youngest magmatic event in eastern North America. *Geology* 42, 483-486. 10.1130/g35407.1
- McClellan, E., Gazel, E., 2014. The Cryogenian intra-continental rifting of Rodinia: Evidence from the Laurentian margin in eastern North America. *Lithos* 206-207, 321-337. 10.1016/j.lithos.2014.08.006
- Morishige, M., 2015. A new regime of slab-mantle coupling at the plate interface and its possible implications for the distribution of volcanoes. *Earth and Planetary Science Letters*, in press.
- Morishige, M., van Keken, P.E., 2014. Along-arc variation in the 3-D thermal structure around the junction between the Japan and Kurile arcs. *Geochem. Geophys. Geosyst.* 15, 2225-2240. 10.1002/2014gc005394
- Naliboff, J.B., Billen, M.I., Gerya, T., Saunders, J., 2013. Dynamics of outer-rise faulting in oceanic-continental subduction systems. *Geochem. Geophys. Geosyst.* 14, 2310-2327. 10.1002/ggge.20155
- Proctor, B., Hirth, G., 2015. Role of pore fluid pressure on transient strength changes and fabric development during serpentine dehydration at mantle conditions: Implications for subduction-zone seismicity. *Earth*

- and Planetary Science Letters 421, 1-12. 10.1016/j.epsl.2015.03.040
- Roy, S.G., Koons, P.O., Upton, P., Tucker, G.E., 2015. The influence of crustal strength fields on the patterns and rates of fluvial incision. *J. Geophys. Res.* 120, 275-299. 10.1002/2014jf003281
- Saffer, D.M., 2015. The permeability of active subduction plate boundary faults. *Geofluids* 15, 193-215. 10.1111/gfl.12103
- Saffer, D.M., Lockner, D.A., McKiernan, A., 2012. Effects of smectite to illite transformation on the frictional strength and sliding stability of intact marine mudstones. *Geophys. Res. Lett.* 39. 10.1029/2012gl051761
- Spotila, J.A., Marshall, J., DePew, K., Prince, P.S., Kennedy, L., 2015. Potential for Geologic Records of Coseismic Uplift and Megathrust Rupture along the Nicoya Peninsula, Costa Rica. *J. Coastal Res.*, in press.
- Straub, K.M., Esposito, C.R., 2013. Influence of water and sediment supply on the stratigraphic record of alluvial fans and deltas: Process controls on stratigraphic completeness. *J. Geophys. Res.* 118, 625-637. 10.1002/jgrf.20061
- Wallace, L.M., Silver, E.A., Bangs, N., Bell, R., Mountjoy, J., Henrys, S., Pecher, I., 2012. IODP Workshop on using ocean drilling to unlock the secrets of slow slip events. *Scientific Drilling*. 10.2204/iodp.sd.14.10.2012
- Wilson, C.R., Spiegelman, M., van Keken, P.E., Hacker, B.R., 2014. Fluid flow in subduction zones: The role of solid rheology and compaction pressure. *Earth and Planetary Science Letters* 401, 261-274. 10.1016/j.epsl.2014.05.052