



GeoPRISMS Implementation Plan

5. References

5. References

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- Allibone, A., Milan, L.A., Daczko, N.R., and Turnbull, I.M., 2009, Granulite facies thermal aureoles and metastable amphibolite facies assemblages adjacent to the Western Fiordland Orthogneiss in southwest Fiordland, New Zealand: *Journal of Metamorphic Geology*, v. 27, p. 349-369.
- Aulbach, S., Rudnick, R.L., and McDonough, W.F., 2011, Evolution of the lithospheric mantle beneath the East African Rift in Tanzania and its potential signatures in rift magmas, *Geological Society of America Special Papers*, v. 478, p. 105-125.
- Atwater, T. M., J. P. Severinghaus, Tectonic maps of the North Pacific, The Eastern Pacific Ocean and Hawaii, *Geol. of North Am.*, N. E. L. Winterer, D. M. Hussong, R. W. Decker, 15–20, Geological Society of America, Boulder, Colo., 1989.
- Baker, J., Chazot, G., Menzies, M., and Thirlwall, M., 1998, Metasomatism of the shallow mantle beneath Yemen by the Afar plume - Implications for mantle plumes, flood volcanism, and intraplate volcanism, *Geology*, v. 26, p. 431-434
- Bangs, N.L.B., Moore, G.F., Gulick, S.P.S., Pangborn, E.M., Tobin, H.J., Kuramoto, S., and Taira, A., 2009, Broad, weak regions of the Nankai Megathrust and implications for shallow coseismic slip: *Earth Planet. Sci. Lett.*, v. 284, p. 44-49, doi:10.1016/j.epsl.2009.04.026.
- Barnes, P.M., Lamarche, Bialas, G.J., Henrys, S., Pecher, I., Netzeband, G.L., Greinert, J., Mountjoy, J.J., Pedley, K., Crutchley, G., 2010, Tectonic and geological framework for gas hydrates and cold seeps on the Hikurangi subduction margin, New Zealand, *Marine Geology*, 272, 26–48.
- Beccaluva, L., Bianchini, G., Ellam, R.M., Natali, C., Santato, A., Siena, F., and Stuart, F.M., 2011, Peridotite xenoliths from Ethiopia: Inferences about mantle processes from plume to rift settings, in Beccaluva, L., Bianchini, G., and Wilson, M., eds., *Geological Society of America Special Papers*, Volume 478: Boulder, CO, p. 77-104
- Bell R.E., Sutherland R., Barker D.H.N., et al., 2010, Seismic reflection character of the Hikurangi subduction interface, New Zealand, in the region of repeated Gisborne slow slip events, *Geophysical Journal International*, v.180, 34-48.
- Biggs J. E.Y. Anthony, and C.J. Ebinger, 2009, Multiple inflation and deflation events at Kenyan volcanoes, East African Rift, *Geology*, 37, 979-982, doi:10.1130/G30133A.1.
- Brudzinski, M.R., and Allen, R.M., 2007, Segmentation in episodic tremor and slip all along Cascadia, *Geology*, 35(10), 907–910; doi: 10.1130/G23740A.1.
- Calvert, A.J., 2011, The seismic structure of island arc crust, in Brown, D., and Ryan, P., eds., *Arc-Continent Collision: The Making of an Orogen: Frontiers in Earth Sciences: New York, Springer-Verlag*, p. 87-120, doi: 10.1007/978-3-540-88558-0_4
- Cook, F. A. and Vasudevan, K., 2006, Reprocessing and enhanced interpretation of the initial COCORP southern Appalachians traverse: *Tectonophysics*, 420, 161-174.
- Cook, F.A., Albaugh, D.S., Brown, L.D., Kaufman, S., Oliver, J.E., Hatcher Jr., R.D., 1979. Thin-skinned tectonics in the crystalline Southern Appalachians: COCORP seismic reflection profiling of the Blue Ridge and Piedmont. *Geology* 7, 563–567
- McHone, J. G., 2000, Non-plume magmatism and rifting during the opening of the central Atlantic Ocean: *Tectonophysics*, 316, 287-296.
- Danielson, S., M. Johnson, S. Solomon & W. Perrie, 1 km Gridded Bathymetric Dataset Based on Ship Soundings: A research tool for the waters of eastern Russia, Alaska & western Canada, 2008, Poster presentation at the 2008 Alaska Marine Science Symposium, Anchorage, Alaska. <http://mather.sfos.uaf.edu/~seth/bathy/>

- DeMets, C., Gordon, R. G. and Argus, D. F., 2010, Geologically current plate motions. *Geophysical Journal International*, 181: 1–80. doi: 10.1111/j.1365-246X.2009.04491.x.
- Eberhart-Philips, D., Christensen, D.H., Brocher, T.M., Hansen, R., Ruppert, N.A., Haeussler, P.J., and Abers, G.A., 2006. Imaging the transition from Aleutian subduction to Yakutat collision in central Alaska, with local earthquakes and active source data. *J. Geophys. Res., [Solid Earth]*, 111:B11303–B11333. doi:10.1029/2005JB004240
- Elliott, J., C. F. Larsen, J. T. Freymueller, and R. J. Motyka, 2010. Tectonic Block Motion and Glacial Isostatic Adjustment in Southeast Alaska and Adjacent Canada Constrained by GPS Measurements, *J. Geophys. Res.*, doi:10.1029/2009JB007139.
- Enachescu, M., 2007, Digital seismic dilemma, ownership and copyright of offshore data: Why is government policy regarding offshore seismic data so important for the Atlantic oil and gas industry? CSEG Recorder. (Download from: <https://www.cseg.ca/publications/recorder/2007/05may/may2007-digital-seismic-dilemma.pdf>).
- Expedition 313 Scientists, 2010, Shallow-water drilling of the New Jersey continental shelf: global sea level and architecture of passive margin sediments, *IODP Prel. Rept.*, 313. doi:10.2204/iodp.pr.313.2010.
- Forsyth, D.W., Lay, T., Aster, R.C., and Romanowicz, B., 2009, Grand challenges for seismology: *Eos (Transactions, American Geophysical Union)*, v. 90, p. 361– 362, doi: 10.1029/2009EO410001.
- Furman, T., Kaleta, K.M., Bryce, J.G., and Hanan, B.B., 2006, Tertiary mafic lavas of Turkana, Kenya: Constraints on East African plume structure and the occurrence of high-mu volcanism in Africa, *Journal of Petrology*, v. 47, p. 1221-124.
- GLOBE Task Team and others (Hastings, David A., Paula K. Dunbar, Gerald M. Elphinstone, Mark Bootz, Hiroshi Murakami, Hiroshi Maruyama, Hiroshi Masaharu, Peter Holland, John Payne, Nevin A. Bryant, Thomas L. Logan, J.-P. Muller, Gunter Schreier, and John S. MacDonald), eds., 1999. The Global Land One-kilometer Base Elevation (GLOBE) Digital Elevation Model, Version 1.0. National Oceanic and Atmospheric Administration, National Geophysical Data Center, 325 Broadway, Boulder, Colorado 80303, U.S.A. Digital data base on the World Wide Web (URL: <http://www.ngdc.noaa.gov/mgg/topo/globe.html>) and CD-ROMs.
- Goldfinger, C., Nelson, C.H., Morey, A.E., Johnson, J.E., Patton, J.R., Karabanov, E., Gutiérrez-Pastor, J., Eriksson, A.T., Gràcia, E., Dunhill, G., Enkin, R.J., Dallimore, A., and Vallier, T., 2012, Turbidite event history—Methods and implications for Holocene paleoseismicity of the Cascadia subduction zone: U.S. Geological Survey Professional Paper 1661–F, 170 p. (Available at <http://pubs.usgs.gov/pp/pp1661f/>).
- Hansen, S.E., A.A. Nyblade, and M.H. Benoit, 2012, Mantle structure beneath Africa and Arabia from adaptively parameterized P-wave tomography: Implications for the origin of Cenozoic Afro-Arabian tectonism, *Earth and Planetary Science Letters*, 319-320, 23-24.
- Kelemen, P.B., Hanghøj, K., and Greene, A.R., 2003, One view of the geochemistry of subduction-related magmatic arcs, with an emphasis on primitive andesite and lower crust in Holland, H.D., and Turekian, K.K., eds., *Treatise on Geochemistry*: New York, Elsevier, p. 593-659.
- Klepeis, K.A. and Clarke, G.L., 2004, Evolution of an exposed lower crustal attachment zone in Fiordland, New Zealand, In: *Vertical coupling and decoupling in the lithosphere*, Grocott, J., McCaffrey, K., Taylor, G., Tikoff, B. (eds), Geological Society, London, Special Publications, **227**, 197-229.

- Klepeis, K.A., Clarke, G.L., Rushmer, T., 2003, Magma transport and coupling between deformation and magmatism in the continental lithosphere, *GSA Today*, **13**(1), 4-11.
- Kodaira, S., Sato, T., Takahashi, N., Miura, S., Tamura, Y., Tatsumi, Y., and Kaneda, Y., 2007, New seismological constraints on growth of continental crust in the Izu-Bonin intra-oceanic arc: *Geology*, v. 35, doi: 10.1130/G23901A.1, p. 1031-1034.
- Küster, D., and Harms, U., 1998, Post-collisional potassic granitoids from the southern and northwestern parts of the Late Neoproterozoic East African Orogen: a review, *Lithos*, v. 45, p. 177-195
- Leonard, G.S., Begg, J.G. and Wilson, C.J.N. (compilers), 2010, Geology of the Rotorua area: scale 1:250,000. Lower Hutt: Institute of Geological & Nuclear Sciences Limited. Institute of Geological & Nuclear Sciences 1:250,000 geological map 5. 99 p. + 1 fold. Map.
- Lucassen, F., Franz, G., Romer, R.L., Pudlo, D., and Dulski, P., 2008, Nd, Pb, and Sr isotope composition of Late Mesozoic to Quaternary intra-plate magmatism in NE-Africa (Sudan, Egypt): high- μ signatures from the mantle lithosphere, *Contributions to Mineralogy and Petrology*, v. 156, p. 765-784.
- Maguire, P.K.H., C.J. Swain, R. Masotti, and M.A. Khan, 1994, A crustal and uppermost mantle cross-sectional model of the Kenya Rift derived from seismic and gravity data, *Tectonophysics*, 236, 217-249.
- Martin, J., C. Paola, V. Abrea, J. Neal, B. Sheets, 2009, Sequence stratigraphy of experimental strata under known conditions of differential subsidence and variable base level, *AAPG Bulletin*, 93(4), 503-533; doi: 10.1306/12110808057.
- Manley, W., and Kaufman, D.S., 2002. Alaska Paleoglacier Atlas: Boulder, CO (Inst. Arct. Alp. Res., Univ. Colorado). http://instaar.colorado.edu/QGISL/ak_paleoglacier_atlas/
- McCaffrey, R., Qamar, A., King, R.W., Wells, R.W., Khazaradze, G., and Williams, C., 2007, Deformation in the Pacific Northwest: *Geophysical Journal International*, v. 169, p. 1315–1340, doi: 10.1111/j.1365-246X.2007.03371.x.
- Miller, R.B., and Snoke, A.W., eds., 2009, Crustal cross-sections from the western North American Cordillera and elsewhere: Implications for tectonic and petrologic processes: Boulder, Colorado, Geological Society of America Special Paper 456, vi + CD + 314 p. ISBN 978-0-8137-2456-0.
- Moore J.C., Diebold J.B., Fisher M.A., Sample J.C., Brocher T.M., Talwani M., Ewing J.I., von Huene R., Rowe C., Stone D., Stevens C., Sawyer D.S., 1991, EDGE deep seismic reflection transect of the eastern Aleutian arc-trench layered lower crust reveals underplating and continental growth: *Geology*, v. 19, p. 420–424, doi: 10.1130/0091-7613(1991)019<0420:EDSRTO>2.3.CO;2.
- Moore, G.F., Bangs, N.L., Taira, A., Kuramoto, S. Pangborn, E., and Tobin, H.J., 2007, Three-dimensional splay fault geometry and implications for tsunami generation: *Science*, v. 318, p. 1128-1131. doi: 10.1126/science.1147195
- Ohta, Y., J. T. Freymueller, S. Hreinsdóttir, and H. Suito,, 2006. A Large Slow Slip Event and the depth of the seismogenic zone in the south central Alaska subduction zone, *Earth Planet. Sci. Lett.*, Volume 247, Issues 1-2, 15 July, Pages 108-116.
- Peterson, C. L., and D. H. Christensen (2009). Possible relationship between nonvolcanic tremor and the 1998–2001 slow slip event, south central Alaska, *J. Geophys. Res.*, 114, B06302, doi:10.1029/2008JB006096.
- Priest, G.R., 1990, Volcanic and tectonic evolution of the Cascade volcanic arc, Central Oregon, *J. Geophysical Research*, 95, B12, 19,583-19,599.

- Reece, R., S. Gulick, B. Horton, G. Christeson, L. Worthington, 2011, Tectonic and climatic influence on the evolution of the Surveyor Fan and Channel System, Gulf of Alaska, *Geosphere*, v. 7, no. 4, p. 830-844, doi: 10.1130/GES00654.1.
- Ryan et al. (in review, USGS OFR).
- Schulte, S.M., and Mooney, W.D., 2005, An updated global earthquake catalogue for stable continental regions: reassessing the correlation with ancient rifts, *Geophysical Journal International*. Volume 161, Issue 3, pages 707–721, DOI: 10.1111/j.1365-246X.2005.02554.x.
- Shillington, D.J., Van Avendonk, J.A., Holbrook, S.W., Kelemen, P.B., and Hornbach, M.J., 2004, Composition and structure of the central Aleutian island arc from arc-parallel wide-angle seismic data: *Geochemistry Geophysics Geosystems*, v. 5(Q10006), doi: 10.1029/2004GC000715
- Stern, R.J., 2002, Crustal evolution in the East African Orogen: a neodymium isotopic perspective, *Journal of African Earth Sciences*, v. 34, p. 109-117.
- Stevenson, A.J., D.W. Scholl, and T.L. Vallier, 1983. Tectonic and geologic implications of the Zodiac Fan, Aleutian abyssal plain, Northeast Pacific. *Geological Society of America Bulletin*, 94(2):259-273.
- Stock, J., and P. Molnar, 1988, Uncertainties and implications of the Late Cretaceous and Tertiary position of North America relative to the Farallon, Kula, and Pacific Plates, *Tectonics*, 7(6), 1339–1384, doi:10.1029/TC007i006p01339.
- Strong, N., and C. Paola (2008), Valleys that never were: Time surfaces versus stratigraphic surfaces, *J. Sed. Res.*, 78, 579–593.
- Sutherland, R., M. Gurnis, P. J. J. Kamp, and M. A. House, Regional exhumation history of brittle crust during subduction initiation, Fiordland, southwest New Zealand, and implications for thermochronologic sampling and analysis strategies, *Geosphere*, 5, doi:10.1130/GES00225.1, 409-425, 2009.
- Syamsir, Z., Durcanin, M., Withjack, M., Schische, R., and Monteverde, D., 2010, The Mesozoic Orpheus rift basin, offshore Nova Scotia and Newfoundland, Canada: Synrift and early postrift evolution of a well-imaged North Atlantic rift basin: Proceedings II Central & North Atlantic Conjugate Margins Conference, Lisbon, Portugal (<http://metododirecto.pt/CM2010>).
- Syracuse, E.M, van Keken, P.E. and Abers, G.A., 2010, The global range of subduction zone thermal models, *Physics Earth Planetary Interiors*, doi:10.1016/j.pepi.2010.1002.1004.
- Teklay, M., Scherer, E., Mezger, K., and Danyushevsky, L., 2010, Geochemical characteristics and Sr-Nd-Hf isotope compositions of mantle xenoliths and host basalts from Assab, Eritrea: implications for the composition and thermal structure of the lithosphere beneath the Afar Depression, *Contributions to Mineralogy and Petrology*, v. 159, p. 731-751.
- Twichell, D. C., Chaytor, J. D., ten Brink, U. S., and Buczkowski, B., 2009, Morphology of late Quaternary submarine landslide along the U.S. Atlantic continental margin: *Marine Geology*, 264, 4-15
- Verplank, E.P., and Duncan, R.A., 1987, Temporal variations in plate convergence and eruption rates in the Western Cascades, Oregon, *Tectonics*, 6, 2, 197-209.
- Wallace, L. M., and J. Beavan, 2010, Diverse slow slip behavior at the Hikurangi subduction margin, New Zealand, *J. Geophys Res.*, 115(B12402), doi:10.1029/2010JB007717.
- Wech, A.G., & Creager, K.C., 2011, A continuum of stress, strength and slip in the Cascadia subduction zone. *Nature Geoscience*, 4, 624-628.

- Whiteside J.H., Olsen P.E., Kent D.V., Fowell S.J., Et-Touhami M., 2007, Synchrony between the Central Atlantic magmatic province and the Triassic-Jurassic mass-extinction event?: *Palaeogeography, Palaeoclimatology, Palaeoecology*, v. 244, p. 345–367, doi: 10.1016/j.palaeo.2006.06.035.
- Withjack, M.O., Schlische, R.W. and Olsen, P.E., 2012, Development of the passive margin of Eastern North America: Mesozoic rifting, igneous activity, and breakup, in D. Roberts and A.W. Bally (editors), *Phanerozoic Rift Systems and Sedimentary Basins*, Elsevier Press, pp. 301-335.
- Withjack, M.O., and Schlische, R.W., 2005, A review of tectonic events on the passive margin of eastern North America, *in* Post, P., ed., *Petroleum Systems of Divergent Continental Margin Basins: 25th Bob S. Perkins Research Conference, Gulf Coast Section of SEPM*, p. 203-235.
- Yogodzinski, G.M., Vervoort, J.D., Brown, S.T., and Gerseny, M., 2010, Subduction controls of Hf and Nd isotopes in lavas of the Aleutian island arc: *Earth and Planetary Science Letters*, v. 300, p. 226-238, doi: 10.1007/s00410-010-0565-4
- Zimmer, M.M., Plank, T., Hauri, E.H., Yogodzinski, G.M., Stelling, P., Larsen, J., Singer, B., Jicha, B., Mandeville, C., and Nye, C.J., 2010, The role of water in generating the calc-alkaline trend: New volatile data for Aleutian magmas and a new tholeiitic index: *Journal of Petrology*, v. 51, p. 2411-2444, doi: 10.1093/petrology/egq062