

1. Abers, G.A., T. Plank, and B.R. Hacker, *The wet Nicaraguan slab*. Geophysical Research Letters, 2003. **30**(2).
2. Acocella, V., *Coupling volcanism and tectonics along divergent plate boundaries: Collapsed rifts from central Afar, Ethiopia*. Geol. Soc. Am. Bull., 2010. **122**(9-10): p. 1717-1728.
3. Aguiar, A.C., T.I. Melbourne, and C.W. Scrivner, *Moment release rate of Cascadia tremor constrained by GPS*. J. Geophys. Res., 2009. **114**.
4. Alvarado, G.E., Soto, G. J., Schmincke, H. U., Bolge, L. L., and M. Sumita, *The 1968 andesitic lateral blast eruption at Arenal volcano, Costa Rica*. Journal of Volcanology and Geothermal Research, 2006. **157**(1-3): p. 9-33.
5. Ando, R., R. Nakata, and T. Hori, *A slip pulse model with fault heterogeneity for low-frequency earthquakes and tremor along plate interfaces*. Geophys Res. Lett., 2010. **37**.
6. ArRajehi, A., et al., *Geodetic constraints on present-day motion of the Arabian Plate: Implications for Red Sea and Gulf of Aden rifting*. Tectonics, 2010. **29**.
7. Arroyo, I.G., S. Husen, E. R. Flueh, J. Gossler, E. Kissling, and G. E. Alvarado, *Three-dimensional P-wave velocity structure on the shallow part of the Central Costa Rican Pacific margin from local earthquake tomography using off- and onshore networks*. Geophysical Journal International, 2009. **179**(2): p. 827-849.
8. Aubaud, C., E.H. Hauri, and M.M. Hirschmann, *Hydrogen partition coefficients between nominally anhydrous minerals and basaltic melts*. Geophysical Research Letters, 2004. **31**(20).
9. Audet, P., M. G. Bostock, D. C. Boyarko, M. R. Brudzinski, and R. M. Allen, *Slab morphology in the Cascadia fore arc and its relation to episodic tremor and slip*. J. Geophys. Res., 2010. **115**.
10. Audet, P., M. G. Bostock, D. C. Boyarko, M. R. Brudzinski, and R. M. Allen *Slab morphology in the Cascadia fore arc and its relation to episodic tremor and slip*. J. Geophys. Res., 2010. **115**.
11. Axen, G.J., Grove, M., Stockli, D., Lovera, O. M., Rothstein, D. A., Fletcher, J. M., Farley, K., and P.L. Abbott, *Thermal evolution of Monte Blanco dome: Low-angle normal faulting during Gulf of California rifting and late Eocene denudation of the eastern Peninsular Ranges*. Tectonics, 2000. **19**(2): p. 197-212.
12. Bache, F., J. L. Olivet, C. Gorini, D. Aslanian, C. Labails, and M. Rabineau, *Evolution of rifted continental margins: The case of the Gulf of Lions (Western Mediterranean Basin)*. Earth and Planetary Science Letters, 2010. **292**(3-4): p. 345-356.
13. Baker, E.T., Embley, R. W., Walker, S. L., Resing, J. A., Lupton, J. E., Nakamura, K., de Ronde, C. E. J., and G.J. Massoth, *Hydrothermal activity and volcano distribution along the Mariana arc*. Journal of Geophysical Research-Solid Earth, 2008. **113**(B8).
14. Barckhausen, U., Ranero, C. R., von Huene, R., Cande, S. C., and H.A. Roeser, *Revised tectonic boundaries in the Cocos Plate off Costa Rica: Implications for the segmentation of the convergent margin and for plate tectonic models*. Journal of Geophysical Research-Solid Earth, 2001. **106**(B9): p. 19207-19220.
15. Bastow, I.D., S. Pilidou, J.-M. Kendall, and G. W. Stuart, *Melt-induced seismic anisotropy and magma assisted rifting in Ethiopia: Evidence from surface waves*.

- Geochem. Geophys. Geosyst., 2010. **11**.
16. Behn, M.D., G. Hirth, and J.R. Elsenback, *Implications of grain size evolution on the seismic structure of the oceanic upper mantle*. Earth and Planetary Science Letters, 2009. **282**(1-4): p. 178-189.
  17. Beutel, E., J. van Wijk, C. Ebinger, D. Keir, and A. Agostini, *Formation and stability of magmatic segments in the Main Ethiopian and Afar rifts*. Earth and Planetary Science Letters, 2010. **293**(3-4): p. 225-235.
  18. Bézou, A.E., S. Langmuir, C. H. Michael, P. J. and P.D. Asimow, *Origins of chemical diversity of back-arc basin basalts: A segment-scale study of the Eastern Lau Spreading Center*. J. Geophys. Res., 2009. **114**(B6).
  19. Bilek, S.L., C.E. Elliott, and C.L. Bertelloni, *Triggered seismicity associated with the 1990 Nicoya, Costa Rica, M-w=7.0 earthquake*. Geochemistry Geophysics Geosystems, 2009. **10**.
  20. Bilek, S.L. and C. Lithgow-Bertelloni, *Stress changes in the Costa Rica subduction zone due to the 1999 M-w=6.9 Quepos earthquake*. Earth and Planetary Science Letters, 2005. **230**(1-2): p. 97-112.
  21. Bohrmann, G., Heeschen, K., Jung, C., Weinrebe, W., Baranov, B., Cailleau, B., Heath, R., Huhnerbach, V., Hort, M., Masson, D., and I. Trummer, *Widespread fluid expulsion along the seafloor of the Costa Rica convergent margin*. Terra Nova, 2002. **14**(2): p. 69-79.
  22. Boyarko, D.C., and M. R. Brudzinski, *Spatial and temporal patterns of nonvolcanic tremor along the southern Cascadia subduction zone*. J. Geophys. Res., 2010. **115**.
  23. Brasse, H., Kapinos, G., Mutschard, L., Alvarado, G. E., Worzewski, T., and M. Jegen, *Deep electrical resistivity structure of northwestern Costa Rica*. Geophysical Research Letters, 2009. **36**.
  24. Brown, J.R., G. C. Beroza, S. Ide, K. Ohta, D. R. Shelly, S. Y. Schwartz, W. Rabbel, M. Thorwart, and H. Kao, *Deep low-frequency earthquakes in tremor localize to the plate interface in multiple subduction zones*. Geophys. Res. Lett., 2009. **36**.
  25. Brown, K.M., D.M. Saffer, and B.A. Bekins, *Smectite diagenesis, pore-water freshening, and fluid flow at the toe of the Nankai wedge*. Earth and Planetary Science Letters, 2001. **194**(1-2): p. 97-109.
  26. Buck, W.R., *The Dynamics of Continental Break-up and Extension*, in *The Treatise on Geophysics*, A.B. Watts, Editor. 2007.
  27. Cameron, B.I., Walker, J. A., Carr, M. J., Patino, L. C., and O. Matias, *Flux versus decompression melting at stratovolcanoes in southeastern Guatemala*. Journal of Volcanology and Geothermal Research, 2003. **119**(1-4): p. 21-50.
  28. Cardace, D., and J. D. Morris, *Geochemical evidence for sediment accretion in the Costa Rica Frontal Prism*. Geology, 2009. **37**(10): p. 891-894.
  29. Chadwick Jr, W.W., Embley, R. W., Johnson, P. D., Merle, S. G., Ristau, S., and A. Bobbitt, *The submarine flanks of Anatahan Volcano, commonwealth of the Northern Mariana Islands*. Journal of Volcanology and Geothermal Research, 2005. **146**(1-3): p. 8-25.
  30. Chan, L.H., *Mass spectrometric techniques for the determination of lithium isotopic composition in geological material*, in *Handbook of Stable Isotope*

- Analytical Techniques*, D.G.P. A., Editor. 2004, Elsevier. p. 122-141.
31. Chapp, E., B. Taylor, A. Oakley, and G.F. Moore, *A seismic stratigraphic analysis of Mariana forearc basin evolution*. *Geochem. Geophys. Geosyst.*, 2008.
  32. Chauvel, C., Marini, J. C., Plank, T., and J.N. Ludden, *Hf-Nd input flux in the Izu-Mariana subduction zone and recycling of subducted material in the mantle*. *Geochemistry Geophysics Geosystems*, 2009. **10**.
  33. Correa-Mora, F., C. DeMets, D. Alvarado, H.L. Turner, G. Mattioli, D. Hernandez, C. Pullinger, M. Rodriguez, and C. Tenorio, *GPS-derived coupling estimates for the Central America subduction zone and volcanic arc faults: El Salvador, Honduras and Nicaragua*. *Geophys. J. Int.*, 2009. **179**(3): p. 1279-1291.
  34. Crosby, B.T. and K.X. Whipple, *Knickpoint initiation and distribution within fluvial networks: 236 waterfalls in the Waipaoa River, North Island, New Zealand*. *Geomorphology*, 2006. **82**(1-2): p. 16-38.
  35. Cutillo, P.A., S.M. Ge, and E.J. Screaton, *Hydrodynamic response of subduction zones to seismic activity: A case study for the Costa Rica margin*. *Tectonophysics*, 2006. **426**(1-2): p. 167-187.
  36. Davis, E.E., Becker, K., Wang, K. L., Obara, K., Ito, Y., and M. Kinoshita, *A discrete episode of seismic and aseismic deformation of the Nankai trough subduction zone accretionary prism and incoming Philippine Sea plate*. *Earth and Planetary Science Letters*, 2006. **242**(1-2): p. 73-84.
  37. de Leeuw, G.A.M., Hilton, D. R., Fischer, T. P., and J.A. Walker, *The He-CO<sub>2</sub> isotope and relative abundance characteristics of geothermal fluids in El Salvador and Honduras: New constraints on volatile mass balance of the Central American Volcanic Arc*. *Earth and Planetary Science Letters*, 2007. **258**(1-2): p. 132-146.
  38. DeMets, C., *A new estimate for present-day Cocos-Caribbean plate motion: Implications for slip along the Central American volcanic arc*. *Geophysical Research Letters*, 2001. **28**(21): p. 4043-4046.
  39. DeMets, C. and T.H. Dixon, *New kinematic models for Pacific-North America motion from 3 Ma to present, I: Evidence for steady motion and biases in the NUVEL-1A model*. *Geophysical Research Letters*, 1999. **26**(13): p. 1921-1924.
  40. Dinc, A.N., Koulakov, I., Thorwart, M., Rabbell, W., Flueh, E. R., Arroyo, I., Taylor, W. and Alvarado, G., *Local earthquake tomography of central Costa Rica: transition from seamount to ridge subduction*. *Geophys. J. Int.*, 2010. **183**(1): p. 286-302.
  41. Dixon, T., Decaix, J., Farina, F., Furlong, K., Malservisi, R., Bennett, R., Suarez-Vidal, F., Fletcher, J., and J. Lee, *Seismic cycle and rheological effects on estimation of present-day slip rates for the Agua Blanca and San Miguel-Vallecitos faults, northern Baja California, Mexico*. *Journal of Geophysical Research-Solid Earth*, 2002. **107**(B10).
  42. Dorsey, R.J., *Stratigraphy, tectonics, and basin evolution in the Anza-Borrego Desert region*. *Fossil Treasures of Anza-Borrego Desert*, ed. G.T.a.L. Jefferson, L.E. 2006, San Diego, CA: Sunbelt Publications.
  43. Dorsey, R.J., *Sedimentation and crustal recycling along an active oblique-rift margin: Salton Trough and northern Gulf of California*. *Geology*, 2010. **38**: p. 443-446.

44. Dorsey, R.J., Umhoefer, P. J., Ingle, J. C., and L. Mayer, *Late miocene to pliocene stratigraphic evolution of northeast Carmen island, Gulf of California: implications for oblique-rifting tectonics*. *Sedimentary Geology*, 2001. **144**(1-2): p. 97-123.
45. Dorsey, R.J., Fluette, A., McDougall, K., Housen, B. A., Janecke, S. U., Axen, G. J., and C.R. Shirvell, *Chronology of Miocene-Pliocene deposits at Split Mountain Gorge, Southern California: A record of regional tectonics and Colorado River evolution*. *Geology*, 2007. **35**(1): p. 57-60.
46. Dragert, H., K.L. Wang, and T.S. James, *A silent slip event on the deeper Cascadia subduction interface*. *Science*, 2001. **292**(5521): p. 1525-1528.
47. Dziak, R.P., Park, M., Matsumoto, H., and S.K. Byun, *Hydroacoustic records and a numerical model of the source mechanism from the first historical eruption of Anatahan Volcano, Mariana Islands*. *Journal of Volcanology and Geothermal Research*, 2005. **146**(1-3): p. 86-101.
48. Dzierma, Y., M. M. Thorwart, W. Rabbel, E. R. Flueh, G. E. Alvarado, and M. M. Mora, *Imaging crustal structure in south central Costa Rica with receiver functions*. *Geochem. Geophys. Geosyst.*, 2010. **11**.
49. Eagar, K.C., M.J. Fouch, and D.E. James, *Receiver function imaging of upper mantle complexity beneath the Pacific Northwest, United States*. *Earth and Planetary Science Letters*, 2010. **297**(1-2): p. 141-153.
50. Eakin, C.M., et al., *Seismic anisotropy beneath Cascadia and the Mendocino triple junction: Interaction of the subducting slab with mantle flow*. *Earth and Planetary Science Letters*, 2010. **297**(3-4): p. 627-632.
51. Eberhart-Phillips, D. and M. Reyners, *Three-dimensional distribution of seismic anisotropy in the Hikurangi subduction zone beneath the central North Island, New Zealand*. *J. Geophys. Res.*, 2009. **114**(B6).
52. Ebinger, C., Ayele, A., Keir, D., Rowland, J., Yirgu, G., Wright, T., Belachew, M., and I. Hamling, *Length and Timescales of Rift Faulting and Magma Intrusion: The Afar Rifting Cycle from 2005 to Present*. *Annual Review of Earth and Planetary Sciences*, 2010. **439-466**: p. 439-466.
53. Escrig, S., Bezos, A., Goldstein, S. L., Langmuir, C. H., and P.J. Michael, *Mantle source variations beneath the Eastern Lau Spreading Center and the nature of subduction components in the Lau basin-Tonga arc system*. *Geochemistry Geophysics Geosystems*, 2009. **10**.
54. F.-Z. Teng, W.F.M., R.L. Rudnick, C. Dalpé, P.B. Tomascak, B.W. Chappell, and S. Gao, *Lithium isotopic composition and concentration of the upper continental crust*, *Geochimica et Cosmochimica Acta* **68** (20) (2004), pp. 4167–4178. *Geochimica et Cosmochimica Acta*, 2004. **68**(20): p. 4167–4178.
55. Fehn, U. and G.T. Snyder, *Origin of volatile elements in subduction zones: iodine and 129I in volcanic fluids from the North Island of New Zealand*. *Econ. Geol., Spec. Publ.*, 2003. **10**: p. 159–170.
56. Fehn, U., G.T. Snyder, and J.C. Varekamp, *Detection of recycled marine sediment components in crater lake fluids using 129I* *Journal of Volcanology and Geothermal Research*, 2002. **115**(3-4): p. 451-460.
57. Ferguson, D.J., T. D. Barnie, D. M. Pyle, C. Oppenheimer, G. Yirgu, E. Lewi, T. Kidane, S. Carn, and I. Hamling, *Recent rift-related volcanism in Afar, Ethiopia*.

- Earth and Planetary Science Letters, 2010. **292**(3-4): p. 409-418.
58. Ferrari, L., Valencia-Moreno, M., and Bryan, S., *Magmatism and tectonics of the Sierra Madre Occidental and its relation with the evolution of the western margin of North America*. *Geology of Mexico 2007*. **422**(celebrating the centenary of the Geological Society of Mexico: Special Paper - Geological Society of America): p. 1-39.
  59. Ferrari, L., M. Lopez-Martinez, and J. Rosas-Elguera, *Ignimbrite flare-up and deformation in the southern Sierra Madre Occidental, western Mexico: Implications for the late subduction history of the Farallon plate*. *Tectonics*, 2002. **21**(4).
  60. Fierstine, H.L., Applegate, S. P., Gonzalez-Barba, G., Schwennicke, T., and L. Espinosa-Arribarrena, *A fossil Blue Marlin (Makaira nigricans Lacepede) from the middle facies of the Trinidad Formation (upper Miocene to upper Pliocene), San Jose del Cabo basin, Baja California Sur, Mexico*. *Bulletin-Southern California Academy of Sciences*, 2001. **100**(2): p. 69-73.
  61. Fischer, K.M., Ford, H.A., Abt, D.L., and C.A. Rychert, *The Lithosphere-Asthenosphere Boundary*. *Annual Review of Earth and Planetary Sciences*, 2010. **38**: p. 551-575.
  62. Fischer, T.P. and B. Marty, *Volatile abundances in the sub-arc mantle: insights from volcanic and hydrothermal gas discharges*. *Journal of Volcanology and Geothermal Research*, 2005. **140**(1-3): p. 205-216.
  63. Fisher, D.M., Gardner, T. W., Sak, P. B., Sanchez, J. D., Murphy, K., and P. Vannucchi, *Active thrusting in the inner forearc of an erosive convergent margin, Pacific coast, Costa Rica*. *Tectonics*, 2004. **23**(2).
  64. Fletcher, J.M., Grove, M., Kimbrough, D., Lovera, O., and G.E. Gehrels, *Ridge-trench interactions and the Neogene tectonic evolution of the Magdalena shelf and southern Gulf of California: Insights from detrital zircon U-Pb ages from the Magdalena fan and adjacent areas*. *Geological Society of America Bulletin*, 2007. **119**(11-12): p. 1313-1336.
  65. Fletcher, J.M., Kohn, B. P., Foster, D. A., and A.J.W. Gleadow, *Heterogeneous Neogene cooling and exhumation of the Los Cabos block, southern Baja California: Evidence from fission-track thermochronology*. *Geology*, 2000. **28**(2): p. 107-110.
  66. Fletcher, J.M. and L. Munguia, *Active continental rifting in southern Baja California, Mexico: Implications for plate motion partitioning and the transition to seafloor spreading in the Gulf of California*. *Tectonics*, 2000. **19**(6): p. 1107-1123.
  67. Francis, J.M., G.B. Dunbar, G.R. Dickens, I.A. Sutherland, and A.W. Droxler, *Sediment composition in Queensland Trough: Regional transport and accumulation of riverine material on a tropical mixed siliciclastic-carbonate margin*. *Journal of Sedimentary Research*, 2007. **77**: p. 572-586.
  68. Freundt, A., Kutterolf, S., Wehrmann, H., Schmincke, H. U., and W. Strauch, *Eruption of the dacite to andesite zoned Mateare Tephra, and associated tsunamis in Lake Managua, Nicaragua*. *Journal of Volcanology and Geothermal Research*, 2006. **149**(1-2): p. 103-123.
  69. Frische, M., Garofalo, K., Hansteen, T. H., and R. Borchers, *Fluxes and origin of halogenated organic trace gases from Momotombo volcano (Nicaragua)*.

- Geochemistry Geophysics Geosystems, 2006. **7**.
70. Frische, M., Garofalo, K., Hansteen, T. H., Borchers, R., and J. Harnisch, *The origin of stable halogenated compounds in volcanic gases*. Environmental Science and Pollution Research, 2006. **13**(6): p. 406-413.
  71. Fulton, P.M., D. M. Saffer, and B.A. Bekins, *A critical evaluation of crustal dehydration as the cause of an overpressured and weak San Andreas Fault*. Earth and Planetary Science Letters, 2009. **284**(3-4): p. 447-454.
  72. Füre, E., D.R. Hilton, M.D. Tryon, K.M. Brown, G.M. McMurtry, W. Brückmann, and C.G. Wheat, *Carbon release from submarine seeps at the Costa Rica fore arc: Implications for the volatile cycle at the Central America convergent margin*. Geochemistry, Geophysics, Geosystems (G-cubed), 2010. **11**.
  73. Gardner, J., *The West Mariana Ridge, western Pacific Ocean: Geomorphology and processes from new multibeam data*. Geological Society of America Bulletin, 2010. **122**(9): p. 1378-1388.
  74. Gardner, T., Marshall, J., Merritts, D., Bee, B., Burgette, R., Burton, E., Cooke, J., Kehrwald, N., Protti, M., Fisher, D., and P. Sak, *Holocene forearc block rotation in response to seamount subduction, southeastern Peninsula de Nicoya, Costa Rica*. Geology, 2001. **29**(2): p. 151-154.
  75. Ge, S. and E. Screaton, *Modeling seismically induced deformation and fluid flow in the Nankai subduction zone*. Geophysical Research Letters, 2005. **32**(17).
  76. Geldmacher, J., B. B. Hanan, J. Blichert-Toft, K. Hoernle, K. Harpp, F. Hauff, R. Werner, and A. Kerr, *Hafnium isotopic variations in volcanic rocks from the Caribbean, Large Igneous Province and Galápagos paleo-hotspot track*. Geochem. Geophys. Geosyst., 2003. **4**(7).
  77. Ghosh, A., J. E. Vidale, J. R. Sweet, K. C. Creager, A. G. Wech, and H. Houston, *Tremor bands sweep Cascadia*. Geophys. Res. Lett., 2010. **37**.
  78. Ghosh, A., Newman, A. V., Thomas, A. M., and G.T. Farmer, *Interface locking along the subduction megathrust from b-value mapping near Nicoya Peninsula, Costa Rica*. Geophysical Research Letters, 2008. **35**(1).
  79. Goldfinger, C., Grijalva, K., Burgmann, R., Morey, A. E., Johnson, J. E., Nelson, C. H., Gutierrez-Pastor, J., Ericsson, A., Karabanov, E., Chaytor, J. D., Patton, J., and E. Gracia, *Late Holocene rupture of the northern San Andreas fault and possible stress linkage to the Cascadia subduction zone*. Bulletin of the Seismological Society of America, 2008. **98**(2): p. 861-889.
  80. Goldfinger, C., C.H. Nelson, and J.E. Johnson, *Holocene earthquake records from the Cascadia subduction zone and northern San Andreas Fault based on precise dating of offshore turbidites*. Annual Review of Earth and Planetary Sciences, 2003. **31**: p. 555-577.
  81. Gombert, J., et al, *Slow-slip phenomena in Cascadia from 2007 and beyond: A review*. Geol. Soc. Am., Bull., 2010. **122**(7-8): p. 963-978.
  82. Gonzalez-Fernandez, A., Danobeitia, J. J., Delgado-Argote, L. A., Michaud, F., Cordoba, D., and R. Bartolome, *Mode of extension and rifting history of upper Tiburon and upper Delfin basins, northern Gulf of California*. Journal of Geophysical Research-Solid Earth, 2005. **110**(B1).
  83. Goss, A.R. and S.M. Kay, *Steep REE patterns and enriched Pb isotopes in southern Central American arc magmas: Evidence for forearc subduction*

- erosion? Geochemistry Geophysics Geosystems*, 2006. **7**.
84. Greve, S.M. and M.K. Savage, *Modelling seismic anisotropy variations across the Hikurangi subduction margin, New Zealand*. *Earth and Planetary Science Letters* 2009. **285**(1-2): p. 16-26.
  85. Grove, T.L., Till, C.B., Lev, E., Chatterjee, N., and E. Medard, *Kinematic variables and water transport control the formation and location of arc volcanoes*. *Nature*, 2009. **459**: p. 694-697.
  86. Guffanti, M., Ewert, J. W., Gallina, G. M., Bluth, G. J. S., and G.L. Swanson, *Volcanic-ash hazard to aviation during the 2003-2004 eruptive activity of Anatahan volcano, Commonwealth of the Northern Mariana Islands*. *Journal of Volcanology and Geothermal Research*, 2005. **146**(1-3): p. 241-255.
  87. Gulick, S.P.S., Bangs, N. L. B., Shipley, T. H., Nakamura, Y., Moore, G., and S. Kuramoto, *Three-dimensional architecture of the Nankai accretionary prism's imbricate thrust zone off Cape Muroto, Japan: Prism reconstruction via en echelon thrust propagation*. *Journal of Geophysical Research-Solid Earth*, 2004. **109**(B2).
  88. Hacker, B.R., *H2O subduction beyond arcs*. *Geochemistry Geophysics Geosystems*, 2008. **9**.
  89. Hacker, B.R. and G.A. Abers, *Subduction Factory 3: An Excel worksheet and macro for calculating the densities, seismic wave speeds, and H2O contents of minerals and rocks at pressure and temperature*. *Geochemistry Geophysics Geosystems*, 2004. **5**.
  90. Hacker, B.R., G.A. Abers, and S.M. Peacock, *Subduction factory - 1. Theoretical mineralogy, densities, seismic wave speeds, and H2O contents*. *Journal of Geophysical Research-Solid Earth*, 2003. **108**(B1).
  91. Hacker, B.R., Peacock, S. M., Abers, G. A., and S.D. Holloway, *Subduction factory - 2. Are intermediate-depth earthquakes in subducting slabs linked to metamorphic dehydration reactions?* *Journal of Geophysical Research-Solid Earth*, 2003. **108**(B1).
  92. Hacker, B.R., Abers, G. A., Peacock, S. M., and S. Johnston, *Reply to comment by R. Bousquet et al. on - "Subduction factory: 1. Theoretical mineralogy, densities, seismic wave speeds and H2O contents"*. *Journal of Geophysical Research-Solid Earth*, 2005. **110**(B2).
  93. Halfar, J., Godinez-Orta, L., Goodfriend, G. A., Mucciarone, D. A., Ingle, J. C., and P. Holden, *Holocene-Pleistocene carbonate sedimentation and tectonic history of the La Paz area, Baja California Sur, Mexico*. *Sedimentary Geology*, 2001. **144**: p. 149-178.
  94. Han, X.Q., Suess, E., Sahling, H., and K. Wallmann, *Fluid venting activity on the Costa Rica margin: new results from authigenic carbonates*. *International Journal of Earth Sciences*, 2004. **93**(4): p. 596-611.
  95. Hansen, S.E., S.Y. Schwartz, H.R. DeShon, and V. Gonzalez, *Earthquake relocation and focal mechanism determination using waveform cross-correlation, Nicoya Peninsula, Costa Rica*. *Bull. Seismol. Soc. Am.*, 2006. **96**(3): p. 1003-1011.
  96. Hauri, E., Wang, J. H., Dixon, J. E., King, P. L., Mandeville, C., and S. Newman, *SIMS analysis of volatiles in silicate glasses 1. Calibration, matrix effects and*

- comparisons with FTIR*. Chemical Geology, 2002. **183**(1-4): p. 99-114.
97. Hauri, E.H., G.A. Gaetani, and T.H. Green, *Partitioning of water during melting of the Earth's upper mantle at H<sub>2</sub>O-undersaturated conditions*. Earth and Planetary Science Letters, 2006. **248**(3-4): p. 715-734.
  98. Hebert, L.B., P. Antoshechkin, P. Asimow, and M. Gurnis, *Emergence of a low-viscosity channel in subduction zones through the coupling of mantle flow and thermodynamics*. Earth Planet. Sci. Lett., 2009. **278**: p. 243-256.
  99. Heesemann, M., I. Grevemeyer, and H. Villinger, *Thermal constraints on the frictional conditions of the nucleation and rupture area of the 1992 Nicaragua tsunami earthquake*. Geophys. J. Int., 2009. **179**(3): p. 1265-1278.
  100. Heffernan, A.S., J.C. Moore, N.L. Bangs, G.F. Moore, and T.H. Shipley, *Initial deformation in a subduction thrust system: polygonal normal faulting in the incoming sedimentary sequence of the Nankai subduction zone, southwestern Japan, application to the exploration of sedimentary basins*, in *3D Seismic Technology: Application to the Exploration of Sedimentary Basin*, R.J. Davies, et al., Editor. 2004, Memoir—Geol. Soc. London. p. 143–148.
  101. Heki, K., *Secular, transient, and seasonal crustal movements in Japan from a dense GPS array*, in *The Seismogenic Zone of Subduction Thrust Faults*, T.D.a.J.C. Moore, Editor. 2007, Columbia University Press: New York. p. 512-539.
  102. Henry, C.D. and J.J. Aranda-Gomez, *Plate interactions control middle-late Miocene, proto-Gulf and Basin and Range extension in the southern Basin and Range*. Tectonophysics, 2000. **318**(1-4): p. 1-26.
  103. Henry, P., Jouniaux, L., Sreaton, E. J., Hunze, S., and D.M. Saffer, *Anisotropy of electrical conductivity record of initial strain at the toe of the Nankai accretionary wedge*. Journal of Geophysical Research-Solid Earth, 2003. **108**(B9).
  104. Hensen, C., Wallmann, K., Schmidt, M., Ranero, C. R., and E. Suess, *Fluid expulsion related to mud extrusion off Costa Rica - A window to the subducting slab*. Geology, 2004. **32**(3): p. 201-204.
  105. Hensen, C. and K. Wallmann, *Methane formation at Costa Rica continental margin - constraints for gas hydrate inventories and cross-decollement fluid flow*. Earth and Planetary Science Letters, 2005. **236**(1-2): p. 41-60.
  106. Hilton, D.R., T.P. Fischer, and B. Marty, *Noble gases and volatile recycling at subduction zones*. Reviews in Mineralogy and Geochemistry, 2002. **47** (1): p. 319-370.
  107. Hirano, N., Y. Ogawa, and K. Saito, *Long-lived early Cretaceous seamount volcanism in the Mariana Trench, Western Pacific Ocean*. Marine Geology, 2002. **189**(3-4): p. 371-379.
  108. Hirauchi, K., I. Katayama, S. Uehara, M. Miyahara, and Y. Takai, *Inhibition of subduction thrust earthquakes by low-temperature plastic flow in serpentine*. Earth and Planetary Science Letters, 2010. **295**(3-4): p. 349-357.
  109. Hoernle, K., van den Bogaard, P., Werner, R., Lissinna, B., Hauff, F., Alvarado, G., and D. Garbe-Schonberg, *Missing history (16-71 Ma) of the Galapagos hotspot: Implications for the tectonic and biological evolution of the Americas*. Geology, 2002. **30**(9): p. 795-798.



110. Hoernle, K., F. Hauff, and P. van den Bogaard, *A 70 Myr history for the Caribbean Large Igneous Province: Implications for the origin of LIPs*. *Geochimica Et Cosmochimica Acta*, 2004. **68**(11): p. A582-A582.
111. Hoernle, K., F. Hauff, and P. van den Bogaard, *70 m.y. history (139-69 Ma) for the Caribbean large igneous province*. *Geology*, 2004. **32**(8): p. 697-700.
112. Holt, J.W., E.W. Holt, and J.M. Stock, *An age constraint on Gulf of California rifting from the Santa Rosalia Basin, Baja California Sur, Mexico*. *Geological Society of America Bulletin*, 2000. **112**(4): p. 540-549.
113. Holtkamp, S., and M. R. Brudzinski, *Determination of slow slip episodes and strain accumulation along the Cascadia margin*. *J. Geophys. Res.*, 2010. **115**.
114. Holtkamp, S., and M. R. Brudzinski, *Determination of slow slip episodes and strain accumulation along the Cascadia margin*. *J. Geophys. Res.*, 2010. **115**.
115. Hughes, K.L.H., T. Masterlark, and W.D. Mooney, *Poroelastic stress-triggering of the 2005 M8.7 Nias earthquake by the 2004 M9.2 Sumatra–Andaman earthquake*. *Earth and Planetary Science Letters*, 2010. **293**(3-4): p. 289-299.
116. Hulme, S.M., C. G. Wheat, P. Fryer, and M. J. Mottl, *Pore water chemistry of the Mariana serpentinite mud volcanoes: A window to the seismogenic zone*. *Geochem. Geophys. Geosyst.*, 2010. **11**.
117. Hupers, A. and A.J. Kopf, *The thermal influence on the consolidation state of underthrust sediments from the Nankai margin and its implications for excess pore pressure*. *Earth and Planetary Science Letters*, 2009. **286**(1-2): p. 324-332.
118. Husen, S., E. Kissling, and R. Quintero, *Tomographic evidence for a subducted seamount beneath the Gulf of Nicoya, Costa Rica: The cause of the 1990 Mw=7.0 Gulf of Nicoya earthquake*. *Geophysical Research Letters*, 2002. **29**(8).
119. Hyndman, R.D. and S.M. Peacock, *Serpentinization of the forearc mantle*. *Earth and Planetary Science Letters*, 2003. **212**(3-4): p. 417-432.
120. Hyndman, R.D. and K. Wang, *Thermal Constraints on the Zone of Major Thrust Earthquake Failure - the Cascadia Subduction Zone*. *Journal of Geophysical Research-Solid Earth*, 1993. **98**(B2): p. 2039-2060.
121. Hyndman, R.D., M. Yamano, and D.A. Oleskevich, *The seismogenic zone of subduction thrust faults*. *Island Arc*, 1997. **6**(3): p. 244-260.
122. Ide, S., Beroza, G. C., Shelly, D. R., and T. Uchide, *A scaling law for slow earthquakes*. *Nature*, 2007. **447**(7140): p. 76-79.
123. Igarashi, T., Matsuzawa, T., Umino, N., and A. Hasegawa, *Spatial distribution of focal mechanisms for interplate and intraplate earthquakes associated with the subducting Pacific plate beneath the northeastern Japan arc: A triple-planed deep seismic zone*. *Journal of Geophysical Research-Solid Earth*, 2001. **106**(B2): p. 2177-2191.
124. Ikari, M.J., D. M. Saffer, and C. Marone, *Frictional and hydrologic properties of a major splay fault system, Nankai subduction zone*. *Geophys. Res. Lett.*, 2009. **36**.
125. Ikari, M.J., D.M. Saffer, and C. Marone, *Frictional and hydrologic properties of clay-rich fault gouge*. *Journal of Geophysical Research-Solid Earth*, 2009. **114**.
126. Ishii, M., Shearer, P. M., Houston, H., and J.E. Vidale, *Extent, duration and speed of the 2004 Sumatra-Andaman earthquake imaged by the Hi-Net array*. *Nature*, 2005. **435**(7044): p. 933-936.

127. Ishizuka, O., Taylor, R. N., Yuasa, M., Milton, J. A., Nesbitt, R. W., Uto, K., and I. Sakamoto, *Processes controlling along-arc isotopic variation of the southern Izu-Bonin arc*. *Geochemistry Geophysics Geosystems*, 2007. **8**.
128. Isse, T., H. Shiobara, Y. Tamura, D. Suetsugu, K. Yoshizawa, H. Sugioka, A. Ito, T. Kanazawa, M. Shinohara, K. Mochizuki, E. Araki, K. Nakahigashi, H. Kawakatsu, A. Shito, Y. Fukao, O. Ishizuka, and J.B. Gill, *Seismic structure of the upper mantle beneath the Philippine Sea from seafloor and land observation: Implications for mantle convection and magma genesis in the Izu–Bonin–Mariana subduction zone*. *Earth and Planetary Science Letters*, 2009. **278**(1-2): p. 107-119.
129. Ito, Y. and K. Obara, *Very low frequency earthquakes within accretionary prisms are very low stress-drop earthquakes*. *Geophysical Research Letters*, 2006. **33**(9).
130. Ivandic, M., I. Grevemeyer, A. Berhorst, E.R. Flueh, and K. McIntosh, *Impact of bending related faulting on the seismic properties of the incoming oceanic plate offshore of Nicaragua*. *J. Geophys. Res.*, 2008. **113**.
131. John, T., et al., *Chlorine isotope evidence for crustal recycling into the Earth's mantle*. *Earth and Planetary Science Letters*, 2010. **298**(1-2): p. 175-182.
132. Johnson, M.C. and T. Plank, *Dehydration and melting experiments constrain the fate of subducted sediments*. *Geochem. Geophys. Geosyst.*, 1999. **1**.
133. Kaneshima, S., *Seismic scatterers at the shallowest lower mantle beneath subducted slabs*. *Earth and Planetary Science Letters*, 2009. **286**(1-2): p. 304-315.
134. Kao, H., K. Wang, H. Dragert, J.Y. Kao, and G. Rogers *Estimating seismic moment magnitude ( $M_w$ ) of tremor bursts in northern Cascadia: Implications for the “seismic efficiency” of episodic tremor and slip*. *Geophys. Res. Lett.*, 2010. **37**.
135. Kato, A., et al., *Variations of fluid pressure within the subducting oceanic crust and slow earthquakes*. *Geophys. Res. Lett.*, 2010. **37**.
136. Kelemen, P.B. and G. Hirth, *A periodic shear-heating mechanism for intermediate-depth earthquakes in the mantle*. *Nature*, 2007. **446**(7137): p. 787-790.
137. Kelley, K.A., Plank, T., Farr, L., Ludden, J., and H. Staudigel, *Subduction cycling of U, Th, and Pb*. *Earth and Planetary Science Letters*, 2005. **234**(3-4): p. 369-383.
138. Keranen, K.M., Klemperer, S. L., Julia, J., Lawrence, J. F., and A.A. Nyblade, *Low lower crustal velocity across Ethiopia: Is the Main Ethiopian Rift a narrow rift in a hot craton?* *Geochemistry Geophysics Geosystems*, 2009. **10**.
139. Kimura, G., E.J. Screaton, and D. Curewitz, *NanTroSEIZE Stage 1A: NanTroSEIZE shallow megasplay and frontal thrusts*. IODP Prel. Rept., 2008. **316**.
140. Kimura, J.I., R.J. Stern, and T. Yoshida, *Reinitiation of subduction and magmatic responses in SW Japan during Neogene time*. *Geological Society of America Bulletin*, 2005. **117**(7-8): p. 969-986.
141. Kitamura, Y., T. Kanamatsu, and X. Zhao, *Structural evolution in accretionary prism toe revealed by magnetic fabric analysis from IODP NanTroSEIZE*

- Expedition 316*. Earth and Planetary Science Letters, 2010. **292**(1-2): p. 221-230.
142. Kodaira, S., N. Noguchi, N. Takahashi, O. Ishizuka, and Y. Kaneda, *Evolution from fore-arc oceanic crust to island arc crust: A seismic study along the Izu-Bonin fore arc*. J. Geophys. Res., 2010. **115**.
  143. Kodaira, S., Iidaka, T., Kato, A., Park, J. O., Iwasaki, T., and Y. Kaneda, *High pore fluid pressure may cause silent slip in the Nankai Trough*. Science, 2004. **304**(5675): p. 1295-1298.
  144. Kodaira, S., T. Sato, N. Takahashi, S. Miura, Y. Tamura, Y. Tatsumi, and Y. Kaneda, *New seismological constraints on growth of continental crust in the Izu-Bonin intra-oceanic arc*. Geology, 2007. **35**: p. 1031-1034.
  145. Kodaira, S., T. Sato, N. Takahashi, M. Yamashita, T. No, and Y. Kaneda, *Seismic imaging of a possible paleoarc in the Izu-Bonin intraoceanic arc and its implications for arc evolution processes*. Geochem. Geophys. Geosyst., 2008. **9**.
  146. Kubo, T., S. Kaneshima, Y. Torii, and S. Yoshioka, *Seismological and experimental constraints on metastable phase transformations and rheology of the Mariana slab*. Earth and Planetary Science Letters, 2009. **287**(1-2): p. 12-23.
  147. Kutterolf, S., A. Freundt, and W. Perez, *Pacific offshore record of plinian arc volcanism in Central America: 2. Tephra volumes and erupted masses*. Geochem. Geophys. Geosyst., 2008. **9**.
  148. Kutterolf, S., A. Freundt, U. Schacht, D. Burk, R. Harders, T. Morz, and W. Perez, *Pacific offshore record of plinian arc volcanism in Central America: 3. Application to forearc geology*. Geochem. Geophys. Geosyst., 2008. **9**.
  149. Kutterolf, S., A. Freundt, W. Perez, T. Morz, U. Schacht, H. Wehrmann, and H.-U. Schmincke, *Pacific offshore record of plinian arc volcanism in Central America: 1. Along-arc correlations*. Geochem. Geophys. Geosyst., 2008. **9**.
  150. La Rocca, M., D. Galluzzo, S. Malone, W. McCausland, and E. Del Pezzo, *Array analysis and precise source location of deep tremor in Cascadia*. J. Geophys. Res., 2010. **115**.
  151. LaBonte, A.L., K.M. Brown, and Y. Fialko, *Hydrologic detection and finite element modeling of a slow slip event in the Costa Rica prism toe*. Journal of Geophysical Research-Solid Earth, 2009. **114**.
  152. Langmuir, C., A. Bezos, S. Escrig, and S. Parman, *Chemical systematics and hydrous melting of the mantle in Back-Arc Basins*, in *Back-Arc Spreading Systems - Geological, Biological, Chemical, and Physical Interactions*, D.M. Christie, et al., Editors. 2006, AGU. p. 87-146.
  153. Lay, T. and S.Y. Schwartz, *Comment on "Coupling Semantics and Science in Earthquake Research"*. EOS, Trans. Am. Geophys. Union, 2004. **85**(36): p. 339-340.
  154. Lefeldt, M., Grevemeyer, I., Gossler, J., and J. Bialas, *Intraplate seismicity and related mantle hydration at the Nicaraguan trench outer rise*. Geophys. J. Int., 2009. **178**: p. 742-752.
  155. Leonard, L.J., et al., *Rupture area and displacement of past Cascadia great earthquakes from coastal coseismic subsidence*. Geol. Soc. Am. Bull., 2010. **122**(11-12): p. 2079-2096.
  156. Lewis, J.C., A. C. Boozer, A. Lopez, and W. Montero, *Collision versus sliver transport in the hanging wall at the Middle America subduction zone: Constraints*

- from background seismicity in central Costa Rica. Geochem. Geophys. Geosyst.*, 2008. **9**.
157. Lin, W., et al., *Present-day principal horizontal stress orientations in the Kumano forearc basin of the southwest Japan subduction zone determined from IODP NanTroSEIZE drilling Site C0009. Geophys. Res. Lett.*, 2010. **37**.
  158. Lin, W., M.-L. Doan, J.C. Moore, L. McNeill, T.B. Byrne, T. Ito, D. Saffer, M. Conin, M. Kinoshita, Y. Sanada, K.T. Moe, E. Araki, H. Tobin, D. Boutt, Y. Kano, N. W. Hayman, P. Flemings, G. J. Huftile, D. Cukur, C. Buret, A. M. Schleicher, N. Efimenko, K. Kawabata, D. M. Buchs, S. Jiang, K. Kameo, K. Horiguchi, T. Wiersberg, A. Kopf, K. Kitada, N. Eguchi, S. Toczko, K. Takahashi, and Y. Kido, *Present-day principal horizontal stress orientations in the Kumano forearc basin of the southwest Japan subduction zone determined from IODP NanTroSEIZE drilling Site C0009. Geophys. Res. Lett.*, 2010. **37**.
  159. Linke, P., Wallmann, K., Suess, E., Hensen, C., and G. Rehder, *In situ benthic fluxes from an intermittently active mud volcano at the Costa Rica convergent margin. Earth and Planetary Science Letters*, 2005. **235**(1-2): p. 79-95.
  160. Loveless, J.P., and B. J. Meade, *Geodetic imaging of plate motions, slip rates, and partitioning of deformation in Japan. J. Geophys. Res.*, 2010. **115**.
  161. Lu, H. and C.S. Fulthorpe, *Controls on sequence stratigraphy of a middle Miocene–Holocene, current-swept, passive margin: Offshore Canterbury Basin, New Zealand. GSA Bulletin*, 2004. **116**(11-12): p. 1345-1366.
  162. Lu, H., C.S. Fulthorpe, and P. Mann, *Three-dimensional architecture of shelf-building sediment drifts in the offshore Canterbury Basin, New Zealand. Marine Geology*, 2003. **193**(1): p. 19-47(29).
  163. Ludden, J., T. Plank, R. Larson, and C. Escutia, *ODP Leg 185: Sampling the oldest crust in the ocean basins to understand Earth's geodynamic and geochemical fluxes. Leg Synthesis. Proc. ODP, Sci. Res.*, 2006. **185**.
  164. Lupton, J., Butterfield, D., Lilley, M., Evans, L., Nakamura, K. I., Chadwick, W., Resing, J., Embley, R., Olson, E., Proskurowski, G., Baker, E., de Ronde, C., Roe, K., Greene, R., Lebon, G., and C. Young, *Submarine venting of liquid carbon dioxide on a Mariana Arc volcano. Geochemistry Geophysics Geosystems*, 2006. **7**.
  165. Maceira, M., C. A. Rowe, G. Beroza, and D. Anderson, *Identification of low-frequency earthquakes in non-volcanic tremor using the subspace detector method. Geophys. Res. Lett.*, 2010. **37**.
  166. Macpherson, C.G. and R. Hall, *Tectonic setting of Eocene boninite magmatism in the Izu-Bonin-Mariana forearc. Earth and Planetary Science Letters*, 2001. **186**(2): p. 215-230.
  167. Manning, C.E., A. Antignano, and H.A. Lin, *Premelting polymerization of crustal and mantle fluids, as indicated by the solubility of albite + paragonite + quartz in H<sub>2</sub>O at 1 GPa and 350–620 °C. Earth and Planetary Science Letters*, 2010. **292**(3-4): p. 325-336.
  168. Marsaglia, K.M., *Sandstone detrital modes support Magdalena Fan displacement from the mouth of the Gulf of California. Geology*, 2004. **32**(1): p. 45-48.
  169. Marshall, J.S., LaFromboise, E.J., Gardner, T.W., and M. Protti, *Segmented forearc deformation along the Nicoya Peninsula seismic gap, Costa Rica. 2007*,

- Eos Trans. AGU, Fall Meet. Suppl., Abstract T53A-1121.
170. Masterlark, T., M. Haney, H. Dickinson, T. Fournier, and C. Searcy, *Rheologic and structural controls on the deformation of Okmok volcano, Alaska: FEMs, InSAR, and ambient noise tomography*. J. Geophys. Res., 2010. **115**.
  171. McCausland, W.A., K. C. Creager, M. La Rocca, and S. D. Malone, *Short-term and long-term tremor migration patterns of the Cascadia 2004 tremor and slow slip episode using small aperture seismic arrays*. J. Geophys. Res., 2010. **115**.
  172. McClusky, S., R. Reilinger, S. Mahmoud, D. Ben Sari and A. Tealeb, *GPS constraints on Africa (Nubia) and Arabia plate motions*. Geophysical Journal International, 2003. **155**(1): p. 126 - 138.
  173. McGonigle, A., D.R. Hilton, T.P. Fischer, and C. Oppenheimer, *Plume velocity determination for volcanic SO<sub>2</sub> flux measurements*. Geophys Res. Lett., 2005. **32**.
  174. McNeill, L.C., Ienaga, M., Tobin, H., Saito, S., Goldberg, D., Moore, J. C., and H. Mikada, *Deformation and in situ stress in the Nankai Accretionary Prism from resistivity-at-bit images, ODP Leg 196*. Geophysical Research Letters, 2004. **31**(2).
  175. Michaud, F., Calmus, T., Royer, J., Sosson, M., Bandy, B., Mortera-Gutierrez, C., Dymant, J., Bigot-Cormier, F., Chabert, A., and Bourgois, J., *Right-lateral active faulting between southern Baja California and the Pacific Plate; the Tosco-Abreojos Fault*. Geology of Mexico; celebrating the centenary of the Geological Society of Mexico: Special Paper - Geological Society of America, 2007. **422**: p. 287-300.
  176. Michaud, F., Royer, J. Y., Bourgois, J., Dymant, J., Calmus, T., Bandy, W., Sosson, M., Mortera-Gutierrez, C., Sichler, B., Rebolledo-Viera, M., and B. Pontoise, *Oceanic-ridge subduction vs. slab break off: Plate tectonic evolution along the Baja California Sur continental margin since 15 Ma*. Geology, 2006. **34**(1): p. 13-16.
  177. Michaud, F., Sosson, M., Royer, J. Y., Chabert, A., Bourgois, J., Calmus, T., Mortera, C., Bigot-Cormier, F., Bandy, W., Dymant, J., Pontoise, B., and B. Sichler, *Motion partitioning between the Pacific plate, Baja California and the North America plate: The Tosco-Abreojos fault revisited*. Geophysical Research Letters, 2004. **31**(8).
  178. Michibayashi, K., Ohara, Y., Stern, R. J., Fryer, P., Kimura, J. I., Tasaka, M., and T. Ishii, *Peridotites from a ductile shear zone within back-arc lithospheric mantle, southern Mariana Trench: Results of a Shinkai 6500 dive*. Geochemistry Geophysics Geosystems, 2009. **10**.
  179. Michibayashi, K., Oohara, T., Satsukawa, T., Ishimaru, S. Arai, S., and V.M. Okrugin, *Rock seismic anisotropy of the low-velocity zone beneath the volcanic front in the mantle wedge*. Geophys. Res. Lett., 2009. **36**(12).
  180. Miller, M.S., A. Gorbatov, and B.L.N. Kennett, *Three-dimensional visualization of a near-vertical slab tear beneath the southern Mariana arc*. Geochemistry Geophysics Geosystems, 2006. **7**.
  181. Mochizuki, K., K. Nakahigashi, A. Kuwano, T. Yamada, M. Shinohara, S. Sakai, T. Kanazawa, K. Uehira, and H. Shimizu, *Seismic characteristics around the fault segment boundary of historical great earthquakes along the Nankai Trough*

- revealed by repeated long-term OBS observations. Geophys. Res. Lett.*, 2010. **37**.
182. Mochizuki, K., K. Nakahigashi, A. Kuwano, T. Yamada, M. Shinohara, S. Sakai, T. Kanazawa, K. Uehira, and H. Shimizu, *Seismic characteristics around the fault segment boundary of historical great earthquakes along the Nankai Trough revealed by repeated long-term OBS observations. Geophys. Res. Lett.*, 2010. **37**.
183. Morgan, J.K., E. Silver, A. Camerlenghi, B. Dugan, S. Kirby, C. Shipp, and K. Suyehiro, *Addressing geohazards through ocean drilling. Scientific Drilling*, 2009. **7**.
184. Morley, C.K., *Stress re-orientation along zones of weak fabrics in rifts: An explanation for pure extension in oblique rift segments? Earth and Planetary Science Letters*, 2010. **297**(3-4): p. 667-673.
185. Morris, J., R. Valentine, and T. Harrison, *Be-10 imaging of sediment accretion and subduction along the northeast Japan and Costa Rica convergent margins. Geology*, 2002. **30**(1): p. 59-62.
186. Nagel, T.J. and W.R. Buck, *Control of rheological stratification on rifting geometry: a symmetric model resolving the upper plate paradox. International Journal of Earth Sciences*, 2007. **96**(6): p. 1047-1057.
187. Nakada, S., Matsushima, T., Yoshimoto, M., Sugimoto, T., Kato, T., Watanabe, T., Chong, R., and J.T. Camacho, *Geological aspects of the 2003-2004 eruption of Anatahan Volcano, Northern Mariana Islands. Journal of Volcanology and Geothermal Research*, 2005. **146**(1-3): p. 226-240.
188. Nakajima, J., and A. Hasegawa, *Cause of M 7 intraslab earthquakes beneath the Tokyo metropolitan area, Japan: Possible evidence for a vertical tear at the easternmost portion of the Philippine Sea slab. J. Geophys. Res.*, 2010. **115**.
189. Nava-Sanchez, E.H., D.S. Gorsline, and A. Molina-Cruz, *The Baja California peninsula borderland: structural and sedimentological characteristics. Sedimentary Geology*, 2001. **144**(1-2): p. 63-82.
190. Nelson, P.A., J. G. Venditti, W. E. Dietrich, J. W. Kirchner, H. Ikeda, F. Iseya, and L.S. Sklar, *Response of bed surface patchiness to reductions in sediment supply. J. Geophys. Res.*, 2009. **114**(F02005).
191. Newman, S., E. Stolper, and R.J. Stern, *H<sub>2</sub>O and CO<sub>2</sub> in magmas from the Mariana arc and back arc systems. Geochemistry Geophysics Geosystems*, 2000. **1**(5).
192. Nicholson, C., Sorlien, C. C., Atwater, T., Crowell, J. C., and B.P. Luyendyk, *Microplate Capture, Rotation of the Western Transverse Ranges, and Initiation of the San-Andreas Transform as a Low-Angle Fault System. Geology*, 1994. **22**(6): p. 491-495.
193. Niemeijera, A., D. Elsworth, and C. Marone, *Significant effect of grain size distribution on compaction rates in granular aggregates. Earth and Planetary Science Letters* 2009. **284**(3-4): p. 386-391.
194. Nugraha, A.D., J. Mori, and S. Ohmi, *Thermal structure of the subduction zone in western Japan derived from seismic attenuation data. Geophys. Res. Lett.*, 2010. **37**.
195. Obana, K., S. Kamiya, S. Kodaira, D. Suetsugu, N. Takahashi, T. Takahashi, and

- Y. Tamura, *Along-arc variation in seismic velocity structure related to variable growth of arc crust in northern Izu-Bonin intraoceanic arc*. *Geochem. Geophys. Geosyst.*, 2010. **11**.
196. Obana, K. and S. Kodaira, *Low-frequency tremors associated with reverse faults in a shallow accretionary prism*. *Earth and Planetary Science Letters*, 2009. **287**(1-2): p. 168-174.
197. Obara, K., *Nonvolcanic deep tremor associated with subduction in southwest Japan*. *Science*, 2002. **296**(5573): p. 1679-1681.
198. Obara, K., S. Tanaka, T. Maeda, and T. Matsuzawa, *Depth-dependent activity of non-volcanic tremor in southwest Japan*. *Geophys. Res. Lett.*, 2010. **37**.
199. Obrebski, M., R. M. Allen, M. Xue, and S.-H. Hung, *Slab-plume interaction beneath the Pacific Northwest*. *Geophys. Res. Lett.*, 2010. **37**.
200. Obrebski, M., R.M. Allen, M. Xue, and S.-H. Hung, *Slab-plume interaction beneath the Pacific Northwest*. *Geophys. Res. Lett.*, 2010. **37**.
201. Ochoa-Landin, L., Ruiz, J., Calmus, T., Perez-Segura, E., and Escandon, F., *Sedimentology and stratigraphy of the upper Miocene el Boleo Formation, Santa Rosalia, Baja California, Mexico*. *Revista Mexicana de Ciencias Geologicas*, 2000. **17**: p. 83-95.
202. Oskin, M., J. Stock, and A. Martin-Barajas, *Rapid localization of Pacific-North America plate motion in the Gulf of California*. *Geology*, 2001. **29**(5): p. 459-462.
203. Padron-Navarta, J.A., et al., *Fluid transfer into the wedge controlled by high-pressure hydrofracturing in the cold top-slab mantle*. *Earth and Planetary Science Letters*, 2010. **297**(1-2): p. 271-286.
204. Pallister, J.S., Trusdell, F. A., Brownfield, I. K., Siems, D. F., Budahn, J. R., and S.F. Sutley, *The 2003 phreatomagmatic eruptions of Anatahan volcano--textural and petrologic features of deposits at an emergent island volcano*. *Journal of Volcanology and Geothermal Research*, 2005. **146**(1-3): p. 208-225.
205. Park, J.-O., Tsuru, T., Kodaira, S., Cummins, P. R., and Y. Kaneda, *Splay fault branching along the Nankai subduction zone*. *Science*, 2002. **297**(5584): p. 1157-1160.
206. Peacock, S.M., *Thermal Structure and Metamorphic Evolution of Subducting Slabs*, in *Inside the Subduction Factory*, J. Eiler, Editor. 2003, American Geophysical Union. p. 7-22.
207. Peacock, S.M., *Thermal and metamorphic environment of subduction zone episodic tremor and slip*. *J. Geophys. Res.*, 2009. **114**.
208. Peacock, S.M., van Keken, P. E., Holloway, S. D., Hacker, B. R., Abers, G. A., and R.L. Fergason, *Thermal structure of the Costa Rica - Nicaragua subduction zone*. *Physics of the Earth and Planetary Interiors*, 2005. **149**(1-2): p. 187-200.
209. Penniston-Dorland, S.C., S. S. Sorensen, R. D. Ash, and S.V. Khadke, *Lithium isotopes as a tracer of fluids in a subduction zone mélange: Franciscan Complex, CA*. *Earth and Planetary Science Letters*, 2010. **292**(1-2): p. 181-190.
210. Persaud, P., et al., *Active deformation and shallow structure of the Wagner, Consag, and Delfin Basins, northern Gulf of California, Mexico*. *Jour. Geophys. Res*, 2003. **108**(B7): p. 2355.
211. Pertermann, M. and C.C. Lundstrom, *Phase equilibrium experiments at 0.5 GPa and 1100-1300 degrees C on a basaltic andesite from Arenal volcano, Costa*

- Rica. *Journal of Volcanology and Geothermal Research*, 2006. **157**(1-3): p. 222-235.
212. Peterson, C.L. and D.H. Christensen, *Possible relationship between nonvolcanic tremor and the 1998-2001 slow slip event, south central Alaska*. *J. Geophys. Res.*, 2009. **114**(B6).
213. Pfeffer, M.A., Rietmeijer, F. J. M., Brearley, A. J. and T.P. Fischer, *Electron microbeam analyses of aerosol particles from the plume of Poas Volcano, Costa Rica and comparison with equilibrium plume chemistry modeling*. *Journal of Volcanology and Geothermal Research*, 2006. **152**(1-2): p. 174-188.
214. Plank, T., *Constraints from thorium/lanthanum on sediment recycling at subduction zones and the evolution of the continents*. *Journal of Petrology*, 2005. **46**(5): p. 921-944.
215. Plank, T., V. Balzer, and M. Carr, *Nicaraguan volcanoes record paleoceanographic changes accompanying closure of the Panama gateway*. *Geology*, 2002. **30**(12): p. 1087-1090.
216. Plattner, C., Malservisi, R., Dixon, T. H., LaFemina, P., Sella, G. F., Fletcher, J., and F. Suarez-Vidal, *New constraints on relative motion between the Pacific Plate and Baja California microplate (Mexico) from GPS measurements*. *Geophysical Journal International*, 2007. **170**(3): p. 1373-1380.
217. Protti, M., F. Guendel, and K. McNally, *Correlation between the age of the subducting Cocos plate and the geometry of the Wadati-Benioff zone under Nicaragua and Costa Rica*, in *Geologic and Tectonic Development of the Caribbean Plate Boundary in Southern Central America*, P. Mann, Editor. 1995, Spec. Pap. Geol. Soc. Am. p. 309 – 326.
218. Pytte, A.M. and R.C. Reynolds, *The thermal transformation of smectite to illite. In thermal history of sedimentary basins: methods and case history*, in *Thermal history of sedimentary basins*, N.D. Naeser and T.H. McCulloh, Editors. 1989, Springer Verlag. p. 133–140.
219. Ranero, C.R., von Huene, R., Flueh, E., Duarte, M., Baca, D., and K. McIntosh, *A cross section of the convergent Pacific margin of Nicaragua*. *Tectonics*, 2000. **19**(2): p. 335-357.
220. Ranero, C.R., I. Grevemeyer, H. Sahling, U. Barckhausen, C. Hensen, K. Wallmann, W. Weinrebe, P. Vannucchi, R. von Huene, and K. McIntosh, *Hydrogeological system of erosional convergent margins and its influence on tectonics and interplate seismogenesis*. *Geochem. Geophys. Geosyst.*, 2008. **9**.
221. Ranero, C.R., Villasenor, A., Morgan, J. P., and W. Weinrebe, *Relationship between bend-faulting at trenches and intermediate-depth seismicity*. *Geochemistry Geophysics Geosystems*, 2005. **6**.
222. Reagan, M.K., Tepley, F. J., Gill, J. B., Wortel, M., and J. Garrison, *Timescales of degassing and crystallization implied by Po-210-Pb-210-Ra-226 disequilibria for andesitic lavas erupted from Arenal volcano*. *Journal of Volcanology and Geothermal Research*, 2006. **157**(1-3): p. 135-146.
223. Resing, J.A., Baker, E. T., Lupton, J. E., Walker, S. L., Butterfield, D. A., Massoth, G. J., and K. Nakamura, *Chemistry of hydrothermal plumes above submarine volcanoes of the Mariana Arc*. *Geochemistry Geophysics Geosystems*, 2009. **10**.



224. Richardson, E. and C. Marone, *Geophysics - What triggers tremor?* Science, 2008. **319**(5860): p. 166-167.
225. Roda, M., A. M. Marotta, and M. I. Spalla, *Numerical simulations of an ocean-continent convergent system: Influence of subduction geometry and mantle wedge hydration on crustal recycling.* Geochem. Geophys. Geosyst., 2010. **11**.
226. Rogers, G. and H. Dragert, *Episodic tremor and slip on the Cascadia subduction zone: The chatter of silent slip.* Science, 2003. **300**(5627): p. 1942-1943.
227. Roggensack, K., *Sizing up crystals and their melt inclusions: a new approach to crystallization studies.* Earth and Planetary Science Letters, 2001. **187**(1-2): p. 221-237.
228. Roggensack, K., *Unraveling the 1974 eruption of Fuego volcano (Guatemala) with small crystals and their young melt inclusions.* Geology, 2001. **29**(10): p. 911-914.
229. Rowland, S.K., Lockwood, J. P., Trusdell, F. A., Moore, R. B., Sako, M. K., Koyanagi, R. Y., and G. Kojima, *Anatahan, Northern Mariana Islands: Reconnaissance geological observations during and after the volcanic crisis of spring 1990, and monitoring prior to the May 2003 eruption.* Journal of Volcanology and Geothermal Research, 2005. **146**(1-3): p. 26-59.
230. Rudnick, R.L., P. B. Tomascak, H. B. Njo, and L.R. Gardner, *Extreme lithium isotopic fractionation during continental weathering revealed in saprolites from South Carolina.* Chemical Geology (Lithium Isotope Geochemistry Special Issue), 2004. **212**(1-2): p. 45-57.
231. Rupke, L.H., Morgan, J. P., Hort, M., and J.A.D. Connolly, *Are the regional variations in Central American arc lavas due to differing basaltic versus peridotitic slab sources of fluids?* Geology, 2002. **30**(11): p. 1035-1038.
232. Rupke, L.H., Morgan, J. P., Hort, M., and J.A.D. Connolly, *Serpentine and the subduction zone water cycle.* Earth and Planetary Science Letters, 2004. **223**(1-2): p. 17-34.
233. Ruscitto, D.M., et al., *Volatile contents of mafic magmas from cinder cones in the Central Oregon High Cascades: Implications for magma formation and mantle conditions in a hot arc.* Earth and Planetary Science Letters, 2010. **298**(1-2): p. 153-161
234. Ryder, C.H., Gill, J. B., Tepley, F., Ramos, F., and M. Reagan, *Closed- to open-system differentiation at Arenal volcano (1968-2003).* Journal of Volcanology and Geothermal Research, 2006. **157**(1-3): p. 75-93.
235. Saffer, D.M. and C. Marone, *Comparison of smectite- and illite-rich gouge frictional properties: application to the updip limit of the seismogenic zone along subduction megathrusts.* Earth and Planetary Science Letters, 2003. **215**(1-2): p. 219-235.
236. Saffer, D.M. and E.J. Screaton, *Fluid flow at the toe of convergent margins: interpretation of sharp pore-water geochemical gradients.* Earth and Planetary Science Letters, 2003. **213**(3-4): p. 261-270.
237. Sahling, H., D. G. Masson, C. R. Ranero, V. Huhnerbach, W. Weinrebe, I. Klaucke, D. Burk, W. Bruckmann, and E. Suess, *Fluid seepage at the continental margin offshore Costa Rica and southern Nicaragua.* Geochem. Geophys. Geosyst., 2008. **9**.

238. Saito, S. and D. Goldberg, *Compaction and dewatering processes of the oceanic sediments in the Costa Rica and Barbados subduction zones: estimates from in situ physical property measurements*. Earth and Planetary Science Letters, 2001. **191**(3-4): p. 283-293.
239. Sak, P.B., D.M. Fisher, and T.W. Gardner, *Effects of subducting seafloor roughness on upper plate vertical tectonism: Osa Peninsula, Costa Rica*. Tectonics, 2004. **23**(1).
240. Schmidt, D.A., and H. Gao, *Source parameters and time-dependent slip distributions of slow slip events on the Cascadia subduction zone from 1998 to 2008*. J. Geophys. Res., 2010. **115**.
241. Scholz, C.H., *Earthquakes and friction laws*. Nature, 1998. **391**(6662): p. 37-42.
242. Schwartz, S.Y., *Episodic Aseismic Slip at Plate Boundaries*, in *Earthquake Seismology*, H. Kanamori, Editor. 2007, Elsevier Press: Netherlands.
243. Screaton, E., G. Kimura, D. Curewitz, et al., *Interactions between deformation and fluids in the frontal thrust region of the NanTroSEIZE transect offshore the Kii Peninsula, Japan: Results from IODP Expedition 316 Sites C0006 and C0007*. Geochem. Geophys. Geosyst, 2009. **10**.
244. Screaton, E., Saffer, D., Henry, P., and S. Hunze, *Porosity loss within the underthrust sediments of the Nankai accretionary complex: Implications for overpressures*. Geology, 2002. **30**(1): p. 19-22.
245. Screaton, E.J. and S. Ge, *Modeling of the effects of propagating thrust slip on pore pressures and implications for monitoring*. Earth and Planetary Science Letters, 2007. **258**(3-4): p. 454-464.
246. Screaton, E.J. and D.M. Saffer, *Fluid expulsion and overpressure development during initial subduction at the Costa Rica convergent margin*. Earth and Planetary Science Letters, 2005. **233**(3-4): p. 361-374.
247. Scudder, R.P., R.W. Murray, and T. Plank, *Dispersed ash in deeply buried sediment from the northwest Pacific Ocean: An example from the Izu-Bonin arc (ODP Site 1149)*. Earth and Planetary Science Letters, 2009. **284**(3-4): p. 639-648.
248. Segall, P. and J.R. Rice, *Does shear heating of pore fluid contribute to earthquake nucleation?* Journal of Geophysical Research-Solid Earth, 2006. **111**(B9).
249. Seiler, C., A.J.W. Gleadow, J.M. Fletcher, and B.P. Kohn, *Thermal evolution of a sheared continental margin: Insights from the Ballenas transform in Baja California, Mexico*. Earth and Planetary Science Letters, 2009. **285**(1-2): p. 61-74.
250. Seno, T., *Determination of the pore fluid pressure ratio at seismogenic megathrusts in subduction zones: Implications for strength of asperities and Andean-type mountain building*. Journal of Geophysical Research-Solid Earth, 2009. **114**.
251. Shelly, D.R., G.C. Beroza, and I. Satoshi, *Non-volcanic tremor and low-frequency earthquake swarms*. Nature, 2007. **446**: p. 305-307.
252. Shirvell, C.R., Stockli, D. F., Axen, G. J., and M. Grove, *Miocene-Pliocene exhumation along the west Salton detachment fault, southern California, from (U-Th)/He thermochronometry of apatite and zircon*. Tectonics, 2009. **28**.

253. Shito, A., Shiobara, H., Sugioka, H., Ito, A., Takei, Y., Kawakatsu, H., and T. Kanazawa, *Physical properties of subducted slab and surrounding mantle in the Izu-Bonin subduction zone based on Broadband Ocean Bottom Seismometer data*. Journal of Geophysical Research-Solid Earth, 2009. **114**.
254. Shukuno, H., Tamura, Y., Tani, K., Chang, Q., Suzuki, T., and R.S. Fiske, *Origin of silicic magmas and the compositional gap at Sumisu submarine caldera, Izu-Bonin arc, Japan*. Journal of Volcanology and Geothermal Research, 2006. **156**(3-4): p. 187-216.
255. Silver, E., Kastner, M., Fisher, A., Morris, J., McIntosh, K., and D. Saffer, *Fluid flow paths in the Middle America Trench and Costa Rica margin*. Geology, 2000. **28**(8): p. 679-682.
256. Silver, E., S. Day, S. Ward, G. Hoffmann, P. Llanes, N. Driscoll, B. Appelgate, and S. Saunders, *Volcano collapse and tsunami generation in the Bismarck Volcanic Arc, Papua New Guinea*. Journal of Volcanology and Geothermal Research, 2009. **186**(3-4): p. 210-222.
257. Silver, P.G. and W.E. Holt, *The mantle flow field beneath western North America*. Science, 2002. **295**(5557): p. 1054-1057.
258. Slingerland, R., J.M. Syvitski, and C. Paola, *Sediment Modeling System enhances education and research*. Eos Trans. AGU, 2002. **83**(49): p. 578.
259. Snyder, G., Poreda, R., Hunt, A., and U. Fehn, *Regional variations in volatile composition: Isotopic evidence for carbonate recycling in the Central American volcanic arc*. Geochemistry Geophysics Geosystems, 2001. **2**.
260. Snyder, G., R. Poreda, U. Fehn, and A. Hunt, *Sources of nitrogen and methane in Central American geothermal settings: Noble gas and <sup>129</sup>I evidence for crustal and magmatic volatile components*. Geochem. Geophys. Geosyst., 2003. **4**(1): p. 9001.
261. Snyder, G.T. and U. Fehn, *<sup>129</sup>I in volcanic fluids: testing for the presence of marine sediments in the Central American volcanic arc*. Nuclear Instruments and Methods in Physics Research Section B: Beam Interactions with Materials and Atoms, 2000. **172**(1-4): p. 568-573.
262. Snyder, G.T. and U. Fehn, *The origin of iodine in volcanic fluids: <sup>129</sup>I results from the Central American Volcanic Arc*. Geochimica et Cosmochimica Acta, 2002. **66**(21): p. 3827-3838.
263. Solomon, E.A., Kastner, M., Wheat, C. G., Jannasch, H., Robertson, G., Davis, E. E., and J.D. Morris, *Long-term hydrogeochemical records in the oceanic basement and forearc prism at the Costa Rica subduction zone*. Earth and Planetary Science Letters, 2009. **282**(1-4): p. 240-251.
264. Soto, G.J. and G.E. Alvarado, *Eruptive history of Arenal volcano, Costa Rica, 7 ka to present*. Journal of Volcanology and Geothermal Research, 2006. **157**(1-3): p. 254-269.
265. Spicak, A., J. Vanek, and V. Hanus, *Seismically active column and volcanic plumbing system beneath the island arc of the Izu-Bonin subduction zone*. Geophys. J. Int., 2009. **179**(3): p. 1301-1312.
266. Stankova-Pursley, J., S.L. Bilek, W.S. Phillips, and A.V. Newman, *Analysis of apparent stress, Mw distribution, and scaling relationships for subduction zone earthquakes along the Nicoya Peninsula, Costa Rica*. Seismological Research

- Letters, 2008. **79**(2): p. 356.
267. Stern, R.J., *Subduction zones*. Reviews of Geophysics, 2002. **40**(4).
268. Stern, R.J., *Evidence from ophiolites, blueschists, and ultrahigh-pressure metamorphic terranes that the modern episode of subduction tectonics began in Neoproterozoic time*. Geology, 2005. **33**(7): p. 557-560.
269. Straub, S., *The evolution of the Izu Bonin - Mariana volcanic arcs (NW Pacific) in terms of major element chemistry*. Geochem. Geophys. Geosyst., 2003. **4**(2).
270. Streck, M.J., Dungan, M. A., Malavassi, E., Reagan, M. K., and F. Bussy, *The role of basalt replenishment in the generation of basaltic andesites of the ongoing activity at Arenal volcano, Costa Rica: evidence from clinopyroxene and spinel*. Bulletin of Volcanology, 2002. **64**(5): p. 316-327.
271. Streck, M.J., Dungan, M. A., Bussy, F., and E. Malavassi, *Mineral inventory of continuously erupting basaltic andesites at Arenal volcano, Costa Rica: implications for interpreting monotonous, crystal-rich, mafic arc stratigraphies*. Journal of Volcanology and Geothermal Research, 2005. **140**(1-3): p. 133-155.
272. Sumino, H., Notsu, K., Nakai, S., Sato, M., Nagao, K., Hosoe, M., and H. Wakita, *Noble gas and carbon isotopes of fumarolic gas from Iwojima volcano, Izu-Ogasawara arc, Japan: implications for the origin of unusual arc magmatism*. Chemical Geology, 2004. **209**(1-2): p. 153-173.
273. Sun, C.H. and R.J. Stern, *Genesis of Mariana shoshonites: Contribution of the subduction component*. Journal of Geophysical Research-Solid Earth, 2001. **106**(B1): p. 589-608.
274. Szramek, L., J.E. Gardner, and J. Larsen, *Degassing and microlite crystallization of basaltic andesite magma erupting at Arenal volcano, Costa Rica*. Journal of Volcanology and Geothermal Research, 2006. **157**(1-3): p. 182-201.
275. Takeo, A., Idehara, K., Iritani, R., Tonegawa, T., Nagaoka, Y., Nishida, K., Kawakatsu, H., Tanaka, S., Miyakawa, K., Iidaka, T., Obayashi, M., Tsuruoka, H., Shiomi, K., and K. Obara, *Very broadband analysis of a swarm of very low frequency earthquakes and tremors beneath Kii Peninsula, SW Japan*. Geophys. Res. Lett., 2010. **37**.
276. Tatsumi, Y., H. Shukuno, K. Tani, N. Takahashi, S. Kodaira, and T. Kogiso, *Structure and growth off the Izu-Bonin-Mariana arc crust: 2. Role of crust-mantle transformation and the transparent Moho in arc crust evolution*. J. Geophys. Res., 2008. **113**.
277. Tepley, F.J., Lundstrom, C. C., Gill, J. B., and R.W. Williams, *U-Th-Ra disequilibria and the time scale of fluid transfer and andesite differentiation at Arenal volcano, Costa Rica (1968-2003)*. Journal of Volcanology and Geothermal Research, 2006. **157**(1-3): p. 147-165.
278. Tollstrup, D.L. and J.B. Gill, *Hafnium systematics of the Mariana arc: Evidence for sediment melt and residual phases*. Geology, 2005. **33**(9): p. 737-740.
279. Trehu, A.M., J. Braunmiller, and J.L. Nabelek, *Probable low-angle thrust earthquakes on the Juan de Fuca - North America plate boundary*. Geology, 2008. **36**(2): p. 127-130.
280. Trummer, I. and E.R. Flueh, *Seismic constraints on the crustal structure of Cocos Ridge off the coast of Costa Rica*. Neues Jahrbuch Fur Geologie Und Palaontologie-Abhandlungen, 2002. **225**(1): p. 25-37.

281. Trusdell, F.A., Moore, R. B., Sako, M., White, R. A., Koyanagi, S. K., Chong, R., and J.T. Camacho, *The 2003 eruption of Anatahan volcano, Commonwealth of the Northern Mariana Islands: Chronology, volcanology, and deformation*. Journal of Volcanology and Geothermal Research, 2005. **146**(1-3): p. 184-207.
282. Tryon, M.D., *Monitoring aseismic tectonic processes via hydrologic responses: An analysis of log-periodic fluid flow events at the Costa Rica outer rise*. Geology, 2009. **37**(2): p. 163-166.
283. Tryon, M.D., C.G. Wheat, and D.R. Hilton, *Fluid sources and pathways of the Costa Rica erosional convergent margin*. Geochemistry, Geophysics, Geosystems (G-cubed), 2010. **11**.
284. Turner, S., B. Bourdon, and J. Gill, *Insights into magma genesis at convergent margins from U-series isotopes*, in *Uranium-Series Geochemistry*. 2003. p. 255-315.
285. Ujiie, K., Tsutsumi, A., Fialko, Y., and H. Yamaguchi, *Experimental investigation of frictional melting of argillite at high slip rates: Implications for seismic slip in subduction-accretion complexes*. Journal of Geophysical Research-Solid Earth, 2009. **114**.
286. Umhoefer, P.J., *Where are the missing faults in translated terranes?* Tectonophysics, 2000. **326**(1-2): p. 23-35.
287. Umhoefer, P.J., L. Mayer, and R.J. Dorsey, *Evolution of the margin of the Gulf of California near Loreto, Baja California Peninsula, Mexico*. Geological Society of America Bulletin, 2002. **114**(7): p. 849-868.
288. Umhoefer, P.J., Dorsey, R. J., Willsey, S., Mayer, L., and P. Renne, *Stratigraphy and geochronology of the Comondu Group near Loreto, Baja California sur, Mexico (vol 144, pg 125, 2001)*. Sedimentary Geology, 2002. **147**(3-4): p. 445-446.
289. Vallee, M., M. Bouchon, and S.Y. Schwartz, *The 13 January 2001 El Salvador earthquake: A multidata analysis*. J. Geophys. Res., 2003. **108**(B4): p. 2203.
290. van Keken, P.E., B. Kiefer, and S.M. Peacock, *High-resolution models of subduction zones: Implications for mineral dehydration reactions and the transport of water into the deep mantle*. Geochemistry Geophysics Geosystems, 2002. **3**.
291. Vannucchi, P., Ranero, C. R., Galeotti, S., Straub, S. M., Scholl, D. W., and K. McDougall-Ried, *Fast rates of subduction erosion along the Costa Rica Pacific margin: Implications for nonsteady rates of crustal recycling at subduction zones*. Journal of Geophysical Research-Solid Earth, 2003. **108**(B11).
292. Vannucchi, P., Galeotti, S., Clift, P. D., Ranero, C. R., and R. von Huene, *Long-term subduction-erosion along the Guatemalan margin of the middle America trench*. Geology, 2004. **32**(7): p. 617-620.
293. Viti, C. and T. Hirose, *Dehydration reactions and micro/nanostructures in experimentally-deformed serpentinites*. Contrib Mineral Petrol, 2009. **157**: p. 327-338.
294. von Huene, R., D. Klaeschen, and C. Papenberg, *Potential of 3-D vertical seismic profiles to characterize seismogenic fault zones*. Geochem. Geophys. Geosyst., 2008. **9**.
295. von Huene, R., C.R. Ranero, and P. Watts, *Tsunamigenic slope failure along the*

- Middle America Trench in two tectonic settings*. Marine Geology, 2004. **203**(3-4): p. 303-317.
296. Wada, I., and K. Wang, *Common depth of slab-mantle decoupling: Reconciling diversity and uniformity of subduction zones*. Geochem. Geophys. Geosyst., 2009. **10**.
297. Wagner, L., et al., *Detailed three-dimensional shear wave velocity structure of the northwestern United States from Rayleigh wave tomography*. Earth and Planetary Science Letters, 2010. **299**(3-4): p. 273-284.
298. Walker, J.A., Roggensack, K., Patino, L. C., Cameron, B. I., and O. Matias, *The water and trace element contents of melt inclusions across an active subduction zone*. Contributions to Mineralogy and Petrology, 2003. **146**(1): p. 62-77.
299. Wallace, L.M., M. Reyners, U. Cochran, et al, *Characterizing the seismogenic zone of a major plate boundary subduction thrust: Hikurangi Margin, New Zealand*. Geochem. Geophys. Geosyst., 2009. **10**.
300. Wallace, P.J., *Volatiles in subduction zone magmas: concentrations and fluxes based on melt inclusion and volcanic gas data*. Journal of Volcanology and Geothermal Research, 2005. **140**(1-3): p. 217-240.
301. Walther, C. and E. Flueh, *Remnant of the ancient Farallon Plate breakup: A low-velocity body in the lower oceanic crust off Nicoya Peninsula, Costa Rica - evidence from wide-angle seismics*. Geophysical Research Letters, 2002. **29**(19).
302. Walther, C.H.E., *The crustal structure of the Cocos ridge off Costa Rica*. Journal of Geophysical Research-Solid Earth, 2003. **108**(B3).
303. Wang, K., et al., *Interplate earthquakes as a driver of shallow subduction erosion*. Geology, 2010. **38**(5): p. 431-434.
304. Watanabe, T., Tabei, T., Matsushima, T., Kato, T., Nakada, S., Yoshimoto, M., Chong, R., and J.T. Camacho, *Geodetic constraints for the mechanism of Anatahan eruption of May 2003*. Journal of Volcanology and Geothermal Research, 2005. **146**(1-3): p. 77-85.
305. Wech, A.G., K. C. Creager, H. Houston, and J. E. Vidale, *An earthquake-like magnitude-frequency distribution of slow slip in northern Cascadia*. Geophys. Res. Lett., 2010. **37**.
306. Wells, R.E., Blakely, R. J., Sugiyama, Y., Scholl, D. W., and P.A. Dinterman, *Basin-centered asperities in great subduction zone earthquakes: A link between slip, subsidence, and subduction erosion? (vol 108, art no 2507, 2003)*. Journal of Geophysical Research-Solid Earth, 2003. **108**(B12).
307. Wendt, J., D.D. Oglesby, and E.L. Geist, *Tsunamis and splay fault dynamics*. Geophys. Res. Lett., 2009. **36**(15).
308. Wheat, G.C. and M.J. Mottl, *Composition of pore and spring waters from Baby Bare: global implications of geochemical fluxes from a ridge flank hydrothermal system*. Geochimica et Cosmochimica Acta 2000. **64**(4): p. 629-642.
309. Williams-Jones, G., Stix, J., Heiligmann, M., Barquero, J., Fernandez, E., and E.D. Gonzalez, *A model of degassing and seismicity at Arenal Volcano, Costa Rica*. Journal of Volcanology and Geothermal Research, 2001. **108**(1-4): p. 121-139.
310. Wong, V., and L. Munguia, *Seismicity, focal mechanisms, and stress distribution in the Tres Virgenes volcanic and geothermal region, Baja California Sur*,

- Mexico. Geofisica Internacional, 2006. **45**: p. 23-37.
311. Wright, R., S.A. Carn, and L.P. Flynn, *A satellite chronology of the May-June 2003 eruption of Anatahan volcano*. Journal of Volcanology and Geothermal Research, 2005. **146**(1-3): p. 102-116.
  312. Yuan, H., K. Dueker, and J. Stachnik, *Crustal structure and thickness along the Yellowstone hot spot track: Evidence for lower crustal outflow from beneath the eastern Snake River Plain*. Geochem. Geophys. Geosyst., 2010. **11**.
  313. Zack, T., P. B. Tomascak, R. L. Rudnick, C. Dalpé, and W.F. McDonough, *Extremely light Li in orogenic eclogites: The role of isotope fractionation during dehydration in subducted oceanic crust*. Earth and Planetary Science Letters, 2003. **208**(3-4): p. 279-290.
  314. Zanetti, A., D'Antonio, M., Spadea, P., Raffone, N., Vannucci, R., and O. Brugeir, *Petrogenesis of mantle peridotites from the Izu-Bonin-Mariana (IBM) forearc*. Ophioliti, 2006. **31**(2): p. 189-206.
  315. Zellmer, G.F., T.P. Fischer, and C.H. Chen, *Evolution, transfer and release of magmas and volcanic gases: An introduction*. Journal of Volcanology and Geothermal Research, 2008. **178**(4): p. V-VII.
  316. Zhang, X., Paulssen, H., Lebedev, S., and T. Meier, *Surface wave tomography of the Gulf of California*. Geophysical Research Letters, 2007. **34**(15).
  317. Zhang, X., H. Paulssen, S. Lebedeva, and T. Meier, *3D shear velocity structure beneath the Gulf of California from Rayleigh wave dispersion*. Earth and Planetary Science Letters, 2009. **279**(3-4): p. 255-262.
  318. Zhu, J., Kopp, H., Flueh, E.R., Klaeschen, D., Papenberg, C., and L. Planert, *Crustal structure of the central Costa Rica subduction zone: implications for basal erosion from seismic wide-angle data*. Geophys. J. Int., 2009. **178**: p. 1112-1131.