

S. Adam Soule

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PROFESSIONAL PREPARATION

Carleton College (Northfield, MN) 1993-1997

B.A., Geology Department, Honors in Geology

University of Oregon (Eugene, OR) 1998-2003

Ph.D., Dept. of Geological Sciences, Volcanology, Advisor: Katherine Cashman

Woods Hole Oceanographic Institution (Woods Hole, MA) 2003-2005

Post-doctoral Scholar, Marine Geology, Advisor: Dan Fornari

APPOINTMENTS

2014 - present Chief Scientist for Deep Submergence

2014 - present Associate Scientist w/Tenure, WHOI

2009 - 2014 Associate Scientist, WHOI

2005 - 2009 Assistant Scientist, WHOI

PRODUCTS (*Denotes student 1st author, **Denotes Postdoc 1st author)

Soule, S.A., Cashman, K.V., Kauahikaua, J.P. (2004) Examining flow emplacement through the surface morphology of three rapidly emplaced, solidified lava flows, Kilauea Volcano, Hawaii, *Bull. Volc.*, 66, 1-14.

Geist, D.J., Fornari, D.J., Kurz, M.D., Harpp, K.S., **Soule, S.A.**, Perfit, M.R., Koleszar, A.M. (2006) Submarine Fernandina: Magmatism at the leading edge of the Galápagos hot spot, *G-cubed*, 7, 12, doi:10.1029/2006GC001290.

Soule, S.A., Fornari, D.J., Perfit, M.P., Rubin, K. (2007) New insights into mid-ocean ridge volcanic processes from the 2005-06 eruption of the East Pacific Rise, 9°46'-56'N, *Geology*, 35, 1079-1082, doi: 10.1130/G23924A.1.

Soule, S.A., Ferrini, V.L., Kinsey, J.C., Fornari, D.J., Sellers, C., White, S.M., Von Damm, K., Carbotte, S.M. (2008) Navigational infrastructure at the East Pacific Rise 9°50'N area following the 2005-2006 eruption: seafloor benchmarks and near-bottom multibeam surveys, *G-cubed*, 9, doi:10.1029/2008GC002070.

Soule, S.A., Escartín, J., Fornari, D.J. (2009) A record of eruption and intrusion at a fast-spreading ridge axis: axial summit trough of the East Pacific Rise at 9°-10°N, *G-cubed*, 10, doi:10.1029/2008GC002354.

Mittelstaedt, E., **Soule S.A., Harpp K.S., Fornari, D.J., McKee C., Tivey, M.A., Geist D., Kurz, M.D., Sinton C., Mello, C. (2012) Multiple expressions of plume-ridge interaction in the Galápagos: Volcanic lineaments and ridge jumps, *G-cubed*, 13, doi://10.1029/2012GC004093.

Cashman, K.V., **Soule, S.A.**, Deligne, N.I., Dietterich, H., Deardorff, N., Mackey, B. (2013) How lava flows - new insights from applications of lidar technologies to lava flow studies, *Geosphere*, doi: 10.1130/GES00706.1.

Mittelstaedt, E., **Soule, S.A., Harpp, K. S., Fornari, D. (2014). Variations in crustal thickness, plate rigidity, and volcanic processes throughout the Northern Galápagos Volcanic Province in *The Galápagos: A Natural Laboratory for the Earth Sciences*, AGU Geophysical Monograph, John Wiley & Sons, Hoboken NJ, 263-284.

*Dietterich, H.R.D., **Soule, S.A.**, Cashman, K.V., Mackey, B. (2015) Lava flows in 3D: Using airborne lidar and pre-eruptive topography to evaluate lava flow surface morphology and thickness in Hawai'i in *Hawaiin Volcanism: From Source to Surface* eds. R. Carey, M. Poland, D. Weiss, V. Cayol, doi: 10.1002/9781118872079.ch22.

Soule, S.A. (2015) Mid-ocean ridge volcanism in *Encyclopedia of Volcanoes, 2nd Edition* eds. Sigurdsson, H., Houghton, B., McNutt, S., Stix, J., and Rymer, H., Elsevier, London, 395-404.

SYNERGISTIC ACTIVITIES

Reviewer of Journal Contributions for: AGU Geophysics Monographs; American Mineralogist; Bulletin of Volcanology; Computers & Geoscience; Earth and Planetary Science Letters; Geology; Geochimica Cosmochimica Acta; Geophysical Research Letters; Geosphere; Geoscience Canada; Geochemistry, Geophysics, Geosystems; Journal of Geophysical Research; GSA Monographs; Journal of Volcanology and Geothermal Research.

Reviewer of Proposals for: National Science Foundation: OCE, EAR, OPP; Interridge Student Fellowships; WHOI Deep Ocean Exploration Institute; NERC.

Educational activities: Co-teach Geological Oceanography [12.710], WHOI/MIT Joint Program (2008-present). Advised or co-advised 3 Postdoctoral scholars, 3 MA students, and 5 PhD students and mentored 10 undergraduate students conducting REUs.

Meetings/Workshops: Co-organized 'From Mantle to Microbe at a hydrothermal spreading center: International workshop for development of a deep-sea drilling proposal in Guaymas Basin' (with A. Teske - UNC Chapel Hill) sponsored by C-DEBI and NSF IODP in Feb. 2013. Organized 'Alvin New Users Workshop' at WHOI sponsored by NSF in Oct. 2015. Organizing committee for DESCEND2 workshop to chart the future of US deep submergence science in Jan. 2016.

Public outreach: Served as Ridge2000 Distinguished lecturer in 2011; Contributor to MIT Knight Science Journalism Fellows program in 2014-2015.