CURRICULUM VITA
John M. Sinton

Emeritus Professor, Department of Earth Sciences
University of Hawai‘i at Mānoa
Honolulu, Hawai‘i 96822
sinton@hawaii.edu

Education:

A.B. Geology, University of California at Santa Barbara, June 1969
M.S. Geology, University of Oregon, Eugene, Oregon, September 1971
Ph.D. Geology, University of Otago, Dunedin, New Zealand, May 1976

Professional Expertise

Igneous petrology, Volcanology, Hawaiian geology, Marine geology; Geochemistry of volcanic materials used in Polynesian tool making; Geochemical analysis using X-ray fluorescence spectrometry.

Professional Appointments:

- Emeritus Professor, University of Hawai‘i, Department of Geology and Geophysics, 1/2014
- Division Head, Department of Geology and Geophysics, Division of Volcanology, Petrology and Geochemistry, 2002-2006
- Chair, University of Hawai‘i, Department of Geology and Geophysics, 1996-1999.
- Associate Chair, University of Hawai‘i Department of Geology and Geophysics, 1990-1991, 1993-1996
- Chair, Hawai‘i Institute of Geophysics, Division of Volcanology, Geochemistry and Petrology, 1987-1990
- Professor of Geology and Geophysics, University of Hawai‘i, 7/87-2014
- Associate Professor of Geology and Geophysics, University of Hawai‘i, 7/81-6/87
- Assistant Professor of Geology and Geophysics, University of Hawai‘i, 5/77-6/81
- Post-doctoral Fellow, Smithsonian Institution, Department of Mineral Sciences, 1/76-3/77
- Senior Assistant, Saskatchewan Dept. of Mineral Resources, 6/71-9/71
- Summer Field Geologist, Standard Oil Co. of California, 6/69-9/69

Field Experience

Geological field mapping in northern Saskatchewan, New Zealand, Hawai‘i, and Iceland; archeological field work in Hawai‘i, Eiao (Marquesas), Ra‘iatea, Rurutu and Easter Island

Seagoing Research Projects:

26 sea-going research cruises, 1976-2021; Chief Scientist or Co-chief Scientist on 11 major expeditions; >20 dives using *Makali‘i, Alvin, Mir2, Nautile, Pisces4, Pisces5, and Shinkai 6500* submersibles

- Shipboard scientist, *D/V Glomar Challenger* Leg 51, Western Atlantic, 11/76-1/77
- Co-chief Scientist, *R/V Kana Keoki*, Cruise KK78-12, Leg 05, Galápagos Spreading Center propagating rift expedition, 1979
- Chief Scientist, *R/V Kana Keoki*, Cruise KK80-07, Musicians Seamounts, 1980
- Shipboard Scientist, *R/V Kana Keoki,* Cruise KK82-03, Melanesian Borderland, 1982
- Scientific observer, Research Submersible *Makali‘i,* Dives 83-157 and 83-159, O‘ahu, Hawai‘i, 1983
- Shipboard scientist, *R/V Moana Wave*, Cruise MW85-01, Galápagos Spreading Center propagating rift, 1985

- Co-chief Scientist, *R/V Atlantis II*, Cruise 112, Leg 24; *DSRV Alvin* submersible diving, camera tows and dredging, Galápagos Spreading Center, 1985
- Shipboard Scientist, *R/V Moana Wave*, Cruise MW85-18, Legs 17 and 18, Manus Basin, 12/85-1/86
- Chief Scientist, *R/V Moana Wave*, Cruise MW87-12, The S&M cruise, East Pacific Rise, 13°-23° S, 1987
- Invited scientist, *R/V Akademic Mstislav Keldysh*, Cruise 21, *MIR* submersible diving, Manus Basin, 1990
- Chief Scientist, *R/V Melville*, GLORIA Leg 08, near-ridge seamounts, East Pacific Rise, 1993
- Co-chief scientist, *N/O Nadir*, the NAUDUR cruise, *Nautile* submersible diving, East Pacific Rise, 17°-19°S, 1993
- Chief Scientist, *R/V Atlantis* Cruise AT3-31, the STOWA cruise, *Alvin* submersible diving and DSL 120 surveying, East Pacific Rise, 17°-19°S, 1999
- Chief Scientist, *R/V Maurice Ewing* EW00-04, the G-PRIME cruise, seismic surveying and sampling, Galápagos Spreading Center, 2000.
- Shipboard scientist, *R/V Kilo Moana* KM03-17, mapping and dredging off-shore Maui, Hawai‘i
- Observer, *R/V Yokosuka* YK04-07, *Shinkai* submersible dives on off-axis lava flow fields, southern East Pacific Rise, 14°S, July, 2004.
- Chief Scientist, *R/V Kilo Moana*, KM06-02, Ka‘ena Ridge dredging and surveying, January, 2006
- Chief Scientist, *R/V Atlantis* cruise AT15-63, submarine eruptions along the Galápagos Spreading Center, *Alvin* dives, AUV Sentry, and TowCam, March-April, 2010
- Co-chief scientist, *R/V Kilo Moana* Cruise KM11-16, Geology of Ka‘ena Ridge, Hawai‘i using ROV Jason 2, May-June, 2011
- Scientific observer, Pisces dive P4-275, Off-shore Wai‘anae Volcano, O‘ahu, Hawai‘i, July, 2012
- Scientific observer, Pisces dive P5-831, Ko‘olau shoreline, Hawai‘i, September, 2013
- Principal Investigator, ROV Lu‘ukai dive LK-28, Ka‘ena Ridge, Hawai‘i, January, 2014
- Scientific observer, Pisces dive P4-283, Ko‘olau shoreline, Hawai‘i, November, 2014
- Participating scientist, *R/V Kilo Moana* Cruise KM17-10, Pa‘uwela Ridge, Hawai‘i; dredging, July, 2017
- Participating scientist, *R/V Kilo Moana* Cruise KM18-10, Wai‘alu Ridge, Hawai‘i; dredging, July, 2018
- Participating scientist, R/V Kilo Moana Cruise KM21-06, Kaiwi shoreline, Hawai‘i, ROV Lu‘ukai dives, May, 2021

Other Professional Activities:

- JOIDES Lithosphere Advisory Panel to the Ocean Drilling Project, 1983-1987
- JOIDES Central and Eastern Pacific Advisory Panel to the Ocean Drilling Project, 1984-1986
- State of Hawai‘i Geothermal Resources Technical Advisory Committee, 1984; 1991-1997
- Invited participant, National Academy of Sciences NRC Workshop on Mid-Oceanic Ridges, 1987
- Convener, IUGG InterUnion Symposium on Mid-Oceanic Ridges, IUGG General Assembly, Vancouver B.C., Canada, 1987
- Member, RIDGE Mapping and Sampling Working Group, 1988
- International Lithosphere Program Working Group 4, Nature and Evolution of the Oceanic Lithosphere, 1988-1992
- Steering Committee for JOI-USSAC-sponsored Workshop on Drilling Lower Oceanic Crust, 1988-1989
- NSF-RIDGE Working Group on Key Variables in Crustal Accretion, 1989
- NSF-RIDGE Steering Committee, 1992-1995

- Convener, NSF-RIDGE Workshop on Processes and fluxes on a superfast spreading ridge, Monterey, CA, January, 1996
- Invited participant, NSF Workshop, The Future of Marine Geosciences, December, 1996
- Invited lecturer, NordVulc Summer School on Tectonics and Volcanism at Diverging Plate Boundaries, Húsavík, Iceland, August, 1995
- Invited lecturer, NordVulc/European Summer School on Ocean Crust and Ophiolites, Kirkjubæjarklaustur, Iceland, August, 1996
- Convener, NSF-RIDGE/NordVulc Summer School on Active Processes at Mid-Ocean Ridges, Mývatn, Iceland, August, 1997
- Member, State of Hawai‘i Earthquake Advisory Board, 1998-2001
- Convener, NSF-sponsored Field Demonstration of Icelandic Rift Zones for U.S. Mid-Ocean Ridge Scientists, August, 1999.
- Member, United States Science Advisory Committee (USSAC), 2000-2002
- Convener, NSF-RIDGE/NordVulc Summer School on Plume-Ridge Interactions, Mývatn, Iceland, August, 2000
- Field Trip leader, IAVCEI General Assembly, Reykjavík, Iceland, August, 2008
- Member, American Geophysical Union Committee on Meetings, 2008-2012
- Commissioner, State of Hawai‘i Natural Area Reserves System, 2009 – 2012
- Invited lecturer, AGU Chapman Conference on the Galápagos as a Laboratory for the Earth Sciences, Puerto Ayora, Galápagos, July, 2011
- Chair, State of Hawai‘i Natural Area Reserves System Commission, 2012-2017
- Field Trip Leader, AGU Chapman Conference on Hawaiian Volcanoes from Source to Surface, Waikoloa, Hawai‘i, August, 2012
- Commissioner, State of Hawai‘i Legacy Land Conservation Program, 2013-2017, 2019-2023
- Field Trip leader, Goldschmidt Conference July, 2022, Wai‘anae, Hawai‘i

Student Mentoring

Principal advisor for: Malcolm Cox, MS 1980; Patricia Fryer, PhD 1981; David Diller, MS 1982; Kevin Johnson, MS 1983; David Christie, PhD 1984; Elizabeth Zbinden, MS 1984; Elizabeth Milholland, MS 1985; Robert Yonover, PhD 1989; Lori Liu, MS 1989; Malcolm Pringle, PhD 1992; Todd Presley, MS 1994; Eric Bergmanis, MS 1998; Buffy Cushman, MS 2004; Sara Wilson, BS 2004; Melissa Rotella, MS 2008; Deborah Eason, PhD 2009; Alice Colman, PhD 2014.

Societies:

American Geophysical Union
Geological Society of America
International Association of Volcanology and Chemistry of Earth’s Interior

Awards and Honors

- University of Hawai‘i Presidential Citation for Meritorious Teaching (1991)
- University of California at Santa Barbara, Dept. of Geological Sciences Distinguished Alumnus (2002)
- Fellow, Geological Society of America (2012)

Books Edited

1. *Field Trip Guide to the Hawaiian Islands*, 1979. Garcia, M., and J.M. Sinton, editors, *Hawaii Institute of Geophysics Special Publication*, Honolulu, Hawaii, 117 pp.
2. *Field Trip Guide to Maui*, 1987. Sinton, J.M., editor, *Geological Society of America Cordilleran section meeting, 83rd*, Hilo, Hawaii, May 20-22, 84 pp.
3. *Evolution of Mid Ocean Ridges*, 1989. Sinton, J. M., editor, *Geophysical Monograph 57*, IUGG Vol. 8, American Geophysical Union, Washington, D.C., 77 pp.

4. *Mantle Flow and Melt Generation at Mid-Ocean Ridges,* 1992. Phipps Morgan, J., D. Blackman, and J.M. Sinton, editors, *Geophysical Monograph 71,* American Geophysical Union, Washington, D.C., 361 pp.

5. *Proceedings of ODP, Scientific Results, Leg 143*, 1995. Winterer, E. L. W. W. Sager, J. V. Firth, and J. M. Sinton, editors, College Station, TX, 629 pp.

Publications in Refereed Journals

1. Coombs, D.S., C.A. Landis, R.J. Norris, J.M. Sinton, D.J. Borns and Y. Nakamura, 1973. The Dun Mountain ophiolite belt, New Zealand, in *Ophiolites in the Earth's Crust*, Nauka Press, Akad. Sci. USSR.

2. Coombs, D.S., C.A. Landis, R.J. Norris, J.M. Sinton, D. J. Borns and D. Craw, 1976. The Dun Mountain ophiolite belt, New Zealand, its tectonic setting, constitution and origin, with special reference to the southern portion, *American Journal of Science*, v. 276, p. 561-603.

3. Sinton, J.M., 1976. Compositional relationships of Fe-Ni alloy and co-existing phases in serpentinite, Red Mountain, New Zealand, *Mineralogical Magazine*, v. 40, p. 792-794.

4. Sinton, J.M., 1977. Equilibration history of the basal alpine type peridotite, Red Mountain, New Zealand, *Journal of Petrology*, v. 18, p. 216-246.

5. Shipboard Scientific Staff DSDP Leg 51, 1977. Mid-ocean ridge in the Cretaceous, *Geotimes*, 22, no. 6, 21-23.

6. Sinton, J.M., 1978. Petrology of (alpine-type) peridotites from Site 395, DSDP Leg 45, in W. G. Melson, P. D. Rabinowitz *et al.*, *Initial Reports of the Deep Sea Drilling Project,* XLV, 595-601.

7. Price, R.C. and J.M. Sinton, 1978. Geochemical variations in a suite of granitoids and gabbros from Southland, New Zealand, *Contr. Mineral. Petrol.*, 67, 267-278.

8. Jezek, P.A., J.M. Sinton, E. Jarosewich and C.R. Obermeyer, 1979. Fusion of rock and mineral powders for electron microprobe analyses, *Smithsonian Contr. Earth Sci.,* 33, 46-52.

9. Byerly, G.R. and J.M. Sinton, 1979. Compositional trends in natural basaltic glasses from DSDP Holes 417D and 418A, in Donnelly, T., J. Francheteau, W. Bryan, P. Robinson, M. Flower, M. Salisbury, *et al*., *Initial Reports of the Deep Sea Drilling Project,* LI, LII, LIII, 957-971, 1979.

10. Sinton, J.M. and G.R. Byerly, Mineral compositions and crystallization trends in DSDP Holes 417D and 418A, *Initial Reports of the Deep Sea Drilling Project*, LI, LII, LIII, 1039-054.

11. Sinton, J.M., 1979. Ultramafic inclusions and high-pressure xenocrysts in submarine basanitoid, equatorial mid-Atlantic ridge, *Contributions to Mineralogy and Petrology.* 70, 49-57.

12. Dick, H.J.B. and J.M. Sinton, 1979. Compositional layering in alpine peridotites: evidence for pressure solution creep in the mantle, *Journal of Geology,* 87, 403-416.

13. Sinton, J.M. and G.R. Byerly, 1980. Silicic differentiates of abyssal oceanic magmas: evidence for late-magmatic vapor transport of potassium, *Earth and Planetary Science Letters,* 47, 423-430.

14. Sinton, J.M., 1980. Petrology and evolution of the Red Mountain ophiolite complex, New Zealand, *E. D. Jackson Memorial Volume, Amer. J. Sci.,* 280A, 296-328.

15. Fryer, P., J.M. Sinton and J.A. Philpotts, 1981. Basaltic glasses from the Mariana Trough, *Initial Reports of the Deep Sea Drilling Project,* LX, p. 601-609.

16. Christie, D.M. and J.M. Sinton, 1981. Evolution of abyssal lavas along propagating segments of the Galapagos Spreading Center, *Earth and Planetary Science Letters,* 56, 321-335.

17. Sinton, J.M., D.S. Wilson, D.M. Christie, R.N. Hey, and J.R. Delaney, 1983. Petrological consequences of rift propagation on oceanic spreading ridges, *Earth and Planetary Science Letters,* 62, 193-207.

18. Byers, C.D., D.M. Christie, D.W. Muenow, and J.M. Sinton, 1984. Volatile contents and ferric-ferrous ratios of basalt, ferro-basalt, andesite and rhyodacite glasses from the Galapagos 95.5°W propagating rift, *Geochimica Cosmochimica Acta.,* 48, 2239-2245.

19. Banks, N.G., R.Y. Koyanagi, J.M. Sinton, and K.T. Honma, 1984. The eruption of Mount Pagan Volcano, Mariana Islands, 15 May 1981, *Journal of Volcanology and Geothermal Research,* 22, 225-269.

20. Cleghorn, P.L., T. Dye, M. Weisler, and J. M. Sinton, 1985. A preliminary petrographic study of Hawaiian stone adze quarries, *Journal of the Polynesian Society,* 94, 235-251.

21. Sinton, J.M., K.T.M. Johnson, and R.C. Price, 1986. Petrology and geochemistry of volcanic rocks from the Northern Melanesian Borderland, in T. M. Brocher (editor), *Investigations of the Northern Melanesian Borderland, Circum-Pacific Council for Energy and Mineral Resources Earth Science Series,* 3, American Association of Petroleum Geology, p. 34-64.

22. Christie, D.M. and J.M. Sinton, 1986. Major element constraints on depth and degree of melting of MORB -an example from the Galapagos 95.5°W propagating rift, *Contributions to Mineralogy and Petrology,* 94, 274-288.

23. Johnson, K.T.M., J.M. Sinton and R.C. Price, 1986. Petrology of seamounts northwest of Samoa and their relation to a Samoan hotspot, *J. Volcanology,* 58, 225-235.

24. Both, R., K. Crook, B. Taylor, S. Brogan, B. Chappell, E. Frankel, L. Liu, J. Sinton, and D. Tiffen, 1986. Hydrothermal chimneys and associated fauna in the Manus back-arc basin, Papua New Guinea, *Eos Transactions of American Geophysical Union,* 67, 489-490.

25. Sinton, J.M., 1986. Revision of stratigraphic nomenclature of Waianae Volcano, Oahu, Hawaii, *U.S. Geol. Surv. Bull.* 1775-A, 9-15.

26. Sinton, J.M. and P. Fryer, 1987. Mariana Trough lavas from 18°N: Implications for the origin of back-arc basin lavas, *Journal of Geophysical Research, 92,* 12,782-12,802.

27. Zbinden, E.A. and J.M. Sinton, 1988. Dikes and the petrology of Waianae Volcano, Oahu, *Journal of Geophysical Research,* 93, 14,856-14,866.

28. Aggrey, K.E., D. W. Muenow and J.M. Sinton, 1988. Volatile abundances in submarine glasses from the N. Fiji/Lau back-arc basins, *Geochimica Cosmochimica Acta,* 52, 2501-2506.

29. Hey, R.N., J.M. Sinton, and F.K. Duennebier, 1989. Propagating rifts and spreading centers, in *The Geology of North America, Vol. N: The Eastern Pacific Ocean and Hawaii,* edited by E. L. Winterer, Geological Society of America, Boulder, Colorado, p. 161-176.

30. Yonover, R.N., M.A. Sommer, J.M. Sinton and E.K. Gibson, 1989. Ratios of C-O-H gases of some parental ridge basalts and their significance, *Geochimica Cosmochimica Acta,* 53, 3145-3154.

31. Clague, D.A., R.T. Holcomb, J.M. Sinton, R.S. Detrick and M.E. Torresan, 1990. Plio-Pleistocene alkalic flood basalts on the seafloor north of the Hawaiian Islands, *Earth and Planetary Science Letters*, 98, 175-191.

32. Johnson, K.T.M. and J.M. Sinton, 1990. Petrology, tectonic setting, and formation of back-arc basin basalts in the North Fiji Basin, *Geologisches Jahrbuch*, 92, 517-545.

33. Sinton, J.M., S.M. Smaglik, J.J. Mahoney, and K.C. Macdonald, 1991. Magmatic processes at superfast spreading mid-ocean ridges: glass compositional variations along the East Pacific Rise, 13°-23°S, *Journal of Geophysical. Research*, 96, 6133-6155.

34. Sinton, J.M., and R.S. Detrick, 1992. Mid-ocean ridge magma chambers, *Journal of Geophysical Research*, 97, 197-216.

35. Hey, R. N., J. M. Sinton, M. C. Kleinrock, R. N. Yonover, K. C. Macdonald, S. P. Miller, R. C. Searle, D. M. Christie, T. M. Atwater, N. H. Sleep, H. P. Johnson, and C. A. Neal, 1992. ALVIN investigation of an active propagating rift system, Galapagos 95.5°W, *Marine Geophysical Research*, 14, 207-226.

36. Butler, R., J.M. Sinton, J.J. Mahoney and S.M. Smaglik, 1993. Spectral analysis of volcanic glass compositions from the East Pacific Rise Axis, 13°-23°S, *Journal of Geophysical Research*, 98, 11,851-11,864.

37. Sinton, J.M., R.C. Price, K.T.M. Johnson, H. Staudigel and A. Zindler, 1993. Petrology and geochemistry of submarine lavas from the Lau and North Fiji Basins, in *Basin Formation, Ridge Crest Processes and Metallogenesis in the North Fiji Basin*, edited by L. W. Kroenke and J. V. Eade, *Circum-Pacific Council for Energy and Mineral Resources Earth Science Series, 15,* Amer. Assoc. Petrol. Geol., 119-136.

38. Mahoney, J.J., J.M. Sinton, M.D. Kurz, J.D. Macdougall, K.J. Spencer and G.W. Lugmair, 1994. Isotope and trace element characteristics of a super-fast spreading ridge: East Paciic Rise, 13°-23°S, *Earth and Planetary Science Letters*, 121, 173-193.

39. Taylor, B., K. Crook and J. Sinton, 1994. Extensional transform zones and oblique spreading centers, *Journal of Geophysical Research*, 99, 19,707-19,718.

40. Auzende, J.-M., J. Sinton and Scientific Party, 1994. NAUDUR explorers discover recent volcanic activity along the East Pacific Rise, *Eos Transactions of American Geophysical Union, 75*, 601, 604-605.

41. Hall, L.H., and J.M. Sinton, 1996. Geochemistry of the large near-axis lava flow, East Pacific Rise near 8°S, *Earth and Planetary Science Letters*, 142, 241-252.

42. Auzende, J-M., V. Ballu, R. Batiza, D. Bideau, J.L. Charlou, M.H. Cormier, Y. Fouquet, P. Geistdorfer, Y. Lagabrielle, J. Sinton and P. Spadea, 1996. Recent tectonic, magmatic, and hydrothermal activity on the East Pacific Rise between 17° and 19°S: Submersible observations, *Journal of Geophysical Research*, 101, 17,995-18,010.

43. Niu, Y., D.G. Waggoner, J.M. Sinton, and J. Mahoney, 1997. Mantle source heterogeneity and melting processes in the Hump region: East Pacific Rise, 18°-19°S, *Journal of Geophysical Research*, 101, 27,711-27,733.

44. Presley, T.K., J.M. Sinton, and M. Pringle, 1997. Postshield volcanism and catastrophic erosion of the Waianae Volcano, Oahu, Hawaii, *Bulletin of Volcanology*, 58, 597-616.

45. Rolett, B., E. Pearthree, J. Sinton and E. Conte, 1997. Prehistoic long-distance interaction in the Marquesas Islands (East Polynesia), *Prehistoric Long-distance Interaction in Oceania*, M. Weisler, editor, *New Zealand Archeology Association Monograph* 21, 134-148.

46. Weisler, M.I., J. Sinton, and Y. Sinoto, 1997. Towards identifying prehistoric interaction in Polynesia, *Prehistoric Long-distance Interaction in Oceania*, M. Weisler, editor, *New Zealand Archeology Association, Monograph* 21, 173-193.

47. Sinton, J.M., and Y. Sinoto, 1997. A geochemical database for Polynesian adze studies, *Prehistoric Long-distance Interaction in Oceania*, M. Weisler, editor, *New Zealand Archeology Association Monograph* 21, 194-204.

48. Sinton, J.M., 1997. The Manus Spreading Center near 3°22'S and the Worm Garden hydrothermal site: results of Mir2 submersible dive 15, *Marine Geology, v.* 142, 207-209.

49. Macpherson, C.G., D.R. Hilton, J.M. Sinton, R.J. Poreda, and H. Craig, 1998. High $^{3}He/^{4}He$ ratios in the Manus Basin: Implications for mantle mixing and the origin of plumes in the western Pacific Ocean, *Geology, v.* 26, 1007-1010.

50. Rolett, B. V., W-C. Chen, and J.M. Sinton, 2000. Taiwan, neolithic seafaring and Austronesian origins, *Antiquity*, v. 74, 54-61.

51. Macpherson, C.G., D.R. Hilton, D.P. Mattey, and J.M. Sinton, 2000. Evidence for an ^{18}O-depleted plume from contrasting $^{18}O/^{16}O$ ratios of back-arc lavas from the Manus Basin and Mariana Trough, *Earth and Planetary Science Letters*, 176, 171-183.

52. Guillou H., J. Sinton, C. Laj, C. Kissel, and N. Széréméta, 2000. New K-Ar ages of the shield lavas from Waianae volcano, Oahu, Hawaiian Archipelago. *Journal of Volcanology and Geothermal Research*, 96, 231-244.

53. Frey, F.A., D. Clague, J. Mahoney and J. Sinton, 2000. Volcanism at the edge of the Hawaiian Plume: petrogenesis of submarine lavas from the North Arch Volcanic Field, *Journal of Petrology*, 41, 667-691.

54. Bergmanis, E.C., J.M. Sinton and F.A. Trusdell, 2000. Rejuvenated volcanism along the southwest rift zone, East Maui, Hawaii, *Bulletin of Volcanology*, 62, 239-255.

55. Rubin, K.H., M.D. Smith, E.C. Bergmanis, M.R. Perfit, J.M. Sinton, and R. Batiza, 2001. Magmatic history and volcanological insights from individual lava flows erupted on the seafloor, *Earth and Planetary Science Letters*, 188, 349-367.

56. Shaw, A.M., D.R. Hilton, C.G. Macpherson, and J. M. Sinton, 2002. Nucleogenic neon in high $^{3}He/^{4}He$ lavas from the Manus back-arc basin: a new perspective on He-Ne decoupling, *Earth and Planetary Science Letters*, 194, 53-66.

57. Sinton, J.M., E. Bergmanis, K. Rubin, R. Batiza, T.K.P. Gregg, K. Grönvold, K. Macdonald, and S. White, 2002. Volcanic eruptions on mid-ocean ridges: New evidence from the superfast-spreading East Pacific Rise, 17°-19° S, *Journal of Geophysical Research, 107, B6,* http://dx.doi.org/10.1029/2000JB000090.

58. Canales, J.P., G. Ito, R.S. Detrick and J. Sinton, 2002. Crustal thickness along the western Galápagos spreading center and the compensation of the Galápagos hotspot swell, *Earth and Planetary Science Letters*, 203, 311-327.

59. Detrick, R.S., J. Sinton, G. Ito, J.P. Canales, M. Behn, T. Blacic, B. Cushman, J.E. Dixon, D.W. Graham, and J. Mahoney, 2002. Correlated geophysical, geochemical and volcanological manifestations of plume-ridge interaction along the Galápagos spreading center, *Geochemistry, Geophysics, Geosystems*, http://dx.doi.org/1029/2002GC000350.

60. White, S.M., K.C. Macdonald, and J.M. Sinton, 2002. Volcanic mound fields and lava flow fields on the East Pacific Rise, 16°-19°S: Low effusion rate eruptions at overlapping spreading centers for the last 1 Myr, *Journal of Geophysical Research*, http://dx.doi.org/10.1029/2001JB000483.

61. Sinton, J.M., L.L. Ford, B. Chappell, and M.T. McCulloch, 2003. Magma genesis and mantle heterogeneity in the Manus back-arc basin, Papua New Guinea, *Journal of Petrology*, 44, 159-195.

62. Carbotte, S.M., W.B.F. Ryan, W. Jin, M-H. Cormier, E. Bergmanis, J. Sinton, and S.White, 2003. Subsidence of the axis of the EPR revealed through application of a fault restoration technique, *Geochemistry, Geophysics, Geosystems,* http://dx.doi.org/10.1029/2002GC000337.

63. Shah, A.K., M-H. Cormier, W. Ryan, W. Jin, J. Carlut, E. Bergmanis and J. Sinton, 2003. Near-bottom magnetic anomaly maps at the axis of the southern East Pacific Rise suggest episodic extrusion at a superfast spreading ridge, *Journal of Geophysical Research* 108, http://dx.doi.org/10.1029/2001JB000564.

64. Sinton, J.M., R.S. Detrick, J.P. Canales, G. Ito, and M. Behn, 2003. Morphology and segmentation of the western Galápagos Spreading Center, 90.5-98°W: plume-ridge interaction at an intermediate spreading ridge, *Geochemistry, Geophysics, Geosystems*, http://dx.doi.org/10.1029/2003GC000609.

65. Behn, M.D., J.M. Sinton and R.S. Detrick, 2004. Effect of the Galápagos hotspot on seafloor volcanism along the Galápagos Spreading Center, *Earth and Planetary Science Letters*, 217, 331-347.

66. Shaw, A.M., D.R. Hilton, C.G. Macpherson, and J.M. Sinton, 2004. The CO_2-He-Ar-H_2O systematics of the Manus back-arc basin: resolving source composition from degassing and contamination effects, *Geochimica Cosmochimica Acta*, v. 68, p. 1837-1856.

67. Cushman, B., J. Sinton, G. Ito, and J.E. Dixon, 2004. Glass compositions, plume-ridge interaction, and hydrous melting along the Galápagos Spreading Center, 90.5° to 98°W, *Geochemistry, Geophysics, Geosystems*, http://dx.doi.org/10.1029/2004GC000709.

68. Blacic, T.M., G. Ito, J.P. Canales, R.S. Detrick, and J. Sinton, 2004. Constructing the crust along the Galápagos spreading center 91.3°-95.5°W: correlation of seismic layer 2A with axial magma lens and topographic characteristics, *Journal of Geophysical Research, 109, B10310,* http://dx.doi.org/10.1029/2004JB003066.

69. Hart, S.R., M. Coetzee, R.K. Workman, J. Blusztajn, K.T.M. Johnson, J.M. Sinton, B. Steinberger, and J.W. Hawkins, 2004. Genesis of the western Samoa seamount province: age, geochemical fingerprint and tectonics, *Earth and Planetary Science Letters*, v. *227*, p. 37-56.

70. Kurz, M.D., M. Moreira, J. Curtice, D.E. Lott III, J.J. Mahoney, and J.M. Sinton, 2005. Correlated helium, neon, and melt production on the super-fast spreading East Pacific Rise near 17°S., *Earth and Planetary Science Letters*, v. *232*, p. 125-142.

71. Bowles, J., J. Gee, D. Kent, E. Bergmanis, and J. Sinton, 2005. Cooling rate effects on paleointensity estimates in submarine basaltic glass and implications for dating young flows, *Geochemistry, Geophysics, Geosystems*, http://dx.doi.org/10.1029/2004GC000900.

72. Sinton, J., K. Grönvold, and K. Sæmundsson, 2005. Postglacial eruptive history of the Western Volcanic Zone, Iceland, *Geochemistry, Geophysics, Geosystems, 6,* http://dx.doi.org/10.1029/2005GC001021.

73. Hall, L.S., J.J. Mahoney, J.M. Sinton, and R.A. Duncan, 2006. Spatial and temporal distribution of a *C*-like asthenospheric component in the Rano Rahi seamount field, East Pacific Rise, 15°-19°S, *Geochemistry, Geophysics, Geosystems, 7, Q03009,* http://dx.doi.org/10.1029/2005GC000994.

74. Eason, D. and J. Sinton, 2006. Origin of high-Al N-MORB by fractional crystallization in the upper mantle beneath the Galápagos Spreading Center, *Earth and Planetary Science Letters, v. 252*, p. 423-436, http://dx.doi.org/10.1016/j.epsl.2006.09.048

75. Sherrod, D.R., J.M. Sinton, S.E. Watkins, and K.M. Brunt, 2007. Geologic Map of the State of Hawai'i, *U.S. Geological Survey Open-File Report 2007-1089*, https://pubs.usgs.gov/of/2007/1089/

76. Geshi, N., S. Umino, H. Kumugai, J.M. Sinton, S.M. White, K. Kisimoto, T.W.C. Hilde, 2007. Discrete plumbing systems and heterogeneous magma sources of a 24 km^3 off-axis lava field on the western flank of the East Pacific Rise, 14°S, *Earth and Planetary Science Letters, v. 258*, p. 61-72, http://dx.doi.org/10.1016/j.epsl.2007.03.019

77. Rubin, K.H., and J.M. Sinton, 2007. Inferences on mid-ocean ridge thermal and magmatic structure from MORB compositions, *Earth and Planetary Science Letters, v. 260, p.* 257-276, http://dx.doi.org/10.1016/j.epsl.2007.05.035

78. Bergmanis, E.C., J. Sinton and K.H. Rubin, 2007. Recent eruptive history and magma reservoir dynamics on the southern East Pacific Rise at 17° 30'S., *Geochemistry, Geophysics, Geosystems, Q12O06*, http://dx.doi.org/10.1029/2007/GC001742.

79. Rubin, K.H., J.M. Sinton, and J. Maclennan, 2009. Magmatic filtering of mantle compositions at mid-ocean ridge volcanoes, *Nature Geoscience, v. 2,* http://dx.doi.org/10.1038/NGEE0504.

80. Eason, D.E., and J.M. Sinton, 2009. Lava shields and fissure eruptions of the Western Volcanic Zone, Iceland, evidence for magma chambers and crustal interaction, *Journal of Volcanology and Geothermal Research, v. 186*, p. 331-348, http://dx.doi.org/10.1016/j.volgeores.2009.06.009

81. Rotella, M.D., J.M. Sinton, J.J. Mahoney and W. Chazey III, 2009. Geochemical evidence for low magma supply and inactive propagation at the Galápagos 93.25°W overlapping spreading center, *Geochemistry, Geophysics, Geosystems, v. 10,* http://dx.doi.org/10.1029/2009GC002445.

82. van der Zander, I., J.M. Sinton and J.J. Mahoney, 2010. Late shield-stage silicic magmatism at Wai'anae Volcano: evidence for hydrous crustal melting in Hawaiian volcanoes, *Journal of Petrology, v. 51, p.* 671-701, http://dx.doi.org/10.1093/petrology/egp094.

83. Ingle, S. G. Ito, J. Mahoney, W. Chazey III, J. Sinton, M. Rotella, and D.M. Christie, 2010. Mechanisms of geochemical and geophysical variations along the western Galápagos Spreading Center, *Geochemistry, Geophysics, Geosystems, v. 11*, http://dx.doi.org/10.1029/2009GC002694.

84. Beier, C., S.P. Turner, J.M. Sinton, and J.B. Gill, 2010. Influence of subducted components on back-arc melting dynamics in the Manus Basin, *Geochemistry, Geophysics, Geosystems,* http://dx.doi.org/10.1029/2010GC003037.

85. Jackson, M.G., S.R. Hart, J.G. Konter, A. A.P. Koppers, H. Staudigel, M.D. Kurz, J. Blusztajn, and J.M. Sinton, 2010. Samoan hot spot track on a "hot spot highway": Implications for mantle plumes and a deep Samoan mantle source, *Geochemistry, Geophysics, Geosystems*, *11*, http://dx.doi.org/10.1029/2010GC003232.

86. Kirch, P.V., P R. Mills, S.P. Lundblad, J. Sinton and J.G. Kahn, 2012. Interpolity exchange of basalt tools facilitated via elite control in Hawaiian archaic states, *Proceedings of the National Academy of Science, v. 109*, http://dx.doi.org/10.1073/pnas.1119009109.

87. Shaw, A.M., E.H. Hauri, M.D. Behn, D.R. Hilton, C. G. Macpherson, and J. M. Sinton, 2012. Long-term preservation of slab signatures in the mantle inferred from hydrogen isotopes, *Nature GeoScience*, http://dx.doi.org/10.1038/NGEO1406.

88. McClinton, J.T., S.M. White and J.M. Sinton, 2012. Neuro-fuzzy classification of submarine lava flow morphology, *Photogrammetric Engineering and Remote Sensing, v. 78,* 605-616.

89. Colman, A., J. Sinton, S.M. White, T. McClinton, J.A. Bowles, K. Rubin, M. Behn, B. Cushman, D. Eason, T.K.P. Gregg, K. Grönvold, S. Hidalgo, J. Howell, O. Neill, and C. Russo, 2012. Effects of variable magma supply on mid-ocean ridge eruptions: Constraints from mapped lava flow fields along the Galápagos Spreading Center, *Geochemistry, Geophysics, Geosystems*, http://dx.doi.org/10.1029/2012GC004163.

90. Kahn, J.G., J. Sinton, P R. Mills and S.P. Lundblad, 2013. X-ray fluorescence analysis and inter-island exchange in the Society Island Archipelago (Central Eastern Polynesia), *Journal of Archeological Science, v. 40*, 1194-1202, http://dx.doi.org/10.1016/j.jas.2012.10.003.

91. McClinton, J.T., S. White, A. Colman, J. Sinton, 2013. Reconstructing lava flow emplacement processes at the hotspot-affected Galápagos Spreading Center, 95° and 92° W, *Geochemistry, Geophysics, Geosystems*, http://dx.doi.org/10.1002/ggge.20157.

92. Flinders, A., G. Ito, M. Garcia, J. Sinton, J. Kauahikaua, and B. Taylor, 2013. Intrusive dike complexes, cumulate cores and the extrusive growth of Hawaiian volcanoes, Geophysical Research Letters, http://dx.doi.org/10.1002/ggge.20157.

93. Price, A. A., M. G. Jackson, J. Blichert-Toft, P. S. Hall, J. M. Sinton, M. D. Kurz, and J. Blusztajn, 2014. Evidence for a broadly distributed Samoan-plume signature in the northern Lau and North Fiji Basins, Geochemistry Geophysics Geosystems, v. 15, p. 986-1008, http://dx.doi.org/10.1002/2013GC005061.

94. Sinton, J., D. Eason, M. Tardona, D. Pyle, I. van der Zander, H. Guillou, D. Clague and J. Mahoney, 2014. Ka‘ena Volcano – a precursor volcano of the island of O‘ahu, Hawai‘i, *Bull. Geol. Soc. Amer*., v. 126, p. 1219-1244, http://dx.doi.org/10.1130/B30936.1.

95. Bowles, J. A., A. Colman, J. T. McClinton, J. M. Sinton, S. M. White, and K. H. Rubin, 2014. Eruptive timing and 200-year episodicity at 92°W on the hotspot-influenced Galápagos Spreading Center derived from geomagnetic paleointensity, *Geochemistry Geophysics Geosystems*, http://dx.doi.org/10.1002/2014GC005315.

96. McClinton, T., S. M. White, A. Colman, K. Rubin, and J. M. Sinton, 2014. The role of crystallinity and viscosity in the formation of submarine lava flow morphology, *Bulletin of Volcanology, v. 76, p. 854*, http://dx.doi.org/10.1007/s00445-014-0854-2.

97. Graham, D. W., B. B. Hanan, J. E. Lupton, K. Hoernle, R. Werner, D. M. Christie, and J. M. Sinton, 2014. Helium isotope variations and mantle plume-spreading ridge interaction along the Galápagos Spreading Center, Chapter 18 in Harpp, K, E. Mittelstaedt, N. d’Ozouville and D. Graham, editors, *The Galápagos: A Natural Laboratory for the Earth Sciences*, American Geophysical Union, Monograph 204, p. 393-414.

98. Rolett, B., E. W. West, J. M. Sinton, and R. Iovita, 2014. Voyaging in the East Polynesian homeland: new evidence from the Hawaiki core area, *Journal of Archeological Science, v. 53*, p. 459-471, http://dx.doi.org/10.1016/jas.2014.10.018.

99. Colman, A., J. M. Sinton, and V. D. Wanless, 2015. Constraints from melt inclusions on depths of magma residence at intermediate magma supply along the Galápagos Spreading Center, *Earth and Planet. Sci. Letters, v. 412, p.* 122-131, http://dx.doi.org/10.1016/j.epsl/2014.12.007.

100. Eason, D. E., J. M. Sinton, K. Grönvold, and M. D. Kurz, 2015. Effects of deglaciation on the petrology and eruptive history of the Western Volcanic Zone, Iceland, *Bulletin of Volcanology, v. 77, p. 47*, http://dx.doi.org/10.1007/s00445-015-0916-0.

101. Sinton, J. M., and Y. H. Sinoto, 2015. Geochemical and petrographic evidence for adze production at Pu'u Pāpa'i, East Moloka'i, Hawai'i, *Journal of Archeological Science: Reports, v. 4, p. 401-408*, http://dx.doi.org/10.1016/j.jasrep.2015.09.019.

102. Hammer, J., S. Jacob, B. Welsch, E. H. Hellebrand, and J. Sinton, 2016. Clinopyroxene in postshield Haleakala ankaramite, 1. Efficacy of thermobarometry, *Contributions to Mineralogy and Petrology, v. 171,* http://dx.doi.org/10.1007/s00410-015-1212-x.

103. Welsch, B., J. Hammer, A. Baronnet, S. Jacob, E. Hellebrand, and J. Sinton, 2016. Clinopyroxene in postshield Haleakala ankaramite, 2. Texture, compositional zoning and supersaturation in the magma, *Contributions to Mineralogy and Petrology, v. 171,* http://dx.doi.org/10.1007/s00410-015-1213-9.

104. Colman, A., J.M. Sinton, and K.R. Rubin, 2016. Magmatic processes at variable magma supply along the Galápagos Spreading Center: Constraints from individual eruptive units, *Journal of Petrology, v. 57, p. 981-1018,* http://dx.doi.org/10.1093/petrology/egw032.

105. Shea, T., T. Leonhardi, T. Giachetti, A. Lindoo, J. Larsen, J. Sinton, E. Parsons, 2017. Dynamics of an unusual cone-building trachyte eruption at Puʻu Waʻawaʻa, Hualālai Volcano, Hawaiʻi. *Bulletin of Volcanology, v. 79,* http://dx.doi.org/10.1007/s00445-017-1106-z

106. Sinton, J.M., Eason, D.E., and Duncan, R.A., 2017. Volcanic evolution of Molokaʻi, Hawaiʻi: Implications for the shield to postshield transition in Hawaiian volcanoes. *Journal of Volcanology and Geothermal Research*, v. 340, p. 30-51, http://dx.doi.org/10.1016/j.jvolgeores.2017.04.011.

107. DiVito, N.J., T.S. Dye, K. Elkington, J. Gunness, E.Hellebrand, E.Jourdane, S. Lundblad, N. Mello, P.R. Mills, and J.M. Sinton, 2020. Volcanic glass at Kualoa, Oʻahu, Hawaiian Islands: Paired technological and geochemical sourcing analyses of an expedient tool industry, Journal of Archeological Science, Reports, v. 30, p. 102117, https://doi.org/10.1016/j.jasrep.2019.102117.

108. Hermann, A., R. Forkel, A. McAlister, A. Cruickshank, M. Golitko, B. Kneebone, M. McCoy, C. Reepmeyer, P. Sheppard, J. Sinton, and M. Weisler. 2020. Pofatu, a curated and open-access database for geochemical sourcing of archeological materials, Nature Scientific Data, 7 (141), https://doi.org/10.1038/s41597-020-0485-8

109. Sinton, J.M., and D.R. Sherrod, 2021. Geology of the Hawaiian Islands, Encyclopedia of Geology v. 2, edited by Scott Elias and David Alderton, Elsevier, p. 742-757. https://doi.org/10.1016/B978-0-12-409548-9.12513-8

110. Sherrod, D.R., J.M. Sinton, S. E. Watkins, and K. M. Brunt, 2021. Geologic Map of the State of Hawaiʻi. U.S. Geological Survey Scientific Investigations Map 3143, pamphlet 72 p., 5 sheets, scales 1:100,000 and 1:250,000, https://doi.org/10.3133/sim3143

111. Shimizu, K., A.E. Saal, E.H. Hauri, J.M. Sinton, P.E. Janney, N. Geshi, and R. Hékinian, 2023. High-C content and CO_2/Ba ratio of the Earth's enriched upper mantle. Geochimica Cosmochimica Acta, *v. 343, p. 161-179*. https://doi.org/10.1016/j.gca.2022.10.023

112. Cych, B., L. Tauxe, G. Cromwell, J. Sinton, and A. Koppers, 2023. Changes in non-dipolar field structure over the Plio-Pleistocene: New paleointensity results from Hawaiʻi, compared to global data sets, Journal of Geophysical Research: Solid Earth, https://doi.org/10.1029/2023JB026492

113. Weisler, M.I., J. Sinton, Q. Hua, and J. Skippington, 2023. Indirectly dating one of the oldest adze quarries in the Hawaiian Islands provides insights into the colonization process and community networks. Journal of Pacific Archaeology, v. 13, no. 2.

Other Published Works

1. Sinton, J. M., 1973. Major element composition of the major rock units, in Kays, M. A., *The Geology of the Hara Lake Area, Saskatchewan, Sask. Dept. Min. Res. Rept.* 146, 28-31.

2. Sinton, J. M., 1979. Geology and petrography of volcanic rocks of Lualualei Valley, in *Field Trip Guide to the Hawaiian Islands*, edited by M. Garcia and J. Sinton, *Hawaii Inst. Geophys. Spec. Publ.*, 39-49.

3. Sinton, J. M., 1979. Geologic History of Maui, *Ibid*, 81-92.

4. Sinton, J. M., 1979. Maui Field Trip Itinerary, *Ibid*, 107-117.

5. Cox, M. E., J. M. Sinton, D. M. Thomas, M. D. Mattice, J. P. Kauahikaua, D. M. Hellstern and P-F. Fan, 1979. *Investigation of Geothermal Potential in the Waianae Caldera Area, Western Oahu, Hawaii, Hawaii Institute of Geophysics Technical Report* 79-8, Honolulu, Hawaii, 76 pp.

6. Cox, M. E., K. E. Cuff, B. R. Lienert, J. M. Sinton and D. M. Thomas, 1982. *A Preliminary Geothermal Evaluation of the Mokapu Peninsula on the Island of Oahu, Hawaii, Hawaii Institute of Geophysics Technical Report* 82-2, Honolulu, Hawaii, 45 pp.

7. McMurtry, G. M. and J. M. Sinton, 1986. Geochemical methods for the determination of marine mineral resources, in *Pacific Mineral Resources: Physical, Economic and Legal Issues*, edited by C. L. Johnson, and A. L. Clark, East-West Center, Honolulu, Hawaii, p. 227-272.

8. Sinton, J. M., 1987. Geologic History of Maui, in Sinton, J.M. (editor) *Field Trip Guide to Maui*, 83rd Geol. Soc. Amer. Cord. Sect., Boulder, CO., 1-12.

9. Sinton, J. M., D. E. Diller and C-Y. Chen, 1987. Geology and petrological evolution of West Maui Volcano, *Ibid*, 13-30.

10. Taylor, B., K. A. W. Crook, J. M. Sinton, and L. Petersen, 1991. Manus Basin, Papua New Guinea, SeaMARC II sidescan sonar imagery and bathymetry, in *South Pacific Seafloor Atlas, SOPAC Region*, Sheets 1-7, Hawaii Institute of Geophysics, Honolulu.

11. Taylor, B., K. A. Crook, J. M. Sinton et al., 1991. Rabaul Caldera, Papua New Guinea, SeaMARC II sidescan imagery, aerial photography, bathymetry and topography, 1:25,000, *South Pacific Seafloor Atlas, SOPAC Region*, Sheet 8, Hawai‘i Institute of Geophysics, Honolulu

12. Tiffin, D. L., B. Taylor, K. A. W. Crook, J. Sinton and E. Frankel, 1986. Surveys in the Solomon Islands and Papua New Guinea using SeaMARC II – Report of the R/V Moana Wave, 29 November, 1985 – 9 January, 1986. CCOP-SOPAC Cruitse Report 117, South Pacific Applied Geoscience Commission, Suva, 25 pp.

13. Sinton, J. M., C. H. Langmuir, J. F. Bender, and R. S. Detrick, 1992. What is a magma chamber? *RIDGE Events*, 3, no. 1, 46-49.

14. Sinton, J. M. Y. H. Sinoto and A. W. Cheng, 1994. *Geolithic and Archeologic Reference Collections for Polynesian Adze Studies, Report to Native Hawaiian Culture and Arts Program*, Bishop Museum, Honolulu, 229 pp.

15. Auzende, J-M., V. Ballu, R. Batiza, D. Bideau, M-H. Cormier, Y. Fouquet, P. Geistdorfer, Y. Lagabrielle, J. Sinton, and P. Spadea, 1994. Present-day magmatic, tectonic and hydrothermal activity on the East Pacific Rise between 17° and 19°S (NAUDUR Cruise), *Comptes Rendus Acad. Sci. Paris, Ser. II*, 319, 811-818.

16. Auzende, J-M., V. Ballu, R. Batiza, D. Bideau, M-H. Cormier, Y. Fouquet, P. Geistdorfer, Y. Lagabrielle, J. Sinton, and P. Spadea, 1994. Observations of present-day activity at super-fast spreading: volcanic, hydrothermal and tectonic studies of the EPR 17-19°S, *RIDGE Events*, vol. 5, no *1*, 1-2, 20-21.

17. Fouquet, Y., J-M. Auzende, V. Ballu, R. Batiza, D. Bideau, M.H. Cormier, P. Geistdorfer, Y. Lagabrielle, J. Sinton, and P. Spadea, 1994. Variability of the present-day hydrothermal

activity along an ultra-fast spreading ridge – East Pacific Rise between 17° and 19°S (NAUDUR Cruise), *Comptes Rendus Acad. Sci., Ser.* II., *319*, p. 1399-1406.

18. Geistdorfer, P, J.-M. Auzende, R. Batiza, D. Bideau, M-H. Cormier, Y. Fouquet, Y. Lagabrielle, J. Sinton and P. Spadea, 1995. Hydrothermalisme et communautés animales associées sur la dorsale du Pacifique oriental entre 17°S et 19°S (campagne NAUDUR, décembre 1993), *Comptes Rendus Acad. Sci., Ser.* II., *320*, 47-54.
19. Sinton, J.M., and Rowland, S.K., 1997. Petrology and volcanology of Maui, in Batiza, R., Lee, P., and McCoy, F., Molokai and Lanai, Maui and Hawaii: Geological Society of America Cordilleran section meeting, 93rd, May 21-23, Kailua-Kona, Hawaii, p. 1-19.
20. Parmentier, E. M. and J. M. Sinton, 1998. Mid-Ocean Ridges, p. 89-121 in P. Baker and M. McNutt (editors) *Future of Marine Geology and Geophysics (FUMAGES*), Proceedings of a workshop sponsored by the National Science Foundation, 264 pp.
21. Sinton, J. M., E. Bergmanis, R. Batiza, K. Rubin, T. K. P. Gregg, K. Grönvold, S. White, K. Macdonald, C. Van Dover, M. Cormier, W. Ryan, M. Aigner-Torres, L. Popels, E. Boyle, A. Shah, W. Jin, 1999. Volcanological investigations at superfast spreading: Results from R/V Atlantis Cruise 3-31, *RIDGE Events*, 10, 17-23.
22. Sinton, J., R. Detrick, G. Ito, J. P. Canales, B. Cushman, M. Behn, T. Blacic, J. E. Dixon, D. Graham, J. Lin, J. Mahoney, and the Shipboard Scientific Party, 2000. Seismic and Petrologic Investigation of the Effects of Plume-Ridge Interaction at the Galápagos Spreading Center, *InterRidge News*, 9 (2*)*, 41-45.
23. Sinton, J. M., 2009. Volcanic Islands, p. 950-954, in Gillespie, R.G. and D.A. Clague, editors, *Encyclopedia of Islands*, Univ. California Press, Berkeley.
24. Sinton, J. 2014. Major and trace element compositions of basalts from the Southern East Pacific Rise, Version 1.0. Interdisciplinary Earth Data Alliance (IEDA). https://doi.org/10.1594/IEDA/100437.
25. Sinton, J., and D. Eason. 2016. Major and trace element analyses of volcanic rocks from Ka‘ena Ridge, Oahu, Hawaii, Version 1.0. Interdisciplinary Earth Data Alliance (IEDA). https://doi.org/10.1594/IEDA/100615.
26. Eason, D. and J. Sinton, Major and trace element analyses of subglacial volcanics from the Western Volcanic Zone, Iceland. Interdisciplinary Earth Data Alliance (IEDA). https://doi.org/10.26022/IEDA/111603
27. Sinton, John and D. Eason, Post-glacial and late-glacial volcanics from the Western Volcanic Zone, Iceland. Interdisciplinary Earth Data Alliance (IEDA). https://doi.org/10.26022/IEDA/111604
28. Sinton, J. M., I. van der Zander, T. Presley, E. Zbinden, and H. Guillou, 2022. Major element, trace element, and isotopic analyses of volcanic rocks from the Waianae Range, Oahu, Hawaii. Interdisciplinary Earth Data Alliance (IEDA). https://doi.org/10.26022/IEDA/112532.