

## **FUNDED RESEARCH GRANTS:**

### **National Science Foundation**

B. Ehrenbrink, S. Hart, K.W.W. Sims, O Rouxel, S. Thorrold – Continued Technician Support for the WHOI ICPMS Facility (NSF EAR07xxx) \$90,000.

K.W.W. Sims, A. Soule. “ U-series age constraints applied to oceanic crustal genesis at 9-10°N EPR (NSF-OCE 060383800, \$234,163).

K.W.W. Sims, “ Collaborative Research: Anatomy of an Overlapping Spreading Center: Geochemical and Geological Study of the EPR 9°03'N OSC (in Collaboration with E. Klien, M. Perfit; NSF-OCE 062227800, \$124,083).

K.W.W. Sims, B. Ehrenbrink, “Volcanic sources of volatile Platinum Group Elements” (NSF-EAR, 063824101, \$270,000).

K.W.W. Sims, “Collaborative Research: Evaluating the Competing Roles of Garnet and Fluid in Controlling U-Th Disequilibria in Lavas of the Aleutian Island Arc (NSF EAR-0610671, \$69,974; in collaboration with G. Yogodzinski).

K.W.W. Sims, “A slow spreading ridge:  $^{238}\text{U}$  and  $^{230}\text{Th}$  excesses in Kolbeinsey Ridge basalts (NSF OCE-0422278, \$290,687).

B. Ehrenbrink, K.W.W. Sims, R. Francois, S. Hart, S. Thorrold - Technician Support for the WHOI ICPMS Facility (NSF EAR0318137) \$224,200.

K.W.W. Sims Collaborative Research: Timescales of magmatic differentiation and crustal assimilation beneath Iceland: Combined U-series and oxygen isotope studies (NSF EAR-0307123) \$34,814, (in collaboration with K. Cooper).

K.W.W. Sims and M. Charette “SGER: Melt Generation and Transport during Basalt Petrogenesis: Constraints from Measurements of  $^{227}\text{Ac}$ - $^{231}\text{Pa}$  Activity Ratios”, NSF OCE-0228677, \$57,006.

K.W. W. Sims, and D.J. Fornari “Spatial and Temporal Variations in Mid-Ocean Ridge Basalt Geochemistry along and across the East Pacific Rise ” NSF OCE-0137325, \$179,630.

K.W. W. Sims, Collaborative Research: “U-Series Isotopic Constraints on the Rates Of Magma Genesis, Evolution and Degassing At Mt Erebus, Antarctica”, NSF OPP-0126269, \$117,582, (in collaboration with P. Kyle).

K.W. W. Sims, S.R. Hart and D.J. Fornari “U-Series Analyses of Young Lavas from the East Pacific Rise 9°48'N to 9°52'N: Using Lavas from the 1991 Eruption as a Baseline to Constrain the Nature and Timing of MORB Petrogenesis” NSF OCE-9730967, \$180,890.

K.W. W. Sims, “Melt Generation and Transport Beneath Hawaii: Characterizing the Zero Age Plume”, NSF EAR-9909473, \$148,004.

K.W. W. Sims, S.R. Hart, G.E. Ravizza, B. Peucker-Ehrenbrink and M. Kurz “Acquisition of a MC ICPMS for the Woods Hole Oceanographic Institution Dedicated to the Study of Earth and Ocean Sciences”, NSF OCE-0079733, \$547,011.

K.W. W. Sims “ Collaborative Research: U-Series Constraints on Rhyolite Genesis at Medicine Lake Volcano”, NSF EAR-0000886, \$41,262, (in collaboration with M. Reagan).

K.W. W. Sims “Collaborative Research: A Coupled Geodynamic/Geochemical Study of the Hawaiian Plume”, NSF EAR-0001924, \$65,000, (in collaboration with D.J. DePaolo, J. Bryce, M Jull and N. Ribe).

K.W. W. Sims, F. Albarede, R. Francois. "U.S. (WHOI) -France (Ecole Normale Superiour) Cooperative Research: The Actinides Proxys of Nutrients and the Tuning of Thermohaline Circulation during the Last Glacial Maximum", NSF INT-9726941, \$48,000.

**WHOI:**

K.W. W. Sims, Olivier Rouxel “Using Nickel as a New Isotope Tracer of Oceanic Processes” WHOI Mellon Award”, \$48,875.

K.W. W. Sims and M. Jull “Investigation of an Exposed Vertical Lava Sequence in a Post-Glacial Shield Volcano in the Northern Rift Zone of Iceland”, WHOI Mellon Award”, \$30,000.

K.W. W. Sims, and M Charette “Melt Generation and Transport during Basalt Petrogenesis: Constraints from Measurements of  $^{227}\text{Ac}$ - $^{231}\text{Pa}$  Activity Ratios”, WHOI Mellon Award, \$29,830.

K.W. W. Sims and S.R. Hart, “Mentorship proposal for Acquisition of a MC ICPMS for the Woods Hole Oceanographic Institution Dedicated to the Study of Earth and Ocean Sciences, WHOI”, WHOI Mentorship Grant, \$57,567.