

USF NEXUS INITIATIVE 2018 AWARD RECIPIENT

Jeff Ryan

Characterizing Slab-to-Mantle Chemical Fluxes during Subduction: Isotopic and Abundance Systematics of Fluid-Mobile Elements in Subduction-Related Igneous and Metamorphic Rock suites

Our project seeks to expand a collaborative relationship with the Guangzhou Institute of Geochemistry (GIGCAS), a research and Ph.D.-granting institute of the Chinese Academy of Sciences. GIGCAS is a world-class geochemistry institution—one of only a few in the world that can measure boron and molybdenum isotopes, high-value tracers for the geochemical study of subduction zone phenomena. The work involves the ongoing study of volcanic rocks recovered during IODP Expedition 352 to the Izu-Bonin forearc, and isotopic studies of serpentinites and basalts recovered during IODP Expedition 366 to the Mariana forearc, and IODP Expedition 367 to the South China Sea.

Partnerships:

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