

Rebecca CAREY

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Dr. Rebecca Carey is a Senior Lecturer and Australian Research Council DECRA fellow in the School of Natural Sciences in the College of Science and Engineering. She is a volcanologist with research themes in Earth and Marine sciences. Rebecca's research uses field studies, microanalytical and volatile analysis on the products of volcanic eruptions to understand magma's ascent to, and eruption at, the surface. Her expertise in volcanology of the modern seafloor and terrestrial settings has proven invaluable for knowledge and understanding of ancient volcano-sedimentary successions. Rebecca has authored more than 24 publications including a chapter in volcanology's leading reference publication *The Encyclopedia of Volcanoes*. She is a current Editor for the journal *Geophysical Research Letters*. She was the Chief Editor of an AGU Monograph titled *Hawaiian Volcanoes: From Source to Surface*. Rebecca's research is in four main areas: (1) magma ascent and degassing processes, (2) eruption plumes and pyroclast transport, (3) subaerial and submarine volcanic architectures in both the modern and ancient settings, (4) lava rheology and emplacement processes. Rebecca has served as Co-Chief Scientist for a US NSF-funded research voyage on submarine volcanic systems, which utilised underwater vehicle technologies, and she will be the Co-Chief Scientist for Geoscience on the 2016 RV Investigator voyage to the Kerguelen Plateau, Southern Ocean.