

South Island, New Zealand Primary Site Coordination

Two regions of the New Zealand
Primary Site covered this afternoon:

1. Fiordland
2. Puysegur

Agenda

- 1:30 Introductory remarks and logistics | *Michael Gurnis*
- 1:40 Introduction to GeoPRISMS and NSF funding schedule for focus sites | *Peter van Keken*
- 1:50 Recap of science priorities defined for Puysegur and Fiordland in the GeoPRISMS implementation plan | *Sean Gulick*
- 2:10-3:00 Ongoing and already proposed projects | *Chair: Tim Stern*
- 3:00-3:15 Short break
- 3:15-4:15 Discussion
- 4:15-5:00 Develop a short listing that prioritizes the science gaps that need to be filled.

Ongoing and new projects

- Sarah Penniston-Dorland (U Maryland) and Joshua Schwartz (Cal State Northridge) -- The exhumed arc roots exposed at Fiordland and opportunities for an ExTerra Field Institute.
- Jamie Howarth (GNS Science) – Surface processes and the history of earthquakes from the sedimentary record in Fiordland
- Harm Van Avendonk (UT Austin) – Measuring Crustal and fault structure across Puysegur with active source seismology
- Michal Kordy (U. Utah) – Constraining mantle volatiles in Fiordland and Puysegur with an MT experiment
- Joann Stock (Caltech) – The need for magnetic measurements along Puysegur and the history of spreading between AUS and PAC
- Brian Jicha (U. Wisconsin) – Investigating adakitic volcanism and subduction initiation at Solander Island and the adjacent seafloor
- Simon Lamb [Tim Stern] (Victoria University of Wellington) – Exploring the hyperextended margin of the Campbell Plateau
- Martha Savage (Victoria University of Wellington) – On going work

Some thoughts for our Discussion

- Are there new science questions not discussed in the implementation?
- Focus on studies that are needed to fill existing science and dataset gaps
- How can we leverage existing datasets and link with other planned/proposed or potential studies
- Coordinate logistics, such as taking advantage of ships that will be in the area.
- Think strategically