

Letters of Intent: EPR
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Seismic Monitoring of 9°N - Part of a Ridge 2000 Integrated Studies Site

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Summary:

Seismic activity, whether it is volcanic or tectonic in origin, represents a fundamental perturbation to the mid-ocean ridge system, with potential consequences for the hydrothermal, geochemical, biological and geological components of the system. In recognition of this, the East Pacific Rise implementation plan identifies seismicity as a key type of data to be collected and analyzed. I plan to propose to deploy a small array of Ocean Bottom Seismometers (OBSs) to monitor seismicity at 9N on the East Pacific Rise. This array will provide continuous local and regional seismic coverage for events that may be impacting the bull's eye region of the vents at 9°49-9°51 N.