

Q&A for Full Wavefield Demonstration Experiment Call for Concepts
Updated January 3, 2016

Q: Can we propose a demonstration experiment outside of the L48 US?

A: Due to limited time and budgets, we strongly encourage proposals for L48 deployments. Proposals for Alaska may also be considered, but logistics/shipping/participation costs may become prohibitive and concept proposals should address how these costs can be managed. Deployments outside the US cannot be accommodated.

Q: How many nodal sensors are we talking about?

A: 300-400 3-comp 5Hz nodes, which could be from a variety of manufacturers.

Q: Do you require formal permission (not just handshake) from landowners to put these in?

A: Yes, because this is a community experiment, with lots of participants, we would expect to have formal site permits to ensure things are safe and protected. Your response to the Call for Concepts should address siting and permitting issues that you are aware of, and any non-standard protocols.

Q: Does IRIS have deployable infrasound sensors? (left over from TA)

A: We do not have an existing stock of infrasound sensors that we can deploy for this experiment. However, if infrasound is a capability that your experiment concept requires, please elaborate on this point and we can explore borrowing relevant equipment from community members.

Q: Will active sources be provided by PASSCAL for this experiment?

A: We could provide the Propelled Energy Generator (PEG) and hammers, but that would be it. We could potentially piggyback on existing active source experiments to incorporate active sources.

Q: If another organization has supplemental funding, would that be considered?

A: Yes, as long as data can still be immediately open.

Q: Are test data available for the nodes that will be used in this experiment?

A: Pier data from the nodes are now available as a virtual network through the DMC (PAS-NODES). These nodes were part of those used for a nodal experiment (Socorro Magma Body) conducted near the PIC. These were all 10 Hz vertical-component nodes. Note that many (possibly all) of the nodal sensors in the demonstration experiment will be 5 Hz three-component nodes.

Q: Might you contact PIs from different proposals to combine concepts for a demo experiment?

A: Yes, this is certainly possible if we receive proposals that are complementary and could be combined.

Q: How frequently will these experiments happen?

A: This experiment is a one-time thing, but depending on the outcomes, we'd like to incorporate this as a capability of the IRIS facility for ongoing Wavefields experiments in the future.

Q: Is PASSCAL going to handle the data management for the demonstration experiment?

A: Yes, it won't be a burden for the PI. PASSCAL will handle offload of the data from the instruments and the delivery of the data (in PH5 format) to the IRIS DMC.

Q: How are you going to get students involved?

A: Once we have a target and outline the experiment, then we'll know what kinds of participation we can have. We will send out ads via bulkmail, etc. to put to word out and get people involved. Some travel money will be available and there will likely be an application process.

Q: Is travel money available?

A: Yes, we expect to have travel money for people to participate in the demo experiment. No funds will be available for data analysis or research.

Q: What did you tell NSF the product will be from this? What do you expect to see after the data is collected? Are publications/reports required? Will you track the number of people/students involved?

A: We talked with NSF about this solicitation before sending it out, and they are very excited about this and about the overall wavefields concept. We hope to have results come out of this at future workshops and/or a session at next year's AGU. We'd also expect output in terms of an exchange of information in how to use this instrumentation/capability, for example, a report on what we did, how we did it, what we learned.