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Idaho National Laboratory Seismic Network: A Brief History and Overview of Current Capabilities

The Idaho National Laboratory (INL), located in Eastern Idaho, in the United States, has a history of operating nuclear test reactors and is currently designated as a Reactor Innovation Center. The seismic monitoring network began as a single seismic station in 1973 and has grown to include over 100 instruments for the purpose of monitoring geophysical phenomena. As the network has evolved over the years, new technology has greatly expanded the capabilities of the network. Recently, the INL detected a large sonic boom which traversed the INL desert site and was measured across the seismic network as well as a single infrasound station. This presentation will show the analysis of the recent sonic boom as well as provide an overview of the history of the INL seismic network and the current configuration of the network. It will also provide an overview of the future as the network begins to expand the infrasound network for the purposes of explosion monitoring and understanding the seismo-acoustic boundary. In addition, we seek guidance on how the INL seismic network and its data and capabilities can contribute to explosion monitoring efforts worldwide.

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