

T3.1-P23. Pinedale Seismic Research Facilities Expanded Infrasound Capability

The Pinedale Seismic Research Facility (PSRF) is establishing an infrasound sensor calibration system and field test bed. The goal is to provide the infrasonic research community with a neutral platform to compare, test, and optimize infrasonic recording systems. The PSRF is in a unique location to record signals from a variety of man made sources. There are also areas of high topographic relief, varied temperature range, snow accumulation, and weather patterns that will further the understanding of infrasonic signal propagation and detection. The sensor calibration system is a unique common manifold system with a piston driven source. Up to three sensors can be bench tested against a control sensor, before and after deployment. The field test bed will be configured to have a small and large aperture array. Systems can be tested as components of the array or side-by-side. We will establish modular noise suppression systems to identify better methods to enhance signal detection. We will also continue the work on infrasound bulletin generation (Park et al, 2014) and infrasound signal coupling to seismic sensors.

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