

# Nuclear Test and Collapse Data from the Livermore National Network Between 1979-1992

*Tuesday, 20 June 2023 15:15 (15 minutes)*

Historical geophysical data recorded during the peak of nuclear testing is rare and limited. Efforts have been made to preserve and digitize data but have minimal quality control from decades of lost history and retiring personnel. Furthermore, recent research into the subsequent collapses of cavities is stifled by the lack of continuous records to investigate historical collapses.

The Livermore National Network (LNN) was a 4-station seismic network in California, Nevada and Utah that recorded nuclear and tectonic events starting in the 1960s. Here, we present previously unreleased data from LNN containing over 100 recorded nuclear tests as well as over 50 collapses associated with a nuclear test. We will discuss the challenges and mitigation efforts we undertook to preserve and correct any errors in the digitization, waveform rotation and metadata.

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## Promotional text

We will present previously unreleased nuclear tests and collapse data from the Livermore National Network (LNN) between 1979-1992 and discuss the challenges in preserving and correcting the waveforms.

## Oral preference format

in-person

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**Session Classification:** O2.5 Historical Data from Nuclear Test Monitoring

**Track Classification:** Theme 2. Events and Nuclear Test Sites: T2.5 Historical Data from Nuclear Test Monitoring