The LANL Seismoacoustics Team includes expertise on the geophysical tools required to rapidly analyze seismic events of interest using a variety of phenomenologies. This analysis focuses on answering the following questions:

**What was it?**
- Build a catalog of background events in the region, with or without information on prior events, using a range of signal detection techniques
- Exploit additional types of data to determine nature of the event
- Determine if event of interest is distinct from background (natural or anthropogenic) activity

**Where was it?**
- Seismic absolute or relative location and associated uncertainties
- Event location and associated uncertainties, based on multiple data types such as seismic, infrasound, or electro-magnetic signals
- Sophisticated propagation model building to further enhance location accuracy

**How big was it?**
- Amplitude- and spectral-based techniques for both absolute and relative magnitudes and yields

Seismic recordings of DPRK tests in 2013 (red), 2009 (green), and 2006 (blue) showing increasing size over time.
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