



Nevada Seismological Laboratory  
University of Nevada, Reno

# Nevada Seismological Laboratory



## CLUBHOUSE STAFF

- Graham Kent – Director
- Ken Smith – Associate Director
- Erik Williams – Administration/Operations
- David Slater – Senior Systems Analyst
- John Torrisi – Senior Field/Lab Technician
- Ryan Presser – Field/Lab Technician
- Kent Straley – Field/Lab Technician
- Gabe Plank – Data Center IT Manager
- Mark Williams – Seismic Programmer/Analyst
- Tom Rennie – Senior Seismic Analyst
- Mickey Cassar – Seismic Analyst

## CURRENT PROJECTS

- Nevada Seismic Network
  - ALERT Fire Camera Network
  - Nevada Test Site (NNSS) Source Physics Experiment
- Other minor projects:
- EPSCOR Environmental Monitoring
  - Mine Seismicity in Eastern Nevada
  - Earthquake Clustering Software

# NEVADA SEISMIC NETWORK

- 200+ Stations in Nevada and Eastern California
  - Antelope since 2000
    - 20 plus RT instances in production
    - Ubuntu Linux with a token RedHat server
- AWS Cloud Services: Website, Data Exports

# ALERT

- ALERT = HPWREN
  - Tahoe and BLM
    - 1sps data kept for 30 days (1Tb/Camera)
- 10s data kept since inception, indexed and archived
  - JPEG headers stacked with cam metadata
- Each time we catch a fire it pays for an installation
- Situational Awareness is Key for Fire Personnel

# SOURCE PHYSICS EXPERIMENT

- 350 Channels at 500sps
- 5 Shots, 6<sup>th</sup> scheduled for September
- All National Labs, plus a few defense agencies

# LINKS

- <http://alerttahoe.seismo.unr.edu/firecams.html>
- <http://www.seismo.unr.edu/>
- <http://www.seismo.unr.edu/Earthquake>