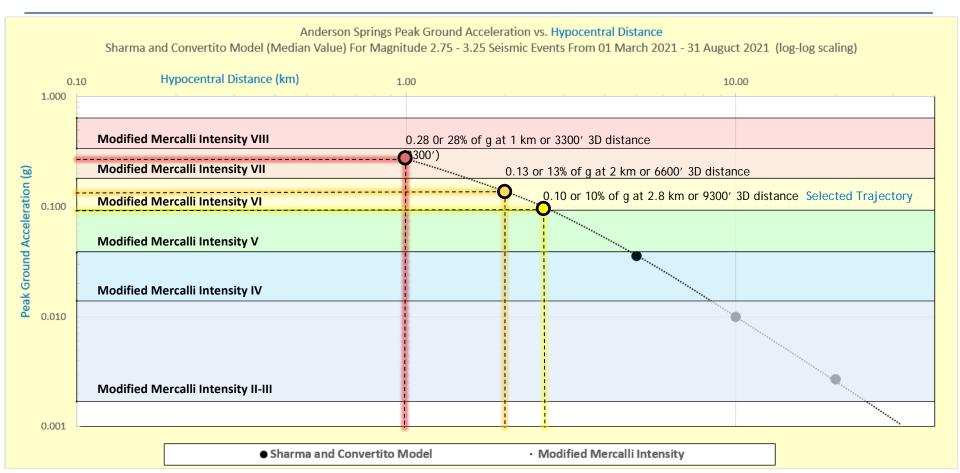
# Peak Ground Acceleration vs. Hypocentral Distance Seismic Events For Magnitude 2.75 to 3.25 Curve is Sharma and Convertito 2018 Model Median Value

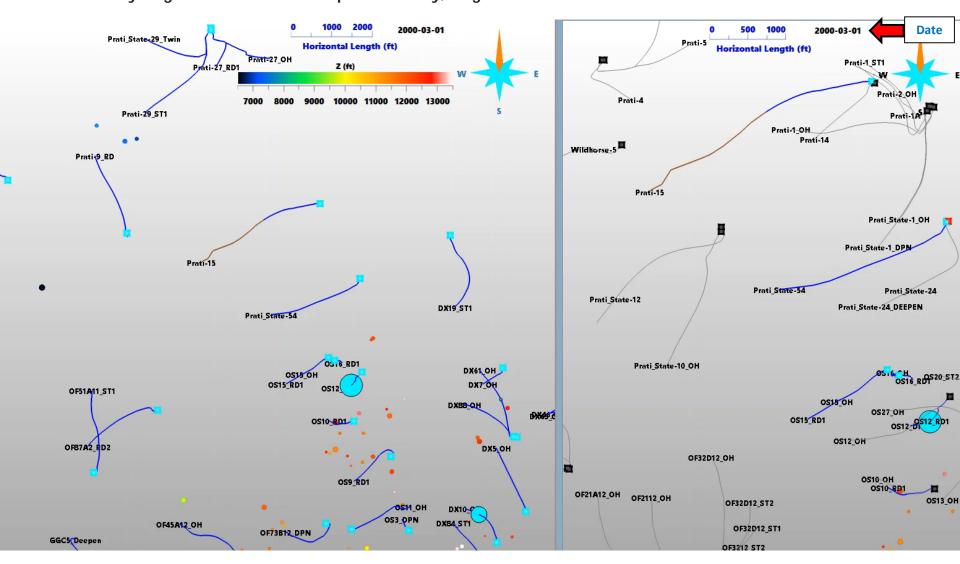


Perceived Shaking	Not Felt	Weak	Light	Moderate	Strong	Very Strong	Severe	Violent	Extreme
Potential Damage	None	None	None	Very Light	Light	Moderate	Mod/Heavy	Heavy	Very Heavy
Peak Acceleration (% of g)	< 0.17	0.17 - 1.4	1.4 - 3.9	3.9 - 9.2	9.2 - 18.0	18.0 - 34.0	34.0 - 65.0	65.0 - 124.0	> 124.0
Peak Velocity (cm/sec)	< 0.10	0.1 - 1.1	1.1 - 3.4	3.4 - 8.1	8.1 - 16.0	16.0 - 31.0	31.0 - 60.0	60.0 - 116.0	> 116.0
Modified Mercalli Intensity	I	11-111	IV	V	VI	VII	VIII	IX	Х





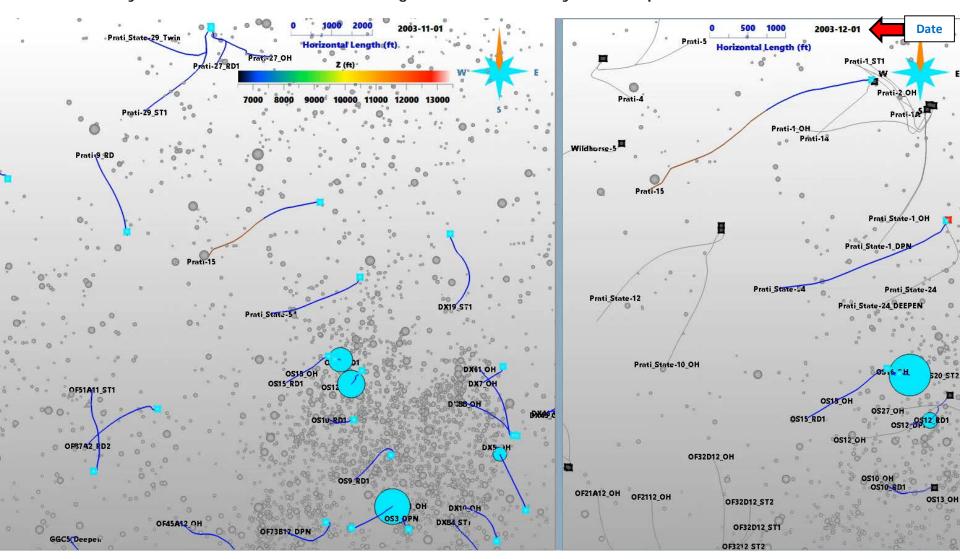
Detailed Water Injection Monitoring - Monthly Seismicity Animation January 2000 through October 2003 VIDEO OS-12 Seismicity Progression Descends and Expands Laterally; Progression Inhibited to West and North







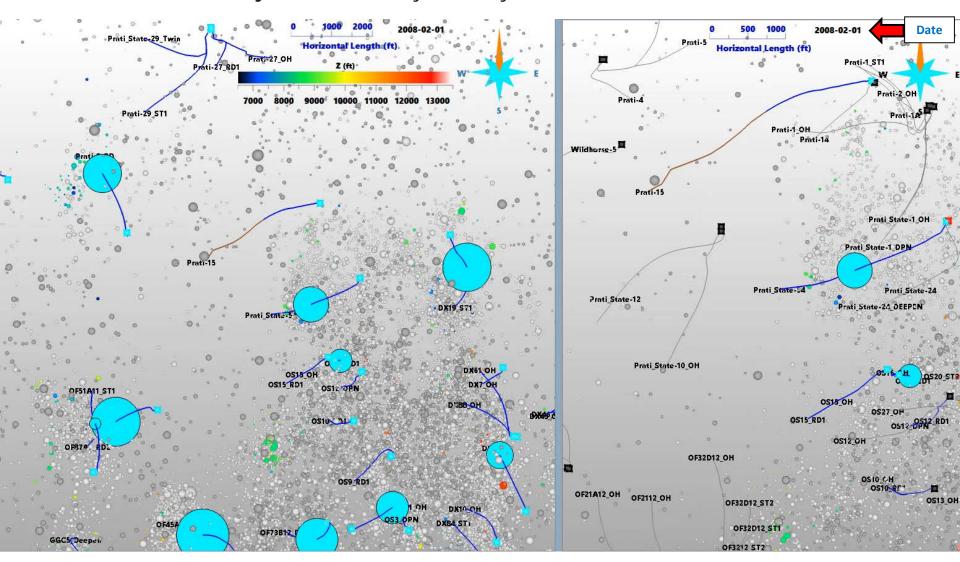
Detailed Water Injection Monitoring - Monthly Seismicity Animation October 2003 through October 2007 VIDEO OS-16 Seismicity Descent and Shallower Northwest Progression; DX19 Seismicity Shallow Expansion North of "OS" Well Contributions







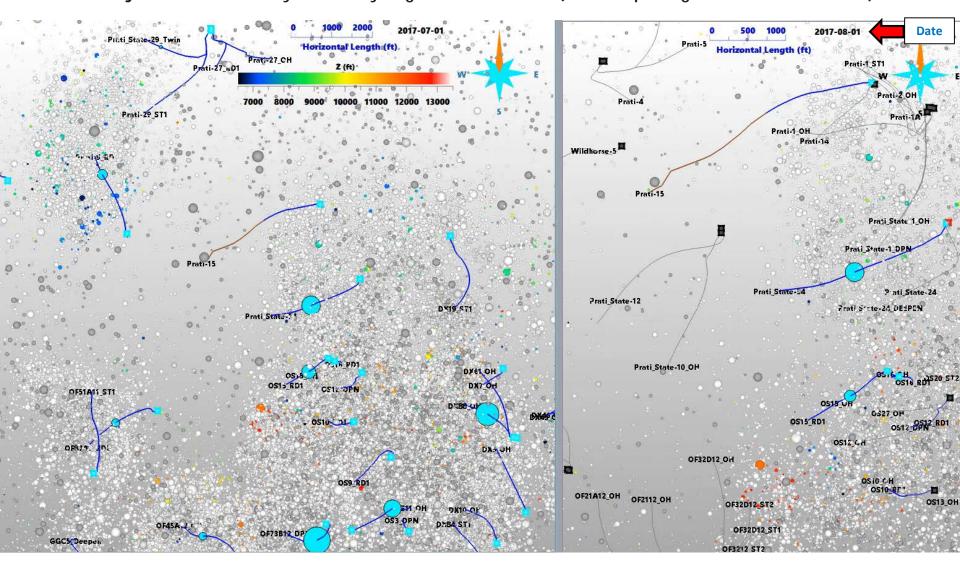
Detailed Water Injection Monitoring - Monthly Seismicity Animation October 2007 through May 2017 VIDEO Prati State-54 and DX-19 Water Injection Results Primarily In Seismicity Illumination to North and Northeast







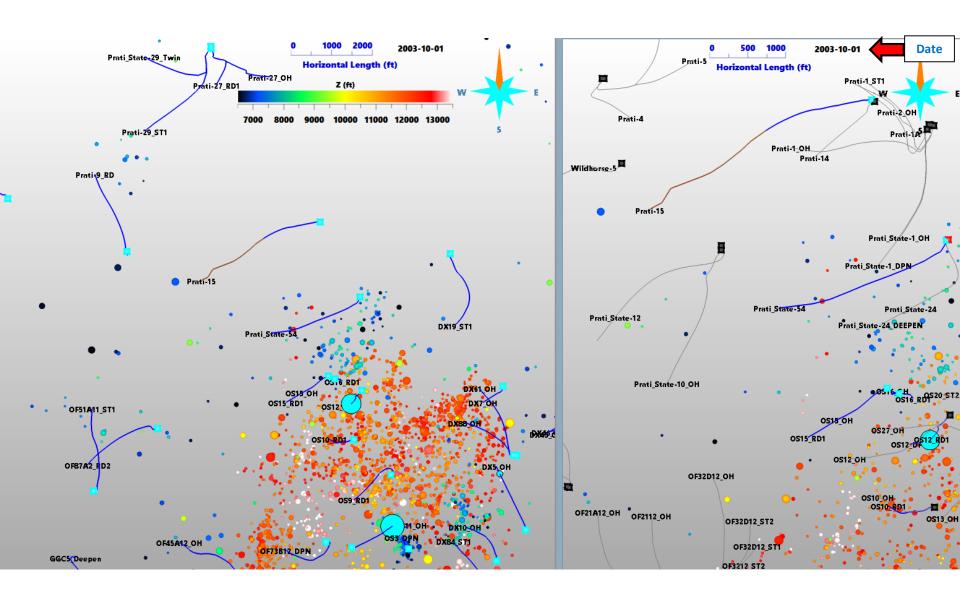
Detailed Water Injection Monitoring - Monthly Seismicity Animation May 2017 through April 2022 VIDEO OS-15 Water Injection Results Primarily In Seismicity Progression to Northwest (Toward Expanding Prati-15 Illumination Area)







Detailed Water Injection Monitoring - Color-Scaled Seismicity From January 2000 through October 2003

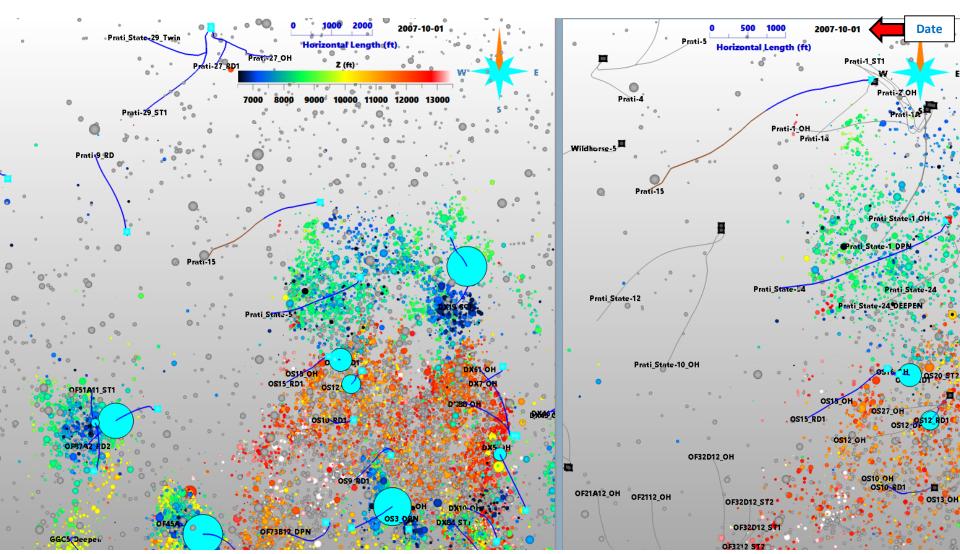






# Detailed Water Injection Monitoring - Color Scaled Seismicity From October 2003 through October 2007

Grey-Scaled Seismicity From January 2000 through October 2003

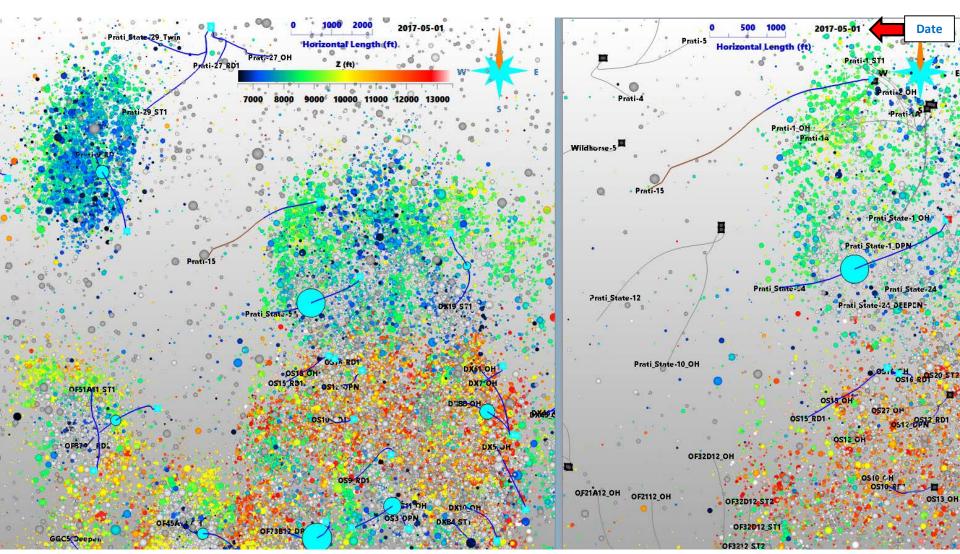






## Detailed Water Injection Monitoring - Color-Scaled Seismicity From October 2007 through May 2017

Grey-Scaled Seismicity From January 2000 through October 2007

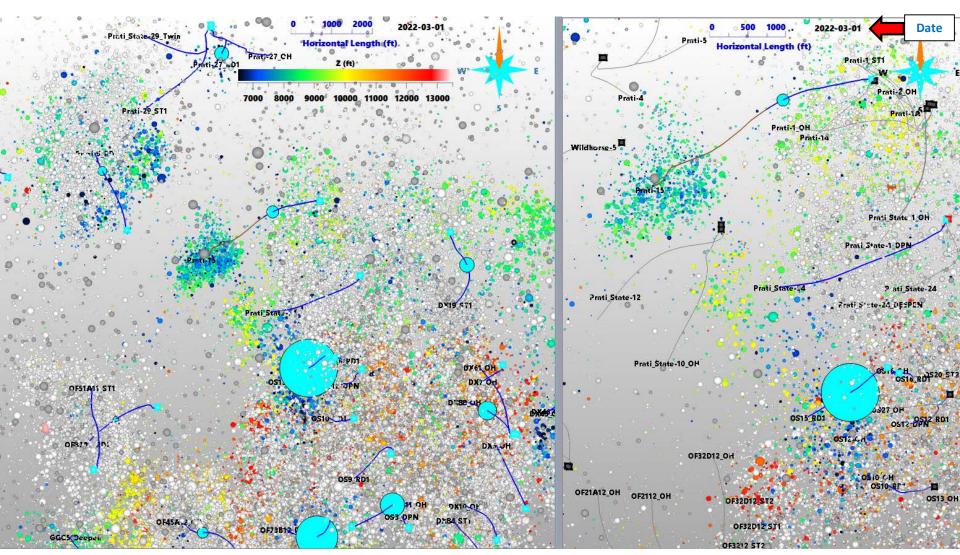






## Detailed Water Injection Monitoring - Color-Scaled Seismicity From May 2017 through April 2022

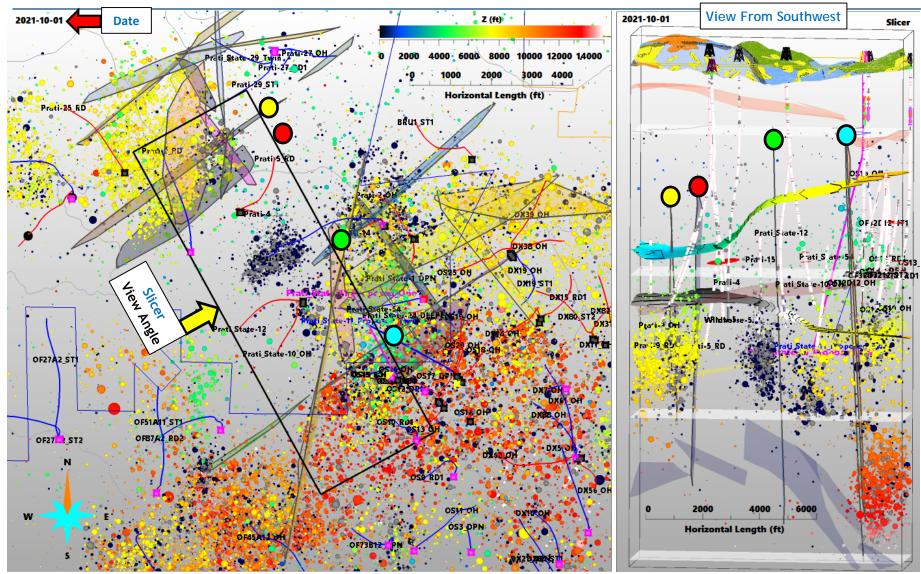
Grey-Scaled Seismicity From January 2000 through May 2017







Detailed Water Injection Monitoring - Induced Seismicity From January 2015 to October 2021 At Three-Month Interval Selected Faults to Emphasize Compartmentalization; Selected Horizons in Slicer View



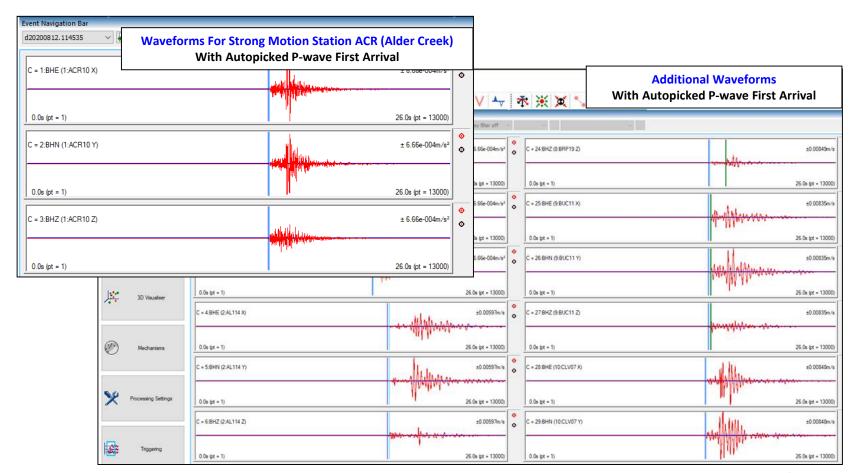




Seismic Data Analysis - Applied Seismology InSite-Geo Software Test Program

Seismic events exceeding threshold criteria were isolated from The Geysers continuous waveform data and processed with Applied Seismology InSite-Geo software. Waveforms for the East-West, North-South and Vertically oriented sensors are shown for a 12 August 2020 magnitude 3.9 seismic event processed on a Geysers Power Company, LLC workstation.

Larger seismic events typically have usable waveforms (with signal well above the noise floor) for the majority of the 38 three-component LBNL / Calpine seismic stations.







Seismic Data Analysis - Applied Seismology InSite-Geo Software Early 2022 Purchase

Geysers Power Company, LLC tested and has PURCHASED this well-developed software to assist with detailed seismicity analysis at The Geysers. License key and software available May 2022.

# InSite Seismic Processor



- Itasca's seismic software integrating data management, processing, analysis and interpretation
- Developed over the past 20 years incorporating tools from internal R&D and collaboration projects with clients and partners
- Used at all scales of seismic and acoustic monitoring, from laboratory rock deformation tests to processing of local and regional seismicity
- Latest version 3.16.1 released March 2020

