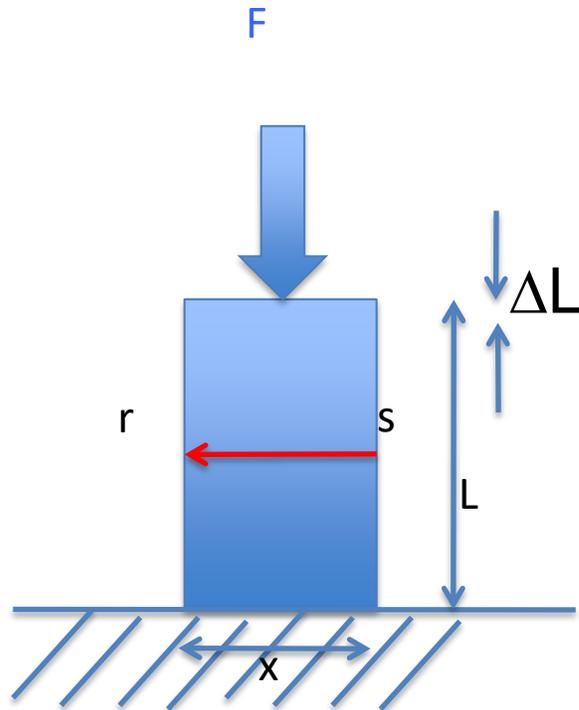


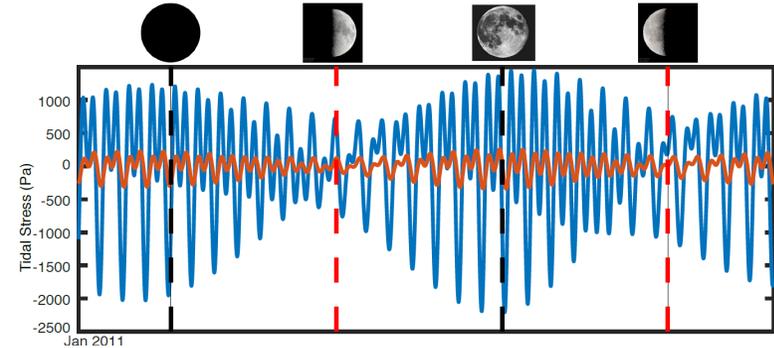
# Velocity as a Function of Strain

## Pump – Probe in the Laboratory

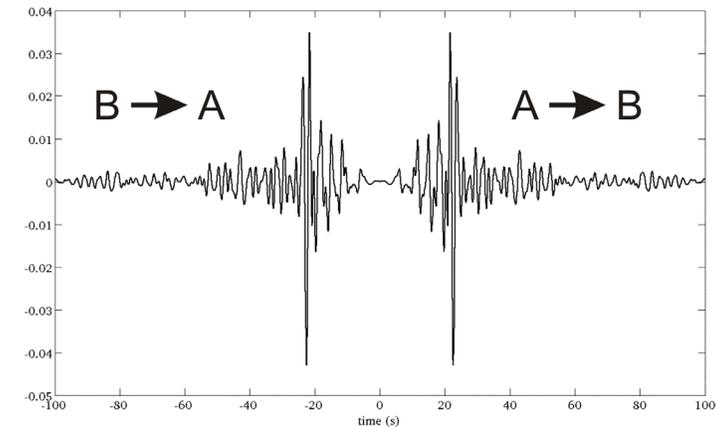


## Pump – Probe in the Earth

Pump

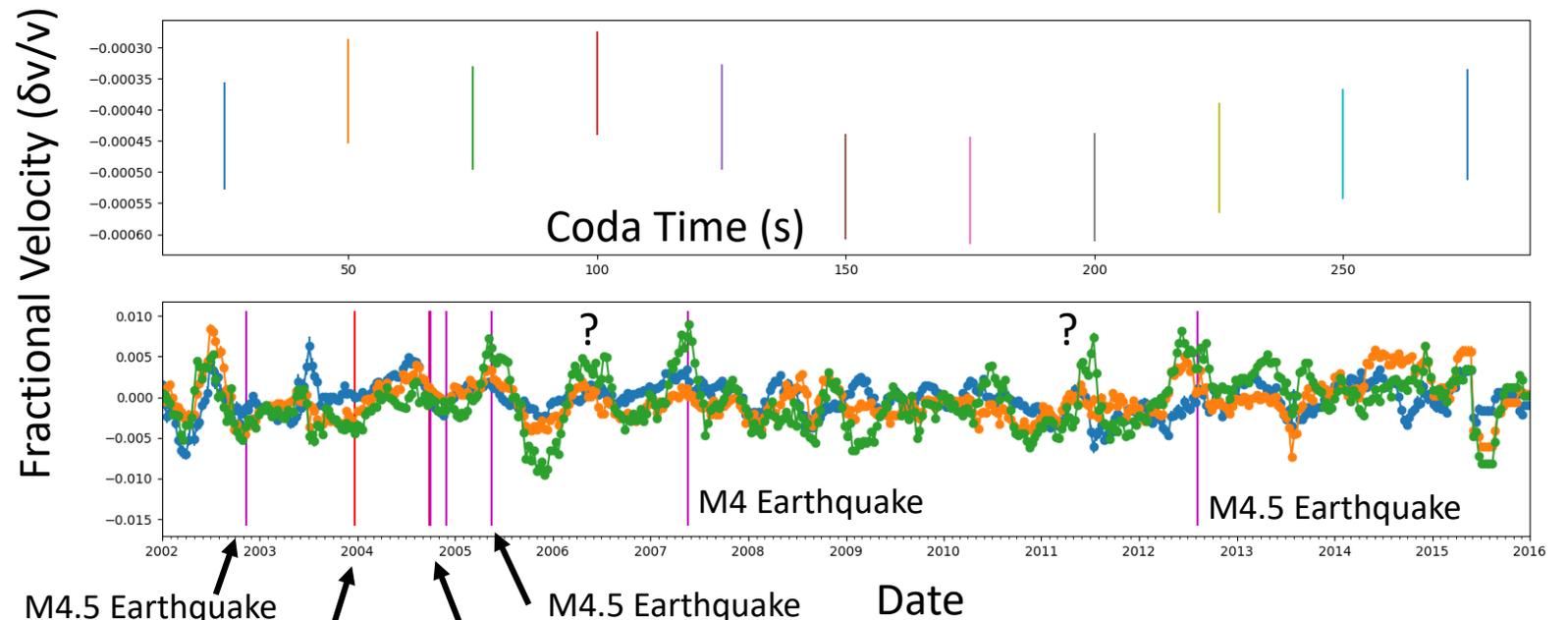


Probe



# Fault in Extension / Fault in Compression

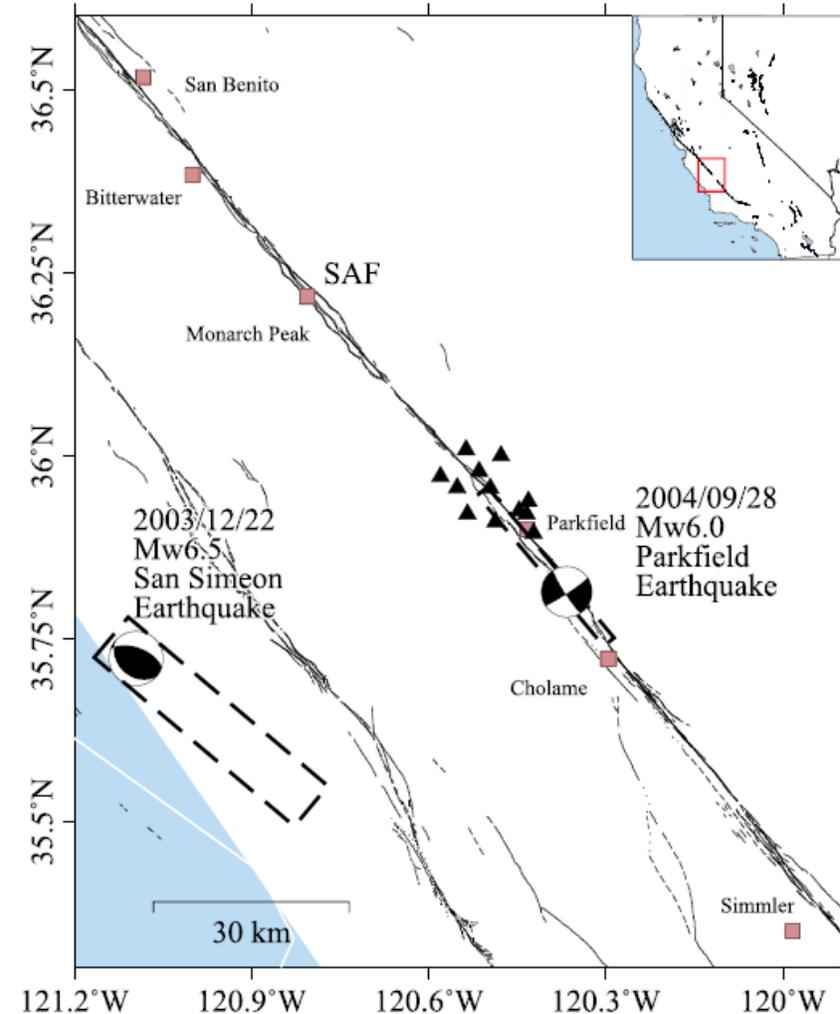
Full Time Series 0.07% Velocity Reduction During Extension



M4.5 Earthquake      M4.5 Earthquake      Date  
M6.6 San Simeon Earthquake  
(Not on San Andreas Fault)      M6 Parkfield Earthquake

Precursory Changes  
In Elasticity

Blue = 3s Period  
Orange = 5s Period  
Green = 7s Period



Wu et., al 2016