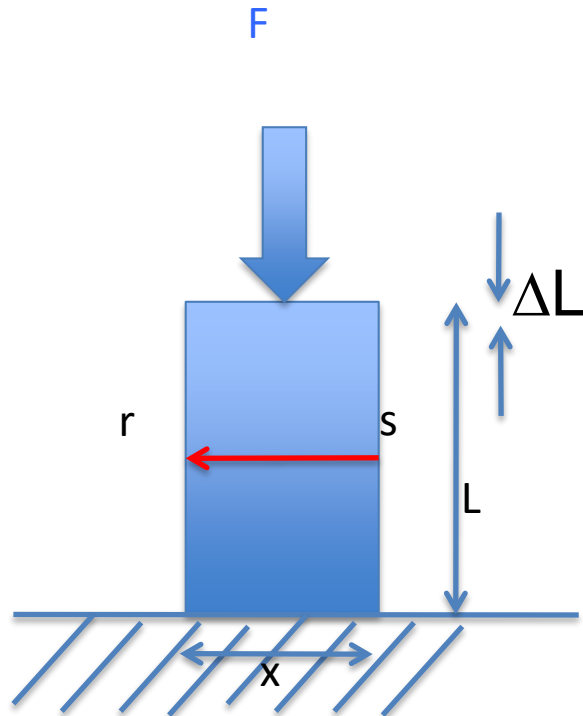


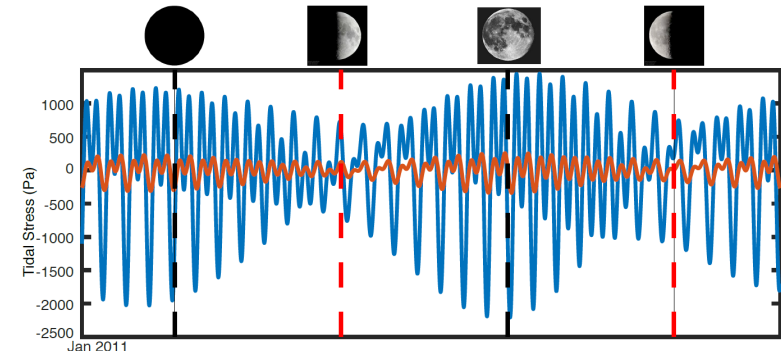
Velocity as a Function of Strain

Pump – Probe in the Laboratory

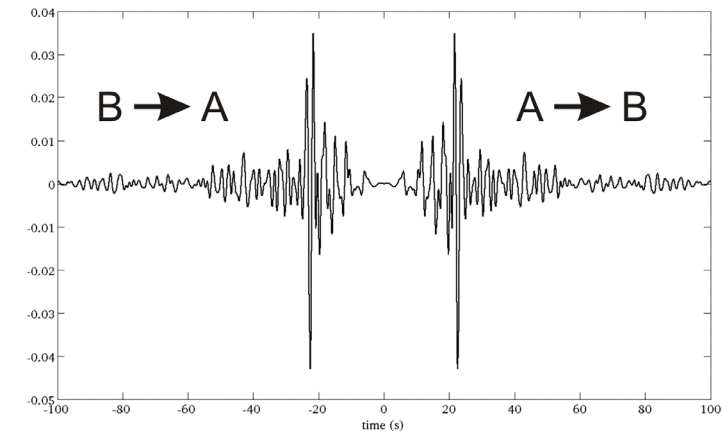


Pump – Probe in the Earth

Pump



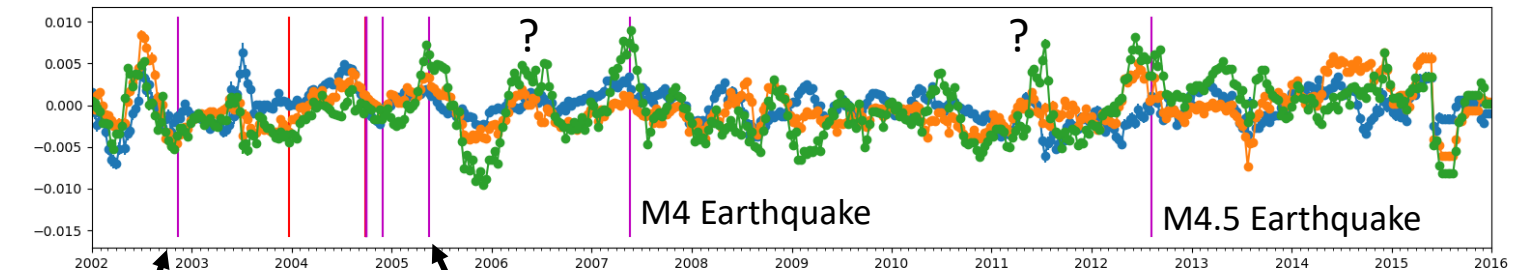
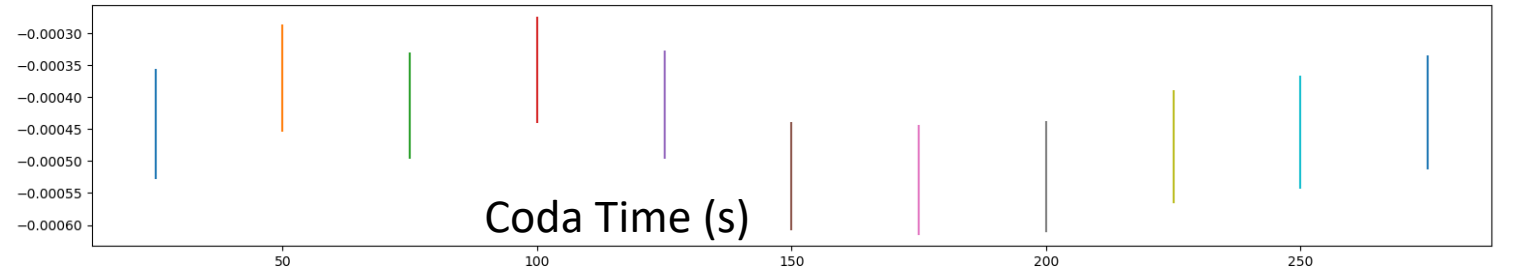
Probe



Fault in Extension / Fault in Compression

Full Time Series 0.07% Velocity Reduction During Extension

Fractional Velocity ($\delta v/v$)



M4.5 Earthquake

M6.6 San Simeon Earthquake
 (Not on San Andreas Fault)

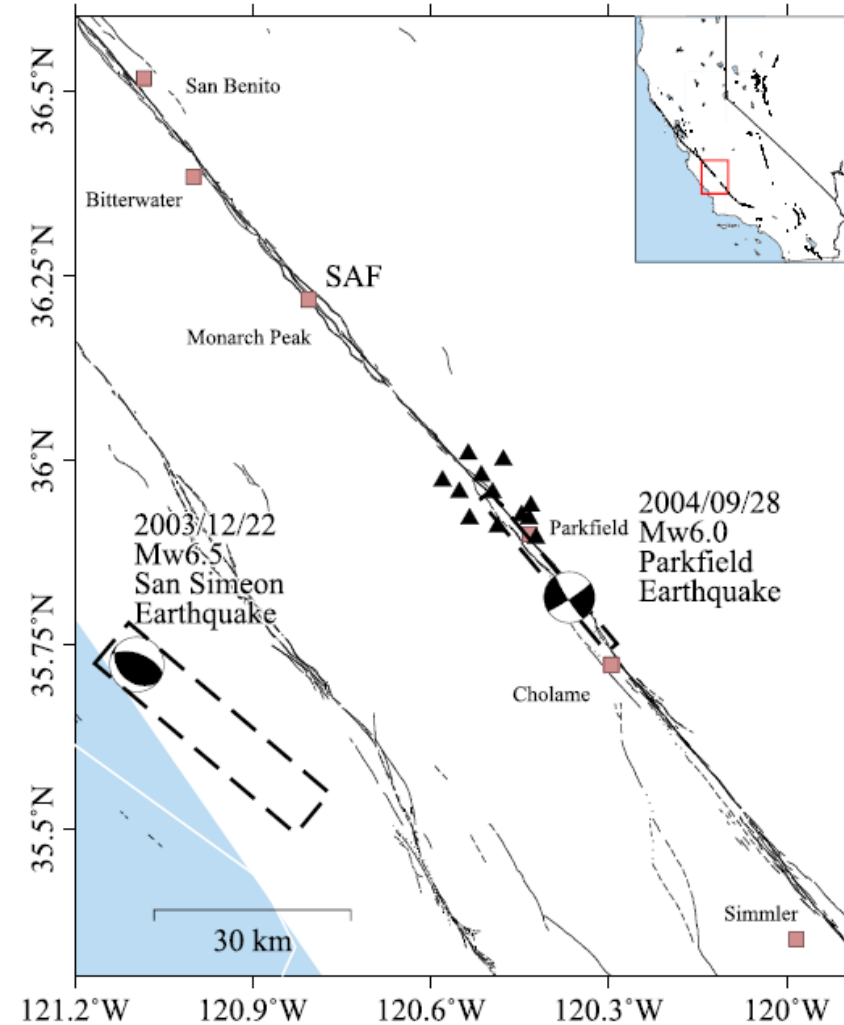
M4.5 Earthquake

M6 Parkfield Earthquake

Precursory Changes
 In Elasticity

M4.5 Earthquake

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



Wu et., al 2016