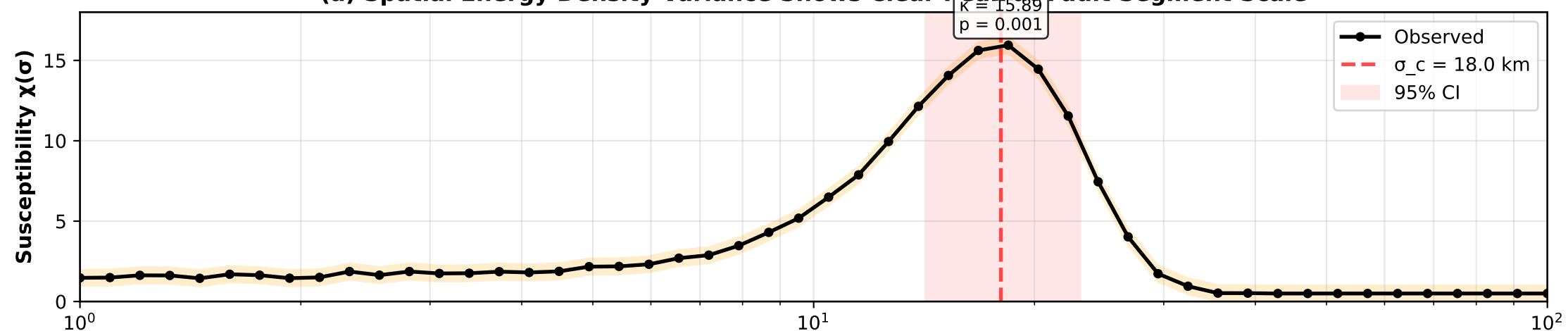
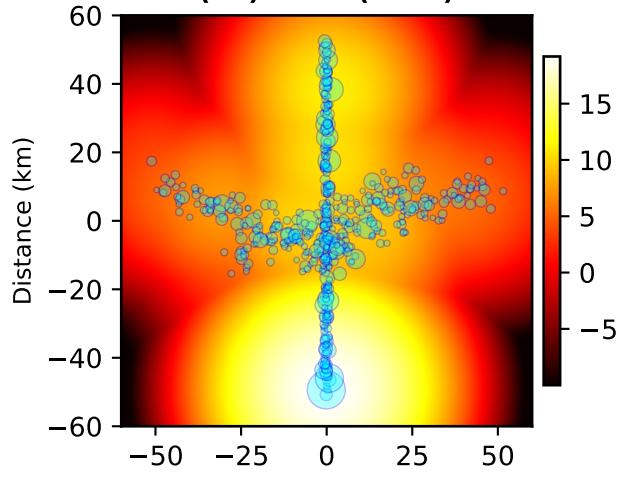


Seismic Susceptibility Analysis: California-Nevada Region (2010-2024)

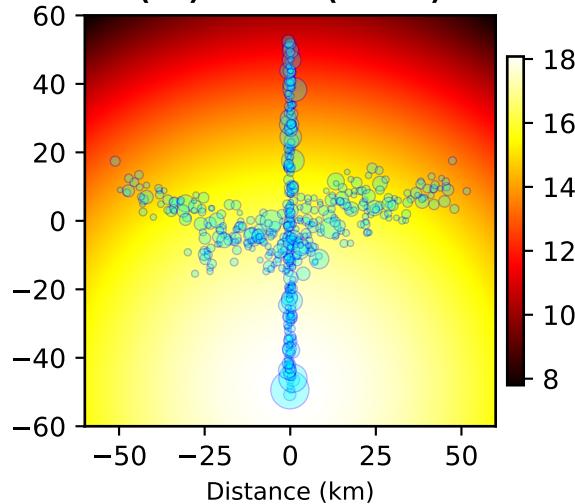
(a) Spatial Energy Density Variance Shows Clear Peak at Fault Segment Scale



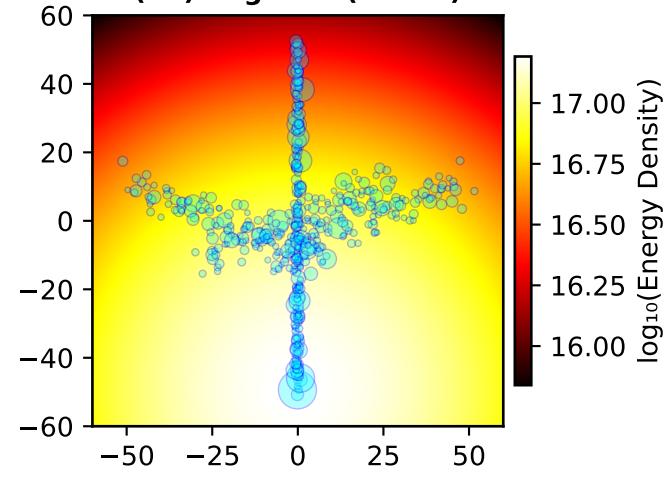
(b1) Local (5 km)



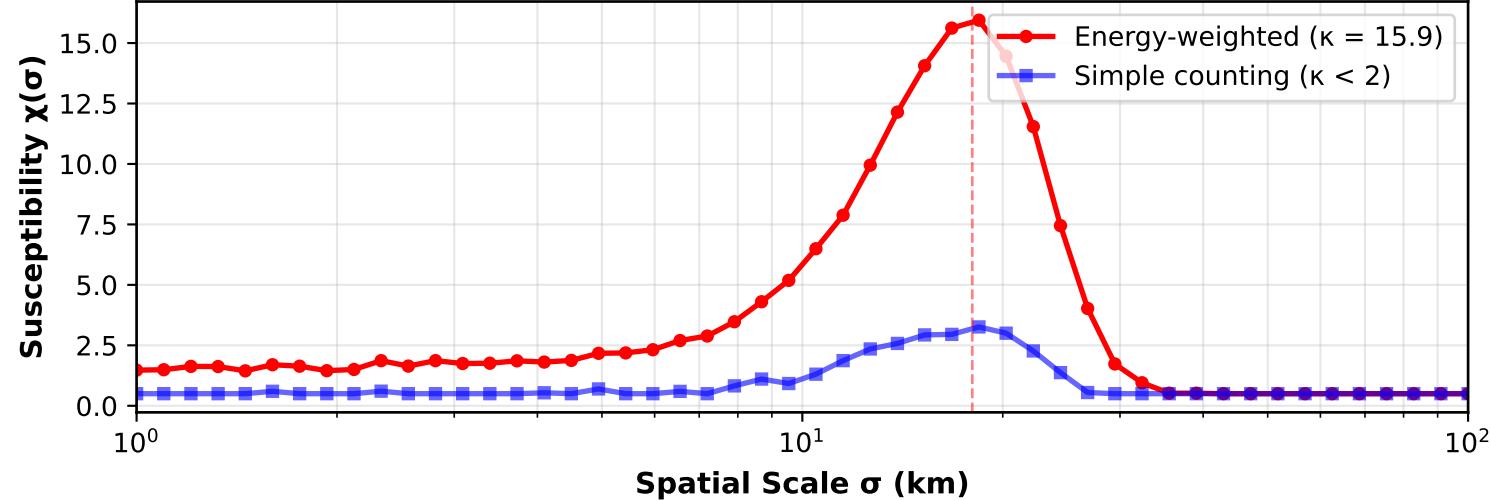
Spatial Smoothing Scale σ (km)
(b2) Critical (18 km)



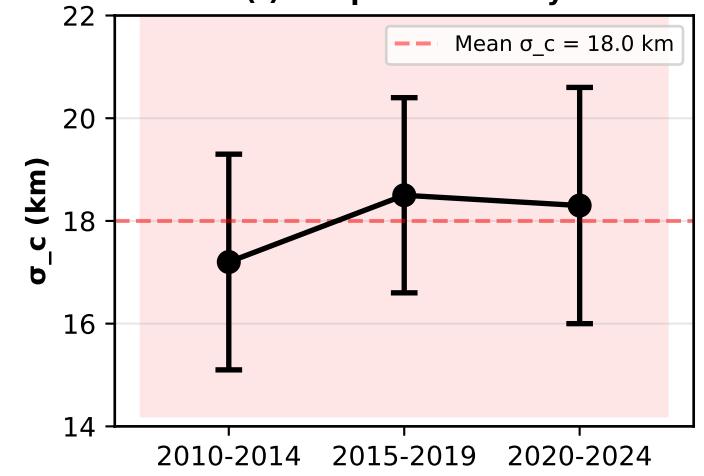
(b3) Regional (50 km)



(e) Energy Weighting Critical for Peak Detection



(f) Temporal Stability



126,046 earthquakes ($M \geq 2.0$) reveal characteristic fault segment scale at 18 km