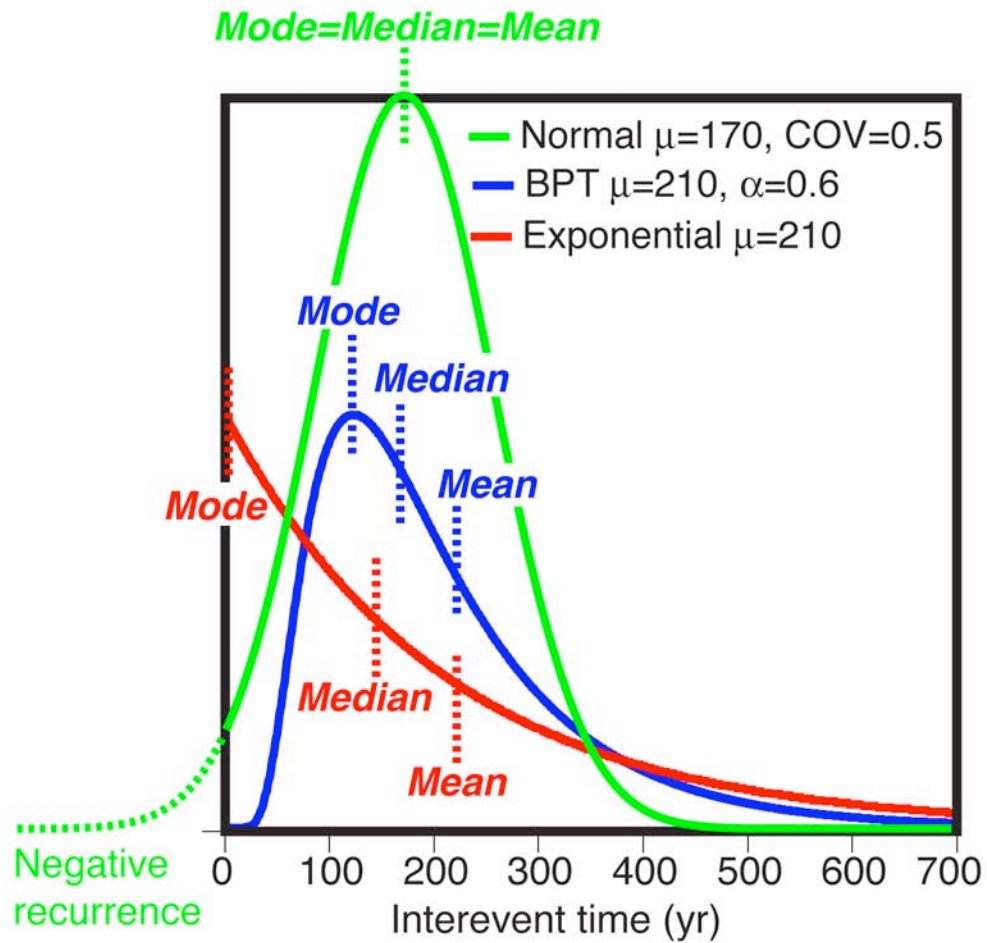
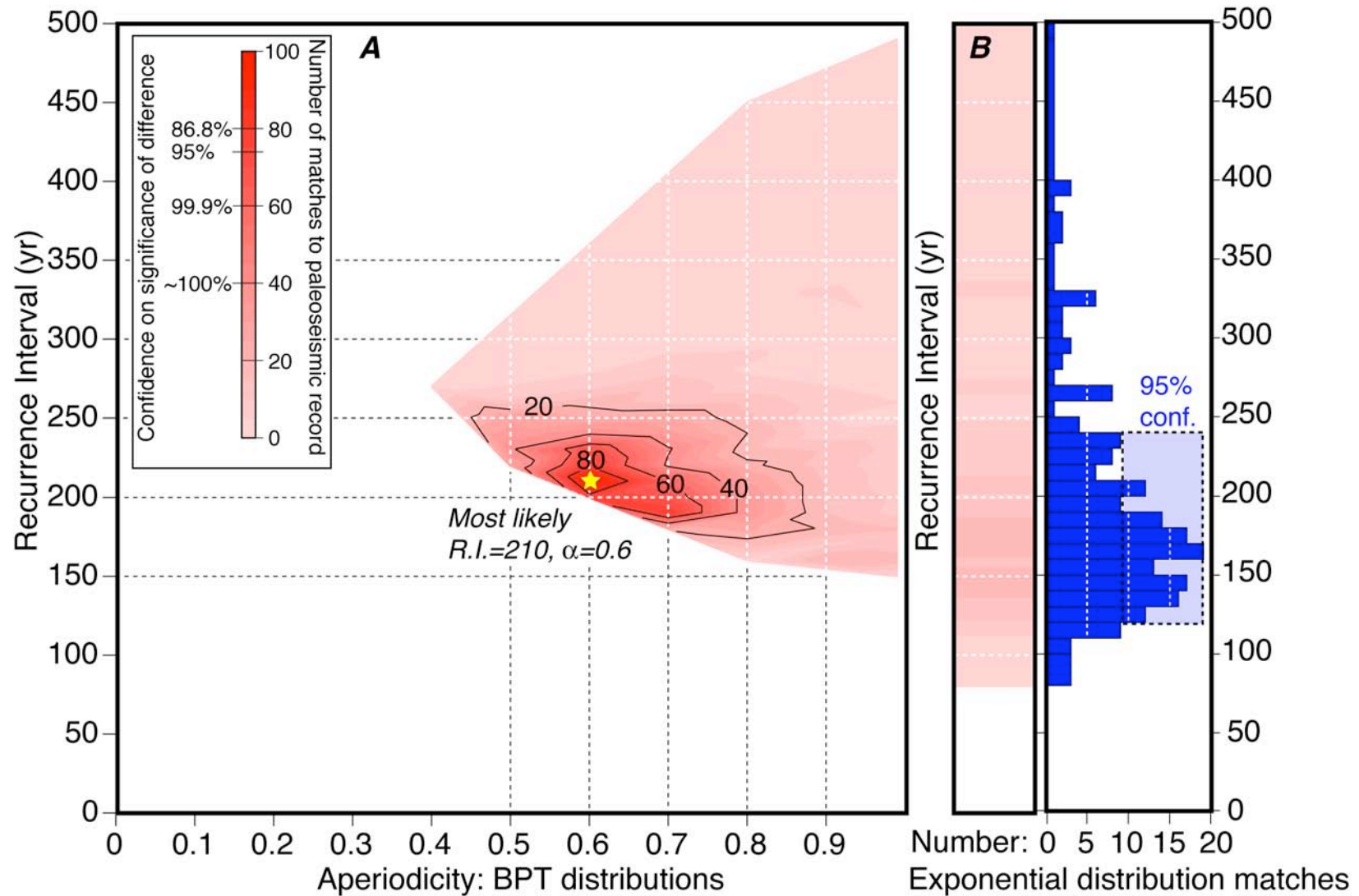


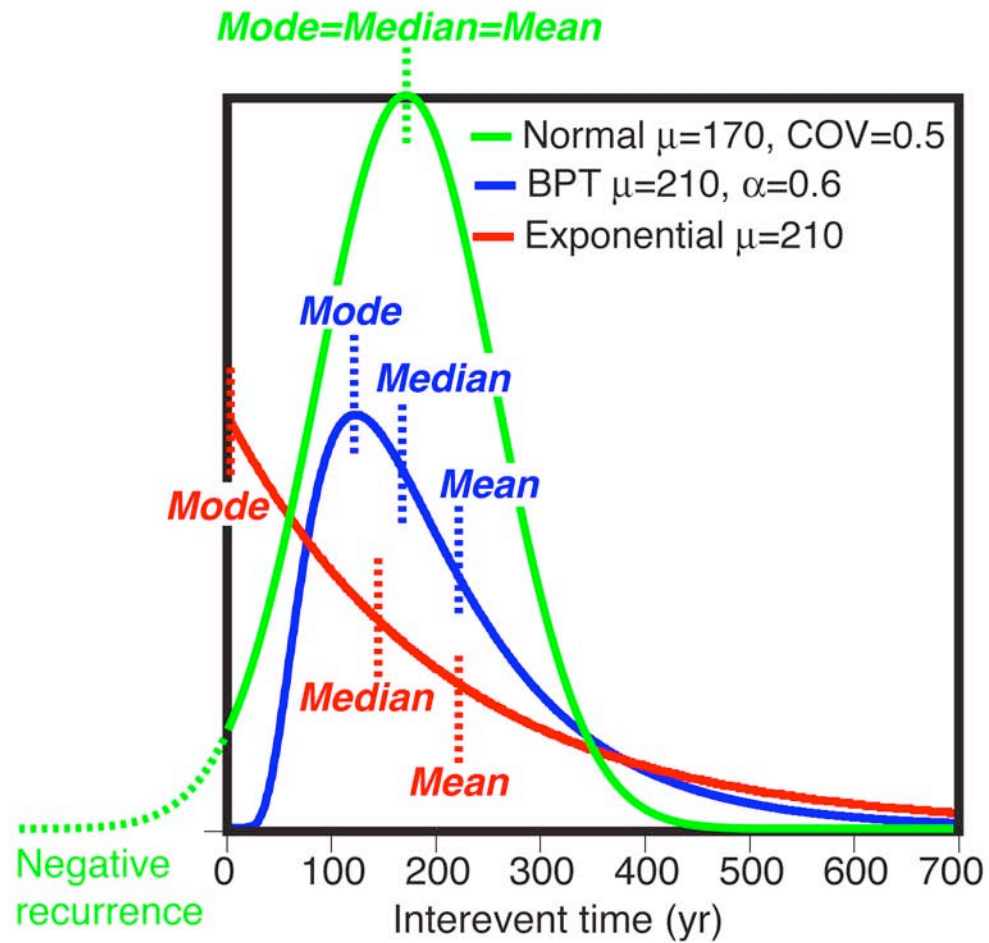
Earthquake recurrence distribution characteristics



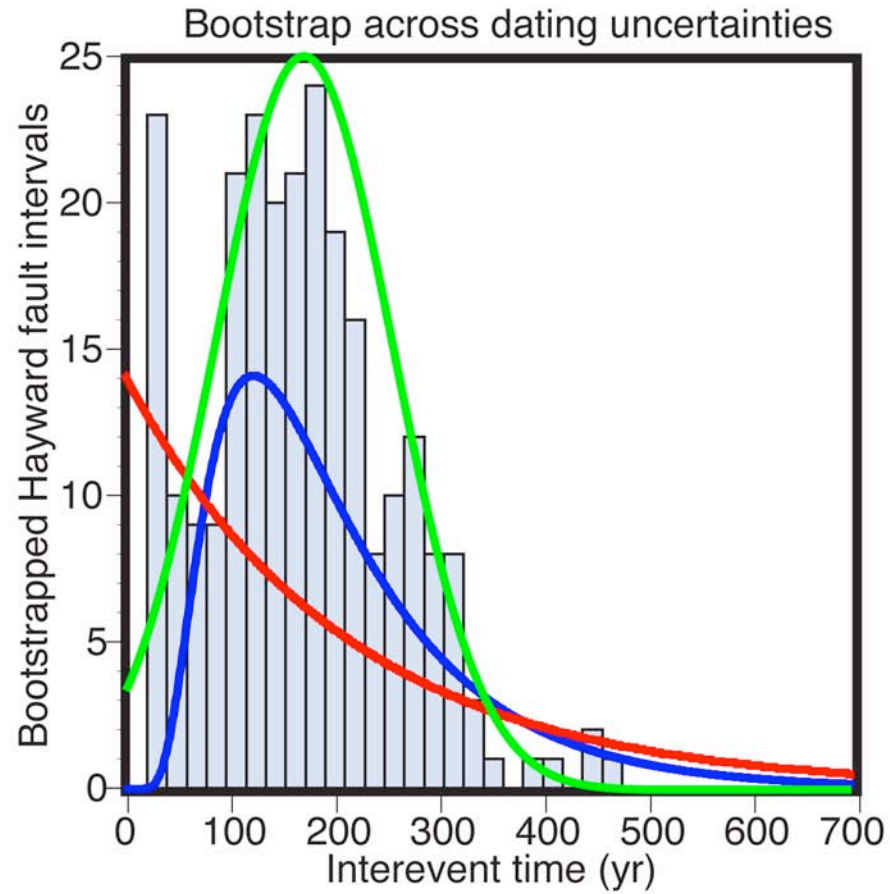
Earthquake recurrence on the south Hayward fault is most consistent with a time dependent, renewal process



Earthquake recurrence distribution characteristics

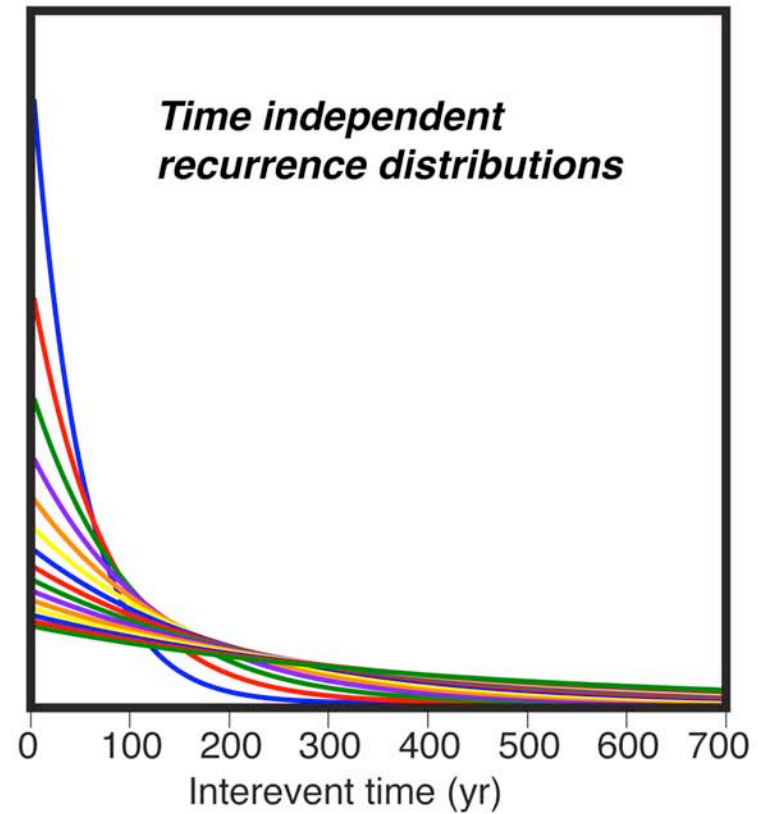
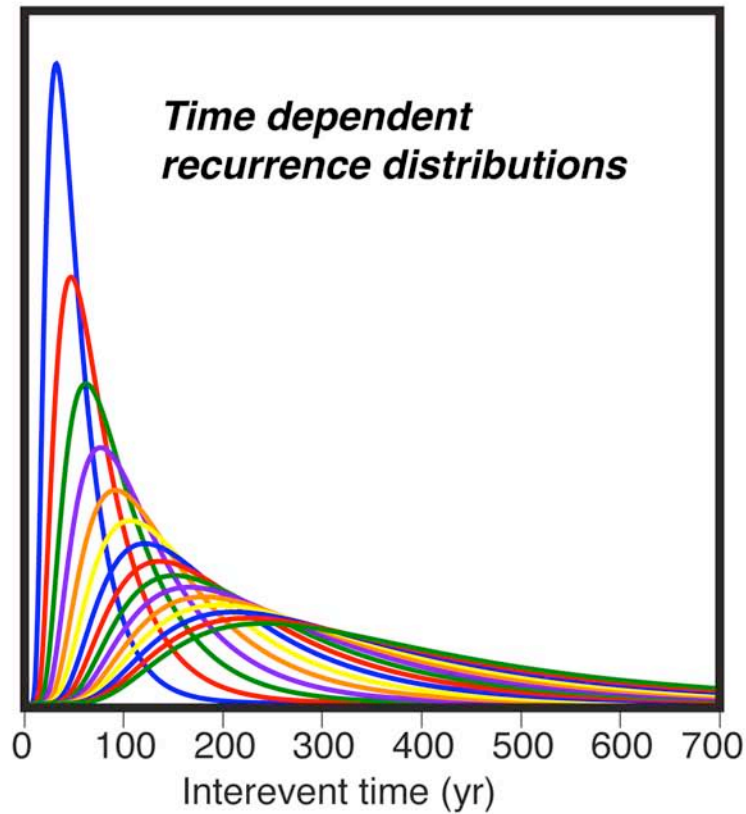


Earthquake recurrence distribution characteristics

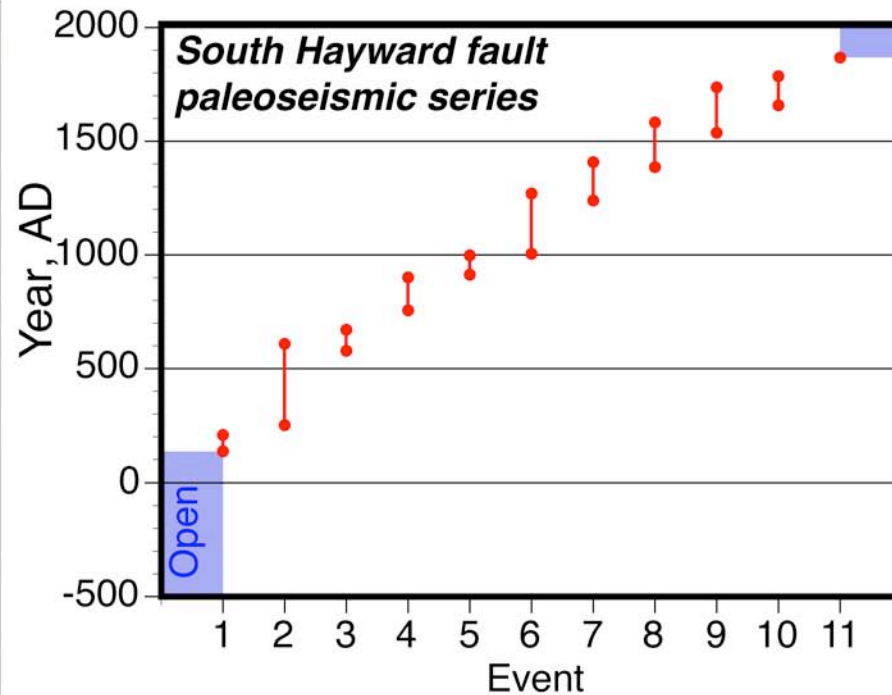
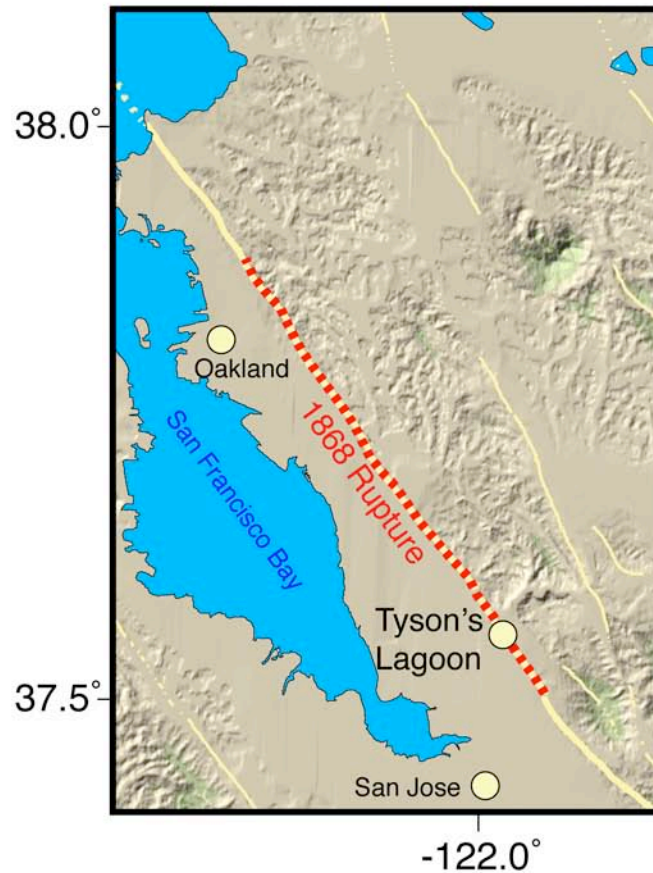


Monte Carlo method samples all parts of all recurrence distributions

We don't care so much about mean, mode etc because distribution characteristics are predefined

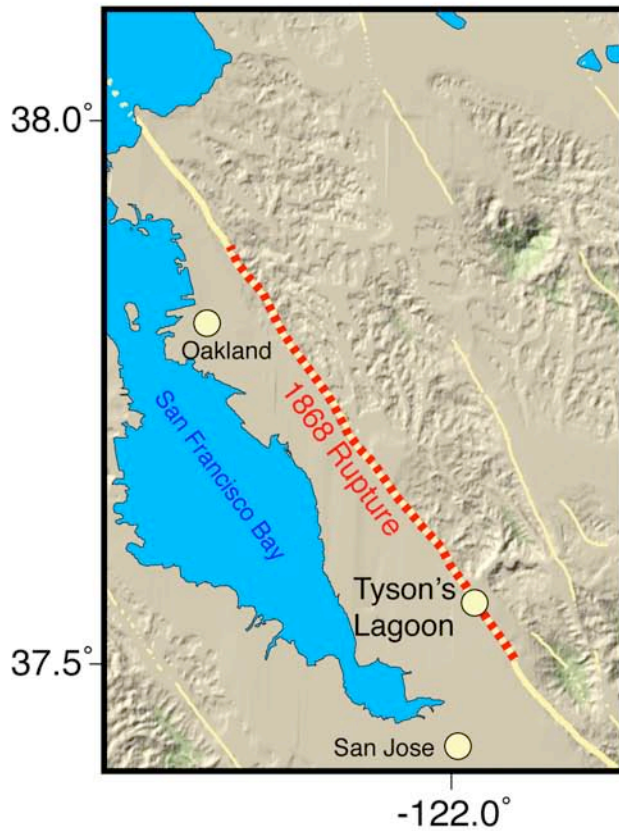


Earthquake recurrence on the south Hayward fault is most consistent with a time dependent, renewal process



Earthquake sequence on the south Hayward fault from Lienkaemper and Williams [2007]

Earthquake recurrence on the south Hayward fault is most consistent with a time dependent, renewal process



South Hayward fault has:

Mean recurrence interval $\mu \sim 210$ years

Coefficient of variation $\alpha \sim 0.6$

Large earthquake probability $\sim 20\%$

