

Given the information of earthquake sizes and location, compute the seismic hazard curves [i.e., $\lambda(PGA > x)$ versus x curves] for individual sources and total hazard. The GMPE of Cornell et al. (1979) is used to compute the predicted ground motion. The minimum moment magnitude for both earthquake sources is 4.0. Identify

- 1) The mean annual rate of exceedance of PGA,
- 2) The PGAs that will be exceeded at 2% and 10% in 50 years, respectively?
- 3) Deaggregation for $PGA > 0.2g$ using mean annual rate.

