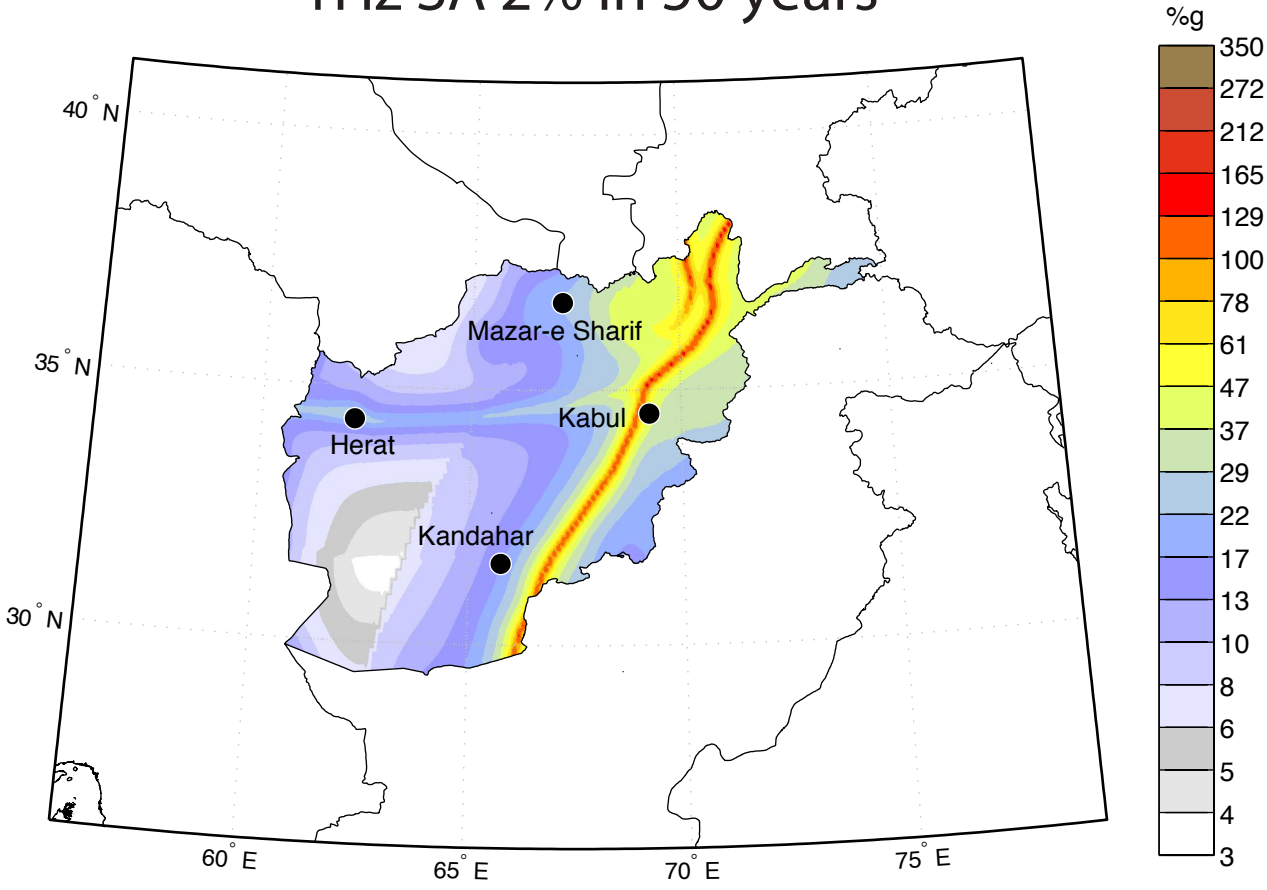1Hz SA 2% in 50 years