For the deaggregation, we sort the scenarios with ground motions above the 0.07g and 0.98g into the magnitude and distances bins. We then, sum up the total rate within each bin and normalize by the total hazard. This gives the deaggregation which is the fractional contribution to the hazard from a each bin.

The deaggreagtion is shown below:

Deagg for 2500 years (bottom) and 100 years (top)

5.

6.
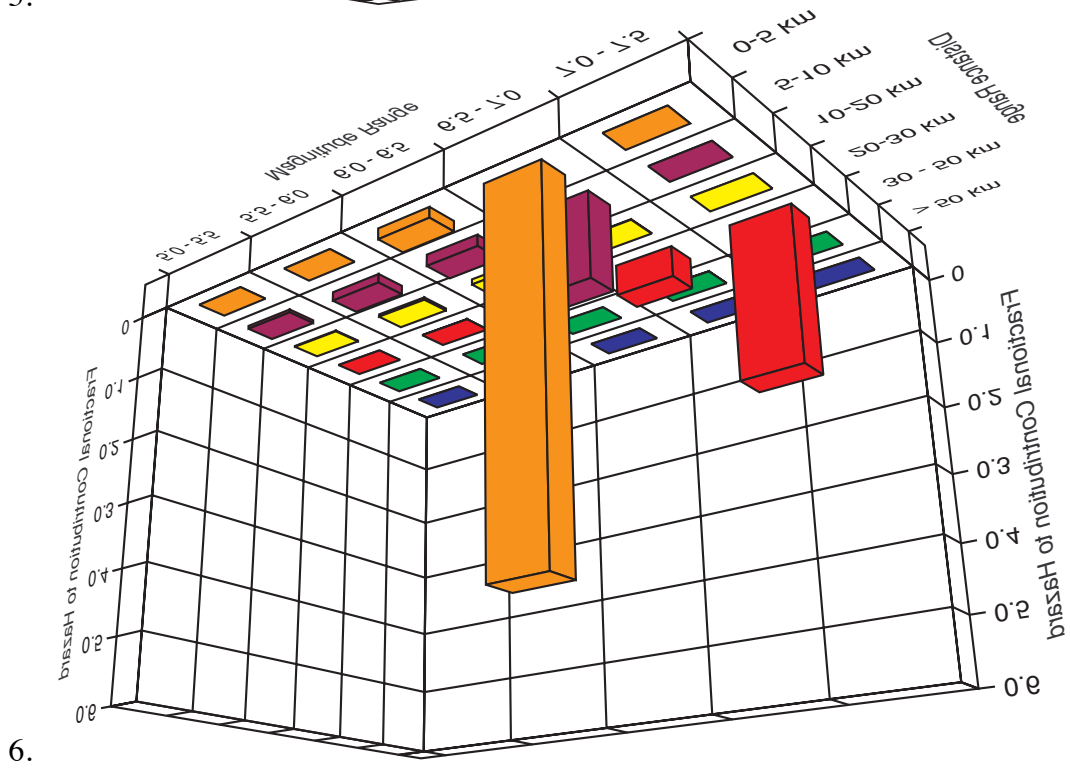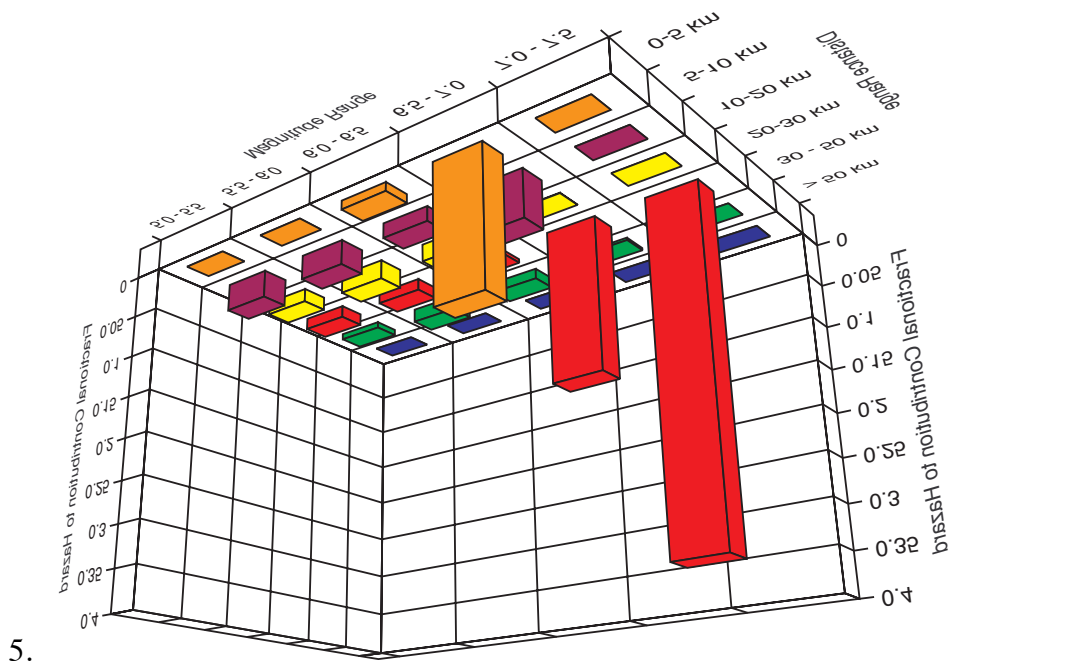
5. Deterministic approach..

The deterministic events for the faults are as follows:

Fault 1: M=7.1, R=20 km, strike-slip
Fault 2: M=6.5, R=5 km, Strike-slip

The median and 84th percentile ground motions are shown for these two faultas are listed bellows:

Fault		Sa	Return period
1	Median	0.241	180
1	84[th percentile]	0.431	465
2	Median	0.352	320
2	84th percentile	0.654	1330