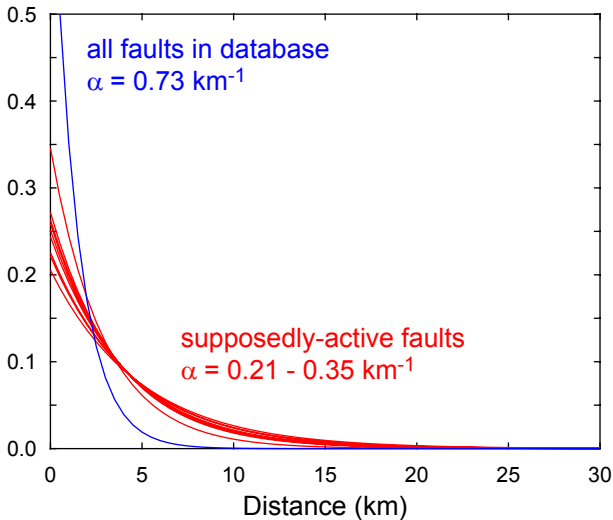


Online Resource 1

Probability density functions fitted over the distribution of distances from earthquakes to nearest faults. The ten curves correspond to the ten earthquake selections listed in Table 2. The colours correspond to the fault selection: red are datasets related to supposedly-active faults, blue is considering all faults. The parameter α characteristic of the two fault selections are distinct, for exact values we refer to Table 2.

PDF for the 10 cases in Table 2



Online Resource 2

Temporal evolution of earthquake location uncertainties in the ECOS-09 catalogue (Fäh et al. 2011). The overall counts per class since 250 AD are listed in the table below (nan: not a number). The yearly number of earthquakes in the predefined uncertainty classes is represented with colours on the figure below. Note the clear improvement of location qualities from the beginning of the instrumental era in 1975, and further improvement with the start of the fully digital records in 2002 (magenta lines).

class	≤5 km	≤10 km	≤20 km	≤50 km	≤100 km	>100 km	nan
east-west	6791	4440	3758	879	295	15	3097
north-south	6565	4595	3816	887	300	15	3097
class	<5 km	5-10 km	>10 km			no data	nan
vertical	1737	3528	4865			7759	1386

Count of location uncertainty in the ECOS-09 catalogue with time

