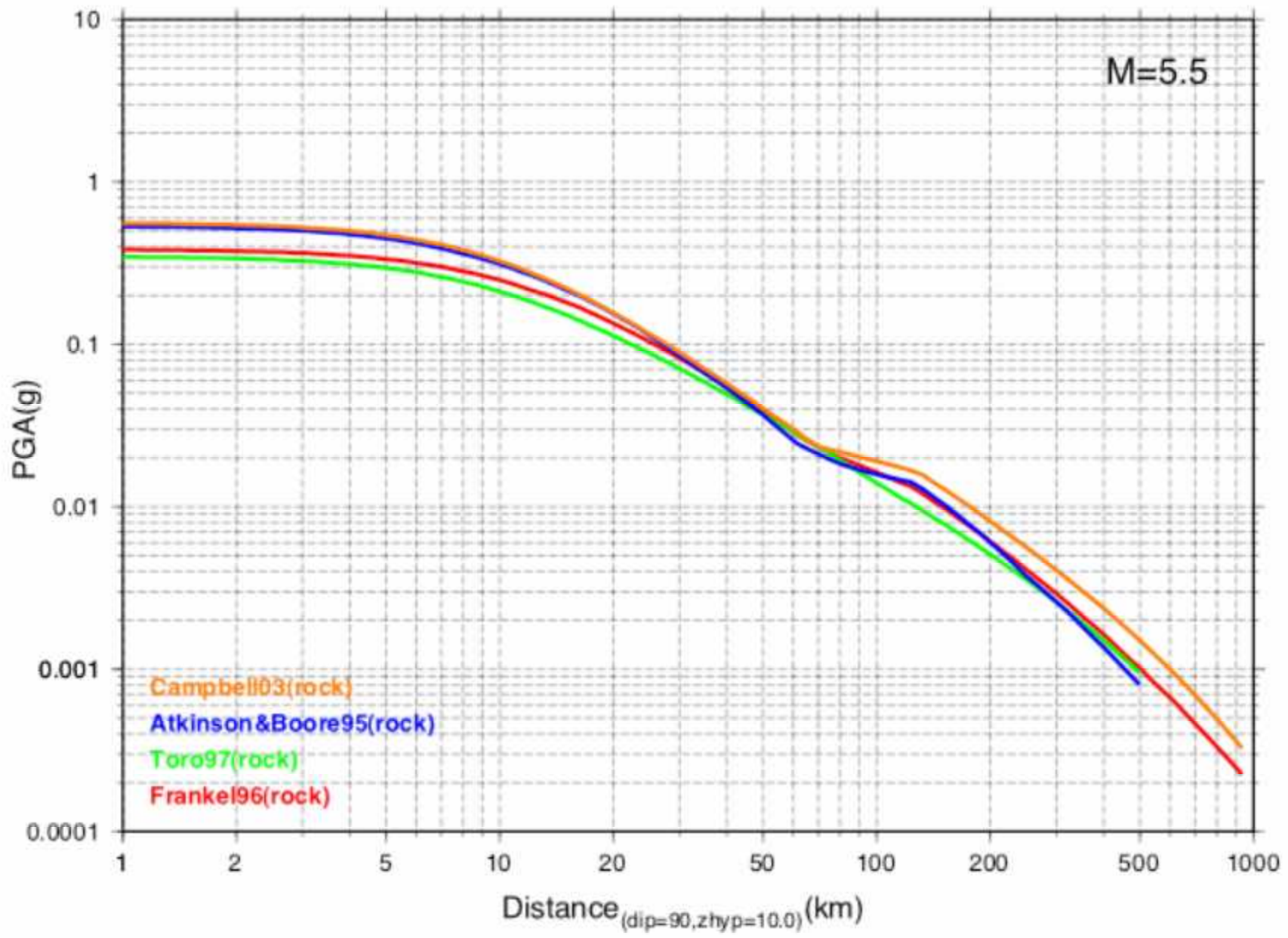
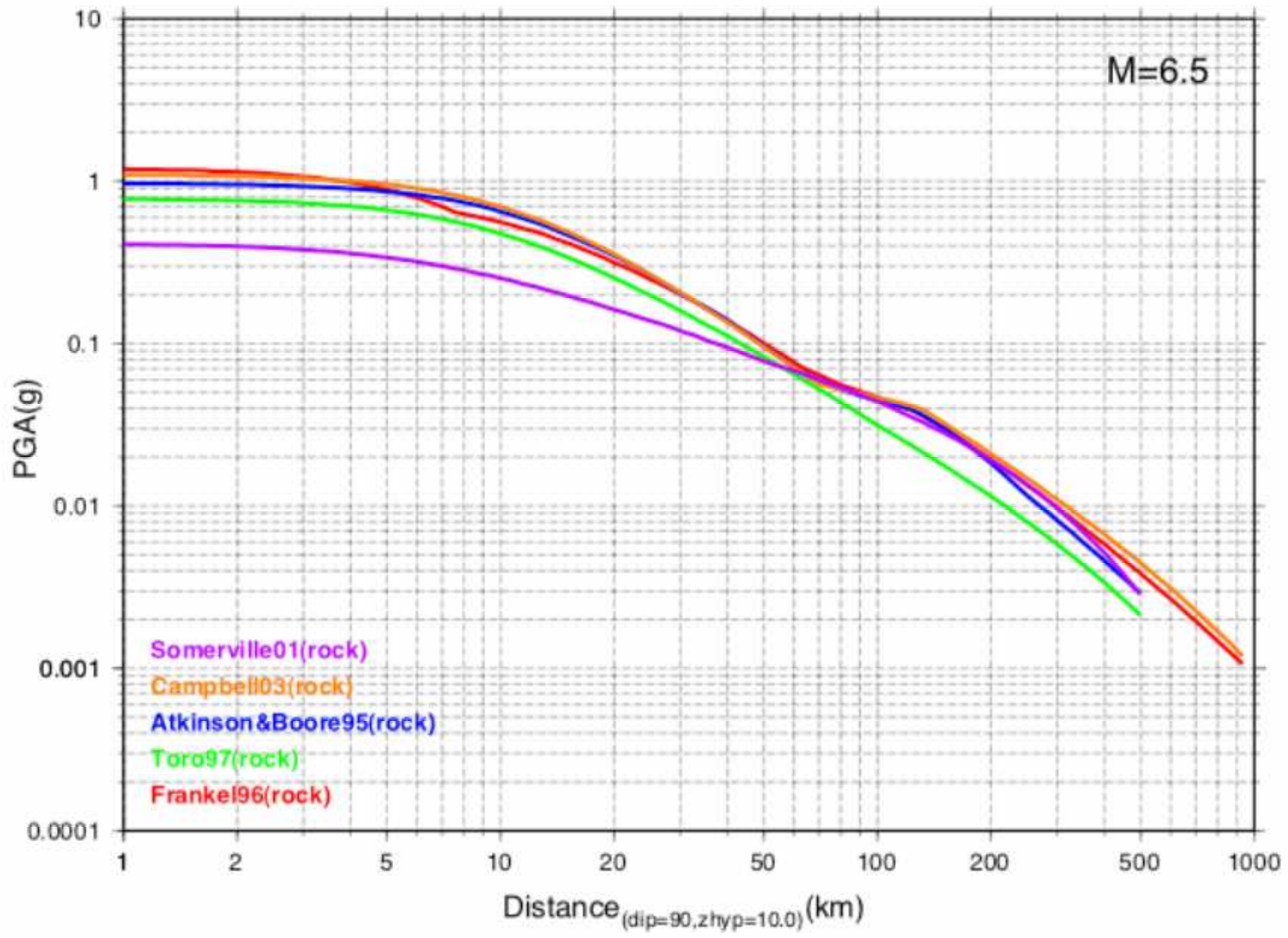
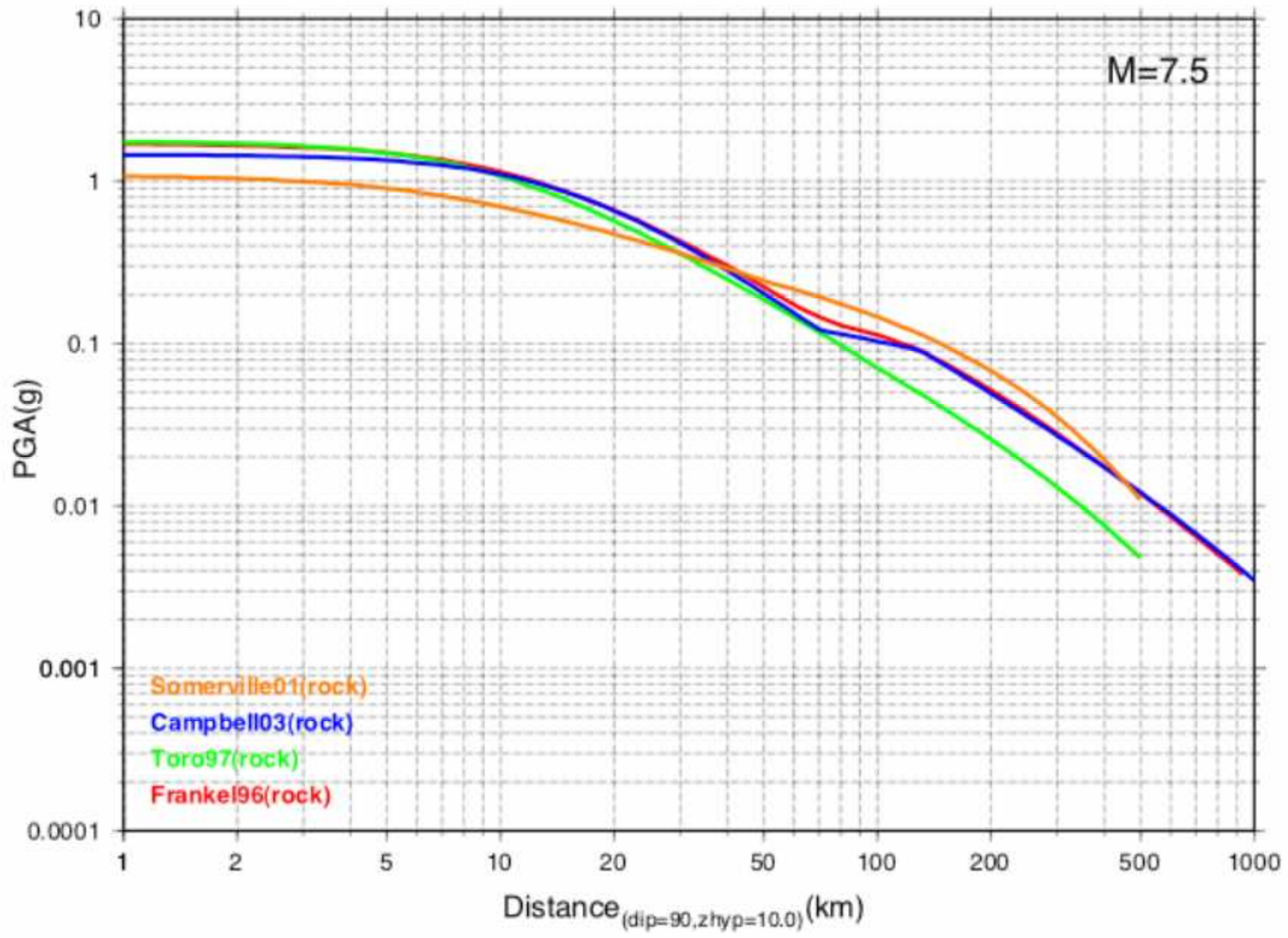


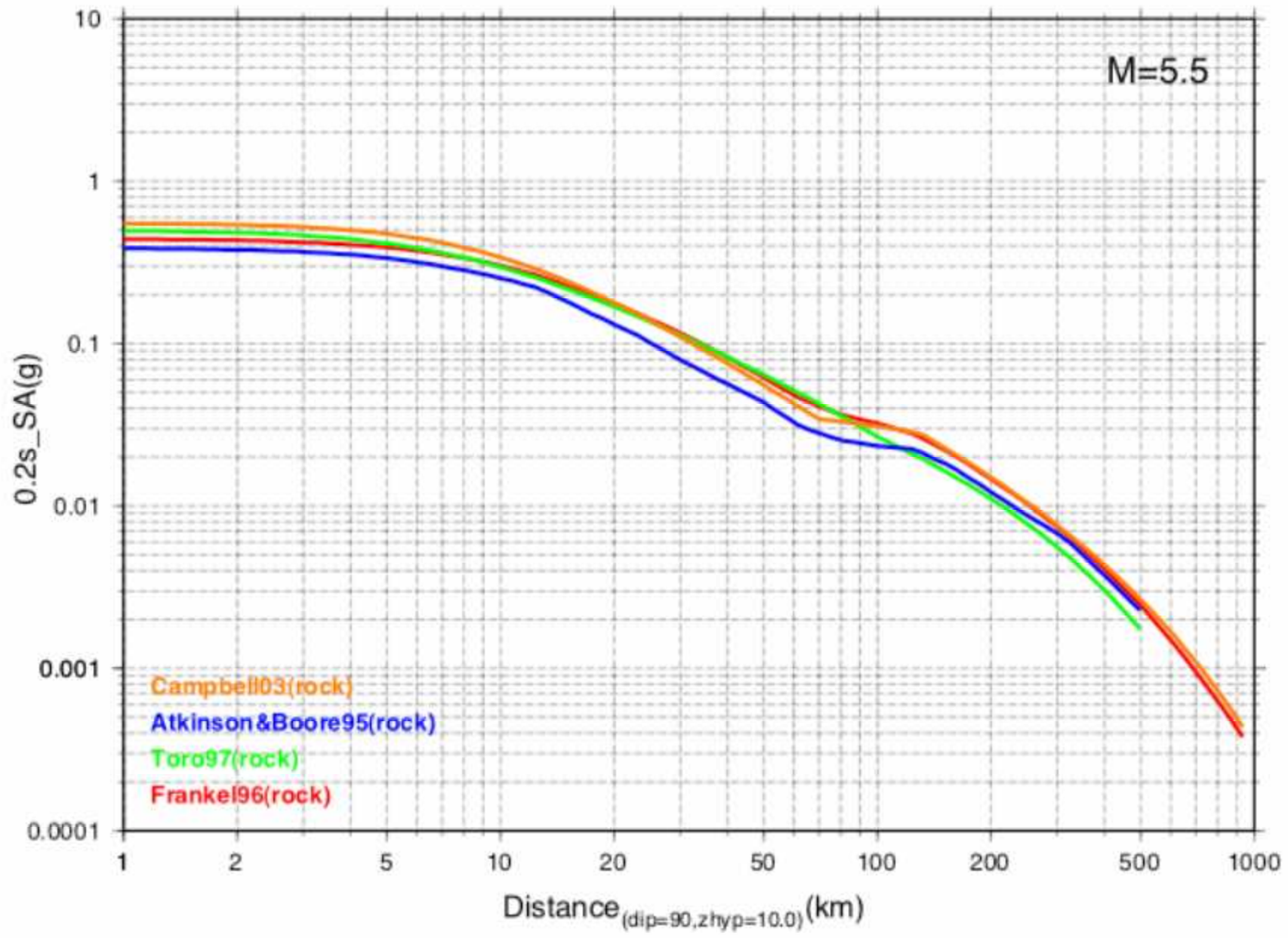
## 2002 CEUS Attenuation Relations

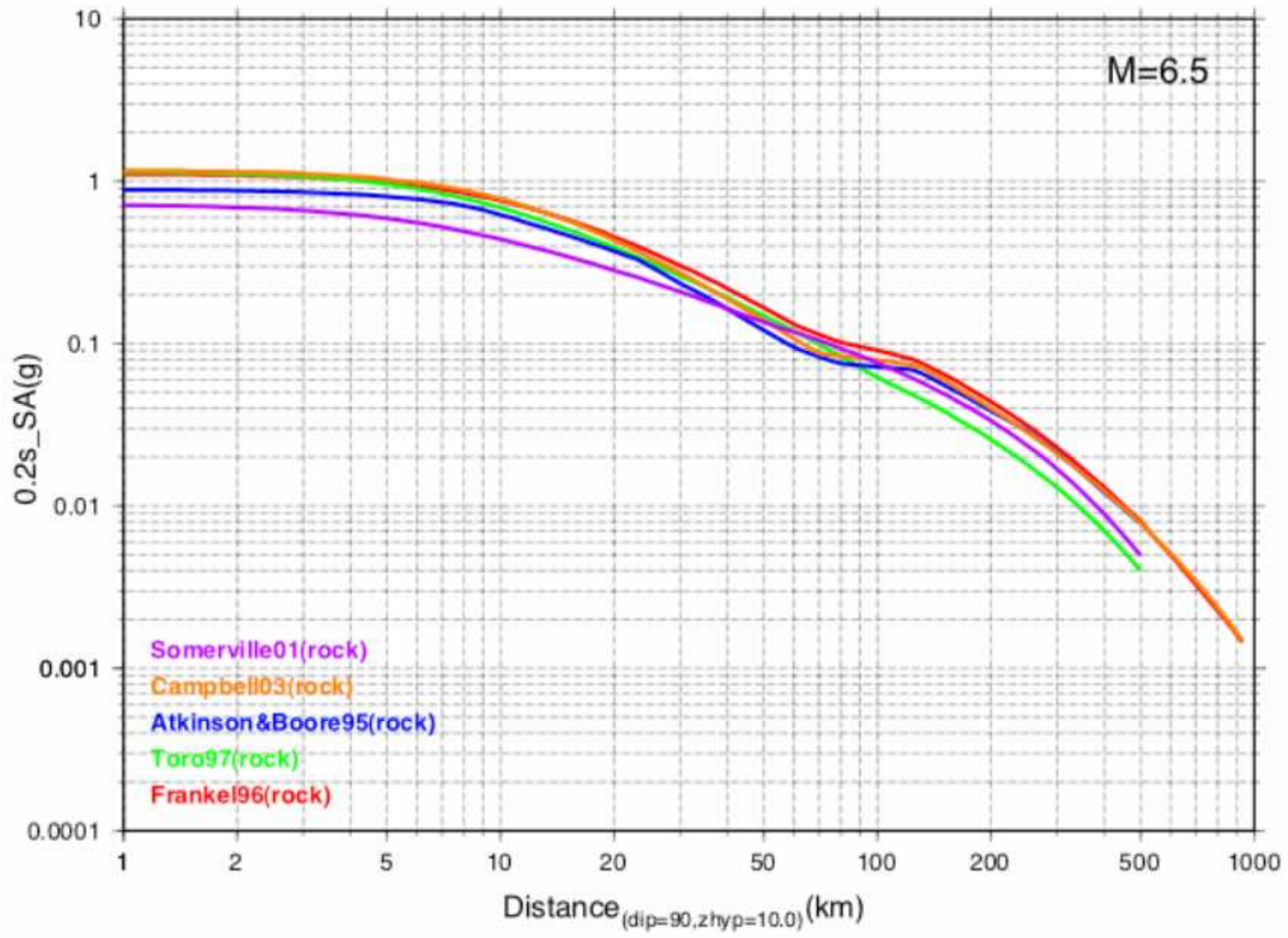
	<b>Toro 1993,1997</b>	<b>Frankel 1996</b>	<b>Atkinson &amp; Boore 1995,1997</b>	<b>Somerville 2001</b>	<b>Campbell 2003</b>
Method	stochastic, point source, $\omega^2$	stochastic, point source, $\omega^2$	stochastic, point source, double $\omega^2$	finite fault w/ green's functions	hybrid empirical w/ wna host & ena/wna adj
Range	$5.0 < m < 8.0$ $r < 500$ km	$4.4 < m < 8.2$ $r < 1000$ km	$4.0 < m < 7.25$ $r < 500$ km	$6.0 < m < 7.5$ $r < 500$ km	$5.0 < m < 8.2$ $r < 1000$ km
Weight for Gridded Seismicity	0.286	0.286	0.286	not used	0.143
Weight for Charleston & New Madrid	0.25	0.25	0.25	0.125	0.125

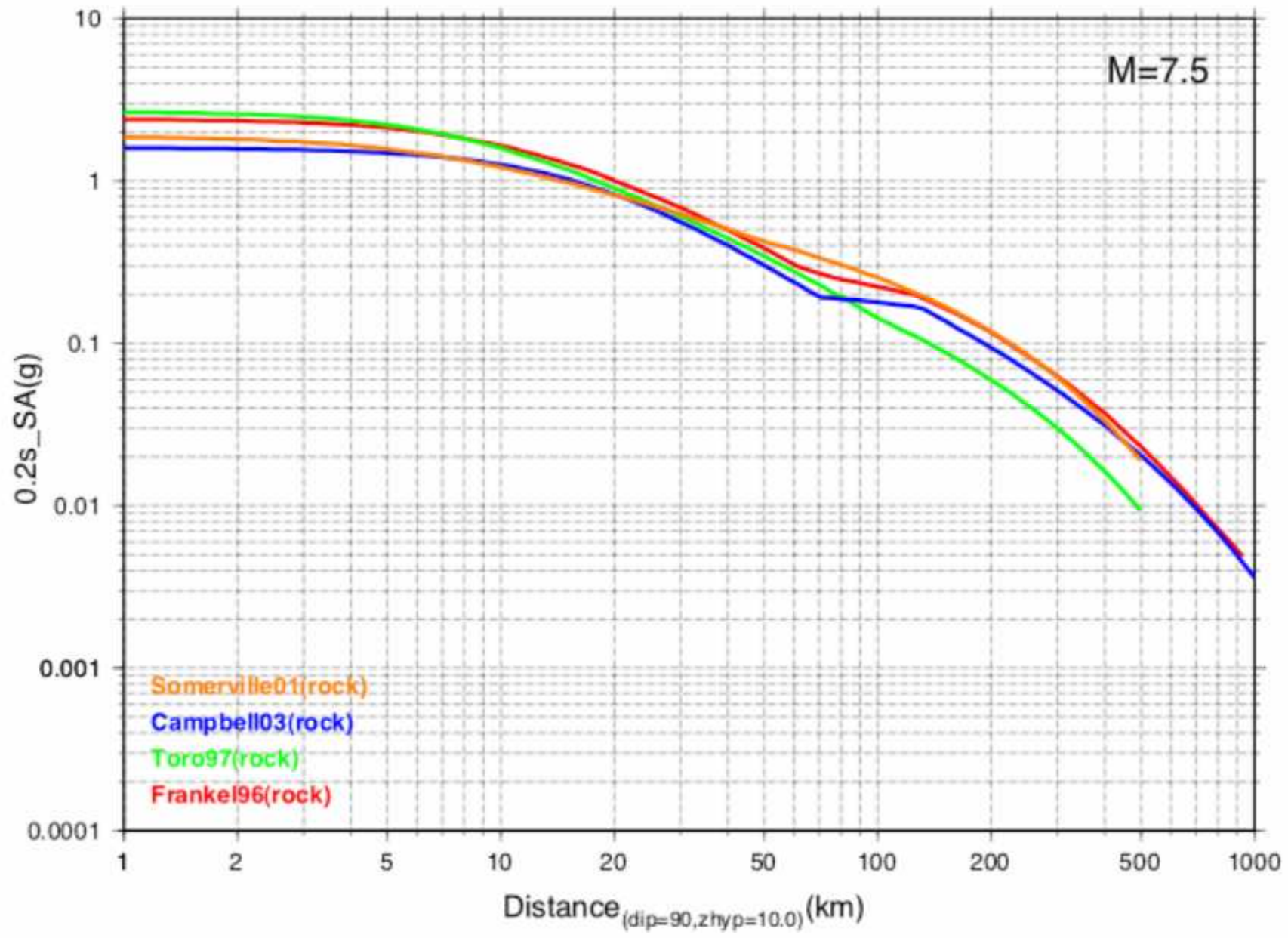


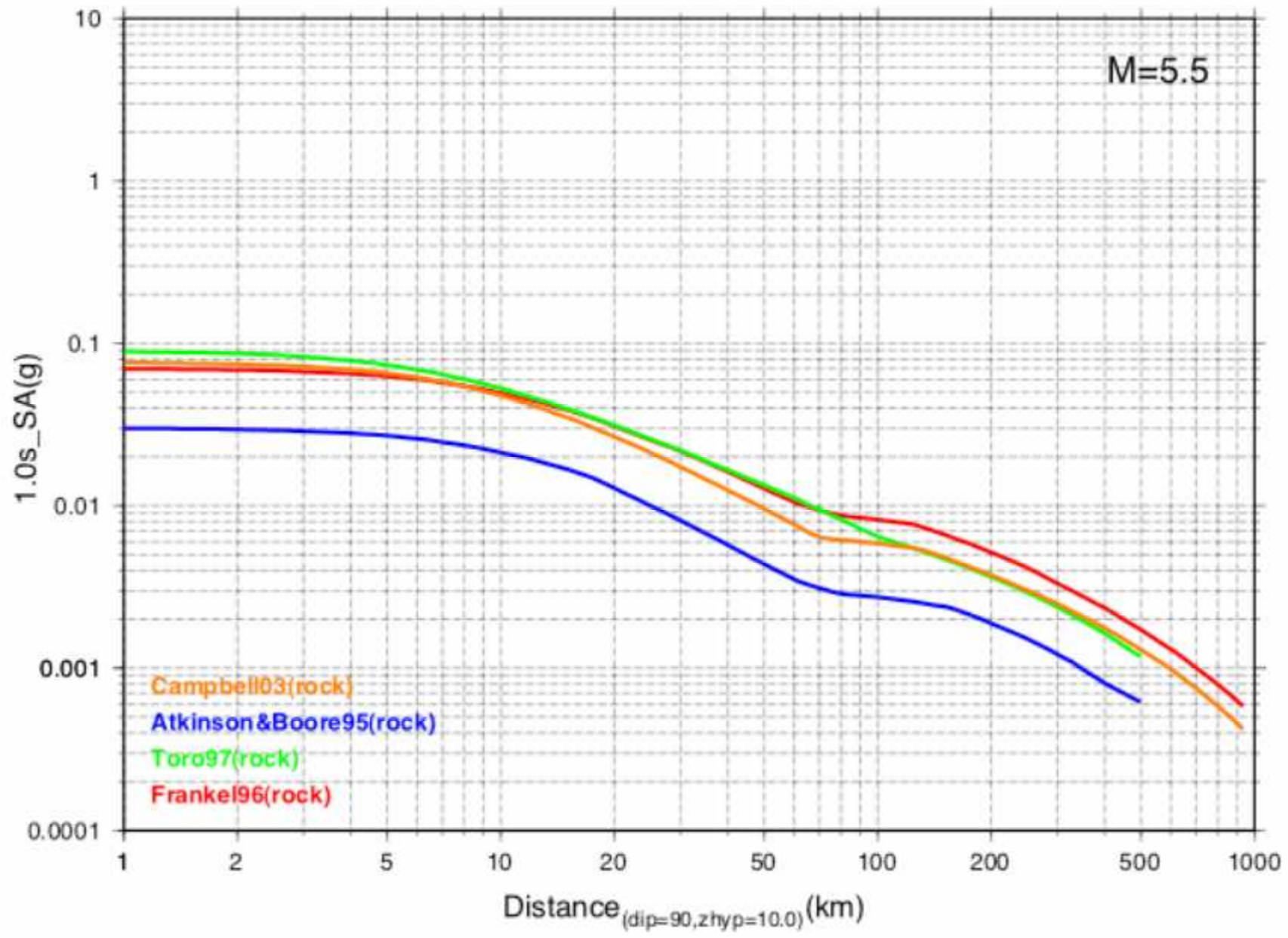




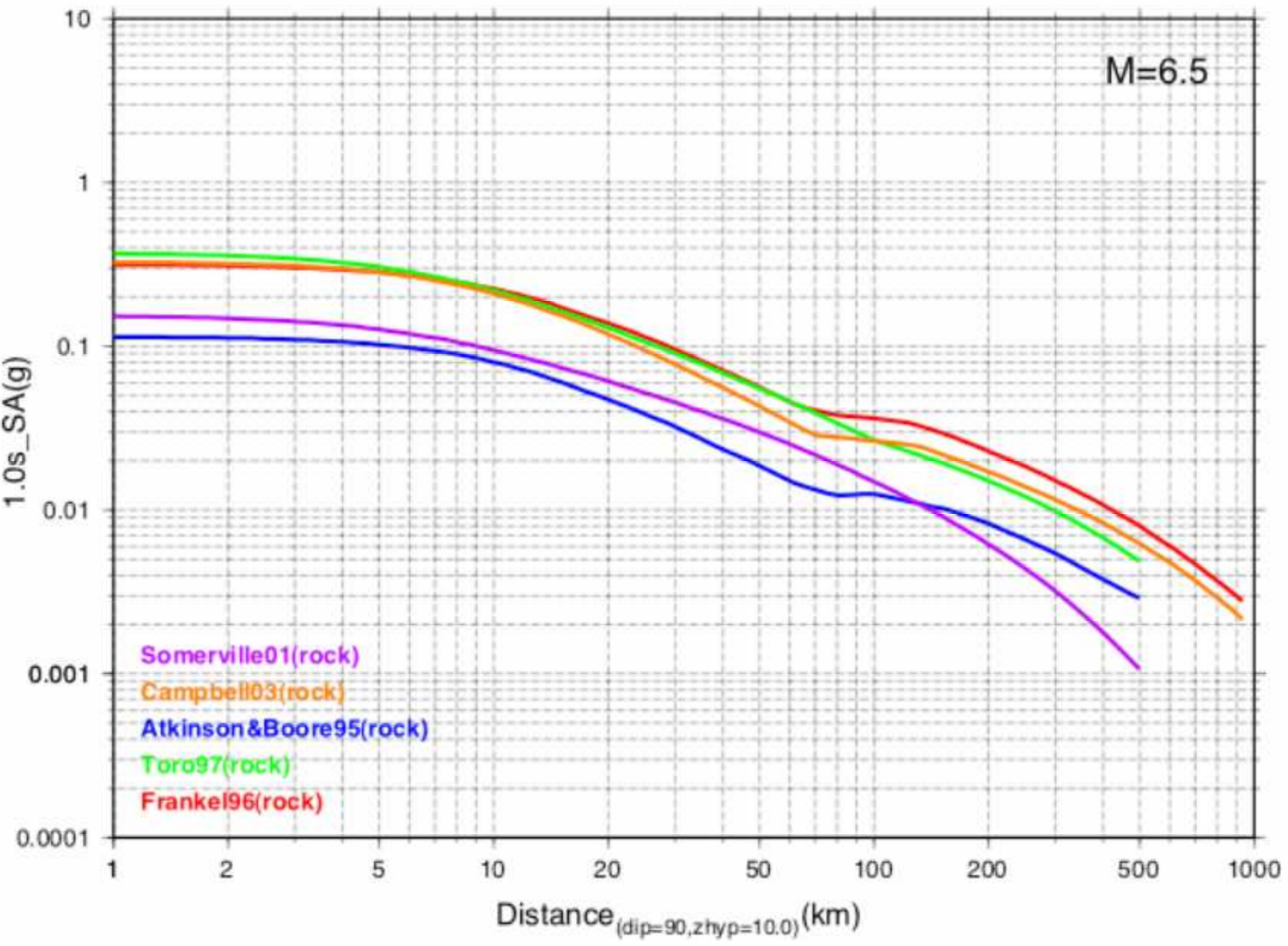


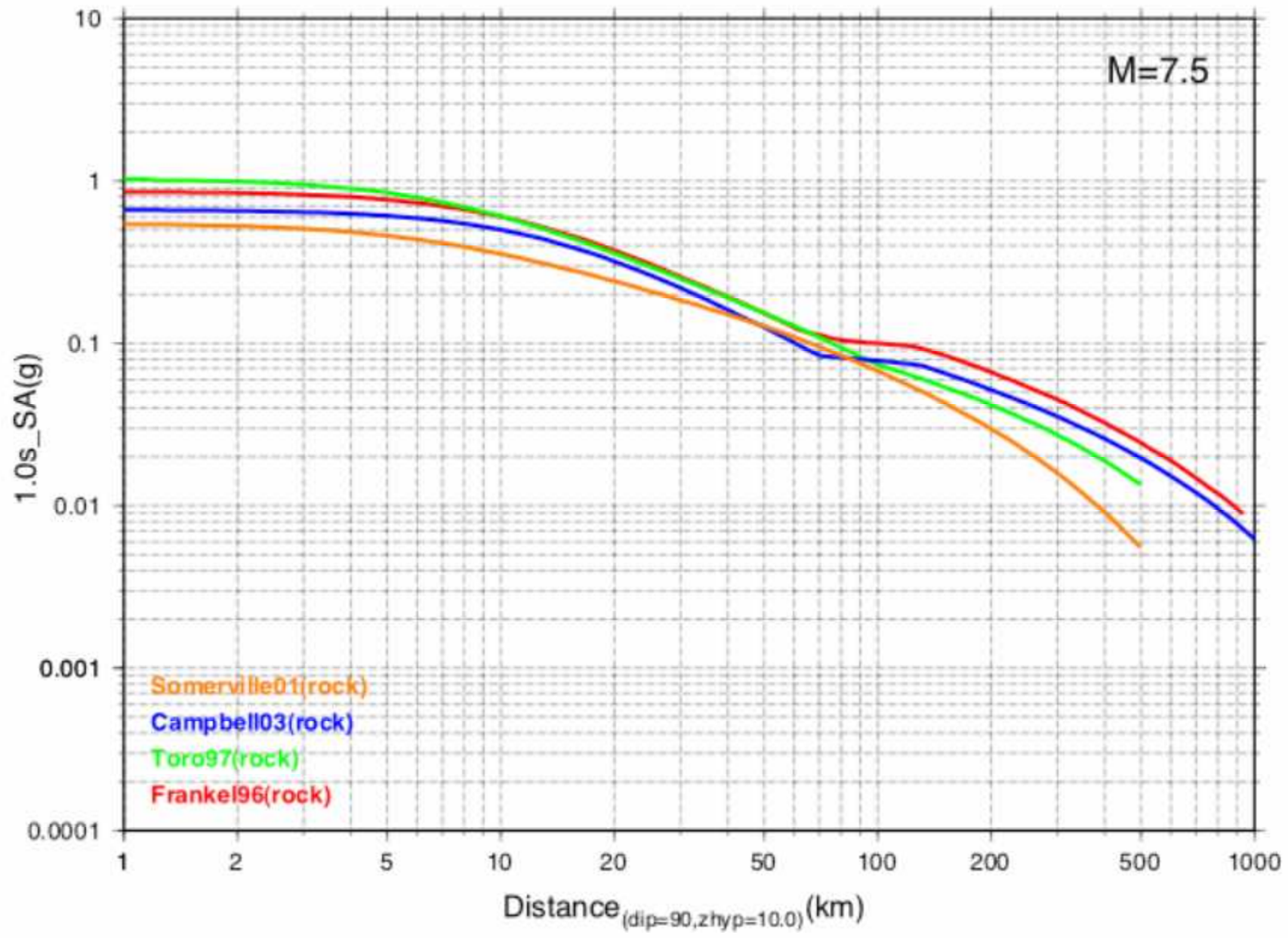


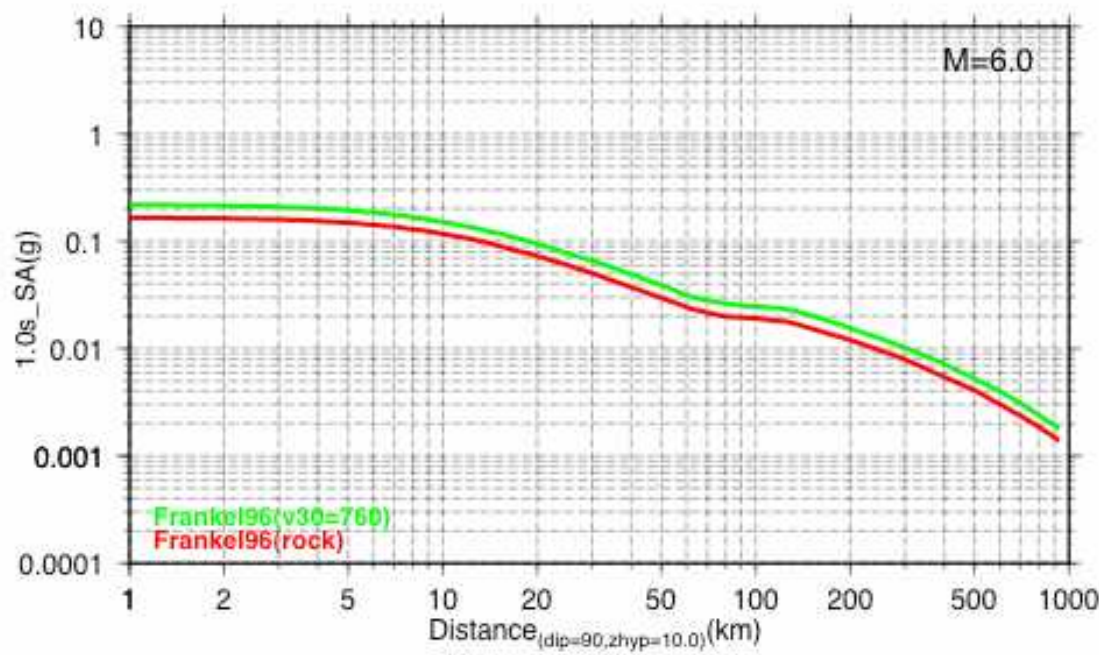
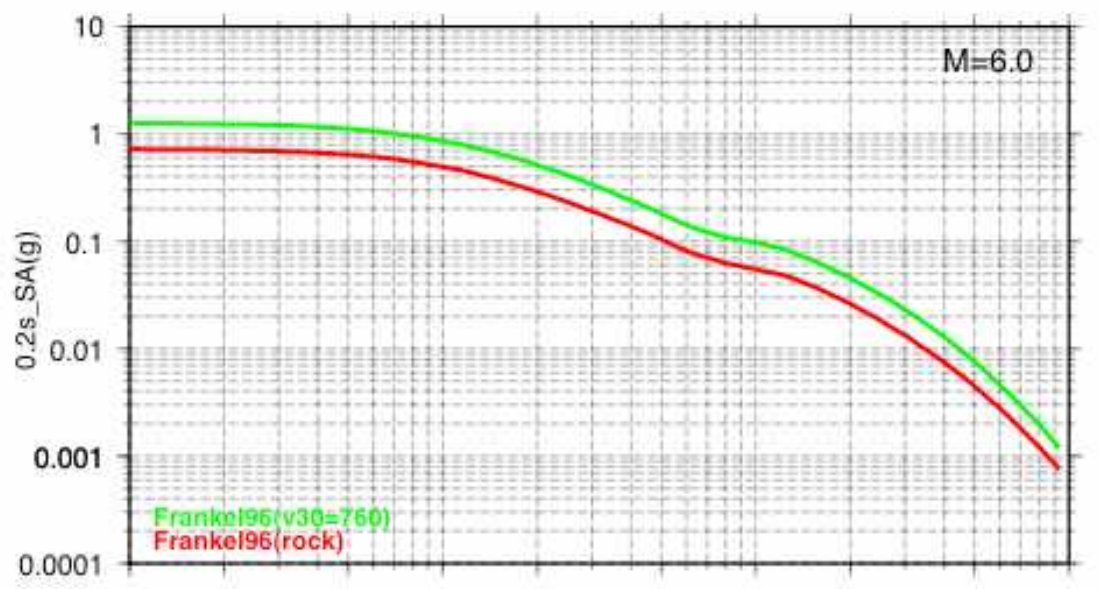












## Attenuation Issues

- Relations to Add / Delete
- Weights / Clustering by Relation Type  
(single-corner  $\omega^2$ , finite-fault, etc.)
- Ground Motion Saturation, Relation to WNA
- B/C-boundary Conversions  
(Vs and kappa assumptions)