

Period (s)	a	b ₁	b ₂	c ₁	c ₂	h	c ₃	e _B	e _D	R ²	σ _{eve}	σ _{sta}	σ _T	RMSE
0.1	0.859	0.053	0.079	-2.226	0.007	1.424	0.007	0.414	0.421	0.825	0.290	0.232	0.441	0.442
CI95	-1.803	-1.371	-0.118	-2.533	-0.184	0.445	0.003	0.283	0.248					
	3.521	1.476	0.276	-1.919	0.197	3.293	0.011	0.544	0.594					
<i>BS_{mean}</i>	<i>0.849</i>	<i>0.051</i>	<i>0.080</i>	<i>-2.220</i>	<i>0.004</i>	<i>1.231</i>	<i>0.007</i>	<i>0.417</i>	<i>0.425</i>					
<i>BS_s</i>	<i>1.141</i>	<i>0.609</i>	<i>0.087</i>	<i>0.155</i>	<i>0.089</i>	<i>2.865</i>	<i>0.002</i>	<i>0.089</i>	<i>0.100</i>					
0.2	1.062	0.042	0.080	-2.268	0.019	2.697	0.007	0.472	0.567	0.858	0.245	0.224	0.395	0.396
CI95	-1.343	-1.234	-0.096	-2.604	-0.156	1.130	0.003	0.354	0.409					
	3.466	1.318	0.257	-1.933	0.195	4.263	0.011	0.590	0.724					
<i>BS_{mean}</i>	<i>1.073</i>	<i>0.039</i>	<i>0.082</i>	<i>-2.285</i>	<i>0.014</i>	<i>2.596</i>	<i>0.007</i>	<i>0.472</i>	<i>0.568</i>					
<i>BS_s</i>	<i>1.016</i>	<i>0.537</i>	<i>0.076</i>	<i>0.165</i>	<i>0.082</i>	<i>0.943</i>	<i>0.002</i>	<i>0.068</i>	<i>0.075</i>					
0.25	0.993	0.032	0.090	-2.232	0.007	3.172	0.007	0.471	0.518	0.866	0.225	0.222	0.376	0.378
CI95	-1.311	-1.187	-0.078	-2.578	-0.163	1.579	0.003	0.358	0.366					
	3.297	1.250	0.259	-1.886	0.176	4.765	0.011	0.584	0.669					
<i>BS_{mean}</i>	<i>0.999</i>	<i>0.029</i>	<i>0.091</i>	<i>-2.232</i>	<i>0.006</i>	<i>3.080</i>	<i>0.007</i>	<i>0.470</i>	<i>0.515</i>					
<i>BS_s</i>	<i>1.035</i>	<i>0.551</i>	<i>0.077</i>	<i>0.176</i>	<i>0.079</i>	<i>0.910</i>	<i>0.002</i>	<i>0.064</i>	<i>0.075</i>					
0.4	-1.803	1.427	-0.105	-1.941	0.050	3.061	0.005	0.491	0.546	0.883	0.163	0.220	0.334	0.335
CI95	-3.847	0.347	-0.255	-2.243	-0.100	1.466	0.001	0.391	0.412					
	0.240	2.508	0.044	-1.639	0.200	4.655	0.008	0.591	0.680					
<i>BS_{mean}</i>	<i>-1.832</i>	<i>1.446</i>	<i>-0.108</i>	<i>-1.946</i>	<i>0.049</i>	<i>3.038</i>	<i>0.005</i>	<i>0.491</i>	<i>0.546</i>					
<i>BS_s</i>	<i>0.928</i>	<i>0.505</i>	<i>0.072</i>	<i>0.146</i>	<i>0.074</i>	<i>0.558</i>	<i>0.002</i>	<i>0.063</i>	<i>0.068</i>					
0.5	-1.491	1.239	-0.081	-1.929	0.123	3.392	0.005	0.485	0.509	0.878	0.148	0.236	0.339	0.340
CI95	-3.574	0.143	-0.232	-2.252	-0.030	1.709	0.001	0.383	0.373					
	0.592	2.336	0.071	-1.607	0.277	5.075	0.008	0.587	0.646					
<i>BS_{mean}</i>	<i>-1.508</i>	<i>1.248</i>	<i>-0.081</i>	<i>-1.935</i>	<i>0.120</i>	<i>3.367</i>	<i>0.005</i>	<i>0.487</i>	<i>0.512</i>					
<i>BS_s</i>	<i>0.999</i>	<i>0.529</i>	<i>0.074</i>	<i>0.157</i>	<i>0.072</i>	<i>0.620</i>	<i>0.002</i>	<i>0.065</i>	<i>0.069</i>					
1	-0.628	0.308	0.064	-1.533	0.239	2.732	0.001	0.465	0.406	0.869	0.125	0.265	0.354	0.355
CI95	-2.794	-0.835	-0.095	-1.837	0.082	0.722	-0.003	0.359	0.265					
	1.538	1.452	0.222	-1.229	0.397	4.742	0.004	0.571	0.547					
<i>BS_{mean}</i>	<i>-0.613</i>	<i>0.298</i>	<i>0.066</i>	<i>-1.540</i>	<i>0.233</i>	<i>2.674</i>	<i>0.001</i>	<i>0.463</i>	<i>0.405</i>					
<i>BS_s</i>	<i>1.098</i>	<i>0.586</i>	<i>0.082</i>	<i>0.155</i>	<i>0.077</i>	<i>0.886</i>	<i>0.002</i>	<i>0.069</i>	<i>0.073</i>					
1.25	-1.856	0.789	0.017	-1.487	0.188	3.052	-0.001	0.431	0.367	0.878	0.132	0.248	0.341	0.343
CI95	-3.952	-0.315	-0.135	-1.798	0.035	0.989	-0.004	0.329	0.230					
	0.241	1.893	0.170	-1.177	0.341	5.116	0.003	0.534	0.504					

<i>BS_{mean}</i>	-1.805	0.771	0.020	-1.501	0.190	3.058	-0.001	0.432	0.368					
<i>BS_σ</i>	0.983	0.512	0.072	0.170	0.075	1.001	0.002	0.066	0.072					
2	-4.859	1.750	-0.061	-1.200	0.077	2.847	-0.004	0.368	0.349	0.870	0.156	0.252	0.355	0.357
CI95	-7.033	0.601	-0.220	-1.516	-0.082	0.248	-0.008	0.262	0.207					
	-2.684	2.900	0.098	-0.884	0.235	5.446	-0.001	0.475	0.491					
<i>BS_{mean}</i>	-4.781	1.722	-0.057	-1.219	0.079	2.821	-0.004	0.369	0.349					
<i>BS_σ</i>	1.070	0.580	0.082	0.182	0.082	1.368	0.002	0.068	0.073					
2.5	-5.108	1.663	-0.042	-1.100	0.058	2.615	-0.005	0.336	0.333	0.862	0.158	0.256	0.359	0.360
CI95	-7.299	0.503	-0.203	-1.408	-0.101	0.189	-0.009	0.228	0.190					
	-2.918	2.823	0.119	-0.791	0.218	5.420	-0.002	0.443	0.476					
<i>BS_{mean}</i>	-4.998	1.623	-0.036	-1.135	0.058	-2.675	-0.005	0.334	0.330					
<i>BS_σ</i>	1.122	0.596	0.082	0.201	0.084	1.603	0.002	0.066	0.072					
5	-3.239	0.339	0.115	-1.109	0.186	0.955	-0.003	0.290	0.221	0.840	0.165	0.265	0.364	0.365
CI95	-5.438	-0.836	-0.048	-1.348	0.030	-2.690	-0.006	0.182	0.079					
	-1.041	1.514	0.278	-0.869	0.342	4.600	0.001	0.397	0.364					
<i>BS_{mean}</i>	-3.115	0.255	0.127	-1.086	0.189	0.420	-0.003	0.293	0.225					
<i>BS_σ</i>	1.138	0.622	0.086	0.148	0.091	1.212	0.002	0.062	0.066					
10	-4.009	0.512	0.087	-1.342	0.140	1.892	-0.001	0.357	0.320	0.862	0.166	0.245	0.352	0.353
CI95	-6.146	-0.626	-0.071	-1.608	-0.013	0.356	-0.004	0.253	0.181					
	-1.871	1.649	0.244	-1.077	0.294	4.140	0.002	0.462	0.459					
<i>BS_{mean}</i>	-3.965	0.480	0.093	-1.346	0.134	1.509	-0.001	0.357	0.318					
<i>BS_σ</i>	1.045	0.561	0.078	0.148	0.081	1.365	0.002	0.064	0.069					

Table ESM1: Regression coefficients for PSA (cm/s²) at the different periods. R^2 is the determination coefficient. CI95 indicates the confidence intervals at 95% confidence level. BS_{mean} and BS_{σ} are the mean value and the standard deviation of each coefficient, respectively, estimated by applying the bootstrap technique.

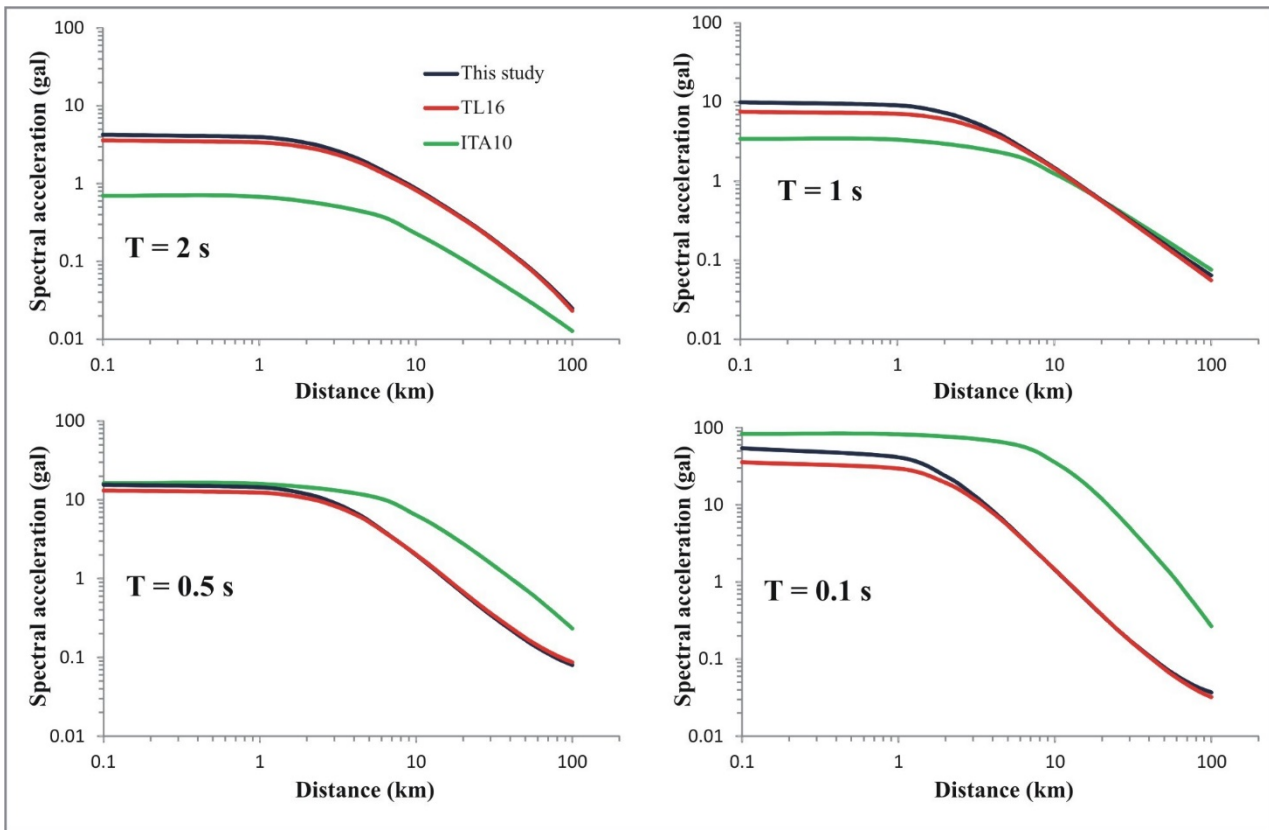


Figure ESM1: Comparison of the attenuation curves ITA10 (Bindi et al. 2011) and TL16 (Tusa and Langer, 2016) with the ones from this study for PSA considering $M_L = 4$ and several periods T .