Article

Probabilistic and Scenario – based Seismic Hazard Assessment on the Western Gulf of Corinth (Central Greece)

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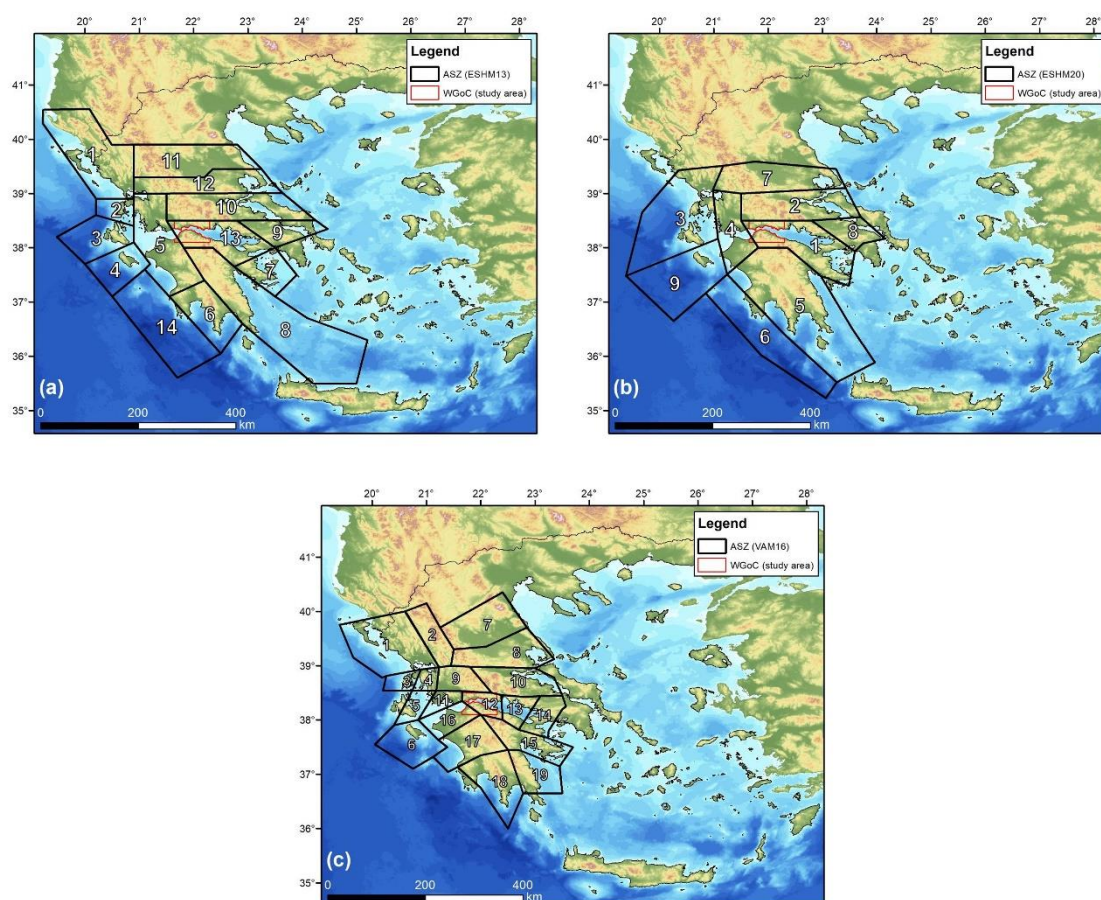
Supplementary section

Figure S1. The three zonation models that were implemented for the WGoC, (a) the ESHM13 model [62,63], (b) the ESHM20 model [64] and (c) the model VAM16 from Vamvakaris et al. [65] proposed for the Greek territory.

ZONE	Strike (°)	λ(Mc)	β-value	Mu (R-W-C)	Mc (MAXC)	Depth (km)	b-value (MLE)	Normal FM(%)	Non-Normal FM(%)
ESHM13									
1	224	2.72	1.87	6.8	4.1	13	0.81	0.14	0.86
2	149	0.67	2.03	6.6	4.4	10	0.88	0.07	0.93
3	132	4.91	2.12	7.2	4.1	11	0.92	0.13	0.87
4	191	3.46	2.05	6.8	4.1	13	0.89	0.13	0.87
5	192	2.41	1.89	6.6	4.1	15	0.82	0.25	0.75
6	195	0.53	2.44	5.8	4.4	18	1.06	0.73	0.27
7	235	0.21	1.96	6.0	4.3	35	0.85	0.88	0.12
8	186	0.93	1.91	6.8	4.4	16	0.83	0.37	0.63
9	197	0.48	2.30	6.4	4.4	18	1.00	1.00	0.00
10	188	0.80	2.46	5.8	4.4	16	1.07	0.76	0.24
11	193	0.41	2.10	6.1	4.4	30	0.91	0.93	0.07
12	201	1.25	2.16	6.6	4.4	13	0.94	0.72	0.27
13	194	3.53	2.03	6.5	4.1	12	0.88	0.82	0.18
14	202	2.22	2.46	6.6	4.4	11	1.07	0.08	0.93
ESHM20									
1	195	3.71	1.98	6.5	4.1	11	0.86	0.82	0.18
2	194	0.78	2.39	5.8	4.4	16	1.04	0.76	0.24
3	153	7.03	1.93	7.2	4.1	10	0.84	0.13	0.87
4	196	0.78	2.46	6.6	4.4	14	1.07	0.21	0.78
5	188	1.65	2.14	8.0	4.4	15	0.93	0.59	0.41
6	206	1.83	2.33	6.6	4.4	16	1.01	0.08	0.92
7	196	1.32	2.26	6.6	4.4	11	0.98	0.73	0.28
8	180	0.46	2.26	6.4	4.4	22	0.98	1.00	0.00
9	191	4.58	2.07	6.8	4.1	15	0.90	0.12	0.89
VAM16									
1	224	2.08	1.87	6.8	4.1	18	0.81	0.17	0.84
2	240	0.23	2.76	6.0	4.4	30	1.20	0.62	0.39
3	153	0.56	2.19	6.6	4.4	20	0.95	0.08	0.93
4	142	0.18	2.21	5.8	4.4	20	0.96	0.40	0.60
5	160	0.63	2.23	7.2	4.6	18	0.97	0.30	0.70
6	193	3.61	2.07	6.8	4.1	25	0.90	0.14	0.86
7	167	0.20	2.35	6.5	4.4	19	1.02	1.00	0.00
8	194	1.16	1.98	6.6	4.4	25	0.86	0.78	0.22
9	203	0.46	2.88	6.0	4.3	39	1.25	0.64	0.36
10	172	0.24	3.52	5.6	4.3	17	1.53	0.84	0.16
11	169	0.09	2.53	5.5	4.6	20	1.10	0.67	0.33
12	184	1.76	2.10	6.5	4.1	24	0.91	0.83	0.16
13	207	0.42	2.10	6.3	4.4	14	0.91	0.89	0.12
14	185	0.76	2.10	6.5	4.4	20	0.91	0.85	0.15
15	213	0.39	1.82	6.3	4.1	20	0.79	0.31	0.69
16	196	0.76	2.37	6.6	4.4	18	1.03	0.17	0.83
17	191	1.23	2.14	6.0	4.1	26	0.93	0.48	0.52
18	209	0.50	2.33	5.8	4.4	21	1.01	0.84	0.17
19	212	0.25	2.28	6.9	4.4	26	0.99	0.67	0.33

Table S1: The seismicity and geometry data that was computed for each Area Source Zone (ASZ).