

Supplementary Material

Data-Driven Analysis of the Tectonic History in Greece (1975–2025) and Neural Network-Based Modeling of Seismic Response Spectra

Denise-Penelope N. **Kontoni** ^{*1,2}, Ambrosios-Antonios **Savvides** ³, and
Panagiotis **Zafeiropoulos** ¹

¹ Department of Civil Engineering, School of Engineering, University of the Peloponnese, GR-26334 Patras, Greece.

² School of Science and Technology, Hellenic Open University, GR-26335 Patras, Greece.

³ School of Civil Engineering, National Technical University of Athens, Iroon Polytechniou 9, Zografou Campus, GR-15780 Athens, Greece.

* ✉ Denise-Penelope N. **Kontoni** kontoni@uop.gr ; kontoni.denise@ac.eap.gr
<https://orcid.org/0000-0003-4844-1094>

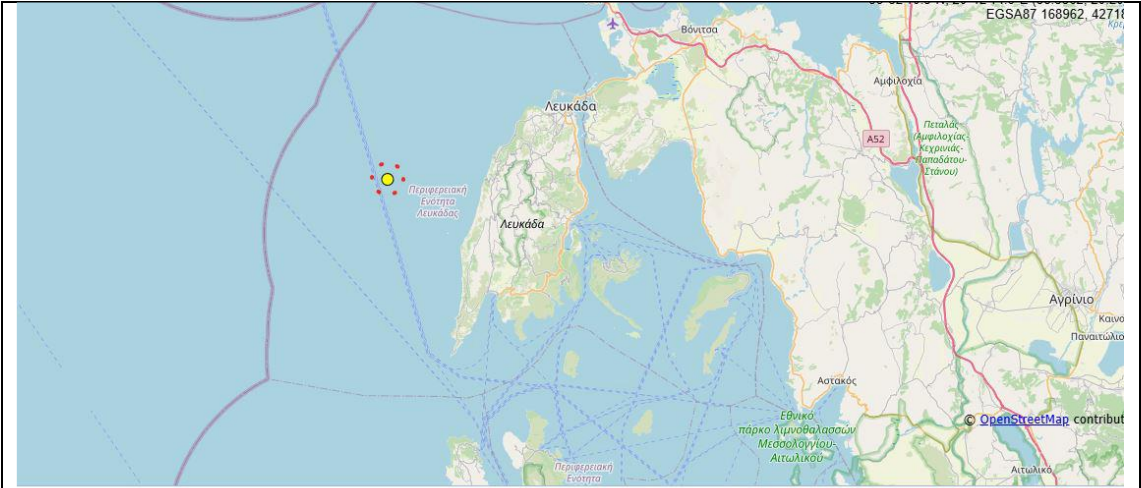
Ambrosios-Antonios **Savvides** ambrosa@central.ntua.gr
<https://orcid.org/0000-0002-6553-0091>

Panagiotis **Zafeiropoulos** p.zafeiro@outlook.com

Appendix

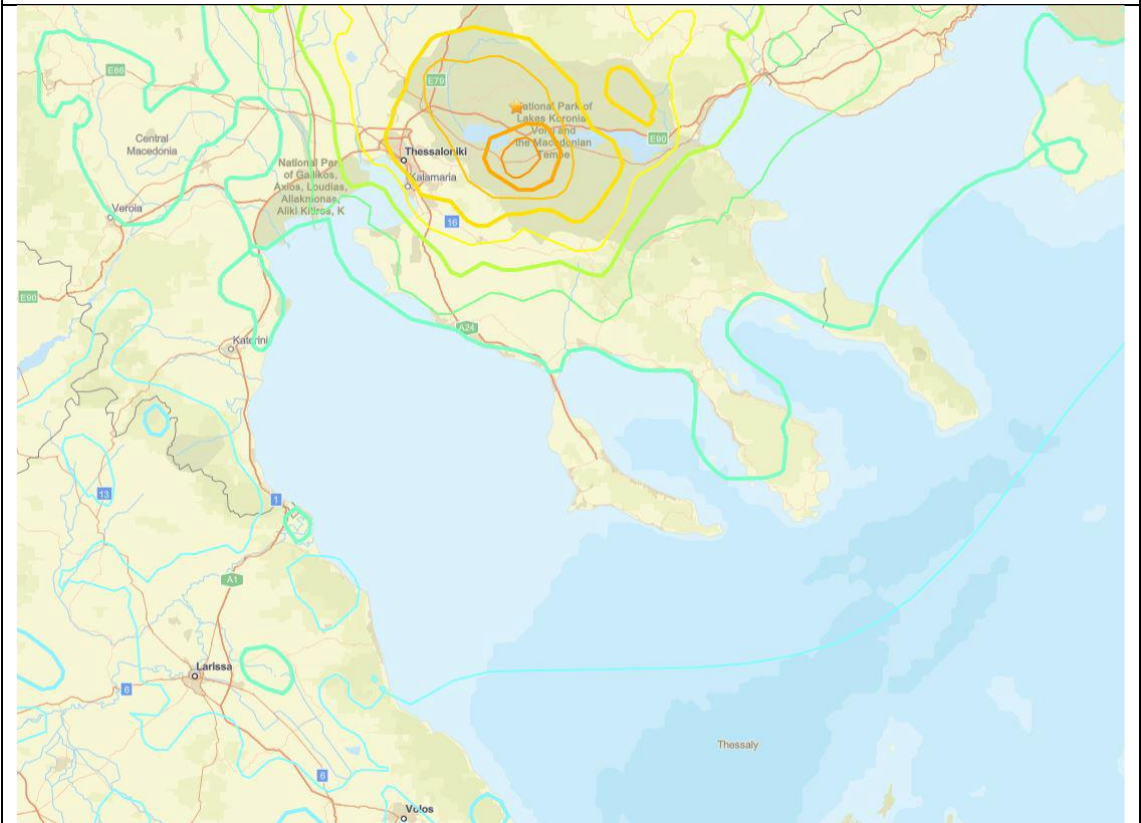
The following supplementary Figures and Tables are placed in this Appendix:

- Supplementary Figures 1-5.
- Supplementary Tables 1-36.



Details					
Event Name	LEFKADA 1973 MAINSHOCK				
Date	1973-11-04 15:52:13				
Lat	38.755	Long	20.454	Depth	20.200
Ref	Other Ref				
Magnitude					
	Type	Value		Reference	
	M _L	5.80			
	M _W				

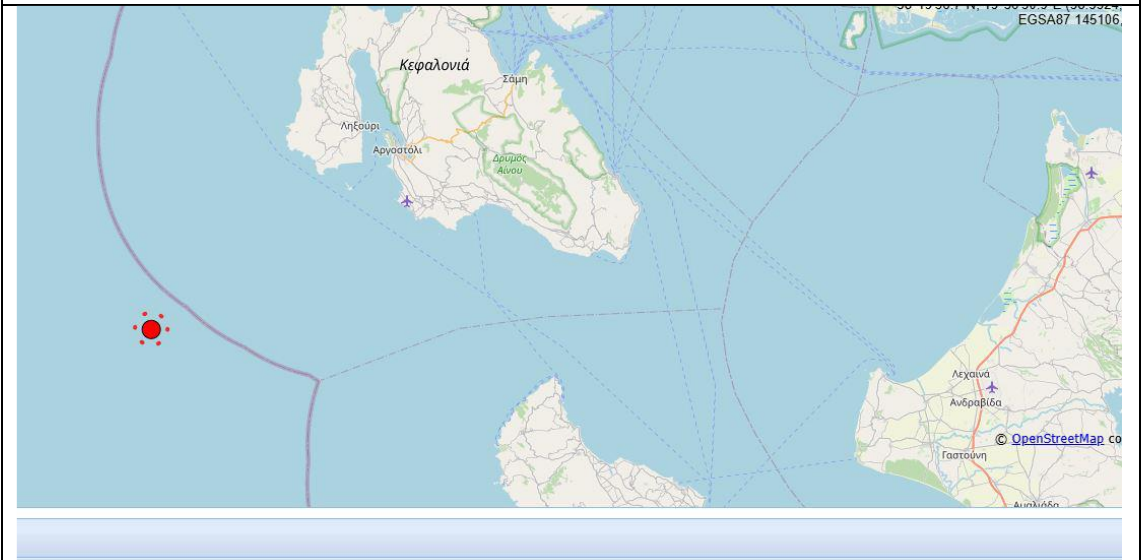
(a)



(b)

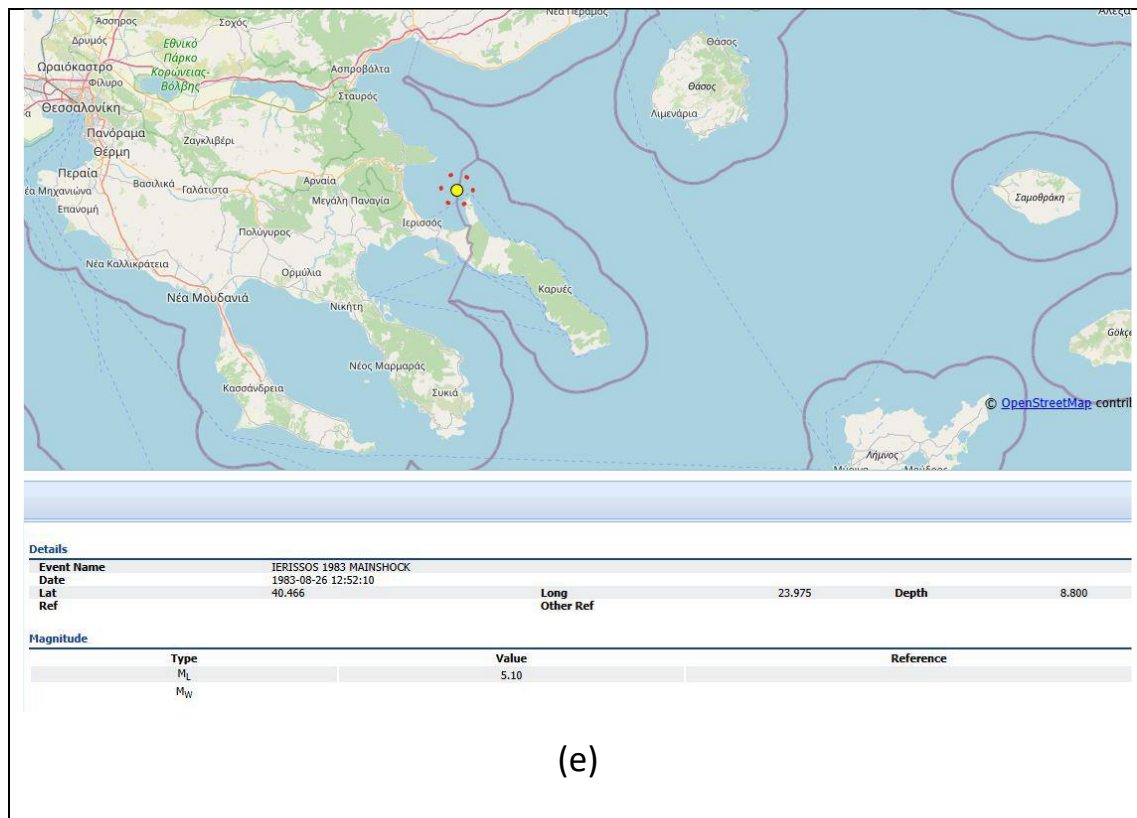


(c)



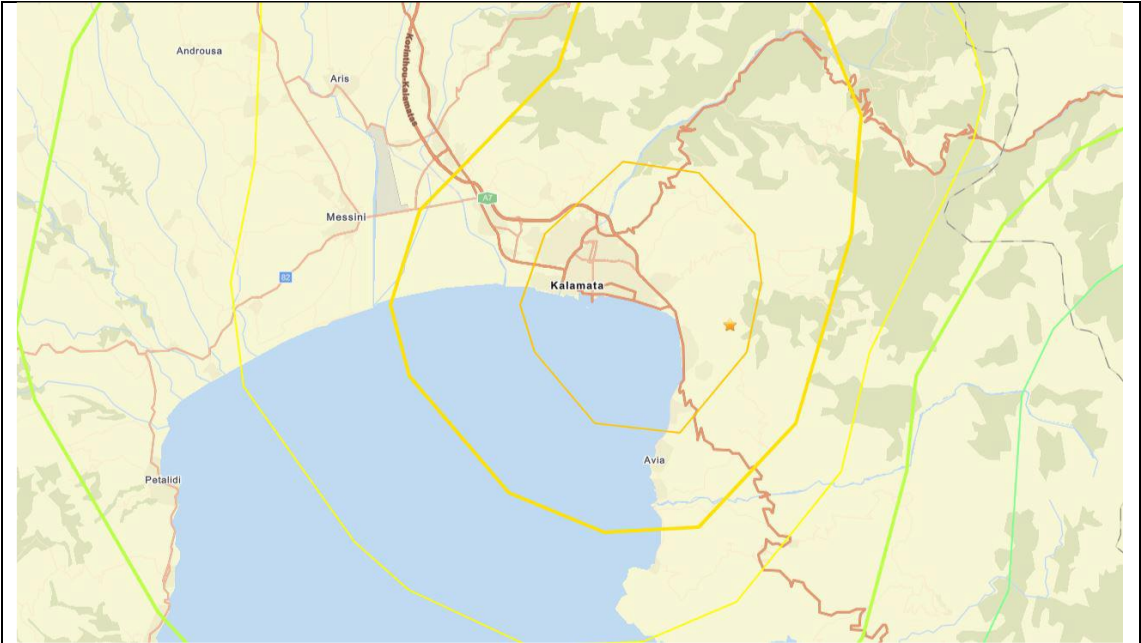
Details					
Event Name	CEPHALONIA 1983 MAINSHOCK				
Date	1983-01-17 12:41:29				
Lat	37.985	Long	20.155	Depth	11.700
Ref	Other Ref				
Magnitude					
Type	Value		Reference		
M _L	7.00				
M _W					

(d)

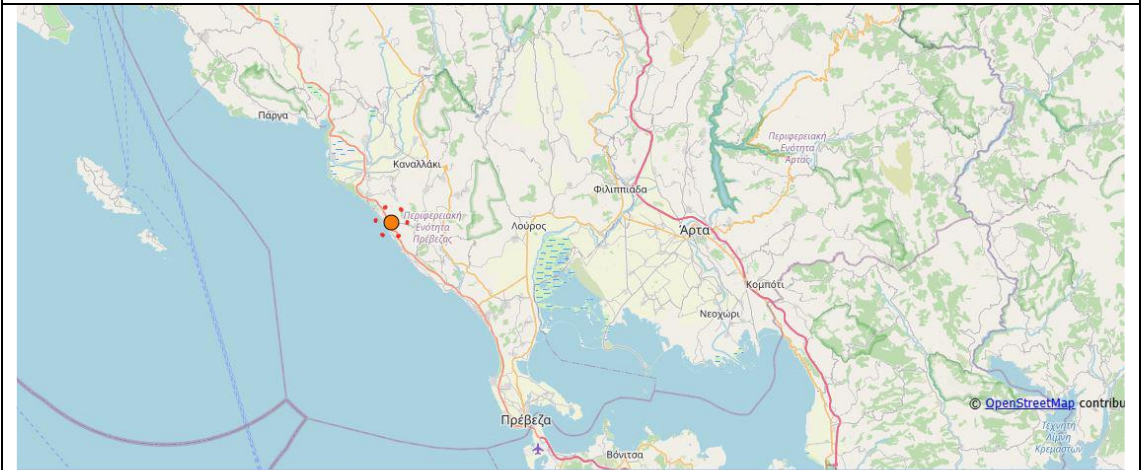


(e)

Supp. Figure 1. (a) Earthquake Epicenter of the Earthquake of Lefkada 1973, following the GHEAD website of ITSAK, in the following link [GHEAD](#); (b) Earthquake Epicenter of the Earthquake of Volvi/Thessaloniki 1978, following the United States Geological Survey (USGS) in the hyperlink [USGS](#). The epicenter has natural coordinates 40.6°N 23.3°E.; (c) Earthquake Epicenter of the Earthquake of Alkyonides 1981, following the United States Geological Survey (USGS) in the hyperlink [USGS](#). The epicenter has natural coordinates 38.222°N 22.934°E.; (d) Earthquake Epicenter of the Earthquake of Kefallonia 1983, following GHEAD website of ITSAK, in the following link [GHEAD](#); (e) Earthquake Epicenter of the Earthquake of Ierissos 1983, following GHEAD website of ITSAK, in the following link [GHEAD](#).



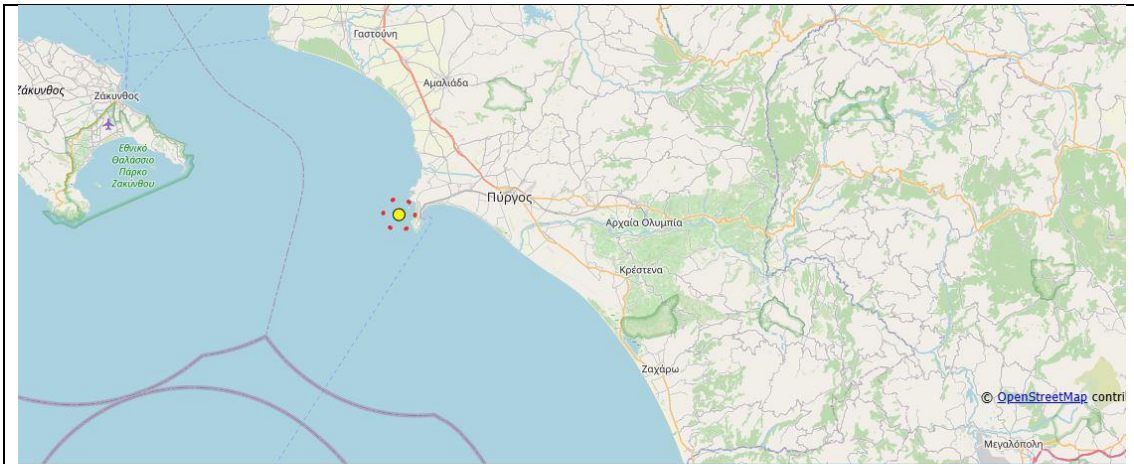
(a)



Details					
Event Name	FILLIPIAS 1990 MAINSHOCK				
Date	1990-06-16 02:16:19				
Lat	39.169	Long	20.564	Depth	3.700
Ref	Other Ref				
Magnitude					
Type	Value		Reference		
M _L	6.00				
M _W					

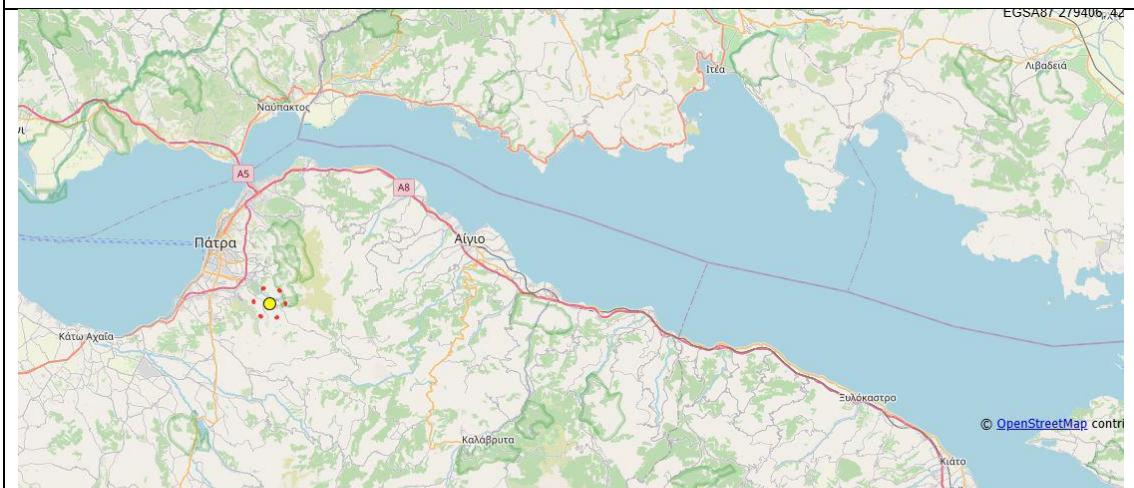
(b)

(b)



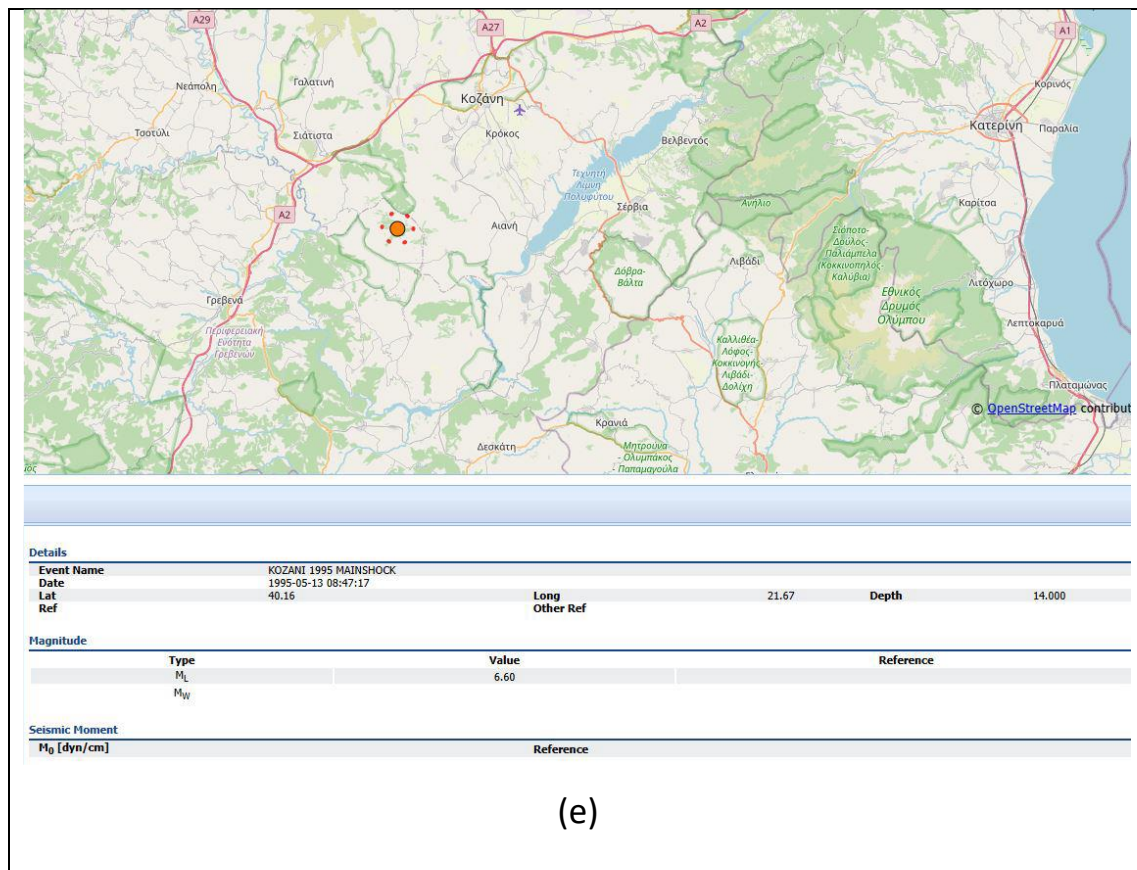
Details					
Event Name	PYRGOS 1993 MAIN EVENT				
Date	1993-03-26 11:58:19				
Lat	37.653	Long	21.286	Depth	30.100
Ref	Other Ref				
Magnitude					
	Type	Value		Reference	
	M _L	5.40			
	M _W				

(c)

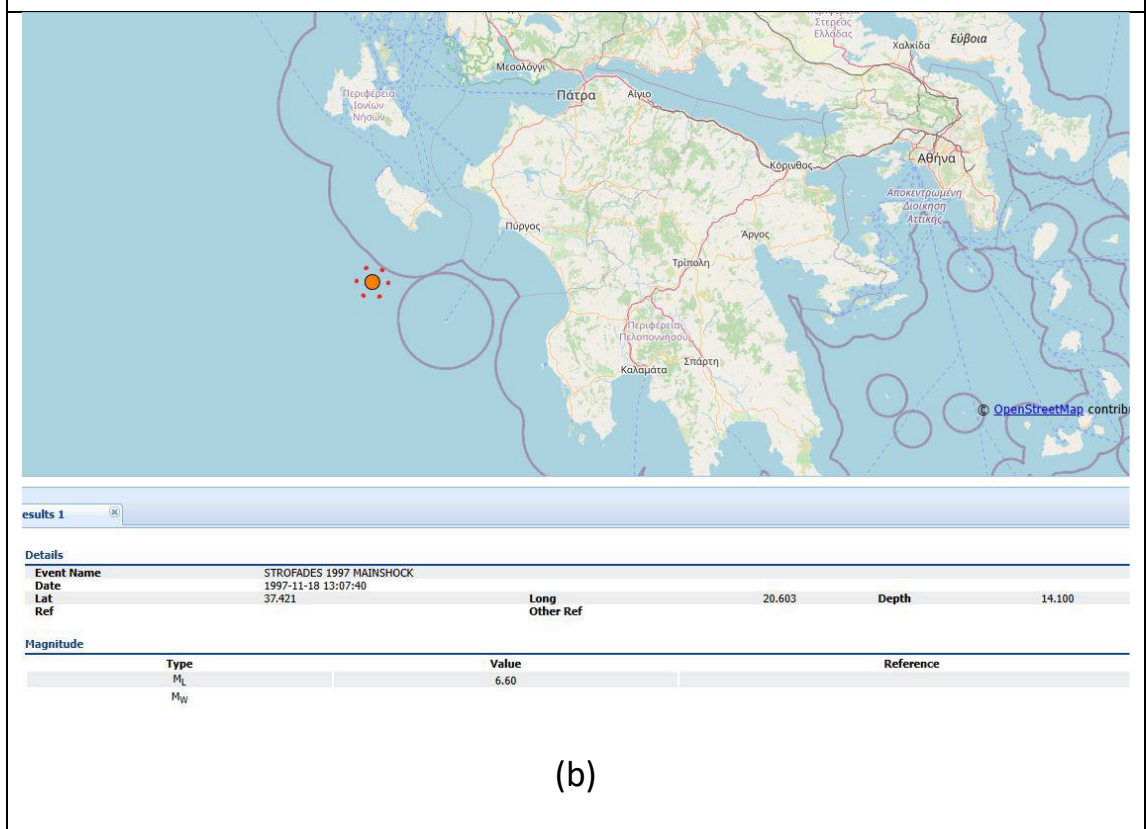
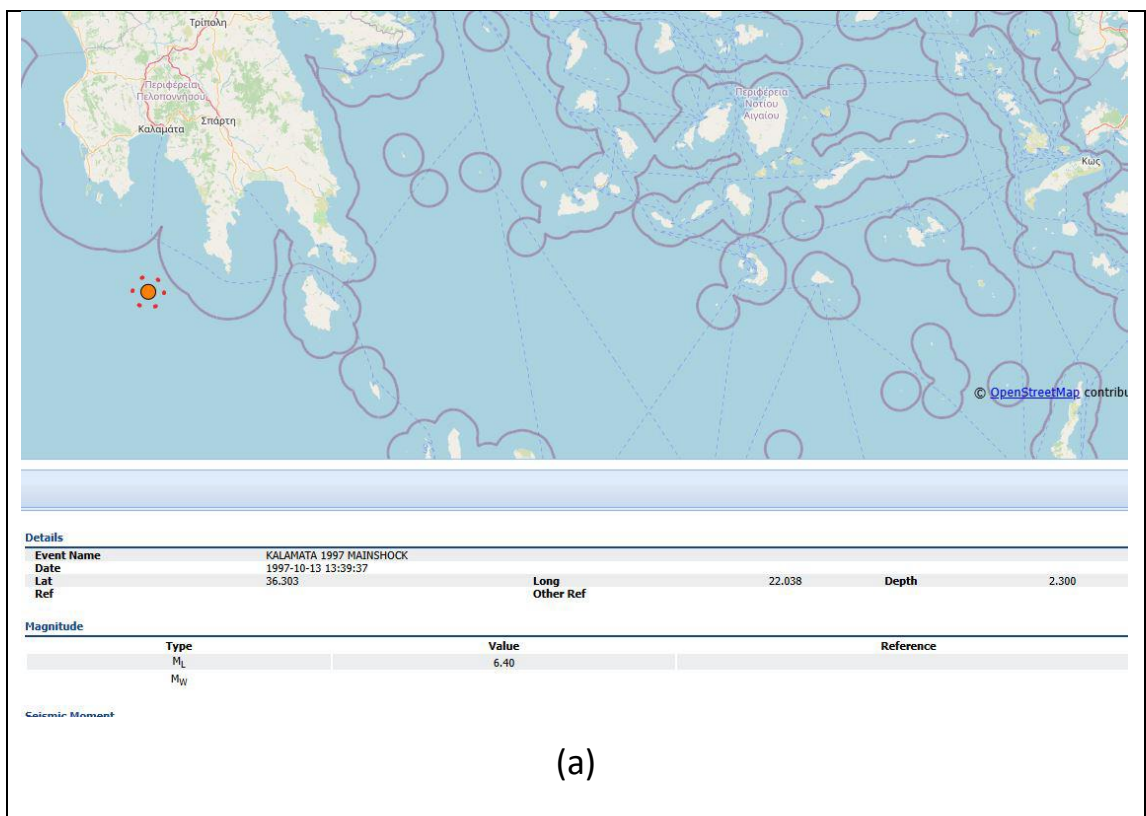


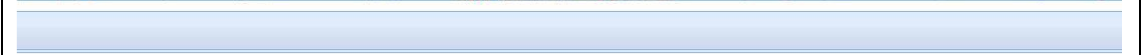
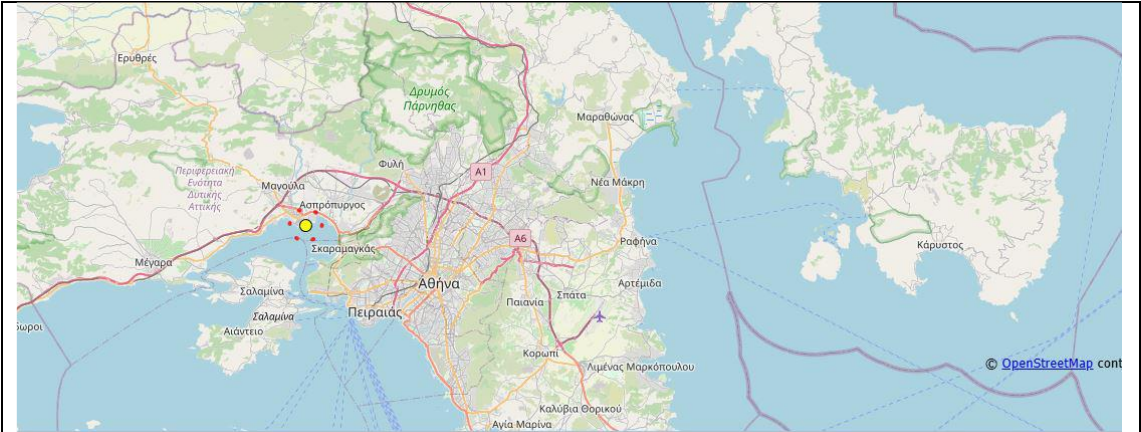
Details					
Event Name	PATRA 1993 MAINSHOCK				
Date	1993-07-14 12:31:48				
Lat	38.18	Long	21.81	Depth	2.100
Ref	Other Ref				
Magnitude					
	Type	Value		Reference	
	M _L	5.60			
	M _W				

(d)



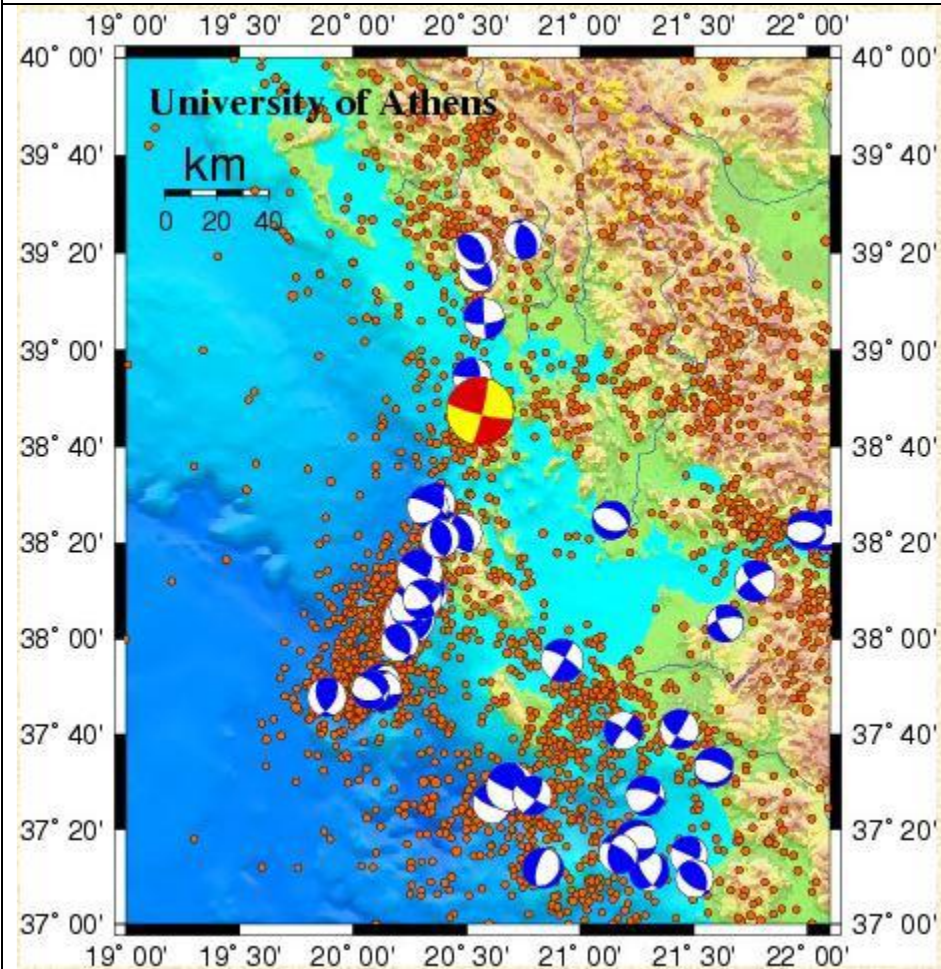
Supp. Figure 2. (a) Earthquake Epicenter of the Earthquake of Kalamata 1986, following the United States Geological Survey (USGS) in the hyperlink [USGS](#). The epicenter has natural coordinates 37.014°N 22.176°E.; (b) Earthquake Epicenter of the Earthquake of Fillipiada/Preveza 1990, following GHEAD website of ITSAK, in the following link [GHEAD](#); (c) Earthquake Epicenter of the Earthquake of Pyrgos 1993 following GHEAD website of ITSAK, in the following link [GHEAD](#); (d) Earthquake Epicenter of the Earthquake of Patra 1993, following GHEAD website of ITSAK, in the following link [GHEAD](#); (e) Earthquake Epicenter of the Earthquake of Kozani 1995, following GHEAD website of ITSAK, in the following link [GHEAD](#).



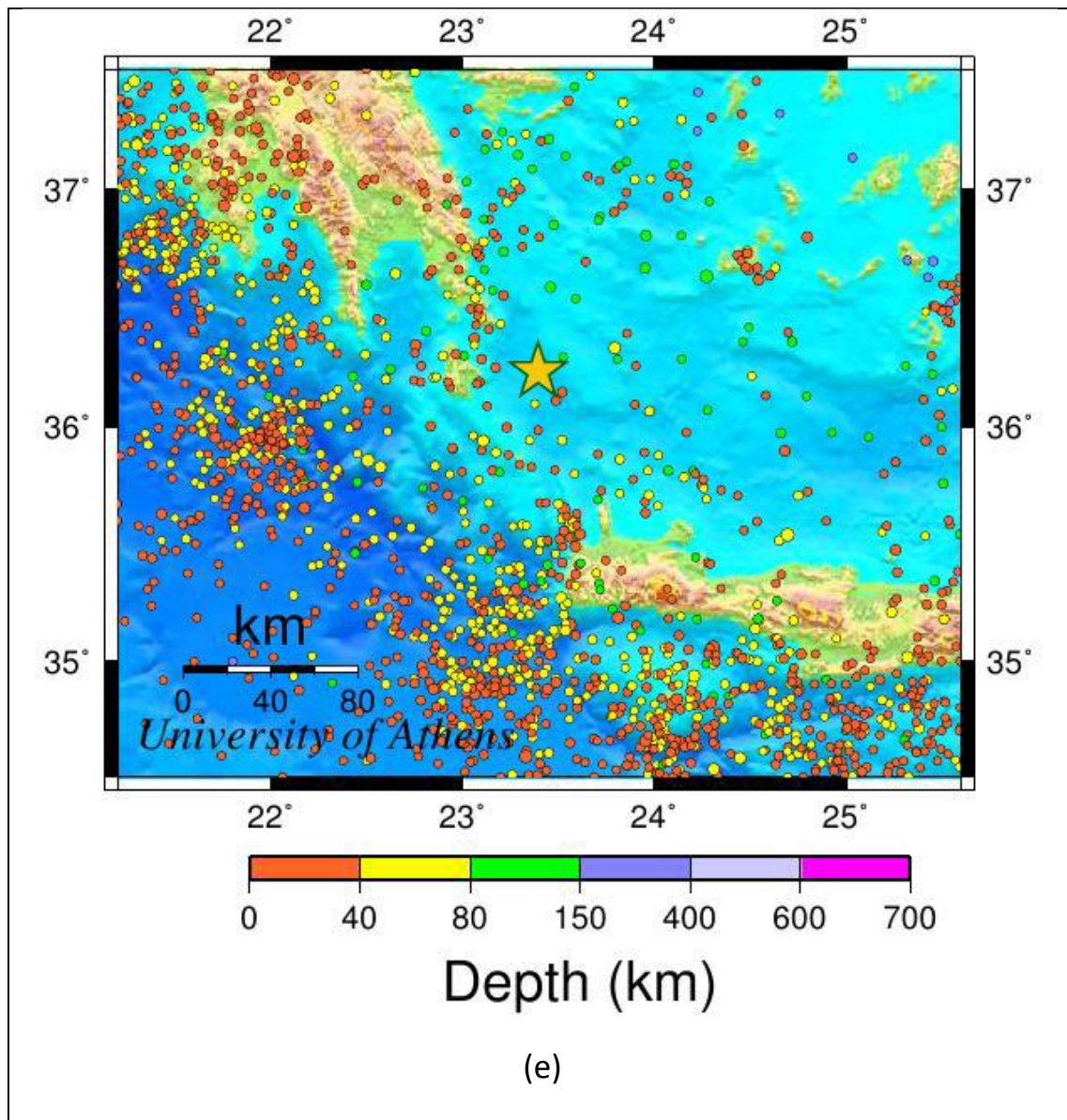


Details				
Event Name	1999-09-07 11:56:51			
Date	1999-09-07 11:56:51			
Lat	38.036	Long	23.552	Depth
Ref		Other Ref		15.300
Magnitude				
Type	Value		Reference	
M _L	5.90			
M _W				

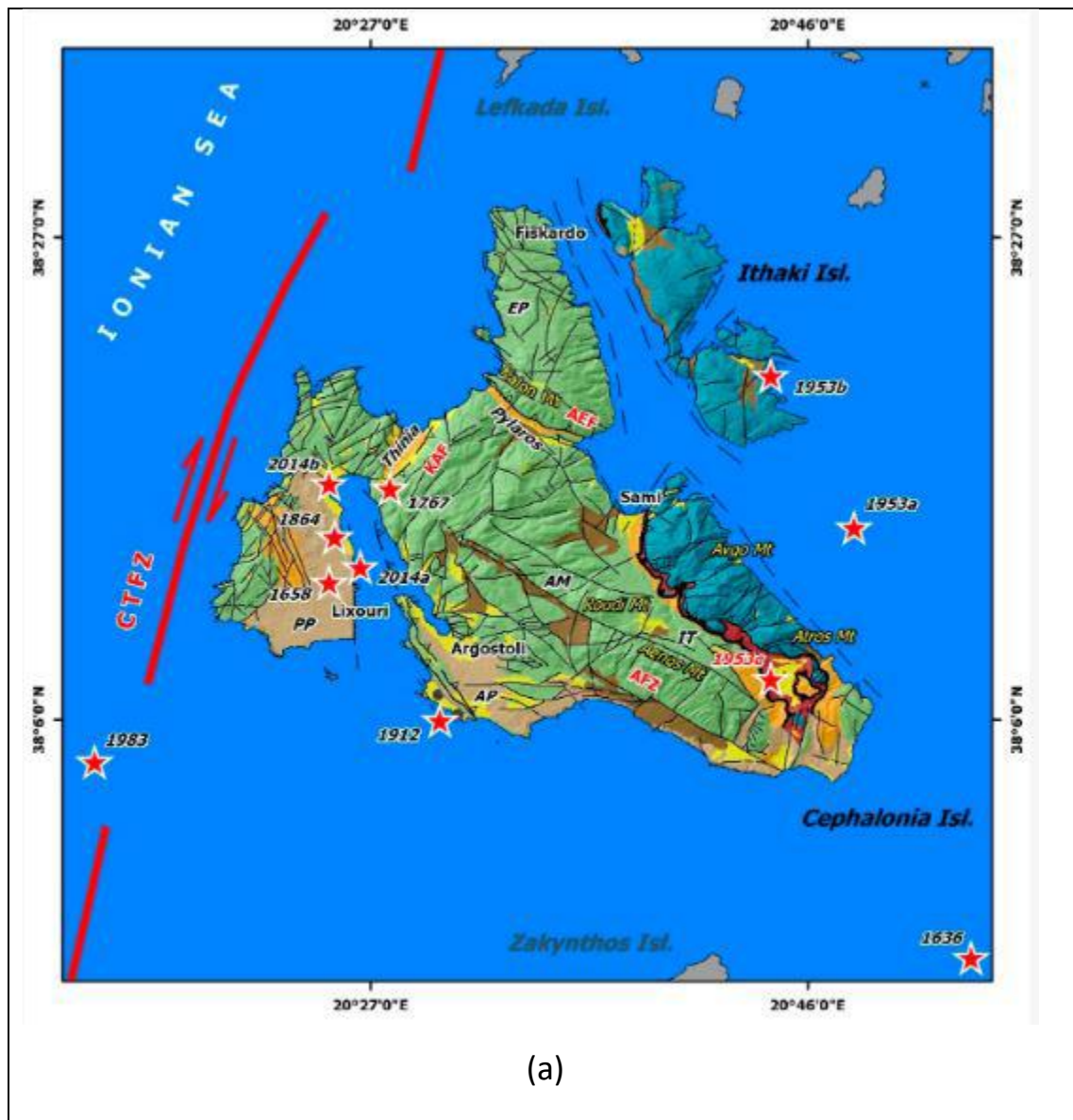
(c)

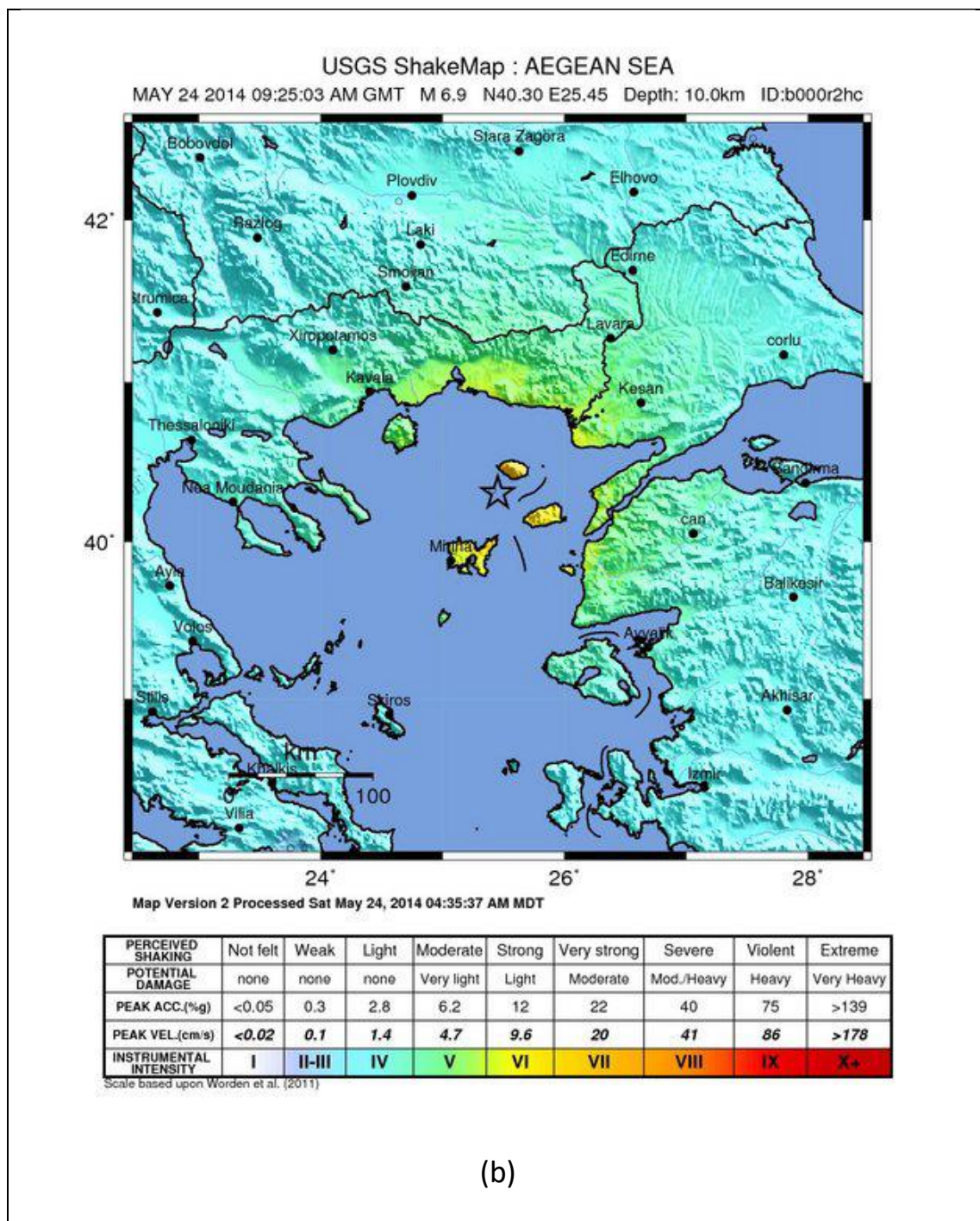


(d)

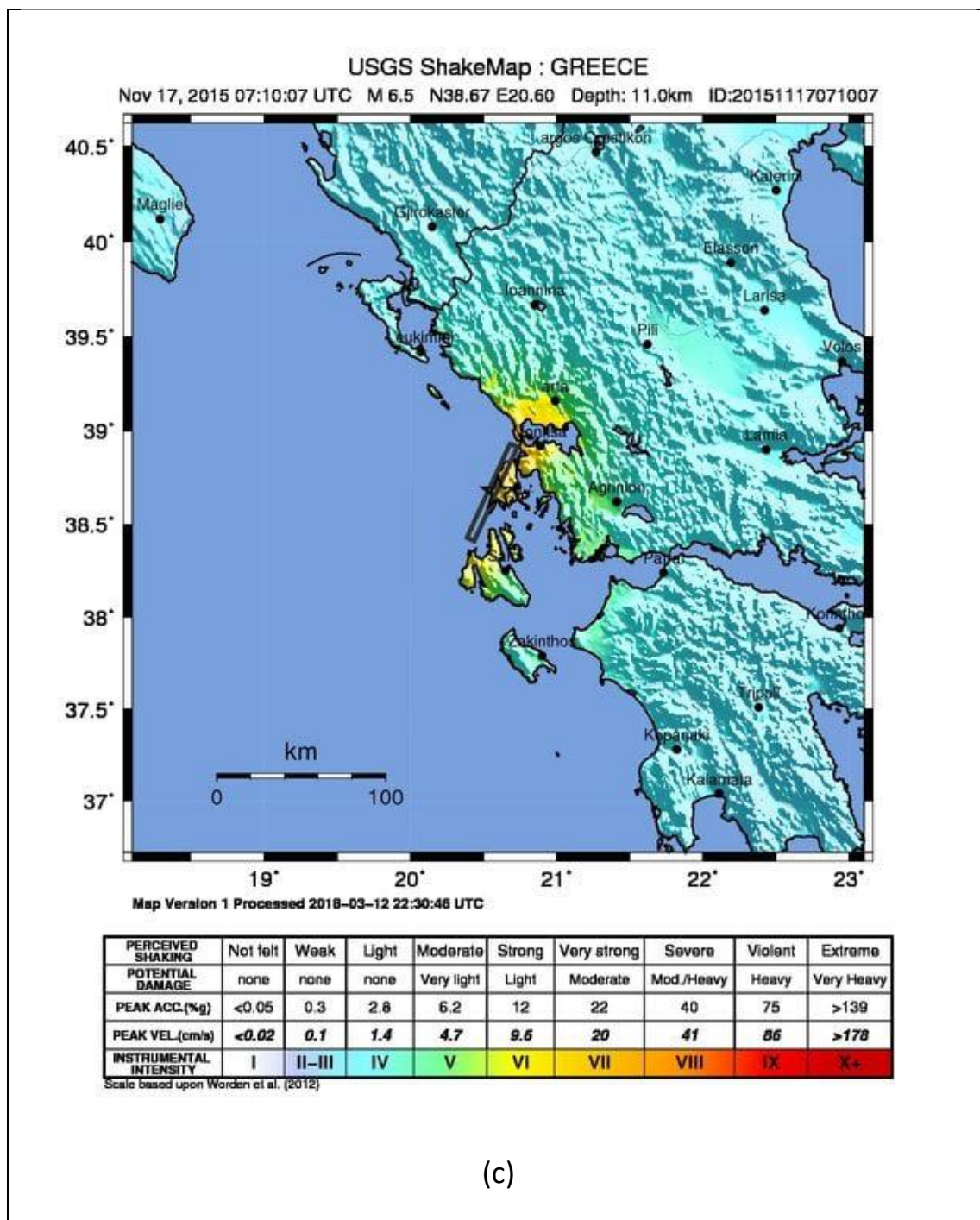


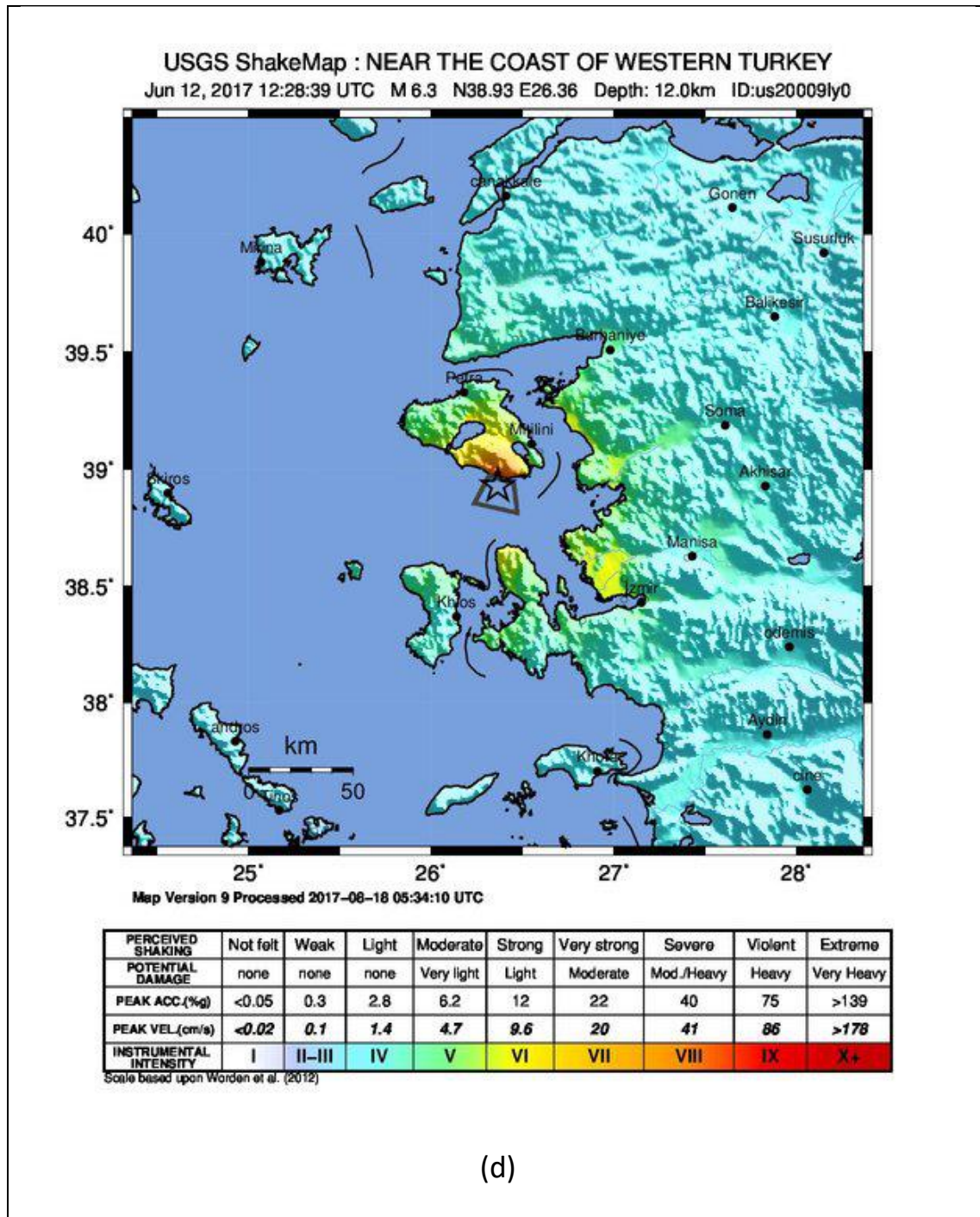
Supp. Figure 3. (a) Earthquake Epicenter of the Earthquake of Kalamata 1997 following GHEAD website of ITSAK, in the following link [GHEAD](#); (b) Earthquake Epicenter of the Earthquake of Strofades 1997 following GHEAD website of ITSAK, in the following link [GHEAD](#); (c) Earthquake Epicenter of the Earthquake of Athens 1999 following GHEAD website of ITSAK, in the following link [GHEAD](#); (d) Mainshock (red and yellow sphere) and aftershock events of the earthquake sequence of Lefkada 2003, which took place on 14 August 2003. Courtesy of the Department of Geology of the University of Athens in [Geology UOA](#); (e) Mainshock (yellow star) and aftershock events of the earthquake sequence of Kithira, which took place on 8 January 2006. Courtesy of the Department of Geology of the University of Athens in [Geology UOA](#).

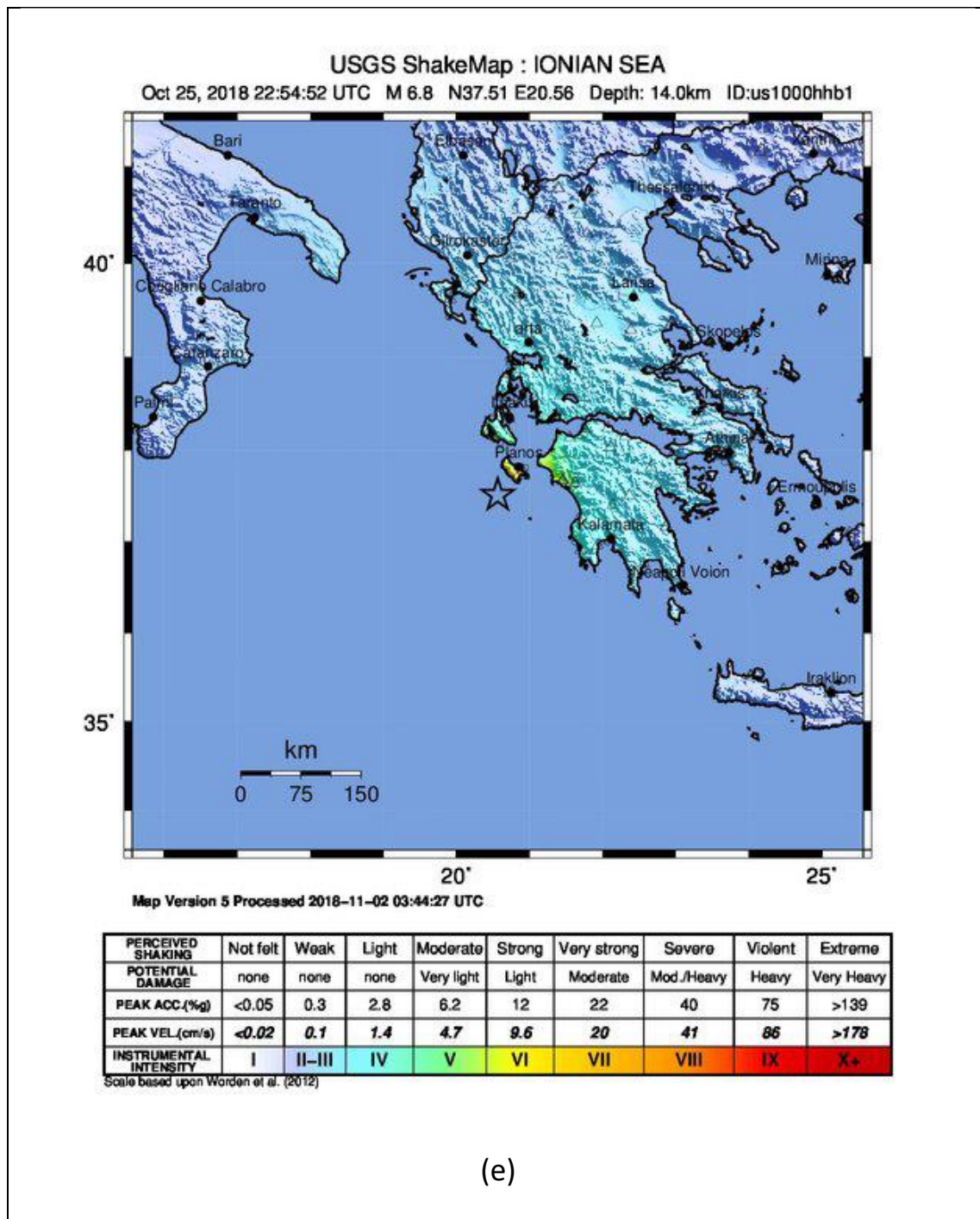




(b)

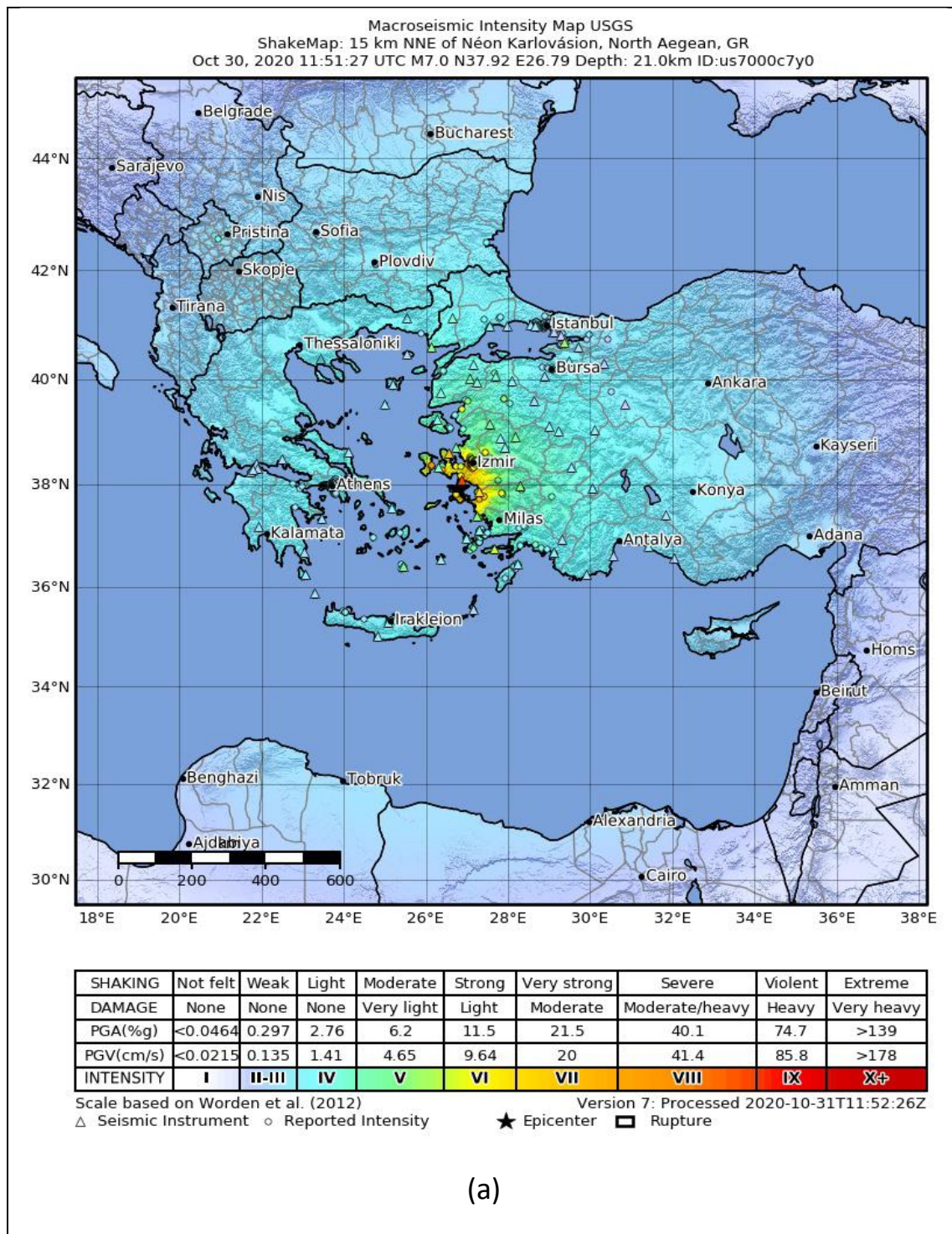


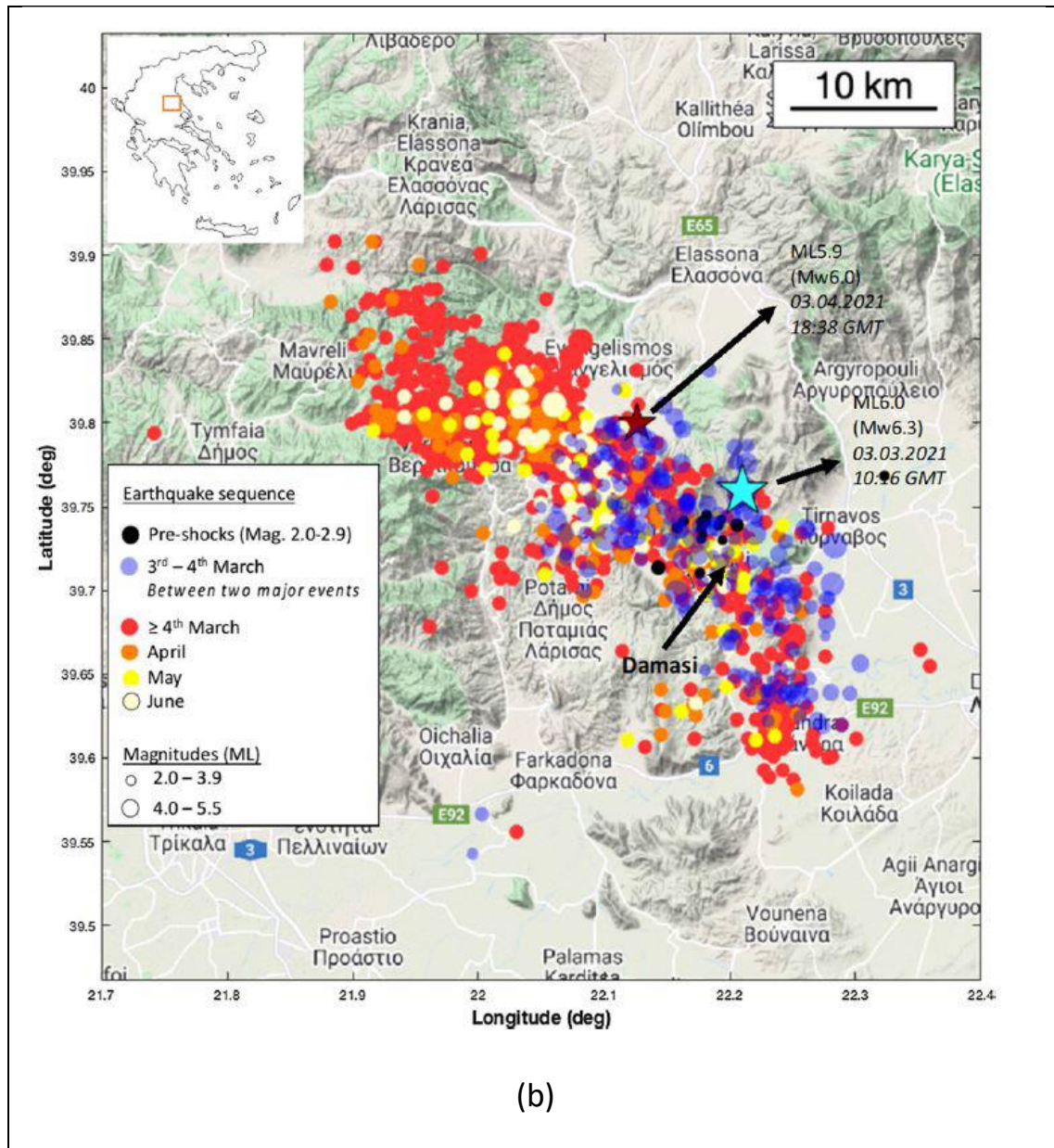




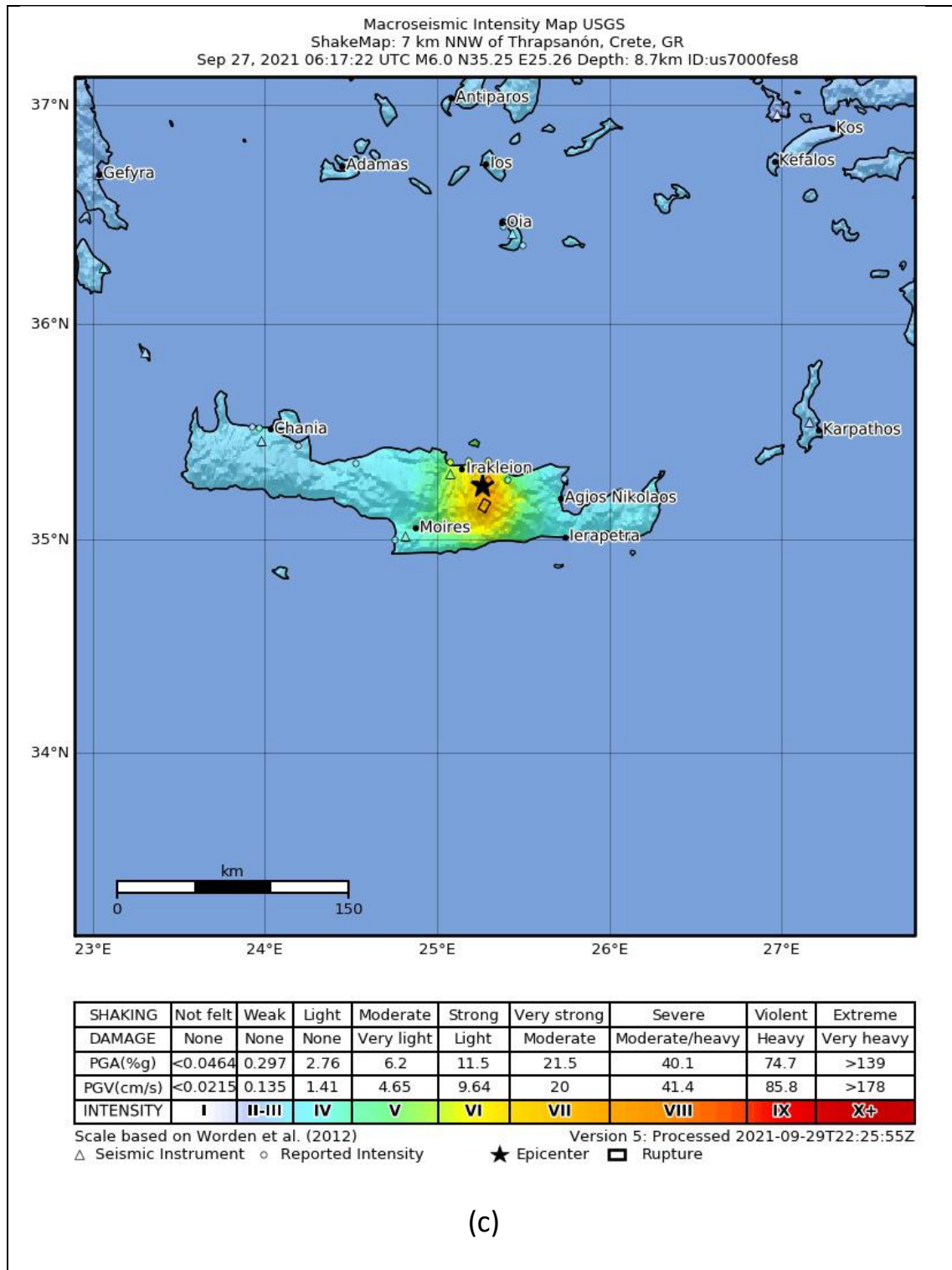
Supp. Figure 4. (a) Earthquake Epicenter of the Earthquake of Kefallonia 2014 mainshock of 26 January 2014 (red star denoted 2014a) and 3 February 2014 (red star denoted 2014b), following Mavroulis et al (2022); (b) Mainshock (star) and aftershock events of the earthquake sequence of Limnos took place on 24 May 2014 based on the United States Geological Survey (USGS) in the hyperlink [USGS](#); (c) Mainshock (star) and aftershock events of the earthquake sequence of Ionian Islands-Leukada City/Vasiliki Leukadas/ Preveza/ Ithaki took place on 17 November 2015 based on the United States Geological Survey (USGS) in the hyperlink [USGS](#); (d) Mainshock (star) and aftershock events of the earthquake sequence of Lesvos took

place on 12 June 2017 based on the United States Geological Survey (USGS) in the hyperlink [USGS](#); (e) Mainshock (star) and aftershock events of the earthquake sequence of Zakynthos took place on 25 October 2018 based on the United States Geological Survey (USGS) in the hyperlink [USGS](#).





(b)



Supp. Figure 5. (a) Mainshock (star) and aftershock events of the earthquake sequence of Samos took place on 30 October 2020 based on the United States Geological Survey (USGS) in the hyperlink [USGS](#); (b) Mainshock (star and a black arrow indicating the mainshock date and magnitude) and aftershock events of the earthquake sequence of Thessalia took place on 03 March 2021 and 04 March 2021 based on Sarhosis et al (2022b); (c) Mainshock (star) and aftershock events of the

earthquake sequence of Arkalochori took place on 27 September 2021 and 28 September 2021 based on the United States Geological Survey (USGS) in the link [USGS](#).

Period (s)	$\xi = 0.02$	$\xi = 0.05$	$\xi = 0.10$
0.00	0.2125	0.2125	0.2125
0.02	0.214	0.21335	0.2127
0.04	0.2145	0.21375	0.213
0.06	0.2155	0.2154	0.2153
0.08	0.2162	0.21605	0.2159
0.10	0.2167	0.21655	0.2164
0.12	0.2178	0.21765	0.2175
0.14	0.2189	0.2187	0.2185
0.16	0.2195	0.2185	0.2175
0.18	0.22	0.219	0.218
0.20	0.217	0.216	0.215
0.22	0.214	0.213	0.212
0.24	0.213	0.2019	0.1908
0.26	0.211	0.20075	0.1905
0.28	0.208	0.19845	0.1889
0.30	0.205	0.19495	0.1849
0.32	0.203	0.19265	0.1823
0.34	0.201	0.19	0.179
0.36	0.2	0.1875	0.175
0.38	0.199	0.1845	0.17
0.40	0.197	0.178	0.159
0.42	0.196	0.1745	0.153
0.44	0.195	0.1704	0.1458
0.46	0.194	0.165	0.136
0.48	0.193	0.16	0.127
0.50	0.192	0.155	0.118
0.52	0.19	0.1475	0.105
0.54	0.188	0.144	0.1
0.56	0.186	0.138	0.09
0.58	0.184	0.1365	0.089
0.60	0.183	0.1345	0.086
0.62	0.181	0.1315	0.082
0.64	0.18	0.1295	0.079
0.66	0.171	0.122	0.073
0.68	0.164	0.1175	0.071
0.70	0.158	0.114	0.07
0.72	0.151	0.1095	0.068
0.74	0.144	0.1048	0.0656
0.76	0.137	0.1005	0.064
0.78	0.128	0.0955	0.063
0.80	0.117	0.08955	0.0621
0.82	0.105	0.08275	0.0605
0.84	0.094	0.07695	0.0599
0.86	0.091	0.07435	0.0577
0.88	0.088	0.07265	0.0573
0.90	0.084	0.07045	0.0569
0.92	0.081	0.06885	0.0567
0.94	0.075	0.0655	0.056
0.96	0.07	0.06295	0.0559

0.98	0.067	0.06135	0.0557
1.00	0.0625	0.059	0.0555
1.02	0.05425	0.05432	0.05439
1.04	0.05314	0.05321	0.05328
1.06	0.05203	0.0521	0.05217
1.08	0.05092	0.05099	0.05106
1.10	0.04981	0.04988	0.04995
1.12	0.0487	0.04877	0.04884
1.14	0.04759	0.04766	0.04773
1.16	0.04648	0.04655	0.04662
1.18	0.04537	0.04544	0.04551
1.20	0.04426	0.04433	0.0444
1.22	0.04315	0.04322	0.04329
1.24	0.04204	0.04211	0.04218
1.26	0.04093	0.041	0.04107
1.28	0.03982	0.03989	0.03996
1.30	0.03871	0.03878	0.03885
1.32	0.0376	0.03767	0.03774
1.34	0.03649	0.03656	0.03663
1.36	0.03538	0.03545	0.03552
1.38	0.03427	0.03434	0.03441
1.40	0.03316	0.03323	0.0333
1.42	0.03205	0.03212	0.03219
1.44	0.03094	0.03101	0.03108
1.46	0.02983	0.0299	0.02997
1.48	0.02872	0.02879	0.02886
1.50	0.02761	0.02768	0.02775
1.52	0.0265	0.02657	0.02664
1.54	0.02539	0.02546	0.02553
1.56	0.02428	0.02435	0.02442
1.58	0.02317	0.02324	0.02331
1.60	0.02206	0.02213	0.0222
1.62	0.02095	0.02102	0.02109
1.64	0.01984	0.01991	0.01998
1.66	0.01873	0.0188	0.01887
1.68	0.01762	0.01769	0.01776
1.70	0.01651	0.01658	0.01665
1.72	0.0154	0.01547	0.01554
1.74	0.01429	0.01436	0.01443
1.76	0.01318	0.01325	0.01332
1.78	0.01207	0.01214	0.01221
1.80	0.01096	0.01103	0.0111
1.82	0.00985	0.00992	0.00999
1.84	0.00874	0.00881	0.00888
1.86	0.00763	0.0077	0.00777
1.88	0.00652	0.00659	0.00666
1.90	0.00541	0.00548	0.00555
1.92	0.0043	0.00437	0.00444
1.94	0.00319	0.00326	0.00333
1.96	0.00208	0.00215	0.00222

1.98	0.00097	0.00104	0.00111
2.00	0	0	0

Supp. Table 1. Spectral acceleration values, in g, for the East-West directional Array and earthquake moment of 5.5 R.

Period (s)	$\xi = 0.02$	$\xi = 0.05$	$\xi = 0.10$
0.00	0.21	0.21	0.21
0.02	0.2105	0.210225	0.20995
0.04	0.211	0.21045	0.2099
0.06	0.212	0.2109	0.2098
0.08	0.213	0.21135	0.2097
0.10	0.214	0.2117	0.2094
0.12	0.215	0.21205	0.2091
0.14	0.21525	0.21215	0.20905
0.16	0.2155	0.21225	0.209
0.18	0.21575	0.2123	0.20885
0.20	0.216	0.21235	0.2087
0.22	0.21635	0.212475	0.2086
0.24	0.2167	0.2126	0.2085
0.26	0.2169	0.2126	0.2083
0.28	0.2171	0.2126	0.2081
0.30	0.21725	0.212575	0.2079
0.32	0.2174	0.21255	0.2077
0.34	0.21755	0.212525	0.2075
0.36	0.2177	0.2125	0.2073
0.38	0.21785	0.212475	0.2071
0.40	0.218	0.21245	0.2069
0.42	0.21815	0.212475	0.2068
0.44	0.2183	0.2125	0.2067
0.46	0.2184	0.21245	0.2065
0.48	0.2185	0.2124	0.2063
0.50	0.2188	0.2124	0.206
0.52	0.2191	0.2124	0.2057
0.54	0.21925	0.212425	0.2056
0.56	0.2194	0.21245	0.2055
0.58	0.21955	0.212475	0.2054
0.60	0.2197	0.2125	0.2053
0.62	0.2198	0.2125	0.2052
0.64	0.2199	0.2125	0.2051
0.66	0.21995	0.2125	0.20505
0.68	0.22	0.2125	0.205
0.70	0.215	0.2025	0.19
0.72	0.205	0.1885	0.172
0.74	0.199	0.17	0.141
0.76	0.195	0.15	0.105
0.78	0.188	0.1415	0.095
0.80	0.177	0.135	0.093
0.82	0.161	0.126	0.091
0.84	0.153	0.12	0.087
0.86	0.141	0.1125	0.084
0.88	0.13	0.10665	0.0833
0.90	0.119	0.10085	0.0827
0.92	0.1	0.0912	0.0824
0.94	0.098	0.08995	0.0819
0.96	0.091	0.0859	0.0808

0.98	0.084	0.0795	0.075
1.00	0.079	0.0745	0.07
1.02	0.07742	0.07301	0.0686
1.04	0.07584	0.07152	0.0672
1.06	0.07426	0.07003	0.0658
1.08	0.07268	0.06854	0.0644
1.10	0.0711	0.06705	0.063
1.12	0.06952	0.06556	0.0616
1.14	0.06794	0.06407	0.0602
1.16	0.06636	0.06258	0.0588
1.18	0.06478	0.06109	0.0574
1.20	0.0632	0.0596	0.056
1.22	0.06162	0.05811	0.0546
1.24	0.06004	0.05662	0.0532
1.26	0.05846	0.05513	0.0518
1.28	0.05688	0.05364	0.0504
1.30	0.0553	0.05215	0.049
1.32	0.05372	0.05066	0.0476
1.34	0.05214	0.04917	0.0462
1.36	0.05056	0.04768	0.0448
1.38	0.04898	0.04619	0.0434
1.40	0.0474	0.0447	0.042
1.42	0.04582	0.04321	0.0406
1.44	0.04424	0.04172	0.0392
1.46	0.04266	0.04023	0.0378
1.48	0.04108	0.03874	0.0364
1.50	0.0395	0.03725	0.035
1.52	0.03792	0.03576	0.0336
1.54	0.03634	0.03427	0.0322
1.56	0.03476	0.03278	0.0308
1.58	0.03318	0.03129	0.0294
1.60	0.0316	0.0298	0.028
1.62	0.03002	0.02831	0.0266
1.64	0.02844	0.02682	0.0252
1.66	0.02686	0.02533	0.0238
1.68	0.02528	0.02384	0.0224
1.70	0.0237	0.02235	0.021
1.72	0.02212	0.02086	0.0196
1.74	0.02054	0.01937	0.0182
1.76	0.01896	0.01788	0.0168
1.78	0.01738	0.01639	0.0154
1.80	0.0158	0.0149	0.014
1.82	0.01422	0.01341	0.0126
1.84	0.01264	0.01192	0.0112
1.86	0.01106	0.01043	0.0098
1.88	0.00948	0.00894	0.0084
1.90	0.0079	0.00745	0.007
1.92	0.00632	0.00596	0.0056
1.94	0.00474	0.00447	0.0042
1.96	0.00316	0.00298	0.0028

1.98	0.00158	0.00149	0.0014
2.00	0	0	0

Supp. Table 2. Spectral acceleration values, in g, for the East-West directional Array and earthquake moment of 6.0 R.

Period (s)	$\xi = 0.02$	$\xi = 0.05$	$\xi = 0.10$
0.00	0.0875	0.0875	0.0875
0.02	0.08825	0.088	0.08775
0.04	0.089	0.0885	0.088
0.06	0.091	0.08975	0.0885
0.08	0.093	0.091	0.089
0.10	0.094	0.09225	0.0905
0.12	0.095	0.0935	0.092
0.14	0.0915	0.09025	0.089
0.16	0.088	0.087	0.086
0.18	0.087	0.08605	0.0851
0.20	0.086	0.0851	0.0842
0.22	0.08485	0.0843	0.08375
0.24	0.0837	0.0835	0.0833
0.26	0.083	0.0826	0.0822
0.28	0.0823	0.0817	0.0811
0.30	0.08155	0.0808	0.08005
0.32	0.0808	0.0799	0.079
0.34	0.08025	0.0789	0.07755
0.36	0.0797	0.0779	0.0761
0.38	0.0792	0.077575	0.07595
0.40	0.0787	0.07725	0.0758
0.42	0.0781	0.076575	0.07505
0.44	0.0775	0.0759	0.0743
0.46	0.07675	0.075425	0.0741
0.48	0.076	0.07495	0.0739
0.50	0.0755	0.074625	0.07375
0.52	0.075	0.0743	0.0736
0.54	0.0746	0.073975	0.07335
0.56	0.0742	0.07365	0.0731
0.58	0.07345	0.0732	0.07295
0.60	0.0727	0.07275	0.0728
0.62	0.0721	0.071725	0.07135
0.64	0.0715	0.0707	0.0699
0.66	0.0704	0.068	0.0656
0.68	0.0693	0.0653	0.0613
0.70	0.06855	0.064575	0.0606
0.72	0.0678	0.06385	0.0599
0.74	0.06695	0.062225	0.0575
0.76	0.0661	0.0606	0.0551
0.78	0.0649	0.0587	0.0525
0.80	0.0637	0.0568	0.0499
0.82	0.0629	0.055325	0.04775
0.84	0.0621	0.05385	0.0456
0.86	0.0604	0.052375	0.04435
0.88	0.0587	0.0509	0.0431
0.90	0.05795	0.049725	0.0415
0.92	0.0572	0.04855	0.0399
0.94	0.0557	0.04725	0.0388
0.96	0.0542	0.04595	0.0377

0.98	0.05315	0.045025	0.0369
1.00	0.0521	0.0441	0.0361
1.02	0.05145	0.0435	0.03555
1.04	0.0508	0.0429	0.035
1.06	0.04935	0.0409	0.03245
1.08	0.0479	0.0389	0.0299
1.10	0.0466	0.0377	0.0288
1.12	0.0453	0.0365	0.0277
1.14	0.04435	0.035475	0.0266
1.16	0.0434	0.03445	0.0255
1.18	0.04265	0.03305	0.02345
1.20	0.0419	0.03165	0.0214
1.22	0.04045	0.03085	0.02125
1.24	0.039	0.03005	0.0211
1.26	0.0383	0.02965	0.021
1.28	0.0376	0.02925	0.0209
1.30	0.036525714	0.028414286	0.020302857
1.32	0.035451429	0.027578571	0.019705714
1.34	0.034377143	0.026742857	0.019108571
1.36	0.033302857	0.025907143	0.018511429
1.38	0.032228571	0.025071429	0.017914286
1.40	0.031154286	0.024235714	0.017317143
1.42	0.03008	0.0234	0.01672
1.44	0.029005714	0.022564286	0.016122857
1.46	0.027931429	0.021728571	0.015525714
1.48	0.026857143	0.020892857	0.014928571
1.50	0.025782857	0.020057143	0.014331429
1.52	0.024708571	0.019221429	0.013734286
1.54	0.023634286	0.018385714	0.013137143
1.56	0.02256	0.01755	0.01254
1.58	0.021485714	0.016714286	0.011942857
1.60	0.020411429	0.015878571	0.011345714
1.62	0.019337143	0.015042857	0.010748571
1.64	0.018262857	0.014207143	0.010151429
1.66	0.017188571	0.013371429	0.009554286
1.68	0.016114286	0.012535714	0.008957143
1.70	0.01504	0.0117	0.00836
1.72	0.013965714	0.010864286	0.007762857
1.74	0.012891429	0.010028571	0.007165714
1.76	0.011817143	0.009192857	0.006568571
1.78	0.010742857	0.008357143	0.005971429
1.80	0.009668571	0.007521429	0.005374286
1.82	0.008594286	0.006685714	0.004777143
1.84	0.00752	0.00585	0.00418
1.86	0.006445714	0.005014286	0.003582857
1.88	0.005371429	0.004178571	0.002985714
1.90	0.004297143	0.003342857	0.002388571
1.92	0.003222857	0.002507143	0.001791429
1.94	0.002148571	0.001671429	0.001194286
1.96	0.001074286	0.000835714	0.000597143

1.98	-2.08167E-17	-1.34441E-17	-6.07153E-18
2.00	0	0	0

Supp. Table 3. Spectral acceleration values, in g, for the East-West directional Array and earthquake moment of 6.5 R.

Period (s)	$\xi = 0.02$	$\xi = 0.05$	$\xi = 0.10$
0.00	0.16	0.16	0.16
0.02	0.1613714	0.1609143	0.1604571
0.04	0.1627429	0.1618286	0.1609143
0.06	0.1664	0.1641143	0.1618286
0.08	0.1700571	0.1664	0.1627429
0.10	0.1718857	0.1686857	0.1654857
0.12	0.1737143	0.1709714	0.1682286
0.14	0.1673143	0.1650286	0.1627429
0.16	0.1609143	0.1590857	0.1572571
0.18	0.1590857	0.1573486	0.1556114
0.20	0.1572571	0.1556114	0.1539657
0.22	0.1551543	0.1541486	0.1531429
0.24	0.1530514	0.1526857	0.15232
0.26	0.1517714	0.15104	0.1503086
0.28	0.1504914	0.1493943	0.1482971
0.30	0.14912	0.1477486	0.1463771
0.32	0.1477486	0.1461029	0.1444571
0.34	0.1467429	0.1442743	0.1418057
0.36	0.1457371	0.1424457	0.1391543
0.38	0.1448229	0.1418514	0.13888
0.40	0.1439086	0.1412571	0.1386057
0.42	0.1428114	0.1400229	0.1372343
0.44	0.1417143	0.1387886	0.1358629
0.46	0.1403429	0.13792	0.1354971
0.48	0.1389714	0.1370514	0.1351314
0.50	0.1380571	0.1364571	0.1348571
0.52	0.1371429	0.1358629	0.1345829
0.54	0.1364114	0.1352686	0.1341257
0.56	0.13568	0.1346743	0.1336686
0.58	0.1343086	0.1338514	0.1333943
0.60	0.1329371	0.1330286	0.13312
0.62	0.13184	0.1311543	0.1304686
0.64	0.1307429	0.12928	0.1278171
0.66	0.1287314	0.1243429	0.1199543
0.68	0.12672	0.1194057	0.1120914
0.70	0.1253486	0.11808	0.1108114
0.72	0.1239771	0.1167543	0.1095314
0.74	0.1224229	0.1137829	0.1051429
0.76	0.1208686	0.1108114	0.1007543
0.78	0.1186743	0.1073371	0.096
0.80	0.11648	0.1038629	0.0912457
0.82	0.1150171	0.1011657	0.0873143
0.84	0.1135543	0.0984686	0.0833829
0.86	0.1104457	0.0957714	0.0810971
0.88	0.1073371	0.0930743	0.0788114
0.90	0.1059657	0.0909257	0.0758857
0.92	0.1045943	0.0887771	0.07296
0.94	0.1018514	0.0864	0.0709486
0.96	0.0991086	0.0840229	0.0689371

0.98	0.0971886	0.0823314	0.0674743
1.00	0.0952686	0.08064	0.0660114
1.02	0.09408	0.0795429	0.0650057
1.04	0.0928914	0.0784457	0.064
1.06	0.09024	0.0747886	0.0593371
1.08	0.0875886	0.0711314	0.0546743
1.10	0.0852114	0.0689371	0.0526629
1.12	0.0828343	0.0667429	0.0506514
1.14	0.0810971	0.0648686	0.04864
1.16	0.07936	0.0629943	0.0466286
1.18	0.0779886	0.0604343	0.04288
1.20	0.0766171	0.0578743	0.0391314
1.22	0.0739657	0.0564114	0.0388571
1.24	0.0713143	0.0549486	0.0385829
1.26	0.0700343	0.0542171	0.0384
1.28	0.0687543	0.0534857	0.0382171
1.30	0.0667899	0.0519576	0.0371252
1.32	0.0648255	0.0504294	0.0360333
1.34	0.0628611	0.0489012	0.0349414
1.36	0.0608967	0.0473731	0.0338495
1.38	0.0589322	0.0458449	0.0327576
1.40	0.0569678	0.0443167	0.0316656
1.42	0.0550034	0.0427886	0.0305737
1.44	0.053039	0.0412604	0.0294818
1.46	0.0510746	0.0397322	0.0283899
1.48	0.0491102	0.0382041	0.027298
1.50	0.0471458	0.0366759	0.026206
1.52	0.0451814	0.0351478	0.0251141
1.54	0.043217	0.0336196	0.0240222
1.56	0.0412526	0.0320914	0.0229303
1.58	0.0392882	0.0305633	0.0218384
1.60	0.0373238	0.0290351	0.0207464
1.62	0.0353593	0.0275069	0.0196545
1.64	0.0333949	0.0259788	0.0185626
1.66	0.0314305	0.0244506	0.0174707
1.68	0.0294661	0.0229224	0.0163788
1.70	0.0275017	0.0213943	0.0152869
1.72	0.0255373	0.0198661	0.0141949
1.74	0.0235729	0.018338	0.013103
1.76	0.0216085	0.0168098	0.0120111
1.78	0.0196441	0.0152816	0.0109192
1.80	0.0176797	0.0137535	0.0098273
1.82	0.0157153	0.0122253	0.0087353
1.84	0.0137509	0.0106971	0.0076434
1.86	0.0117864	0.009169	0.0065515
1.88	0.009822	0.0076408	0.0054596
1.90	0.0078576	0.0061127	0.0043677
1.92	0.0058932	0.0045845	0.0032758
1.94	0.0039288	0.0030563	0.0021838
1.96	0.0019644	0.0015282	0.0010919

1.98	-3.81E-17	-2.46E-17	-1.11E-17
2.00	0	0	0

Supp. Table 4. Spectral acceleration values, in g, for the East-West directional Array and earthquake moment of 7.0 R.

Period (s)	$\xi = 0.02$	$\xi = 0.05$	$\xi = 0.10$
0.00	0.137	0.137	0.137
0.02	0.1379	0.1378	0.1377
0.04	0.1383	0.1382	0.1381
0.06	0.13845	0.138325	0.1382
0.08	0.13857	0.138435	0.1383
0.10	0.13864	0.13852	0.1384
0.12	0.13872	0.138635	0.13855
0.14	0.13889	0.13875	0.13861
0.16	0.1391	0.138885	0.13867
0.18	0.1394	0.13906	0.13872
0.20	0.1396	0.139205	0.13881
0.22	0.1398	0.13932	0.13884
0.24	0.1399	0.139445	0.13899
0.26	0.14	0.13955	0.1391
0.28	0.1399	0.13943	0.13896
0.30	0.1397	0.1393	0.1389
0.32	0.1394	0.139085	0.13877
0.34	0.1392	0.138875	0.13855
0.36	0.1391	0.138705	0.13831
0.38	0.13904	0.13852	0.138
0.40	0.139	0.13835	0.1377
0.42	0.137	0.13	0.123
0.44	0.136	0.1275	0.119
0.46	0.133	0.1245	0.116
0.48	0.13	0.121	0.112
0.50	0.128	0.1185	0.109
0.52	0.127	0.115	0.103
0.54	0.123	0.1105	0.098
0.56	0.117	0.106	0.095
0.58	0.113	0.1015	0.09
0.60	0.107	0.094	0.081
0.62	0.099	0.088	0.077
0.64	0.094	0.083	0.072
0.66	0.09	0.0785	0.067
0.68	0.087	0.0735	0.06
0.70	0.08	0.0655	0.051
0.72	0.075	0.06	0.045
0.74	0.071	0.056	0.041
0.76	0.061	0.0485	0.036
0.78	0.053	0.043	0.033
0.80	0.049	0.038	0.027
0.82	0.037	0.028	0.019
0.84	0.032	0.024	0.016
0.86	0.028	0.0205	0.013
0.88	0.023	0.0165	0.01
0.90	0.017	0.01235	0.0077
0.92	0.013	0.01005	0.0071
0.94	0.01	0.00835	0.0067
0.96	0.0089	0.0075	0.0061

0.98	0.0079	0.00645	0.005
1.00	0	0	0
1.02	0	0	0
1.04	0	0	0
1.06	0	0	0
1.08	0	0	0
1.10	0	0	0
1.12	0	0	0
1.14	0	0	0
1.16	0	0	0
1.18	0	0	0
1.20	0	0	0
1.22	0	0	0
1.24	0	0	0
1.26	0	0	0
1.28	0	0	0
1.30	0	0	0
1.32	0	0	0
1.34	0	0	0
1.36	0	0	0
1.38	0	0	0
1.40	0	0	0
1.42	0	0	0
1.44	0	0	0
1.46	0	0	0
1.48	0	0	0
1.50	0	0	0
1.52	0	0	0
1.54	0	0	0
1.56	0	0	0
1.58	0	0	0
1.60	0	0	0
1.62	0	0	0
1.64	0	0	0
1.66	0	0	0
1.68	0	0	0
1.70	0	0	0
1.72	0	0	0
1.74	0	0	0
1.76	0	0	0
1.78	0	0	0
1.80	0	0	0
1.82	0	0	0
1.84	0	0	0
1.86	0	0	0
1.88	0	0	0
1.90	0	0	0
1.92	0	0	0
1.94	0	0	0
1.96	0	0	0

1.98	0	0	0
2.00	0	0	0

Supp. Table 5. Spectral acceleration values, in g, for the North-South directional Array and earthquake moment of 5.5 R.

Period (s)	$\xi = 0.02$	$\xi = 0.05$	$\xi = 0.10$
0.00	0.213	0.213	0.213
0.02	0.213507	0.213228	0.212949
0.04	0.214014	0.213456	0.212899
0.06	0.215029	0.213913	0.212797
0.08	0.216043	0.214369	0.212696
0.10	0.217057	0.214724	0.212391
0.12	0.218071	0.215079	0.212087
0.14	0.218325	0.215181	0.212036
0.16	0.218579	0.215282	0.211986
0.18	0.218832	0.215333	0.211834
0.20	0.219086	0.215384	0.211681
0.22	0.219441	0.21551	0.21158
0.24	0.219796	0.215637	0.211479
0.26	0.219999	0.215637	0.211276
0.28	0.220201	0.215637	0.211073
0.30	0.220354	0.215612	0.21087
0.32	0.220506	0.215586	0.210667
0.34	0.220658	0.215561	0.210464
0.36	0.22081	0.215536	0.210261
0.38	0.220962	0.21551	0.210059
0.40	0.221114	0.215485	0.209856
0.42	0.221266	0.21551	0.209754
0.44	0.221419	0.215536	0.209653
0.46	0.22152	0.215485	0.20945
0.48	0.221621	0.215434	0.209247
0.50	0.221926	0.215434	0.208943
0.52	0.22223	0.215434	0.208639
0.54	0.222382	0.21546	0.208537
0.56	0.222534	0.215485	0.208436
0.58	0.222686	0.21551	0.208334
0.60	0.222839	0.215536	0.208233
0.62	0.22294	0.215536	0.208131
0.64	0.223041	0.215536	0.20803
0.66	0.223092	0.215536	0.207979
0.68	0.223143	0.215536	0.207929
0.70	0.218071	0.205393	0.192714
0.72	0.207929	0.191193	0.174457
0.74	0.201843	0.172429	0.143014
0.76	0.197786	0.152143	0.1065
0.78	0.190686	0.143521	0.096357
0.80	0.179529	0.136929	0.094329
0.82	0.1633	0.1278	0.0923
0.84	0.155186	0.121714	0.088243
0.86	0.143014	0.114107	0.0852
0.88	0.131857	0.108174	0.08449
0.90	0.1207	0.102291	0.083881
0.92	0.101429	0.092503	0.083577
0.94	0.0994	0.091235	0.08307
0.96	0.0923	0.087127	0.081954

0.98	0.0852	0.080636	0.076071
1.00	0.080129	0.075564	0.071
1.02	0.078526	0.074053	0.06958
1.04	0.076923	0.072542	0.06816
1.06	0.075321	0.07103	0.06674
1.08	0.073718	0.069519	0.06532
1.10	0.072116	0.068008	0.0639
1.12	0.070513	0.066497	0.06248
1.14	0.068911	0.064985	0.06106
1.16	0.067308	0.063474	0.05964
1.18	0.065705	0.061963	0.05822
1.20	0.064103	0.060451	0.0568
1.22	0.0625	0.05894	0.05538
1.24	0.060898	0.057429	0.05396
1.26	0.059295	0.055918	0.05254
1.28	0.057693	0.054406	0.05112
1.30	0.05609	0.052895	0.0497
1.32	0.054487	0.051384	0.04828
1.34	0.052885	0.049872	0.04686
1.36	0.051282	0.048361	0.04544
1.38	0.04968	0.04685	0.04402
1.40	0.048077	0.045339	0.0426
1.42	0.046475	0.043827	0.04118
1.44	0.044872	0.042316	0.03976
1.46	0.043269	0.040805	0.03834
1.48	0.041667	0.039293	0.03692
1.50	0.040064	0.037782	0.0355
1.52	0.038462	0.036271	0.03408
1.54	0.036859	0.03476	0.03266
1.56	0.035257	0.033248	0.03124
1.58	0.033654	0.031737	0.02982
1.60	0.032051	0.030226	0.0284
1.62	0.030449	0.028714	0.02698
1.64	0.028846	0.027203	0.02556
1.66	0.027244	0.025692	0.02414
1.68	0.025641	0.024181	0.02272
1.70	0.024039	0.022669	0.0213
1.72	0.022436	0.021158	0.01988
1.74	0.020833	0.019647	0.01846
1.76	0.019231	0.018135	0.01704
1.78	0.017628	0.016624	0.01562
1.80	0.016026	0.015113	0.0142
1.82	0.014423	0.013602	0.01278
1.84	0.012821	0.01209	0.01136
1.86	0.011218	0.010579	0.00994
1.88	0.009615	0.009068	0.00852
1.90	0.008013	0.007556	0.0071
1.92	0.00641	0.006045	0.00568
1.94	0.004808	0.004534	0.00426
1.96	0.003205	0.003023	0.00284

1.98	0.001603	0.001511	0.00142
2.00	0	0	0

Supp. Table 6. Spectral acceleration values, in g, for the North-South directional Array and earthquake moment of 6.0 R.

Period (s)	$\xi = 0.02$	$\xi = 0.05$	$\xi = 0.10$
0.00	0.1	0.1	0.1
0.02	0.100857	0.100571	0.100286
0.04	0.101714	0.101143	0.100571
0.06	0.104	0.102571	0.101143
0.08	0.106286	0.104	0.101714
0.10	0.107429	0.105429	0.103429
0.12	0.108571	0.106857	0.105143
0.14	0.104571	0.103143	0.101714
0.16	0.100571	0.099429	0.098286
0.18	0.099429	0.098343	0.097257
0.20	0.098286	0.097257	0.096229
0.22	0.096971	0.096343	0.095714
0.24	0.095657	0.095429	0.0952
0.26	0.094857	0.0944	0.093943
0.28	0.094057	0.093371	0.092686
0.30	0.0932	0.092343	0.091486
0.32	0.092343	0.091314	0.090286
0.34	0.091714	0.090171	0.088629
0.36	0.091086	0.089029	0.086971
0.38	0.090514	0.088657	0.0868
0.40	0.089943	0.088286	0.086629
0.42	0.089257	0.087514	0.085771
0.44	0.088571	0.086743	0.084914
0.46	0.087714	0.0862	0.084686
0.48	0.086857	0.085657	0.084457
0.50	0.086286	0.085286	0.084286
0.52	0.085714	0.084914	0.084114
0.54	0.085257	0.084543	0.083829
0.56	0.0848	0.084171	0.083543
0.58	0.083943	0.083657	0.083371
0.60	0.083086	0.083143	0.0832
0.62	0.0824	0.081971	0.081543
0.64	0.081714	0.0808	0.079886
0.66	0.080457	0.077714	0.074971
0.68	0.0792	0.074629	0.070057
0.70	0.078343	0.0738	0.069257
0.72	0.077486	0.072971	0.068457
0.74	0.076514	0.071114	0.065714
0.76	0.075543	0.069257	0.062971
0.78	0.074171	0.067086	0.06
0.80	0.0728	0.064914	0.057029
0.82	0.071886	0.063229	0.054571
0.84	0.070971	0.061543	0.052114
0.86	0.069029	0.059857	0.050686
0.88	0.067086	0.058171	0.049257
0.90	0.066229	0.056829	0.047429
0.92	0.065371	0.055486	0.0456
0.94	0.063657	0.054	0.044343
0.96	0.061943	0.052514	0.043086

0.98	0.060743	0.051457	0.042171
1.00	0.059543	0.0504	0.041257
1.02	0.0588	0.049714	0.040629
1.04	0.058057	0.049029	0.04
1.06	0.0564	0.046743	0.037086
1.08	0.054743	0.044457	0.034171
1.10	0.053257	0.043086	0.032914
1.12	0.051771	0.041714	0.031657
1.14	0.050686	0.040543	0.0304
1.16	0.0496	0.039371	0.029143
1.18	0.048743	0.037771	0.0268
1.20	0.047886	0.036171	0.024457
1.22	0.046229	0.035257	0.024286
1.24	0.044571	0.034343	0.024114
1.26	0.043771	0.033886	0.024
1.28	0.042971	0.033429	0.023886
1.30	0.041744	0.032473	0.023203
1.32	0.040516	0.031518	0.022521
1.34	0.039288	0.030563	0.021838
1.36	0.03806	0.029608	0.021156
1.38	0.036833	0.028653	0.020473
1.40	0.035605	0.027698	0.019791
1.42	0.034377	0.026743	0.019109
1.44	0.033149	0.025788	0.018426
1.46	0.031922	0.024833	0.017744
1.48	0.030694	0.023878	0.017061
1.50	0.029466	0.022922	0.016379
1.52	0.028238	0.021967	0.015696
1.54	0.027011	0.021012	0.015014
1.56	0.025783	0.020057	0.014331
1.58	0.024555	0.019102	0.013649
1.60	0.023327	0.018147	0.012967
1.62	0.0221	0.017192	0.012284
1.64	0.020872	0.016237	0.011602
1.66	0.019644	0.015282	0.010919
1.68	0.018416	0.014327	0.010237
1.70	0.017189	0.013371	0.009554
1.72	0.015961	0.012416	0.008872
1.74	0.014733	0.011461	0.008189
1.76	0.013505	0.010506	0.007507
1.78	0.012278	0.009551	0.006824
1.80	0.01105	0.008596	0.006142
1.82	0.009822	0.007641	0.00546
1.84	0.008594	0.006686	0.004777
1.86	0.007367	0.005731	0.004095
1.88	0.006139	0.004776	0.003412
1.90	0.004911	0.00382	0.00273
1.92	0.003683	0.002865	0.002047
1.94	0.002456	0.00191	0.001365
1.96	0.001228	0.000955	0.000682

1.98	-2.4E-17	-1.5E-17	-6.9E-18
2.00	0	0	0

Supp. Table 7. Spectral acceleration values, in g, for the North-South directional Array and earthquake moment of 6.5 R.

Period (s)	$\xi = 0.02$	$\xi = 0.05$	$\xi = 0.10$
0.00	0.105	0.105	0.105
0.02	0.1059	0.1056	0.1053
0.04	0.1068	0.1062	0.1056
0.06	0.1092	0.1077	0.1062
0.08	0.1116	0.1092	0.1068
0.10	0.1128	0.1107	0.1086
0.12	0.114	0.1122	0.1104
0.14	0.1098	0.1083	0.1068
0.16	0.1056	0.1044	0.1032
0.18	0.1044	0.10326	0.10212
0.20	0.1032	0.10212	0.10104
0.22	0.10182	0.10116	0.1005
0.24	0.10044	0.1002	0.09996
0.26	0.0996	0.09912	0.09864
0.28	0.09876	0.09804	0.09732
0.30	0.09786	0.09696	0.09606
0.32	0.09696	0.09588	0.0948
0.34	0.0963	0.09468	0.09306
0.36	0.09564	0.09348	0.09132
0.38	0.09504	0.09309	0.09114
0.40	0.09444	0.0927	0.09096
0.42	0.09372	0.09189	0.09006
0.44	0.093	0.09108	0.08916
0.46	0.0921	0.09051	0.08892
0.48	0.0912	0.08994	0.08868
0.50	0.0906	0.08955	0.0885
0.52	0.09	0.08916	0.08832
0.54	0.08952	0.08877	0.08802
0.56	0.08904	0.08838	0.08772
0.58	0.08814	0.08784	0.08754
0.60	0.08724	0.0873	0.08736
0.62	0.08652	0.08607	0.08562
0.64	0.0858	0.08484	0.08388
0.66	0.08448	0.0816	0.07872
0.68	0.08316	0.07836	0.07356
0.70	0.08226	0.07749	0.07272
0.72	0.08136	0.07662	0.07188
0.74	0.08034	0.07467	0.069
0.76	0.07932	0.07272	0.06612
0.78	0.07788	0.07044	0.063
0.80	0.07644	0.06816	0.05988
0.82	0.07548	0.06639	0.0573
0.84	0.07452	0.06462	0.05472
0.86	0.07248	0.06285	0.05322
0.88	0.07044	0.06108	0.05172
0.90	0.06954	0.05967	0.0498

0.92	0.06864	0.05826	0.04788
0.94	0.06684	0.0567	0.04656
0.96	0.06504	0.05514	0.04524
0.98	0.06378	0.05403	0.04428
1.00	0.06252	0.05292	0.04332
1.02	0.06174	0.0522	0.04266
1.04	0.06096	0.05148	0.042
1.06	0.05922	0.04908	0.03894
1.08	0.05748	0.04668	0.03588
1.10	0.05592	0.04524	0.03456
1.12	0.05436	0.0438	0.03324
1.14	0.05322	0.04257	0.03192
1.16	0.05208	0.04134	0.0306
1.18	0.05118	0.03966	0.02814
1.20	0.05028	0.03798	0.02568
1.22	0.04854	0.03702	0.0255
1.24	0.0468	0.03606	0.02532
1.26	0.04596	0.03558	0.0252
1.28	0.04512	0.0351	0.02508
1.30	0.043831	0.034097	0.024363
1.32	0.042542	0.033094	0.023647
1.34	0.041253	0.032091	0.02293
1.36	0.039963	0.031089	0.022214
1.38	0.038674	0.030086	0.021497
1.40	0.037385	0.029083	0.020781
1.42	0.036096	0.02808	0.020064
1.44	0.034807	0.027077	0.019347
1.46	0.033518	0.026074	0.018631
1.48	0.032229	0.025071	0.017914
1.50	0.030939	0.024069	0.017198
1.52	0.02965	0.023066	0.016481
1.54	0.028361	0.022063	0.015765
1.56	0.027072	0.02106	0.015048
1.58	0.025783	0.020057	0.014331
1.60	0.024494	0.019054	0.013615
1.62	0.023205	0.018051	0.012898
1.64	0.021915	0.017049	0.012182
1.66	0.020626	0.016046	0.011465
1.68	0.019337	0.015043	0.010749
1.70	0.018048	0.01404	0.010032
1.72	0.016759	0.013037	0.009315
1.74	0.01547	0.012034	0.008599
1.76	0.014181	0.011031	0.007882
1.78	0.012891	0.010029	0.007166
1.80	0.011602	0.009026	0.006449
1.82	0.010313	0.008023	0.005733
1.84	0.009024	0.00702	0.005016
1.86	0.007735	0.006017	0.004299
1.88	0.006446	0.005014	0.003583
1.90	0.005157	0.004011	0.002866

1.92	0.003867	0.003009	0.00215
1.94	0.002578	0.002006	0.001433
1.96	0.001289	0.001003	0.000717
1.98	-2.5E-17	-1.6E-17	-7.3E-18
2.00	0	0	0

Supp. Table 8. Spectral acceleration values, in g, for the North-South directional Array and earthquake moment of 7.0 R.

Period (s)	$\xi = 0.02$	$\xi = 0.05$	$\xi = 0.10$
0.00	0.15	0.15	0.15
0.02	0.151059	0.1506	0.150141
0.04	0.151412	0.150882	0.150353
0.06	0.152118	0.152047	0.151976
0.08	0.152612	0.152506	0.1524
0.10	0.152965	0.152859	0.152753
0.12	0.153741	0.153635	0.153529
0.14	0.154518	0.154376	0.154235
0.16	0.154941	0.154235	0.153529
0.18	0.155294	0.154588	0.153882
0.20	0.153176	0.152471	0.151765
0.22	0.151059	0.150353	0.149647
0.24	0.150353	0.142518	0.134682
0.26	0.148941	0.141706	0.134471
0.28	0.146824	0.140082	0.133341
0.30	0.144706	0.137612	0.130518
0.32	0.143294	0.135988	0.128682
0.34	0.141882	0.134118	0.126353
0.36	0.141176	0.132353	0.123529
0.38	0.140471	0.130235	0.12
0.40	0.139059	0.125647	0.112235
0.42	0.138353	0.123176	0.108
0.44	0.137647	0.120282	0.102918
0.46	0.136941	0.116471	0.096
0.48	0.136235	0.112941	0.089647
0.50	0.135529	0.109412	0.083294
0.52	0.134118	0.104118	0.074118
0.54	0.132706	0.101647	0.070588
0.56	0.131294	0.097412	0.063529
0.58	0.129882	0.096353	0.062824
0.60	0.129176	0.094941	0.060706
0.62	0.127765	0.092824	0.057882
0.64	0.127059	0.091412	0.055765
0.66	0.120706	0.086118	0.051529
0.68	0.115765	0.082941	0.050118
0.70	0.111529	0.080471	0.049412
0.72	0.106588	0.077294	0.048
0.74	0.101647	0.073976	0.046306
0.76	0.096706	0.070941	0.045176
0.78	0.090353	0.067412	0.044471
0.80	0.082588	0.063212	0.043835
0.82	0.074118	0.058412	0.042706
0.84	0.066353	0.054318	0.042282
0.86	0.064235	0.052482	0.040729
0.88	0.062118	0.051282	0.040447
0.90	0.059294	0.049729	0.040165
0.92	0.057176	0.0486	0.040024
0.94	0.052941	0.046235	0.039529
0.96	0.049412	0.044435	0.039459

0.98	0.047294	0.043306	0.039318
1.00	0.044118	0.041647	0.039176
1.02	0.038294	0.038344	0.038393
1.04	0.037511	0.03756	0.037609
1.06	0.036727	0.036776	0.036826
1.08	0.035944	0.035993	0.036042
1.10	0.03516	0.035209	0.035259
1.12	0.034376	0.034426	0.034475
1.14	0.033593	0.033642	0.033692
1.16	0.032809	0.032859	0.032908
1.18	0.032026	0.032075	0.032125
1.20	0.031242	0.031292	0.031341
1.22	0.030459	0.030508	0.030558
1.24	0.029675	0.029725	0.029774
1.26	0.028892	0.028941	0.028991
1.28	0.028108	0.028158	0.028207
1.30	0.027325	0.027374	0.027424
1.32	0.026541	0.026591	0.02664
1.34	0.025758	0.025807	0.025856
1.36	0.024974	0.025024	0.025073
1.38	0.024191	0.02424	0.024289
1.40	0.023407	0.023456	0.023506
1.42	0.022624	0.022673	0.022722
1.44	0.02184	0.021889	0.021939
1.46	0.021056	0.021106	0.021155
1.48	0.020273	0.020322	0.020372
1.50	0.019489	0.019539	0.019588
1.52	0.018706	0.018755	0.018805
1.54	0.017922	0.017972	0.018021
1.56	0.017139	0.017188	0.017238
1.58	0.016355	0.016405	0.016454
1.60	0.015572	0.015621	0.015671
1.62	0.014788	0.014838	0.014887
1.64	0.014005	0.014054	0.014104
1.66	0.013221	0.013271	0.01332
1.68	0.012438	0.012487	0.012536
1.70	0.011654	0.011704	0.011753
1.72	0.010871	0.01092	0.010969
1.74	0.010087	0.010136	0.010186
1.76	0.009304	0.009353	0.009402
1.78	0.00852	0.008569	0.008619
1.80	0.007736	0.007786	0.007835
1.82	0.006953	0.007002	0.007052
1.84	0.006169	0.006219	0.006268
1.86	0.005386	0.005435	0.005485
1.88	0.004602	0.004652	0.004701
1.90	0.003819	0.003868	0.003918
1.92	0.003035	0.003085	0.003134
1.94	0.002252	0.002301	0.002351
1.96	0.001468	0.001518	0.001567

1.98	0.000685	0.000734	0.000784
2.00	0	0	0

Supp. Table 9. Spectral acceleration values, in g, for the Vertical Z directional Array and earthquake moment of 5.5 R.

Period (s)	$\xi = 0.02$	$\xi = 0.05$	$\xi = 0.10$
0.00	0.1	0.1	0.1
0.02	0.118	0.1155	0.113
0.04	0.126	0.12	0.114
0.06	0.134	0.125	0.116
0.08	0.138	0.128	0.118
0.10	0.14	0.13	0.12
0.12	0.138	0.1245	0.111
0.14	0.133	0.1185	0.104
0.16	0.126	0.112	0.098
0.18	0.119	0.104	0.089
0.20	0.113	0.097	0.081
0.22	0.107	0.092	0.077
0.24	0.098	0.086	0.074
0.26	0.089	0.079	0.069
0.28	0.082	0.0725	0.063
0.30	0.074	0.0665	0.059
0.32	0.066	0.059	0.052
0.34	0.061	0.0545	0.048
0.36	0.056	0.0485	0.041
0.38	0.049	0.0435	0.038
0.40	0.041	0.0375	0.034
0.42	0.035	0.032	0.029
0.44	0.031	0.026	0.021
0.46	0.028	0.0215	0.015
0.48	0.01	0.01	0.01
0.50	0	0	0
0.52	0	0	0
0.54	0	0	0
0.56	0	0	0
0.58	0	0	0
0.60	0	0	0
0.62	0	0	0
0.64	0	0	0
0.66	0	0	0
0.68	0	0	0
0.70	0	0	0
0.72	0	0	0
0.74	0	0	0
0.76	0	0	0
0.78	0	0	0
0.80	0	0	0
0.82	0	0	0
0.84	0	0	0
0.86	0	0	0
0.88	0	0	0
0.90	0	0	0
0.92	0	0	0
0.94	0	0	0
0.96	0	0	0

0.98	0	0	0
1.00	0	0	0
1.02	0	0	0
1.04	0	0	0
1.06	0	0	0
1.08	0	0	0
1.10	0	0	0
1.12	0	0	0
1.14	0	0	0
1.16	0	0	0
1.18	0	0	0
1.20	0	0	0
1.22	0	0	0
1.24	0	0	0
1.26	0	0	0
1.28	0	0	0
1.30	0	0	0
1.32	0	0	0
1.34	0	0	0
1.36	0	0	0
1.38	0	0	0
1.40	0	0	0
1.42	0	0	0
1.44	0	0	0
1.46	0	0	0
1.48	0	0	0
1.50	0	0	0
1.52	0	0	0
1.54	0	0	0
1.56	0	0	0
1.58	0	0	0
1.60	0	0	0
1.62	0	0	0
1.64	0	0	0
1.66	0	0	0
1.68	0	0	0
1.70	0	0	0
1.72	0	0	0
1.74	0	0	0
1.76	0	0	0
1.78	0	0	0
1.80	0	0	0
1.82	0	0	0
1.84	0	0	0
1.86	0	0	0
1.88	0	0	0
1.90	0	0	0
1.92	0	0	0
1.94	0	0	0
1.96	0	0	0

1.98	0	0	0
2.00	0	0	0

Supp. Table 10. Spectral acceleration values, in g, for the Vertical Z directional Array and earthquake moment of 6.0 R.

Period (s)	$\xi = 0.02$	$\xi = 0.05$	$\xi = 0.10$
0.00	0.145	0.145	0.145
0.02	0.146243	0.145829	0.145414
0.04	0.147486	0.146657	0.145829
0.06	0.1508	0.148729	0.146657
0.08	0.154114	0.1508	0.147486
0.10	0.155771	0.152871	0.149971
0.12	0.157429	0.154943	0.152457
0.14	0.151629	0.149557	0.147486
0.16	0.145829	0.144171	0.142514
0.18	0.144171	0.142597	0.141023
0.20	0.142514	0.141023	0.139531
0.22	0.140609	0.139697	0.138786
0.24	0.138703	0.138371	0.13804
0.26	0.137543	0.13688	0.136217
0.28	0.136383	0.135389	0.134394
0.30	0.13514	0.133897	0.132654
0.32	0.133897	0.132406	0.130914
0.34	0.132986	0.130749	0.128511
0.36	0.132074	0.129091	0.126109
0.38	0.131246	0.128553	0.12586
0.40	0.130417	0.128014	0.125611
0.42	0.129423	0.126896	0.124369
0.44	0.128429	0.125777	0.123126
0.46	0.127186	0.12499	0.122794
0.48	0.125943	0.124203	0.122463
0.50	0.125114	0.123664	0.122214
0.52	0.124286	0.123126	0.121966
0.54	0.123623	0.122587	0.121551
0.56	0.12296	0.122049	0.121137
0.58	0.121717	0.121303	0.120889
0.60	0.120474	0.120557	0.12064
0.62	0.11948	0.118859	0.118237
0.64	0.118486	0.11716	0.115834
0.66	0.116663	0.112686	0.108709
0.68	0.11484	0.108211	0.101583
0.70	0.113597	0.10701	0.100423
0.72	0.112354	0.105809	0.099263
0.74	0.110946	0.103116	0.095286
0.76	0.109537	0.100423	0.091309
0.78	0.107549	0.097274	0.087
0.80	0.10556	0.094126	0.082691
0.82	0.104234	0.091681	0.079129
0.84	0.102909	0.089237	0.075566
0.86	0.100091	0.086793	0.073494
0.88	0.097274	0.084349	0.071423
0.90	0.096031	0.082401	0.068771
0.92	0.094789	0.080454	0.06612
0.94	0.092303	0.0783	0.064297
0.96	0.089817	0.076146	0.062474

0.98	0.088077	0.074613	0.061149
1.00	0.086337	0.07308	0.059823
1.02	0.08526	0.072086	0.058911
1.04	0.084183	0.071091	0.058
1.06	0.08178	0.067777	0.053774
1.08	0.079377	0.064463	0.049549
1.10	0.077223	0.062474	0.047726
1.12	0.075069	0.060486	0.045903
1.14	0.073494	0.058787	0.04408
1.16	0.07192	0.057089	0.042257
1.18	0.070677	0.054769	0.03886
1.20	0.069434	0.052449	0.035463
1.22	0.067031	0.051123	0.035214
1.24	0.064629	0.049797	0.034966
1.26	0.063469	0.049134	0.0348
1.28	0.062309	0.048471	0.034634
1.30	0.060528	0.047087	0.033645
1.32	0.058748	0.045702	0.032655
1.34	0.056968	0.044317	0.031666
1.36	0.055188	0.042932	0.030676
1.38	0.053407	0.041547	0.029687
1.40	0.051627	0.040162	0.028697
1.42	0.049847	0.038777	0.027707
1.44	0.048067	0.037392	0.026718
1.46	0.046286	0.036007	0.025728
1.48	0.044506	0.034622	0.024739
1.50	0.042726	0.033238	0.023749
1.52	0.040946	0.031853	0.02276
1.54	0.039165	0.030468	0.02177
1.56	0.037385	0.029083	0.020781
1.58	0.035605	0.027698	0.019791
1.60	0.033825	0.026313	0.018801
1.62	0.032044	0.024928	0.017812
1.64	0.030264	0.023543	0.016822
1.66	0.028484	0.022158	0.015833
1.68	0.026704	0.020773	0.014843
1.70	0.024923	0.019389	0.013854
1.72	0.023143	0.018004	0.012864
1.74	0.021363	0.016619	0.011875
1.76	0.019583	0.015234	0.010885
1.78	0.017802	0.013849	0.009896
1.80	0.016022	0.012464	0.008906
1.82	0.014242	0.011079	0.007916
1.84	0.012462	0.009694	0.006927
1.86	0.010681	0.008309	0.005937
1.88	0.008901	0.006924	0.004948
1.90	0.007121	0.00554	0.003958
1.92	0.005341	0.004155	0.002969
1.94	0.00356	0.00277	0.001979
1.96	0.00178	0.001385	0.00099

1.98	-3.4E-17	-2.2E-17	-1E-17
2.00	0	0	0

Supp. Table 11. Spectral acceleration values, in g, for the Vertical Z directional Array and earthquake moment of 6.5 R.

Period (s)	$\xi = 0.02$	$\xi = 0.05$	$\xi = 0.10$
0.00	0.09	0.09	0.09
0.02	0.090771	0.090514	0.090257
0.04	0.091543	0.091029	0.090514
0.06	0.0936	0.092314	0.091029
0.08	0.095657	0.0936	0.091543
0.10	0.096686	0.094886	0.093086
0.12	0.097714	0.096171	0.094629
0.14	0.094114	0.092829	0.091543
0.16	0.090514	0.089486	0.088457
0.18	0.089486	0.088509	0.087531
0.20	0.088457	0.087531	0.086606
0.22	0.087274	0.086709	0.086143
0.24	0.086091	0.085886	0.08568
0.26	0.085371	0.08496	0.084549
0.28	0.084651	0.084034	0.083417
0.30	0.08388	0.083109	0.082337
0.32	0.083109	0.082183	0.081257
0.34	0.082543	0.081154	0.079766
0.36	0.081977	0.080126	0.078274
0.38	0.081463	0.079791	0.07812
0.40	0.080949	0.079457	0.077966
0.42	0.080331	0.078763	0.077194
0.44	0.079714	0.078069	0.076423
0.46	0.078943	0.07758	0.076217
0.48	0.078171	0.077091	0.076011
0.50	0.077657	0.076757	0.075857
0.52	0.077143	0.076423	0.075703
0.54	0.076731	0.076089	0.075446
0.56	0.07632	0.075754	0.075189
0.58	0.075549	0.075291	0.075034
0.60	0.074777	0.074829	0.07488
0.62	0.07416	0.073774	0.073389
0.64	0.073543	0.07272	0.071897
0.66	0.072411	0.069943	0.067474
0.68	0.07128	0.067166	0.063051
0.70	0.070509	0.06642	0.062331
0.72	0.069737	0.065674	0.061611
0.74	0.068863	0.064003	0.059143
0.76	0.067989	0.062331	0.056674
0.78	0.066754	0.060377	0.054
0.80	0.06552	0.058423	0.051326
0.82	0.064697	0.056906	0.049114
0.84	0.063874	0.055389	0.046903
0.86	0.062126	0.053871	0.045617
0.88	0.060377	0.052354	0.044331
0.90	0.059606	0.051146	0.042686
0.92	0.058834	0.049937	0.04104
0.94	0.057291	0.0486	0.039909
0.96	0.055749	0.047263	0.038777

0.98	0.054669	0.046311	0.037954
1.00	0.053589	0.04536	0.037131
1.02	0.05292	0.044743	0.036566
1.04	0.052251	0.044126	0.036
1.06	0.05076	0.042069	0.033377
1.08	0.049269	0.040011	0.030754
1.10	0.047931	0.038777	0.029623
1.12	0.046594	0.037543	0.028491
1.14	0.045617	0.036489	0.02736
1.16	0.04464	0.035434	0.026229
1.18	0.043869	0.033994	0.02412
1.20	0.043097	0.032554	0.022011
1.22	0.041606	0.031731	0.021857
1.24	0.040114	0.030909	0.021703
1.26	0.039394	0.030497	0.0216
1.28	0.038674	0.030086	0.021497
1.30	0.037569	0.029226	0.020883
1.32	0.036464	0.028367	0.020269
1.34	0.035359	0.027507	0.019655
1.36	0.034254	0.026647	0.01904
1.38	0.033149	0.025788	0.018426
1.40	0.032044	0.024928	0.017812
1.42	0.030939	0.024069	0.017198
1.44	0.029834	0.023209	0.016584
1.46	0.028729	0.022349	0.015969
1.48	0.027624	0.02149	0.015355
1.50	0.02652	0.02063	0.014741
1.52	0.025415	0.019771	0.014127
1.54	0.02431	0.018911	0.013512
1.56	0.023205	0.018051	0.012898
1.58	0.0221	0.017192	0.012284
1.60	0.020995	0.016332	0.01167
1.62	0.01989	0.015473	0.011056
1.64	0.018785	0.014613	0.010441
1.66	0.01768	0.013753	0.009827
1.68	0.016575	0.012894	0.009213
1.70	0.01547	0.012034	0.008599
1.72	0.014365	0.011175	0.007985
1.74	0.01326	0.010315	0.00737
1.76	0.012155	0.009456	0.006756
1.78	0.01105	0.008596	0.006142
1.80	0.009945	0.007736	0.005528
1.82	0.00884	0.006877	0.004914
1.84	0.007735	0.006017	0.004299
1.86	0.00663	0.005158	0.003685
1.88	0.005525	0.004298	0.003071
1.90	0.00442	0.003438	0.002457
1.92	0.003315	0.002579	0.001843
1.94	0.00221	0.001719	0.001228
1.96	0.001105	0.00086	0.000614

1.98	-2.1E-17	-1.4E-17	-6.2E-18
2.00	0	0	0

Supp. Table 12. Spectral acceleration values, in g, for the Vertical Z directional Array and earthquake moment of 7.0 R.

Period (s)	$\xi = 0.02$	$\xi = 0.05$	$\xi = 0.10$
0.00	0	0	0
0.02	15.17857	12.14286	9.107143
0.04	28.33333	22.2619	16.19048
0.06	36.42857	31.875	27.32143
0.08	41.4881	38.45238	35.41667
0.10	58.69048	50.08929	41.4881
0.12	67.79762	56.16071	44.52381
0.14	79.94048	66.27976	52.61905
0.16	89.04762	72.85714	56.66667
0.18	95.11905	78.42262	61.72619
0.20	106.25	87.02381	67.79762
0.22	118.3929	95.625	72.85714
0.24	127.5	101.1905	74.88095
0.26	136.6071	106.25	75.89286
0.28	137.1131	123.4018	109.6905
0.30	137.619	123.8571	110.0952
0.32	138.125	124.3125	110.5
0.34	138.631	124.7679	110.9048
0.36	139.1369	125.2232	111.3095
0.38	139.6429	125.6786	111.7143
0.40	140.1488	126.1339	112.119
0.42	140.6548	126.5893	112.5238
0.44	141.1607	127.0446	112.9286
0.46	141.6667	127.5	113.3333
0.48	142.1726	127.9554	113.7381
0.50	142.6786	128.4107	114.1429
0.52	143.1845	128.8661	114.5476
0.54	143.6905	129.3214	114.9524
0.56	144.1964	129.7768	115.3571
0.58	144.7024	130.2321	115.7619
0.60	145.2083	130.6875	116.1667
0.62	145.7143	131.1429	116.5714
0.64	146.2202	131.5982	116.9762
0.66	146.7262	132.0536	117.381
0.68	147.2321	132.5089	117.7857
0.70	147.7381	132.9643	118.1905
0.72	148.244	133.4196	118.5952
0.74	148.75	133.875	119
0.76	149.256	134.3304	119.4048
0.78	149.7619	134.7857	119.8095
0.80	152.7976	137.5179	122.2381
0.82	153.8095	138.4286	123.0476
0.84	155.8333	140.25	124.6667
0.86	156.8452	141.1607	125.4762
0.88	157.8571	142.0714	126.2857
0.90	159.375	143.4375	127.5
0.92	159.881	143.8929	127.9048
0.94	160.3869	144.3482	128.3095
0.96	160.8929	144.8036	128.7143

0.98	161.3988	145.2589	129.119
1.00	161.9048	144.1964	126.4881
1.02	162.4107	144.6518	126.8929
1.04	162.9167	145.1071	127.2976
1.06	163.4226	145.5625	127.7024
1.08	163.9286	146.0179	128.1071
1.10	164.4345	146.4732	128.5119
1.12	164.9405	146.9286	128.9167
1.14	165.4464	147.3839	129.3214
1.16	165.9524	147.8393	129.7262
1.18	166.4583	148.2946	130.131
1.20	166.9643	148.75	130.5357
1.22	167.4702	149.2054	130.9405
1.24	167.9762	149.6607	131.3452
1.26	168.4821	150.1161	131.75
1.28	168.9881	150.5714	132.1548
1.30	169.494	151.0268	132.5595
1.32	170	151.4821	132.9643
1.34	170.506	151.9375	133.369
1.36	171.0119	152.3929	133.7738
1.38	171.5179	152.8482	134.1786
1.40	172.0238	153.3036	134.5833
1.42	172.5298	153.7589	134.9881
1.44	173.0357	154.2143	135.3929
1.46	173.5417	154.6696	135.7976
1.48	174.0476	155.125	136.2024
1.50	174.5536	155.5804	136.6071
1.52	175.0595	156.0357	137.0119
1.54	175.5655	156.4911	137.4167
1.56	176.0714	156.9464	137.8214
1.58	176.5774	157.4018	138.2262
1.60	177.0833	157.8571	138.631
1.62	177.5893	158.3125	139.0357
1.64	178.0952	158.7679	139.4405
1.66	178.6012	159.2232	139.8452
1.68	179.1071	159.6786	140.25
1.70	179.6131	160.1339	140.6548
1.72	180.119	160.5893	141.0595
1.74	180.625	161.0446	141.4643
1.76	181.131	161.5	141.869
1.78	181.6369	161.9554	142.2738
1.80	182.1429	162.4107	142.6786
1.82	182.6488	162.8661	143.0833
1.84	183.1548	163.3214	143.4881
1.86	183.6607	163.7768	143.8929
1.88	184.1667	164.2321	144.2976
1.90	184.6726	164.6875	144.7024
1.92	185.1786	165.1429	145.1071
1.94	185.6845	165.5982	145.5119
1.96	186.1905	166.0536	145.9167

1.98	186.6964	166.5089	146.3214
2.00	187.2024	166.9643	146.7262

Supp. Table 13. Spectral velocity values, in mm/s, for the East-West directional Array and earthquake moment of 5.5 R.

Period (s)	$\xi = 0.02$	$\xi = 0.05$	$\xi = 0.10$
0.00	0	0	0
0.02	15	12	9
0.04	28	22	16
0.06	36	31.5	27
0.08	41	38	35
0.10	58	49.5	41
0.12	67	55.5	44
0.14	79	65.5	52
0.16	88	72	56
0.18	94	77.5	61
0.20	105	86	67
0.22	117	94.5	72
0.24	126	100	74
0.26	135	105	75
0.28	135.5	121.95	108.4
0.30	136	122.4	108.8
0.32	136.5	122.85	109.2
0.34	137	123.3	109.6
0.36	137.5	123.75	110
0.38	138	124.2	110.4
0.40	138.5	124.65	110.8
0.42	139	125.1	111.2
0.44	139.5	125.55	111.6
0.46	140	126	112
0.48	140.5	126.45	112.4
0.50	141	126.9	112.8
0.52	141.5	127.35	113.2
0.54	142	127.8	113.6
0.56	142.5	128.25	114
0.58	143	128.7	114.4
0.60	143.5	129.15	114.8
0.62	144	129.6	115.2
0.64	144.5	130.05	115.6
0.66	145	130.5	116
0.68	145.5	130.95	116.4
0.70	146	131.4	116.8
0.72	146.5	131.85	117.2
0.74	147	132.3	117.6
0.76	147.5	132.75	118
0.78	148	133.2	118.4
0.80	151	135.9	120.8
0.82	152	136.8	121.6
0.84	154	138.6	123.2
0.86	155	139.5	124
0.88	156	140.4	124.8
0.90	157.5	141.75	126
0.92	158	142.2	126.4
0.94	158.5	142.65	126.8
0.96	159	143.1	127.2

0.98	159.5	143.55	127.6
1.00	160	142.5	125
1.02	160.5	142.95	125.4
1.04	161	143.4	125.8
1.06	161.5	143.85	126.2
1.08	162	144.3	126.6
1.10	162.5	144.75	127
1.12	163	145.2	127.4
1.14	163.5	145.65	127.8
1.16	164	146.1	128.2
1.18	164.5	146.55	128.6
1.20	165	147	129
1.22	165.5	147.45	129.4
1.24	166	147.9	129.8
1.26	166.5	148.35	130.2
1.28	167	148.8	130.6
1.30	167.5	149.25	131
1.32	168	149.7	131.4
1.34	168.5	150.15	131.8
1.36	169	150.6	132.2
1.38	169.5	151.05	132.6
1.40	170	151.5	133
1.42	170.5	151.95	133.4
1.44	171	152.4	133.8
1.46	171.5	152.85	134.2
1.48	172	153.3	134.6
1.50	172.5	153.75	135
1.52	173	154.2	135.4
1.54	173.5	154.65	135.8
1.56	174	155.1	136.2
1.58	174.5	155.55	136.6
1.60	175	156	137
1.62	175.5	156.45	137.4
1.64	176	156.9	137.8
1.66	176.5	157.35	138.2
1.68	177	157.8	138.6
1.70	177.5	158.25	139
1.72	178	158.7	139.4
1.74	178.5	159.15	139.8
1.76	179	159.6	140.2
1.78	179.5	160.05	140.6
1.80	180	160.5	141
1.82	180.5	160.95	141.4
1.84	181	161.4	141.8
1.86	181.5	161.85	142.2
1.88	182	162.3	142.6
1.90	182.5	162.75	143
1.92	183	163.2	143.4
1.94	183.5	163.65	143.8
1.96	184	164.1	144.2

1.98	184.5	164.55	144.6
2.00	185	165	145

Supp. Table 14. Spectral velocity values, in mm/s, for the East-West directional Array and earthquake moment of 6.0 R.

Period (s)	$\xi = 0.02$	$\xi = 0.05$	$\xi = 0.10$
0.00	0	0	0
0.02	6.081081	4.933644	3.786207
0.04	11.35135	9.041193	6.731034
0.06	14.59459	12.97661	11.35862
0.08	16.62162	15.67288	14.72414
0.10	23.51351	20.38089	17.24828
0.12	27.16216	22.83625	18.51034
0.14	32.02703	26.95144	21.87586
0.16	35.67568	29.61715	23.55862
0.18	38.10811	31.88509	25.66207
0.20	42.56757	35.37689	28.18621
0.22	47.43243	38.86104	30.28966
0.24	51.08108	41.10606	31.13103
0.26	54.72973	43.14073	31.55172
0.28	54.93243	50.2676	45.60276
0.30	55.13514	50.45308	45.77103
0.32	55.33784	50.63857	45.93931
0.34	55.54054	50.82406	46.10759
0.36	55.74324	51.00955	46.27586
0.38	55.94595	51.19504	46.44414
0.40	56.14865	51.38053	46.61241
0.42	56.35135	51.56602	46.78069
0.44	56.55405	51.75151	46.94897
0.46	56.75676	51.937	47.11724
0.48	56.95946	52.12249	47.28552
0.50	57.16216	52.30798	47.45379
0.52	57.36486	52.49347	47.62207
0.54	57.56757	52.67896	47.79034
0.56	57.77027	52.86445	47.95862
0.58	57.97297	53.04993	48.1269
0.60	58.17568	53.23542	48.29517
0.62	58.37838	53.42091	48.46345
0.64	58.58108	53.6064	48.63172
0.66	58.78378	53.79189	48.8
0.68	58.98649	53.97738	48.96828
0.70	59.18919	54.16287	49.13655
0.72	59.39189	54.34836	49.30483
0.74	59.59459	54.53385	49.4731
0.76	59.7973	54.71934	49.64138
0.78	60	54.90483	49.80966
0.80	61.21622	56.01776	50.81931
0.82	61.62162	56.38874	51.15586
0.84	62.43243	57.1307	51.82897
0.86	62.83784	57.50168	52.16552
0.88	63.24324	57.87266	52.50207
0.90	63.85135	58.42912	53.0069
0.92	64.05405	58.61461	53.17517
0.94	64.25676	58.8001	53.34345
0.96	64.45946	58.98559	53.51172

0.98	64.66216	59.17108	53.68
1.00	64.86486	58.72554	52.58621
1.02	65.06757	58.91103	52.75448
1.04	65.27027	59.09651	52.92276
1.06	65.47297	59.282	53.09103
1.08	65.67568	59.46749	53.25931
1.10	65.87838	59.65298	53.42759
1.12	66.08108	59.83847	53.59586
1.14	66.28378	60.02396	53.76414
1.16	66.48649	60.20945	53.93241
1.18	66.68919	60.39494	54.10069
1.20	66.89189	60.58043	54.26897
1.22	67.09459	60.76592	54.43724
1.24	67.2973	60.95141	54.60552
1.26	67.5	61.1369	54.77379
1.28	67.7027	61.32239	54.94207
1.30	67.90541	61.50788	55.11034
1.32	68.10811	61.69336	55.27862
1.34	68.31081	61.87885	55.4469
1.36	68.51351	62.06434	55.61517
1.38	68.71622	62.24983	55.78345
1.40	68.91892	62.43532	55.95172
1.42	69.12162	62.62081	56.12
1.44	69.32432	62.8063	56.28828
1.46	69.52703	62.99179	56.45655
1.48	69.72973	63.17728	56.62483
1.50	69.93243	63.36277	56.7931
1.52	70.13514	63.54826	56.96138
1.54	70.33784	63.73375	57.12966
1.56	70.54054	63.91924	57.29793
1.58	70.74324	64.10473	57.46621
1.60	70.94595	64.29021	57.63448
1.62	71.14865	64.4757	57.80276
1.64	71.35135	64.66119	57.97103
1.66	71.55405	64.84668	58.13931
1.68	71.75676	65.03217	58.30759
1.70	71.95946	65.21766	58.47586
1.72	72.16216	65.40315	58.64414
1.74	72.36486	65.58864	58.81241
1.76	72.56757	65.77413	58.98069
1.78	72.77027	65.95962	59.14897
1.80	72.97297	66.14511	59.31724
1.82	73.17568	66.3306	59.48552
1.84	73.37838	66.51609	59.65379
1.86	73.58108	66.70158	59.82207
1.88	73.78378	66.88706	59.99034
1.90	73.98649	67.07255	60.15862
1.92	74.18919	67.25804	60.3269
1.94	74.39189	67.44353	60.49517
1.96	74.59459	67.62902	60.66345

1.98	74.7973	67.81451	60.83172
2.00	75	68	61

Supp. Table 15. Spectral velocity values, in mm/s, for the East-West directional Array and earthquake moment of 6.5 R.

Period (s)	$\xi = 0.02$	$\xi = 0.05$	$\xi = 0.10$
0.00	0	0	0
0.02	12.16216	9.46384	6.765517
0.04	22.7027	17.36514	12.02759
0.06	29.18919	24.74287	20.29655
0.08	33.24324	29.77679	26.31034
0.10	47.02703	38.92386	30.82069
0.12	54.32432	43.70009	33.07586
0.14	64.05405	51.57185	39.08966
0.16	71.35135	56.72395	42.09655
0.18	76.21622	61.03569	45.85517
0.20	85.13514	67.75033	50.36552
0.22	94.86486	74.4945	54.12414
0.24	102.1622	78.89487	55.62759
0.26	109.4595	82.91938	56.37931
0.28	109.8649	95.67588	81.4869
0.30	110.2703	96.02893	81.78759
0.32	110.6757	96.38198	82.08828
0.34	111.0811	96.73502	82.38897
0.36	111.4865	97.08807	82.68966
0.38	111.8919	97.44112	82.99034
0.40	112.2973	97.79417	83.29103
0.42	112.7027	98.14721	83.59172
0.44	113.1081	98.50026	83.89241
0.46	113.5135	98.85331	84.1931
0.48	113.9189	99.20636	84.49379
0.50	114.3243	99.5594	84.79448
0.52	114.7297	99.91245	85.09517
0.54	115.1351	100.2655	85.39586
0.56	115.5405	100.6185	85.69655
0.58	115.9459	100.9716	85.99724
0.60	116.3514	101.3246	86.29793
0.62	116.7568	101.6777	86.59862
0.64	117.1622	102.0307	86.89931
0.66	117.5676	102.3838	87.2
0.68	117.973	102.7368	87.50069
0.70	118.3784	103.0899	87.80138
0.72	118.7838	103.4429	88.10207
0.74	119.1892	103.796	88.40276
0.76	119.5946	104.149	88.70345
0.78	120	104.5021	89.00414
0.80	122.4324	106.6204	90.80828
0.82	123.2432	107.3264	91.40966
0.84	124.8649	108.7386	92.61241
0.86	125.6757	109.4447	93.21379
0.88	126.4865	110.1508	93.81517
0.90	127.7027	111.21	94.71724
0.92	128.1081	111.563	95.01793
0.94	128.5135	111.9161	95.31862
0.96	128.9189	112.2691	95.61931

0.98	129.3243	112.6222	95.92
1.00	129.7297	111.8476	93.96552
1.02	130.1351	112.2007	94.26621
1.04	130.5405	112.5537	94.5669
1.06	130.9459	112.9068	94.86759
1.08	131.3514	113.2598	95.16828
1.10	131.7568	113.6129	95.46897
1.12	132.1622	113.9659	95.76966
1.14	132.5676	114.319	96.07034
1.16	132.973	114.672	96.37103
1.18	133.3784	115.0251	96.67172
1.20	133.7838	115.3781	96.97241
1.22	134.1892	115.7311	97.2731
1.24	134.5946	116.0842	97.57379
1.26	135	116.4372	97.87448
1.28	135.4054	116.7903	98.17517
1.30	135.8108	117.1433	98.47586
1.32	136.2162	117.4964	98.77655
1.34	136.6216	117.8494	99.07724
1.36	137.027	118.2025	99.37793
1.38	137.4324	118.5555	99.67862
1.40	137.8378	118.9086	99.97931
1.42	138.2432	119.2616	100.28
1.44	138.6486	119.6147	100.5807
1.46	139.0541	119.9677	100.8814
1.48	139.4595	120.3208	101.1821
1.50	139.8649	120.6738	101.4828
1.52	140.2703	121.0269	101.7834
1.54	140.6757	121.3799	102.0841
1.56	141.0811	121.733	102.3848
1.58	141.4865	122.086	102.6855
1.60	141.8919	122.439	102.9862
1.62	142.2973	122.7921	103.2869
1.64	142.7027	123.1451	103.5876
1.66	143.1081	123.4982	103.8883
1.68	143.5135	123.8512	104.189
1.70	143.9189	124.2043	104.4897
1.72	144.3243	124.5573	104.7903
1.74	144.7297	124.9104	105.091
1.76	145.1351	125.2634	105.3917
1.78	145.5405	125.6165	105.6924
1.80	145.9459	125.9695	105.9931
1.82	146.3514	126.3226	106.2938
1.84	146.7568	126.6756	106.5945
1.86	147.1622	127.0287	106.8952
1.88	147.5676	127.3817	107.1959
1.90	147.973	127.7348	107.4966
1.92	148.3784	128.0878	107.7972
1.94	148.7838	128.4409	108.0979
1.96	149.1892	128.7939	108.3986

1.98	149.5946	129.147	108.6993
2.00	150	129.5	109

Supp. Table 16. Spectral velocity values, in mm/s, for the East-West directional Array and earthquake moment of 7.0 R.

Period (s)	$\xi = 0.02$	$\xi = 0.05$	$\xi = 0.10$
0.00	0	0	0
0.02	10.13513	8.76067	7.386206
0.04	18.91892	16.02498	13.13103
0.06	24.32432	23.24147	22.15862
0.08	27.7027	28.21342	28.72414
0.10	39.18919	36.41873	33.64827
0.12	45.27027	40.6903	36.11034
0.14	53.37837	48.02712	42.67586
0.16	59.45945	52.70904	45.95862
0.18	63.51351	56.78779	50.06207
0.20	70.94594	62.96607	54.9862
0.22	79.05405	69.07185	59.08965
0.24	85.13513	72.93308	60.73103
0.26	91.21621	76.38396	61.55172
0.28	91.55404	90.2584	88.96275
0.30	91.89188	90.59146	89.29103
0.32	92.22972	90.92451	89.6193
0.34	92.56756	91.25757	89.94758
0.36	92.9054	91.59063	90.27586
0.38	93.24323	91.92368	90.60413
0.40	93.58107	92.25674	90.93241
0.42	93.91891	92.5898	91.26068
0.44	94.25675	92.92285	91.58896
0.46	94.59458	93.25591	91.91724
0.48	94.93242	93.58897	92.24551
0.50	95.27026	93.92202	92.57379
0.52	95.6081	94.25508	92.90206
0.54	95.94594	94.58814	93.23034
0.56	96.28377	94.92119	93.55861
0.58	96.62161	95.25425	93.88689
0.60	96.95945	95.58731	94.21517
0.62	97.29729	95.92036	94.54344
0.64	97.63513	96.25342	94.87172
0.66	97.97296	96.58648	95.19999
0.68	98.3108	96.91954	95.52827
0.70	98.64864	97.25259	95.85655
0.72	98.98648	97.58565	96.18482
0.74	99.32431	97.91871	96.5131
0.76	99.66215	98.25176	96.84137
0.78	99.99999	98.58482	97.16965
0.80	102.027	100.5832	99.1393
0.82	102.7027	101.2493	99.79586
0.84	104.054	102.5815	101.109
0.86	104.7297	103.2476	101.7655
0.88	105.4054	103.9137	102.4221
0.90	106.4189	104.9129	103.4069
0.92	106.7567	105.246	103.7352
0.94	107.0946	105.579	104.0634
0.96	107.4324	105.9121	104.3917

0.98	107.7703	106.2451	104.72
1.00	108.1081	105.3471	102.5862
1.02	108.4459	105.6802	102.9145
1.04	108.7838	106.0133	103.2428
1.06	109.1216	106.3463	103.571
1.08	109.4594	106.6794	103.8993
1.10	109.7973	107.0124	104.2276
1.12	110.1351	107.3455	104.5559
1.14	110.473	107.6785	104.8841
1.16	110.8108	108.0116	105.2124
1.18	111.1486	108.3447	105.5407
1.20	111.4865	108.6777	105.869
1.22	111.8243	109.0108	106.1972
1.24	112.1622	109.3438	106.5255
1.26	112.5	109.6769	106.8538
1.28	112.8378	110.0099	107.1821
1.30	113.1757	110.343	107.5103
1.32	113.5135	110.6761	107.8386
1.34	113.8513	111.0091	108.1669
1.36	114.1892	111.3422	108.4952
1.38	114.527	111.6752	108.8234
1.40	114.8649	112.0083	109.1517
1.42	115.2027	112.3413	109.48
1.44	115.5405	112.6744	109.8083
1.46	115.8784	113.0075	110.1365
1.48	116.2162	113.3405	110.4648
1.50	116.554	113.6736	110.7931
1.52	116.8919	114.0066	111.1214
1.54	117.2297	114.3397	111.4496
1.56	117.5676	114.6727	111.7779
1.58	117.9054	115.0058	112.1062
1.60	118.2432	115.3389	112.4345
1.62	118.5811	115.6719	112.7628
1.64	118.9189	116.005	113.091
1.66	119.2567	116.338	113.4193
1.68	119.5946	116.6711	113.7476
1.70	119.9324	117.0041	114.0759
1.72	120.2703	117.3372	114.4041
1.74	120.6081	117.6703	114.7324
1.76	120.9459	118.0033	115.0607
1.78	121.2838	118.3364	115.389
1.80	121.6216	118.6694	115.7172
1.82	121.9594	119.0025	116.0455
1.84	122.2973	119.3355	116.3738
1.86	122.6351	119.6686	116.7021
1.88	122.973	120.0016	117.0303
1.90	123.3108	120.3347	117.3586
1.92	123.6486	120.6678	117.6869
1.94	123.9865	121.0008	118.0152
1.96	124.3243	121.3339	118.3434

1.98	124.6621	121.6669	118.6717
2.00	125	122	119

Supp. Table 17. Spectral velocity values, in mm/s, for the North-South directional Array and earthquake moment of 5.5 R.

Period (s)	$\xi = 0.02$	$\xi = 0.05$	$\xi = 0.10$
0.00	0	0	0
0.02	40.94595	32.1109	23.27586
0.04	76.43243	58.90587	41.37931
0.06	98.27027	84.04893	69.82759
0.08	111.9189	101.2181	90.51724
0.10	158.3243	132.1794	106.0345
0.12	182.8919	148.3425	113.7931
0.14	215.6486	175.0657	134.4828
0.16	240.2162	192.5219	144.8276
0.18	256.5946	207.1766	157.7586
0.20	286.6216	229.9487	173.2759
0.22	319.3784	252.7926	186.2069
0.24	343.9459	267.6626	191.3793
0.26	368.5135	281.2395	193.9655
0.28	369.8784	325.1116	280.3448
0.30	371.2432	326.3113	281.3793
0.32	372.6081	327.511	282.4138
0.34	373.973	328.7106	283.4483
0.36	375.3378	329.9103	284.4828
0.38	376.7027	331.11	285.5172
0.40	378.0676	332.3096	286.5517
0.42	379.4324	333.5093	287.5862
0.44	380.7973	334.709	288.6207
0.46	382.1622	335.9087	289.6552
0.48	383.527	337.1083	290.6897
0.50	384.8919	338.308	291.7241
0.52	386.2568	339.5077	292.7586
0.54	387.6216	340.7074	293.7931
0.56	388.9865	341.907	294.8276
0.58	390.3514	343.1067	295.8621
0.60	391.7162	344.3064	296.8966
0.62	393.0811	345.5061	297.931
0.64	394.4459	346.7057	298.9655
0.66	395.8108	347.9054	300
0.68	397.1757	349.1051	301.0345
0.70	398.5405	350.3048	302.069
0.72	399.9054	351.5044	303.1034
0.74	401.2703	352.7041	304.1379
0.76	402.6351	353.9038	305.1724
0.78	404	355.1034	306.2069
0.80	412.1892	362.3015	312.4138
0.82	414.9189	364.7008	314.4828
0.84	420.3784	369.4995	318.6207
0.86	423.1081	371.8989	320.6897
0.88	425.8378	374.2982	322.7586
0.90	429.9324	377.8973	325.8621
0.92	431.2973	379.0969	326.8966
0.94	432.6622	380.2966	327.931
0.96	434.027	381.4963	328.9655

0.98	435.3919	382.6959	330
1.00	436.7568	380.0163	323.2759
1.02	438.1216	381.216	324.3103
1.04	439.4865	382.4157	325.3448
1.06	440.8514	383.6153	326.3793
1.08	442.2162	384.815	327.4138
1.10	443.5811	386.0147	328.4483
1.12	444.9459	387.2144	329.4828
1.14	446.3108	388.414	330.5172
1.16	447.6757	389.6137	331.5517
1.18	449.0405	390.8134	332.5862
1.20	450.4054	392.013	333.6207
1.22	451.7703	393.2127	334.6552
1.24	453.1351	394.4124	335.6897
1.26	454.5	395.6121	336.7241
1.28	455.8649	396.8117	337.7586
1.30	457.2297	398.0114	338.7931
1.32	458.5946	399.2111	339.8276
1.34	459.9595	400.4108	340.8621
1.36	461.3243	401.6104	341.8966
1.38	462.6892	402.8101	342.931
1.40	464.0541	404.0098	343.9655
1.42	465.4189	405.2095	345
1.44	466.7838	406.4091	346.0345
1.46	468.1486	407.6088	347.069
1.48	469.5135	408.8085	348.1034
1.50	470.8784	410.0082	349.1379
1.52	472.2432	411.2078	350.1724
1.54	473.6081	412.4075	351.2069
1.56	474.973	413.6072	352.2414
1.58	476.3378	414.8068	353.2759
1.60	477.7027	416.0065	354.3103
1.62	479.0676	417.2062	355.3448
1.64	480.4324	418.4059	356.3793
1.66	481.7973	419.6055	357.4138
1.68	483.1622	420.8052	358.4483
1.70	484.527	422.0049	359.4828
1.72	485.8919	423.2046	360.5172
1.74	487.2568	424.4042	361.5517
1.76	488.6216	425.6039	362.5862
1.78	489.9865	426.8036	363.6207
1.80	491.3514	428.0033	364.6552
1.82	492.7162	429.2029	365.6897
1.84	494.0811	430.4026	366.7241
1.86	495.4459	431.6023	367.7586
1.88	496.8108	432.802	368.7931
1.90	498.1757	434.0016	369.8276
1.92	499.5405	435.2013	370.8621
1.94	500.9054	436.401	371.8966
1.96	502.2703	437.6007	372.931

1.98	503.6351	438.8003	373.9655
2.00	505	440	375

Supp. Table 18. Spectral velocity values, in mm/s, for the North-South directional Array and earthquake moment of 6.0 R.

Period (s)	$\xi = 0.02$	$\xi = 0.05$	$\xi = 0.10$
0.00	0	0	0
0.02	7.216216	5.966729	4.717241
0.04	13.47027	10.92824	8.386207
0.06	17.31892	15.73532	14.15172
0.08	19.72432	19.03458	18.34483
0.10	27.9027	24.69618	21.48966
0.12	32.23243	27.64725	23.06207
0.14	38.00541	32.63029	27.25517
0.16	42.33514	35.84343	29.35172
0.18	45.22162	38.59702	31.97241
0.20	50.51351	42.81538	35.11724
0.22	56.28649	47.01221	37.73793
0.24	60.61622	49.70121	38.78621
0.26	64.94595	52.12815	39.31034
0.28	65.18649	61.00152	56.81655
0.30	65.42703	61.22662	57.02621
0.32	65.66757	61.45171	57.23586
0.34	65.90811	61.67681	57.44552
0.36	66.14865	61.90191	57.65517
0.38	66.38919	62.12701	57.86483
0.40	66.62973	62.35211	58.07448
0.42	66.87027	62.5772	58.28414
0.44	67.11081	62.8023	58.49379
0.46	67.35135	63.0274	58.70345
0.48	67.59189	63.2525	58.9131
0.50	67.83243	63.4776	59.12276
0.52	68.07297	63.70269	59.33241
0.54	68.31351	63.92779	59.54207
0.56	68.55405	64.15289	59.75172
0.58	68.79459	64.37799	59.96138
0.60	69.03514	64.60308	60.17103
0.62	69.27568	64.82818	60.38069
0.64	69.51622	65.05328	60.59034
0.66	69.75676	65.27838	60.8
0.68	69.9973	65.50348	61.00966
0.70	70.23784	65.72857	61.21931
0.72	70.47838	65.95367	61.42897
0.74	70.71892	66.17877	61.63862
0.76	70.95946	66.40387	61.84828
0.78	71.2	66.62897	62.05793
0.80	72.64324	67.97955	63.31586
0.82	73.12432	68.42975	63.73517
0.84	74.08649	69.33014	64.57379
0.86	74.56757	69.78034	64.9931
0.88	75.04865	70.23053	65.41241
0.90	75.77027	70.90582	66.04138
0.92	76.01081	71.13092	66.25103
0.94	76.25135	71.35602	66.46069
0.96	76.49189	71.58112	66.67034

0.98	76.73243	71.80622	66.88
1.00	76.97297	71.24511	65.51724
1.02	77.21351	71.47021	65.7269
1.04	77.45405	71.6953	65.93655
1.06	77.69459	71.9204	66.14621
1.08	77.93514	72.1455	66.35586
1.10	78.17568	72.3706	66.56552
1.12	78.41622	72.59569	66.77517
1.14	78.65676	72.82079	66.98483
1.16	78.8973	73.04589	67.19448
1.18	79.13784	73.27099	67.40414
1.20	79.37838	73.49609	67.61379
1.22	79.61892	73.72118	67.82345
1.24	79.85946	73.94628	68.0331
1.26	80.1	74.17138	68.24276
1.28	80.34054	74.39648	68.45241
1.30	80.58108	74.62158	68.66207
1.32	80.82162	74.84667	68.87172
1.34	81.06216	75.07177	69.08138
1.36	81.3027	75.29687	69.29103
1.38	81.54324	75.52197	69.50069
1.40	81.78378	75.74706	69.71034
1.42	82.02432	75.97216	69.92
1.44	82.26486	76.19726	70.12966
1.46	82.50541	76.42236	70.33931
1.48	82.74595	76.64746	70.54897
1.50	82.98649	76.87255	70.75862
1.52	83.22703	77.09765	70.96828
1.54	83.46757	77.32275	71.17793
1.56	83.70811	77.54785	71.38759
1.58	83.94865	77.77295	71.59724
1.60	84.18919	77.99804	71.8069
1.62	84.42973	78.22314	72.01655
1.64	84.67027	78.44824	72.22621
1.66	84.91081	78.67334	72.43586
1.68	85.15135	78.89843	72.64552
1.70	85.39189	79.12353	72.85517
1.72	85.63243	79.34863	73.06483
1.74	85.87297	79.57373	73.27448
1.76	86.11351	79.79883	73.48414
1.78	86.35405	80.02392	73.69379
1.80	86.59459	80.24902	73.90345
1.82	86.83514	80.47412	74.1131
1.84	87.07568	80.69922	74.32276
1.86	87.31622	80.92432	74.53241
1.88	87.55676	81.14941	74.74207
1.90	87.7973	81.37451	74.95172
1.92	88.03784	81.59961	75.16138
1.94	88.27838	81.82471	75.37103
1.96	88.51892	82.0498	75.58069

1.98	88.75946	82.2749	75.79034
2.00	89	82.5	76

Supp. Table 19. Spectral velocity values, in mm/s, for the North-South directional Array and earthquake moment of 6.5 R.

Period (s)	$\xi = 0.02$	$\xi = 0.05$	$\xi = 0.10$
0.00	0	0	0
0.02	9.72973	7.689003	5.648276
0.04	18.16216	14.10177	10.04138
0.06	23.35135	20.14809	16.94483
0.08	26.59459	24.28006	21.96552
0.10	37.62162	31.67633	25.73103
0.12	43.45946	35.53663	27.61379
0.14	51.24324	41.93886	32.63448
0.16	57.08108	46.11295	35.14483
0.18	60.97297	49.62787	38.28276
0.20	68.10811	55.07819	42.04828
0.22	75.89189	60.53905	45.18621
0.24	81.72973	64.08555	46.44138
0.26	87.56757	67.31827	47.06897
0.28	87.89189	77.96112	68.03034
0.30	88.21622	78.2488	68.28138
0.32	88.54054	78.53648	68.53241
0.34	88.86486	78.82416	68.78345
0.36	89.18919	79.11184	69.03448
0.38	89.51351	79.39952	69.28552
0.40	89.83784	79.68719	69.53655
0.42	90.16216	79.97487	69.78759
0.44	90.48649	80.26255	70.03862
0.46	90.81081	80.55023	70.28966
0.48	91.13514	80.83791	70.54069
0.50	91.45946	81.12559	70.79172
0.52	91.78378	81.41327	71.04276
0.54	92.10811	81.70095	71.29379
0.56	92.43243	81.98863	71.54483
0.58	92.75676	82.27631	71.79586
0.60	93.08108	82.56399	72.0469
0.62	93.40541	82.85167	72.29793
0.64	93.72973	83.13935	72.54897
0.66	94.05405	83.42703	72.8
0.68	94.37838	83.71471	73.05103
0.70	94.7027	84.00239	73.30207
0.72	95.02703	84.29007	73.5531
0.74	95.35135	84.57774	73.80414
0.76	95.67568	84.86542	74.05517
0.78	96	85.1531	74.30621
0.80	97.94595	86.87918	75.81241
0.82	98.59459	87.45454	76.31448
0.84	99.89189	88.60526	77.31862
0.86	100.5405	89.18062	77.82069
0.88	101.1892	89.75597	78.32276
0.90	102.1622	90.61901	79.07586
0.92	102.4865	90.90669	79.3269
0.94	102.8108	91.19437	79.57793
0.96	103.1351	91.48205	79.82897

0.98	103.4595	91.76973	80.08
1.00	103.7838	91.11603	78.44828
1.02	104.1081	91.40371	78.69931
1.04	104.4324	91.69139	78.95034
1.06	104.7568	91.97907	79.20138
1.08	105.0811	92.26675	79.45241
1.10	105.4054	92.55443	79.70345
1.12	105.7297	92.84211	79.95448
1.14	106.0541	93.12979	80.20552
1.16	106.3784	93.41747	80.45655
1.18	106.7027	93.70514	80.70759
1.20	107.027	93.99282	80.95862
1.22	107.3514	94.2805	81.20966
1.24	107.6757	94.56818	81.46069
1.26	108	94.85586	81.71172
1.28	108.3243	95.14354	81.96276
1.30	108.6486	95.43122	82.21379
1.32	108.973	95.7189	82.46483
1.34	109.2973	96.00658	82.71586
1.36	109.6216	96.29426	82.9669
1.38	109.9459	96.58194	83.21793
1.40	110.2703	96.86962	83.46897
1.42	110.5946	97.1573	83.72
1.44	110.9189	97.44498	83.97103
1.46	111.2432	97.73266	84.22207
1.48	111.5676	98.02034	84.4731
1.50	111.8919	98.30801	84.72414
1.52	112.2162	98.59569	84.97517
1.54	112.5405	98.88337	85.22621
1.56	112.8649	99.17105	85.47724
1.58	113.1892	99.45873	85.72828
1.60	113.5135	99.74641	85.97931
1.62	113.8378	100.0341	86.23034
1.64	114.1622	100.3218	86.48138
1.66	114.4865	100.6095	86.73241
1.68	114.8108	100.8971	86.98345
1.70	115.1351	101.1848	87.23448
1.72	115.4595	101.4725	87.48552
1.74	115.7838	101.7602	87.73655
1.76	116.1081	102.0478	87.98759
1.78	116.4324	102.3355	88.23862
1.80	116.7568	102.6232	88.48966
1.82	117.0811	102.9109	88.74069
1.84	117.4054	103.1986	88.99172
1.86	117.7297	103.4862	89.24276
1.88	118.0541	103.7739	89.49379
1.90	118.3784	104.0616	89.74483
1.92	118.7027	104.3493	89.99586
1.94	119.027	104.637	90.2469
1.96	119.3514	104.9246	90.49793

1.98	119.6757	105.2123	90.74897
2.00	120	105.5	91

Supp. Table 20. Spectral velocity values, in mm/s, for the North-South directional Array and earthquake moment of 7.0 R.

Period (s)	$\xi = 0.02$	$\xi = 0.05$	$\xi = 0.10$
0.00	0	0	0
0.02	4.945945	3.435042	1.924138
0.04	9.232431	6.32656	3.420689
0.06	11.87027	8.821341	5.772413
0.08	13.51892	10.50084	7.482758
0.10	19.12432	13.94492	8.765517
0.12	22.09189	15.74939	9.406896
0.14	26.04865	18.58294	11.11724
0.16	29.01621	20.49431	11.97241
0.18	30.99459	22.01798	13.04138
0.20	34.62162	24.47288	14.32414
0.22	38.57837	26.98574	15.3931
0.24	41.54594	28.68332	15.82069
0.26	44.51351	30.274	16.03448
0.28	44.67837	33.92677	23.17517
0.30	44.84324	34.05196	23.26069
0.32	45.0081	34.17715	23.34621
0.34	45.17297	34.30235	23.43172
0.36	45.33783	34.42754	23.51724
0.38	45.5027	34.55273	23.60276
0.40	45.66756	34.67792	23.68827
0.42	45.83243	34.80311	23.77379
0.44	45.99729	34.9283	23.85931
0.46	46.16216	35.05349	23.94483
0.48	46.32702	35.17868	24.03034
0.50	46.49189	35.30387	24.11586
0.52	46.65675	35.42906	24.20138
0.54	46.82162	35.55426	24.28689
0.56	46.98648	35.67945	24.37241
0.58	47.15135	35.80464	24.45793
0.60	47.31621	35.92983	24.54345
0.62	47.48108	36.05502	24.62896
0.64	47.64594	36.18021	24.71448
0.66	47.81081	36.3054	24.8
0.68	47.97567	36.43059	24.88552
0.70	48.14054	36.55578	24.97103
0.72	48.3054	36.68098	25.05655
0.74	48.47027	36.80617	25.14207
0.76	48.63513	36.93136	25.22758
0.78	48.8	37.05655	25.3131
0.80	49.78918	37.80769	25.82621
0.82	50.11891	38.05808	25.99724
0.84	50.77837	38.55884	26.33931
0.86	51.1081	38.80922	26.51034
0.88	51.43783	39.05961	26.68138
0.90	51.93243	39.43518	26.93793
0.92	52.09729	39.56037	27.02345
0.94	52.26216	39.68556	27.10896
0.96	52.42702	39.81075	27.19448

0.98	52.59189	39.93594	27.28
1.00	52.75675	39.74044	26.72414
1.02	52.92162	39.86563	26.80965
1.04	53.08648	39.99083	26.89517
1.06	53.25135	40.11602	26.98069
1.08	53.41621	40.24121	27.06621
1.10	53.58108	40.3664	27.15172
1.12	53.74594	40.49159	27.23724
1.14	53.91081	40.61678	27.32276
1.16	54.07567	40.74197	27.40827
1.18	54.24054	40.86716	27.49379
1.20	54.4054	40.99235	27.57931
1.22	54.57026	41.11755	27.66483
1.24	54.73513	41.24274	27.75034
1.26	54.89999	41.36793	27.83586
1.28	55.06486	41.49312	27.92138
1.30	55.22972	41.61831	28.00689
1.32	55.39459	41.7435	28.09241
1.34	55.55945	41.86869	28.17793
1.36	55.72432	41.99388	28.26345
1.38	55.88918	42.11907	28.34896
1.40	56.05405	42.24426	28.43448
1.42	56.21891	42.36946	28.52
1.44	56.38378	42.49465	28.60552
1.46	56.54864	42.61984	28.69103
1.48	56.71351	42.74503	28.77655
1.50	56.87837	42.87022	28.86207
1.52	57.04324	42.99541	28.94758
1.54	57.2081	43.1206	29.0331
1.56	57.37297	43.24579	29.11862
1.58	57.53783	43.37098	29.20414
1.60	57.7027	43.49618	29.28965
1.62	57.86756	43.62137	29.37517
1.64	58.03243	43.74656	29.46069
1.66	58.19729	43.87175	29.5462
1.68	58.36216	43.99694	29.63172
1.70	58.52702	44.12213	29.71724
1.72	58.69189	44.24732	29.80276
1.74	58.85675	44.37251	29.88827
1.76	59.02162	44.4977	29.97379
1.78	59.18648	44.62289	30.05931
1.80	59.35135	44.74809	30.14483
1.82	59.51621	44.87328	30.23034
1.84	59.68108	44.99847	30.31586
1.86	59.84594	45.12366	30.40138
1.88	60.0108	45.24885	30.48689
1.90	60.17567	45.37404	30.57241
1.92	60.34053	45.49923	30.65793
1.94	60.5054	45.62442	30.74345
1.96	60.67026	45.74961	30.82896

1.98	60.83513	45.8748	30.91448
2.00	60.99999	46	31

Supp. Table 21. Spectral velocity values, in mm/s, for the Vertical Z directional Array and earthquake moment of 5.5 R.

Period (s)	$\xi = 0.02$	$\xi = 0.05$	$\xi = 0.10$
0.00	0	0	0
0.02	9.891892	7.708015	5.524138
0.04	18.46486	14.14278	9.82069
0.06	23.74054	20.15648	16.57241
0.08	27.03784	24.2603	21.48276
0.10	38.24865	31.70708	25.16552
0.12	44.18378	35.59534	27.0069
0.14	52.0973	42.00727	31.91724
0.16	58.03243	46.20242	34.37241
0.18	61.98919	49.71528	37.44138
0.20	69.24324	55.18369	41.12414
0.22	77.15676	60.67493	44.1931
0.24	83.09189	64.25629	45.42069
0.26	89.02703	67.53075	46.03448
0.28	89.35676	77.94596	66.53517
0.30	89.68649	78.23359	66.78069
0.32	90.01622	78.52121	67.02621
0.34	90.34595	78.80884	67.27172
0.36	90.67568	79.09646	67.51724
0.38	91.00541	79.38408	67.76276
0.40	91.33514	79.67171	68.00828
0.42	91.66486	79.95933	68.25379
0.44	91.99459	80.24695	68.49931
0.46	92.32432	80.53458	68.74483
0.48	92.65405	80.8222	68.99034
0.50	92.98378	81.10982	69.23586
0.52	93.31351	81.39745	69.48138
0.54	93.64324	81.68507	69.7269
0.56	93.97297	81.97269	69.97241
0.58	94.3027	82.26032	70.21793
0.60	94.63243	82.54794	70.46345
0.62	94.96216	82.83556	70.70897
0.64	95.29189	83.12319	70.95448
0.66	95.62162	83.41081	71.2
0.68	95.95135	83.69843	71.44552
0.70	96.28108	83.98606	71.69103
0.72	96.61081	84.27368	71.93655
0.74	96.94054	84.5613	72.18207
0.76	97.27027	84.84893	72.42759
0.78	97.6	85.13655	72.6731
0.80	99.57838	86.86229	74.14621
0.82	100.2378	87.43754	74.63724
0.84	101.5568	88.58803	75.61931
0.86	102.2162	89.16328	76.11034
0.88	102.8757	89.73853	76.60138
0.90	103.8649	90.6014	77.33793
0.92	104.1946	90.88902	77.58345
0.94	104.5243	91.17664	77.82897
0.96	104.8541	91.46427	78.07448

0.98	105.1838	91.75189	78.32
1.00	105.5135	91.11883	76.72414
1.02	105.8432	91.40645	76.96966
1.04	106.173	91.69407	77.21517
1.06	106.5027	91.9817	77.46069
1.08	106.8324	92.26932	77.70621
1.10	107.1622	92.55694	77.95172
1.12	107.4919	92.84457	78.19724
1.14	107.8216	93.13219	78.44276
1.16	108.1514	93.41981	78.68828
1.18	108.4811	93.70744	78.93379
1.20	108.8108	93.99506	79.17931
1.22	109.1405	94.28268	79.42483
1.24	109.4703	94.57031	79.67034
1.26	109.8	94.85793	79.91586
1.28	110.1297	95.14555	80.16138
1.30	110.4595	95.43318	80.4069
1.32	110.7892	95.7208	80.65241
1.34	111.1189	96.00842	80.89793
1.36	111.4486	96.29605	81.14345
1.38	111.7784	96.58367	81.38897
1.40	112.1081	96.8713	81.63448
1.42	112.4378	97.15892	81.88
1.44	112.7676	97.44654	82.12552
1.46	113.0973	97.73417	82.37103
1.48	113.427	98.02179	82.61655
1.50	113.7568	98.30941	82.86207
1.52	114.0865	98.59704	83.10759
1.54	114.4162	98.88466	83.3531
1.56	114.7459	99.17228	83.59862
1.58	115.0757	99.45991	83.84414
1.60	115.4054	99.74753	84.08966
1.62	115.7351	100.0352	84.33517
1.64	116.0649	100.3228	84.58069
1.66	116.3946	100.6104	84.82621
1.68	116.7243	100.898	85.07172
1.70	117.0541	101.1856	85.31724
1.72	117.3838	101.4733	85.56276
1.74	117.7135	101.7609	85.80828
1.76	118.0432	102.0485	86.05379
1.78	118.373	102.3361	86.29931
1.80	118.7027	102.6238	86.54483
1.82	119.0324	102.9114	86.79034
1.84	119.3622	103.199	87.03586
1.86	119.6919	103.4866	87.28138
1.88	120.0216	103.7743	87.5269
1.90	120.3514	104.0619	87.77241
1.92	120.6811	104.3495	88.01793
1.94	121.0108	104.6371	88.26345
1.96	121.3405	104.9248	88.50897

1.98	121.6703	105.2124	88.75448
2.00	122	105.5	89

Supp. Table 22. Spectral velocity values, in mm/s, for the Vertical Z directional Array and earthquake moment of 6.0 R.

Period (s)	$\xi = 0.02$	$\xi = 0.05$	$\xi = 0.10$
0.00	0	0	0
0.02	6.081081	4.623299	3.165517
0.04	11.35135	8.489469	5.627586
0.06	14.59459	12.04557	9.496552
0.08	16.62162	14.46598	12.31034
0.10	23.51351	18.9671	14.42069
0.12	27.16216	21.31901	15.47586
0.14	32.02703	25.15834	18.28966
0.16	35.67568	27.68611	19.69655
0.18	38.10811	29.78164	21.45517
0.20	42.56757	33.06654	23.56552
0.22	47.43243	36.37829	25.32414
0.24	51.08108	38.55433	26.02759
0.26	54.72973	40.55452	26.37931
0.28	54.93243	46.52966	38.1269
0.30	55.13514	46.70136	38.26759
0.32	55.33784	46.87306	38.40828
0.34	55.54054	47.04475	38.54897
0.36	55.74324	47.21645	38.68966
0.38	55.94595	47.38815	38.83034
0.40	56.14865	47.55984	38.97103
0.42	56.35135	47.73154	39.11172
0.44	56.55405	47.90323	39.25241
0.46	56.75676	48.07493	39.3931
0.48	56.95946	48.24663	39.53379
0.50	57.16216	48.41832	39.67448
0.52	57.36486	48.59002	39.81517
0.54	57.56757	48.76171	39.95586
0.56	57.77027	48.93341	40.09655
0.58	57.97297	49.10511	40.23724
0.60	58.17568	49.2768	40.37793
0.62	58.37838	49.4485	40.51862
0.64	58.58108	49.6202	40.65931
0.66	58.78378	49.79189	40.8
0.68	58.98649	49.96359	40.94069
0.70	59.18919	50.13528	41.08138
0.72	59.39189	50.30698	41.22207
0.74	59.59459	50.47868	41.36276
0.76	59.7973	50.65037	41.50345
0.78	60	50.82207	41.64414
0.80	61.21622	51.85225	42.48828
0.82	61.62162	52.19564	42.76966
0.84	62.43243	52.88242	43.33241
0.86	62.83784	53.22582	43.61379
0.88	63.24324	53.56921	43.89517
0.90	63.85135	54.0843	44.31724
0.92	64.05405	54.25599	44.45793
0.94	64.25676	54.42769	44.59862
0.96	64.45946	54.59938	44.73931

0.98	64.66216	54.77108	44.88
1.00	64.86486	54.41519	43.96552
1.02	65.06757	54.58689	44.10621
1.04	65.27027	54.75858	44.2469
1.06	65.47297	54.93028	44.38759
1.08	65.67568	55.10198	44.52828
1.10	65.87838	55.27367	44.66897
1.12	66.08108	55.44537	44.80966
1.14	66.28378	55.61706	44.95034
1.16	66.48649	55.78876	45.09103
1.18	66.68919	55.96046	45.23172
1.20	66.89189	56.13215	45.37241
1.22	67.09459	56.30385	45.5131
1.24	67.2973	56.47555	45.65379
1.26	67.5	56.64724	45.79448
1.28	67.7027	56.81894	45.93517
1.30	67.90541	56.99063	46.07586
1.32	68.10811	57.16233	46.21655
1.34	68.31081	57.33403	46.35724
1.36	68.51351	57.50572	46.49793
1.38	68.71622	57.67742	46.63862
1.40	68.91892	57.84911	46.77931
1.42	69.12162	58.02081	46.92
1.44	69.32432	58.19251	47.06069
1.46	69.52703	58.3642	47.20138
1.48	69.72973	58.5359	47.34207
1.50	69.93243	58.7076	47.48276
1.52	70.13514	58.87929	47.62345
1.54	70.33784	59.05099	47.76414
1.56	70.54054	59.22268	47.90483
1.58	70.74324	59.39438	48.04552
1.60	70.94595	59.56608	48.18621
1.62	71.14865	59.73777	48.3269
1.64	71.35135	59.90947	48.46759
1.66	71.55405	60.08116	48.60828
1.68	71.75676	60.25286	48.74897
1.70	71.95946	60.42456	48.88966
1.72	72.16216	60.59625	49.03034
1.74	72.36486	60.76795	49.17103
1.76	72.56757	60.93965	49.31172
1.78	72.77027	61.11134	49.45241
1.80	72.97297	61.28304	49.5931
1.82	73.17568	61.45473	49.73379
1.84	73.37838	61.62643	49.87448
1.86	73.58108	61.79813	50.01517
1.88	73.78378	61.96982	50.15586
1.90	73.98649	62.14152	50.29655
1.92	74.18919	62.31322	50.43724
1.94	74.39189	62.48491	50.57793
1.96	74.59459	62.65661	50.71862

1.98	74.7973	62.8283	50.85931
2.00	75	63	51

Supp. Table 23. Spectral velocity values, in mm/s, for the Vertical Z directional Array and earthquake moment of 6.5 R.

Period (s)	$\xi = 0.02$	$\xi = 0.05$	$\xi = 0.10$
0.00	0	0	0
0.02	5.675676	4.482665	3.289655
0.04	10.59459	8.221435	5.848276
0.06	13.62162	11.74529	9.868966
0.08	15.51351	14.15331	12.7931
0.10	21.94595	18.46608	14.98621
0.12	25.35135	20.71705	16.08276
0.14	29.89189	24.44939	19.0069
0.16	33.2973	26.88313	20.46897
0.18	35.56757	28.93206	22.29655
0.20	39.72973	32.10969	24.48966
0.22	44.27027	35.29376	26.31724
0.24	47.67568	37.36198	27.04828
0.26	51.08108	39.24744	27.41379
0.28	51.27027	45.44617	39.62207
0.30	51.45946	45.61387	39.76828
0.32	51.64865	45.78157	39.91448
0.34	51.83784	45.94926	40.06069
0.36	52.02703	46.11696	40.2069
0.38	52.21622	46.28466	40.3531
0.40	52.40541	46.45236	40.49931
0.42	52.59459	46.62006	40.64552
0.44	52.78378	46.78775	40.79172
0.46	52.97297	46.95545	40.93793
0.48	53.16216	47.12315	41.08414
0.50	53.35135	47.29085	41.23034
0.52	53.54054	47.45855	41.37655
0.54	53.72973	47.62624	41.52276
0.56	53.91892	47.79394	41.66897
0.58	54.10811	47.96164	41.81517
0.60	54.2973	48.12934	41.96138
0.62	54.48649	48.29704	42.10759
0.64	54.67568	48.46473	42.25379
0.66	54.86486	48.63243	42.4
0.68	55.05405	48.80013	42.54621
0.70	55.24324	48.96783	42.69241
0.72	55.43243	49.13553	42.83862
0.74	55.62162	49.30322	42.98483
0.76	55.81081	49.47092	43.13103
0.78	56	49.63862	43.27724
0.80	57.13514	50.64481	44.15448
0.82	57.51351	50.98021	44.4469
0.84	58.27027	51.651	45.03172
0.86	58.64865	51.98639	45.32414
0.88	59.02703	52.32179	45.61655
0.90	59.59459	52.82488	46.05517
0.92	59.78378	52.99258	46.20138
0.94	59.97297	53.16028	46.34759
0.96	60.16216	53.32798	46.49379

0.98	60.35135	53.49568	46.64
1.00	60.54054	53.1151	45.68966
1.02	60.72973	53.2828	45.83586
1.04	60.91892	53.45049	45.98207
1.06	61.10811	53.61819	46.12828
1.08	61.2973	53.78589	46.27448
1.10	61.48649	53.95359	46.42069
1.12	61.67568	54.12129	46.5669
1.14	61.86486	54.28898	46.7131
1.16	62.05405	54.45668	46.85931
1.18	62.24324	54.62438	47.00552
1.20	62.43243	54.79208	47.15172
1.22	62.62162	54.95978	47.29793
1.24	62.81081	55.12747	47.44414
1.26	63	55.29517	47.59034
1.28	63.18919	55.46287	47.73655
1.30	63.37838	55.63057	47.88276
1.32	63.56757	55.79827	48.02897
1.34	63.75676	55.96596	48.17517
1.36	63.94595	56.13366	48.32138
1.38	64.13514	56.30136	48.46759
1.40	64.32432	56.46906	48.61379
1.42	64.51351	56.63676	48.76
1.44	64.7027	56.80445	48.90621
1.46	64.89189	56.97215	49.05241
1.48	65.08108	57.13985	49.19862
1.50	65.27027	57.30755	49.34483
1.52	65.45946	57.47525	49.49103
1.54	65.64865	57.64295	49.63724
1.56	65.83784	57.81064	49.78345
1.58	66.02703	57.97834	49.92966
1.60	66.21622	58.14604	50.07586
1.62	66.40541	58.31374	50.22207
1.64	66.59459	58.48144	50.36828
1.66	66.78378	58.64913	50.51448
1.68	66.97297	58.81683	50.66069
1.70	67.16216	58.98453	50.8069
1.72	67.35135	59.15223	50.9531
1.74	67.54054	59.31993	51.09931
1.76	67.72973	59.48762	51.24552
1.78	67.91892	59.65532	51.39172
1.80	68.10811	59.82302	51.53793
1.82	68.2973	59.99072	51.68414
1.84	68.48649	60.15842	51.83034
1.86	68.67568	60.32611	51.97655
1.88	68.86486	60.49381	52.12276
1.90	69.05405	60.66151	52.26897
1.92	69.24324	60.82921	52.41517
1.94	69.43243	60.99691	52.56138
1.96	69.62162	61.1646	52.70759

1.98	69.81081	61.3323	52.85379
2.00	70	61.5	53

Supp. Table 24. Spectral velocity values, in mm/s, for the Vertical Z directional Array and earthquake moment of 7.0 R.

Period (s)	$\xi = 0.02$	$\xi = 0.05$	$\xi = 0.10$
0.00	0	0	0
0.02	1.459459	1.055592	0.651724
0.04	2.724324	1.941472	1.158621
0.06	3.502702	2.728937	1.955172
0.08	3.989189	3.261836	2.534483
0.10	5.643243	4.306104	2.968965
0.12	6.518918	4.852562	3.186207
0.14	7.686486	5.726001	3.765517
0.16	8.562161	6.308667	4.055172
0.18	9.145945	6.781593	4.417241
0.20	10.21622	7.533969	4.851724
0.22	11.38378	8.298788	5.213793
0.24	12.25946	8.809039	5.35862
0.26	13.13513	9.283084	5.431034
0.28	13.18378	10.51672	7.849655
0.30	13.23243	10.55553	7.87862
0.32	13.28108	10.59433	7.907586
0.34	13.32973	10.63314	7.936551
0.36	13.37838	10.67195	7.965517
0.38	13.42703	10.71075	7.994482
0.40	13.47567	10.74956	8.023448
0.42	13.52432	10.78837	8.052413
0.44	13.57297	10.82718	8.081379
0.46	13.62162	10.86598	8.110344
0.48	13.67027	10.90479	8.13931
0.50	13.71892	10.9436	8.168275
0.52	13.76757	10.9824	8.197241
0.54	13.81621	11.02121	8.226206
0.56	13.86486	11.06002	8.255172
0.58	13.91351	11.09882	8.284137
0.60	13.96216	11.13763	8.313103
0.62	14.01081	11.17644	8.342068
0.64	14.05946	11.21525	8.371034
0.66	14.10811	11.25405	8.399999
0.68	14.15676	11.29286	8.428965
0.70	14.2054	11.33167	8.45793
0.72	14.25405	11.37047	8.486896
0.74	14.3027	11.40928	8.515862
0.76	14.35135	11.44809	8.544827
0.78	14.4	11.4869	8.573793
0.80	14.69189	11.71974	8.747586
0.82	14.78919	11.79735	8.805517
0.84	14.98378	11.95258	8.921379
0.86	15.08108	12.03019	8.97931
0.88	15.17838	12.10781	9.037241
0.90	15.32432	12.22423	9.124137
0.92	15.37297	12.26304	9.153103
0.94	15.42162	12.30184	9.182068
0.96	15.47027	12.34065	9.211034

0.98	15.51892	12.37946	9.239999
1.00	15.56757	12.30964	9.051724
1.02	15.61621	12.34845	9.080689
1.04	15.66486	12.38726	9.109655
1.06	15.71351	12.42607	9.13862
1.08	15.76216	12.46487	9.167586
1.10	15.81081	12.50368	9.196551
1.12	15.85946	12.54249	9.225517
1.14	15.90811	12.58129	9.254482
1.16	15.95676	12.6201	9.283448
1.18	16.0054	12.65891	9.312413
1.20	16.05405	12.69772	9.341379
1.22	16.1027	12.73652	9.370344
1.24	16.15135	12.77533	9.39931
1.26	16.2	12.81414	9.428275
1.28	16.24865	12.85294	9.457241
1.30	16.2973	12.89175	9.486206
1.32	16.34594	12.93056	9.515172
1.34	16.39459	12.96937	9.544137
1.36	16.44324	13.00817	9.573103
1.38	16.49189	13.04698	9.602068
1.40	16.54054	13.08579	9.631034
1.42	16.58919	13.12459	9.659999
1.44	16.63784	13.1634	9.688965
1.46	16.68648	13.20221	9.71793
1.48	16.73513	13.24101	9.746896
1.50	16.78378	13.27982	9.775861
1.52	16.83243	13.31863	9.804827
1.54	16.88108	13.35744	9.833792
1.56	16.92973	13.39624	9.862758
1.58	16.97838	13.43505	9.891723
1.60	17.02703	13.47386	9.920689
1.62	17.07567	13.51266	9.949655
1.64	17.12432	13.55147	9.97862
1.66	17.17297	13.59028	10.00759
1.68	17.22162	13.62909	10.03655
1.70	17.27027	13.66789	10.06552
1.72	17.31892	13.7067	10.09448
1.74	17.36757	13.74551	10.12345
1.76	17.41621	13.78431	10.15241
1.78	17.46486	13.82312	10.18138
1.80	17.51351	13.86193	10.21034
1.82	17.56216	13.90074	10.23931
1.84	17.61081	13.93954	10.26828
1.86	17.65946	13.97835	10.29724
1.88	17.70811	14.01716	10.32621
1.90	17.75675	14.05596	10.35517
1.92	17.8054	14.09477	10.38414
1.94	17.85405	14.13358	10.4131
1.96	17.9027	14.17238	10.44207

1.98	17.95135	14.21119	10.47103
2.00	18	14.25	10.5

Supp. Table 25. Spectral displacement values, in mm, for the East-West directional Array and earthquake moment of 5.5 R.

Period (s)	$\xi = 0.02$	$\xi = 0.05$	$\xi = 0.10$
0.00	0	0	0
0.02	3.081081	2.440541	1.8
0.04	5.751351	4.475676	3.2
0.06	7.394595	6.397297	5.4
0.08	8.421622	7.710811	7
0.10	11.91351	10.05676	8.2
0.12	13.76216	11.28108	8.8
0.14	16.22703	13.31351	10.4
0.16	18.07568	14.63784	11.2
0.18	19.30811	15.75405	12.2
0.20	21.56757	17.48378	13.4
0.22	24.03243	19.21622	14.4
0.24	25.88108	20.34054	14.8
0.26	27.72973	21.36486	15
0.28	27.83243	24.75622	21.68
0.30	27.93514	24.84757	21.76
0.32	28.03784	24.93892	21.84
0.34	28.14054	25.03027	21.92
0.36	28.24324	25.12162	22
0.38	28.34595	25.21297	22.08
0.40	28.44865	25.30432	22.16
0.42	28.55135	25.39568	22.24
0.44	28.65405	25.48703	22.32
0.46	28.75676	25.57838	22.4
0.48	28.85946	25.66973	22.48
0.50	28.96216	25.76108	22.56
0.52	29.06486	25.85243	22.64
0.54	29.16757	25.94378	22.72
0.56	29.27027	26.03514	22.8
0.58	29.37297	26.12649	22.88
0.60	29.47568	26.21784	22.96
0.62	29.57838	26.30919	23.04
0.64	29.68108	26.40054	23.12
0.66	29.78378	26.49189	23.2
0.68	29.88649	26.58324	23.28
0.70	29.98919	26.67459	23.36
0.72	30.09189	26.76595	23.44
0.74	30.19459	26.8573	23.52
0.76	30.2973	26.94865	23.6
0.78	30.4	27.04	23.68
0.80	31.01622	27.58811	24.16
0.82	31.22162	27.77081	24.32
0.84	31.63243	28.13622	24.64
0.86	31.83784	28.31892	24.8
0.88	32.04324	28.50162	24.96
0.90	32.35135	28.77568	25.2
0.92	32.45405	28.86703	25.28
0.94	32.55676	28.95838	25.36
0.96	32.65946	29.04973	25.44

0.98	32.76216	29.14108	25.52
1.00	32.86486	28.93243	25
1.02	32.96757	29.02378	25.08
1.04	33.07027	29.11514	25.16
1.06	33.17297	29.20649	25.24
1.08	33.27568	29.29784	25.32
1.10	33.37838	29.38919	25.4
1.12	33.48108	29.48054	25.48
1.14	33.58378	29.57189	25.56
1.16	33.68649	29.66324	25.64
1.18	33.78919	29.75459	25.72
1.20	33.89189	29.84595	25.8
1.22	33.99459	29.9373	25.88
1.24	34.0973	30.02865	25.96
1.26	34.2	30.12	26.04
1.28	34.3027	30.21135	26.12
1.30	34.40541	30.3027	26.2
1.32	34.50811	30.39405	26.28
1.34	34.61081	30.48541	26.36
1.36	34.71351	30.57676	26.44
1.38	34.81622	30.66811	26.52
1.40	34.91892	30.75946	26.6
1.42	35.02162	30.85081	26.68
1.44	35.12432	30.94216	26.76
1.46	35.22703	31.03351	26.84
1.48	35.32973	31.12486	26.92
1.50	35.43243	31.21622	27
1.52	35.53514	31.30757	27.08
1.54	35.63784	31.39892	27.16
1.56	35.74054	31.49027	27.24
1.58	35.84324	31.58162	27.32
1.60	35.94595	31.67297	27.4
1.62	36.04865	31.76432	27.48
1.64	36.15135	31.85568	27.56
1.66	36.25405	31.94703	27.64
1.68	36.35676	32.03838	27.72
1.70	36.45946	32.12973	27.8
1.72	36.56216	32.22108	27.88
1.74	36.66486	32.31243	27.96
1.76	36.76757	32.40378	28.04
1.78	36.87027	32.49514	28.12
1.80	36.97297	32.58649	28.2
1.82	37.07568	32.67784	28.28
1.84	37.17838	32.76919	28.36
1.86	37.28108	32.86054	28.44
1.88	37.38378	32.95189	28.52
1.90	37.48649	33.04324	28.6
1.92	37.58919	33.13459	28.68
1.94	37.69189	33.22595	28.76
1.96	37.79459	33.3173	28.84

1.98	37.8973	33.40865	28.92
2.00	38	33.5	29

Supp. Table 26. Spectral displacement values, in mm, for the East-West directional Array and earthquake moment of 6.0 R.

Period (s)	$\xi = 0.02$	$\xi = 0.05$	$\xi = 0.10$
0.00	0	0	0
0.02	1.378378	1.092637	0.806897
0.04	2.572973	2.003728	1.434483
0.06	3.308108	2.864399	2.42069
0.08	3.767568	3.452749	3.137931
0.10	5.32973	4.502796	3.675862
0.12	6.156757	5.050792	3.944828
0.14	7.259459	5.960764	4.662069
0.16	8.086486	6.553588	5.02069
0.18	8.637838	7.053402	5.468966
0.20	9.648649	7.827773	6.006897
0.22	10.75135	8.603262	6.455172
0.24	11.57838	9.106431	6.634483
0.26	12.40541	9.564772	6.724138
0.28	12.45135	11.08499	9.718621
0.30	12.4973	11.12589	9.754483
0.32	12.54324	11.16679	9.790345
0.34	12.58919	11.2077	9.826207
0.36	12.63514	11.2486	9.862069
0.38	12.68108	11.28951	9.897931
0.40	12.72703	11.33041	9.933793
0.42	12.77297	11.37131	9.969655
0.44	12.81892	11.41222	10.00552
0.46	12.86486	11.45312	10.04138
0.48	12.91081	11.49403	10.07724
0.50	12.95676	11.53493	10.1131
0.52	13.0027	11.57583	10.14897
0.54	13.04865	11.61674	10.18483
0.56	13.09459	11.65764	10.22069
0.58	13.14054	11.69855	10.25655
0.60	13.18649	11.73945	10.29241
0.62	13.23243	11.78035	10.32828
0.64	13.27838	11.82126	10.36414
0.66	13.32432	11.86216	10.4
0.68	13.37027	11.90307	10.43586
0.70	13.41622	11.94397	10.47172
0.72	13.46216	11.98487	10.50759
0.74	13.50811	12.02578	10.54345
0.76	13.55405	12.06668	10.57931
0.78	13.6	12.10759	10.61517
0.80	13.87568	12.35301	10.83034
0.82	13.96757	12.43482	10.90207
0.84	14.15135	12.59843	11.04552
0.86	14.24324	12.68024	11.11724
0.88	14.33514	12.76205	11.18897
0.90	14.47297	12.88476	11.29655
0.92	14.51892	12.92567	11.33241
0.94	14.56486	12.96657	11.36828
0.96	14.61081	13.00747	11.40414

0.98	14.65676	13.04838	11.44
1.00	14.7027	12.9548	11.2069
1.02	14.74865	12.9957	11.24276
1.04	14.79459	13.03661	11.27862
1.06	14.84054	13.07751	11.31448
1.08	14.88649	13.11842	11.35034
1.10	14.93243	13.15932	11.38621
1.12	14.97838	13.20022	11.42207
1.14	15.02432	13.24113	11.45793
1.16	15.07027	13.28203	11.49379
1.18	15.11622	13.32294	11.52966
1.20	15.16216	13.36384	11.56552
1.22	15.20811	13.40474	11.60138
1.24	15.25405	13.44565	11.63724
1.26	15.3	13.48655	11.6731
1.28	15.34595	13.52746	11.70897
1.30	15.39189	13.56836	11.74483
1.32	15.43784	13.60926	11.78069
1.34	15.48378	13.65017	11.81655
1.36	15.52973	13.69107	11.85241
1.38	15.57568	13.73198	11.88828
1.40	15.62162	13.77288	11.92414
1.42	15.66757	13.81378	11.96
1.44	15.71351	13.85469	11.99586
1.46	15.75946	13.89559	12.03172
1.48	15.80541	13.9365	12.06759
1.50	15.85135	13.9774	12.10345
1.52	15.8973	14.0183	12.13931
1.54	15.94324	14.05921	12.17517
1.56	15.98919	14.10011	12.21103
1.58	16.03514	14.14102	12.2469
1.60	16.08108	14.18192	12.28276
1.62	16.12703	14.22282	12.31862
1.64	16.17297	14.26373	12.35448
1.66	16.21892	14.30463	12.39034
1.68	16.26486	14.34554	12.42621
1.70	16.31081	14.38644	12.46207
1.72	16.35676	14.42734	12.49793
1.74	16.4027	14.46825	12.53379
1.76	16.44865	14.50915	12.56966
1.78	16.49459	14.55006	12.60552
1.80	16.54054	14.59096	12.64138
1.82	16.58649	14.63186	12.67724
1.84	16.63243	14.67277	12.7131
1.86	16.67838	14.71367	12.74897
1.88	16.72432	14.75458	12.78483
1.90	16.77027	14.79548	12.82069
1.92	16.81622	14.83638	12.85655
1.94	16.86216	14.87729	12.89241
1.96	16.90811	14.91819	12.92828

1.98	16.95405	14.9591	12.96414
2.00	17	15	13

Supp. Table 27. Spectral displacement values, in mm, for the East-West directional Array and earthquake moment of 6.5 R.

Period (s)	$\xi = 0.02$	$\xi = 0.05$	$\xi = 0.10$
0.00	0	0	0
0.02	2.189189	1.746319	1.303448
0.04	4.086486	3.201864	2.317241
0.06	5.254054	4.582199	3.910345
0.08	5.983784	5.526375	5.068966
0.10	8.464865	7.201398	5.937931
0.12	9.778378	8.075396	6.372414
0.14	11.52973	9.530382	7.531034
0.16	12.84324	10.47679	8.110345
0.18	13.71892	11.2767	8.834483
0.20	15.32432	12.51389	9.703448
0.22	17.07568	13.75163	10.42759
0.24	18.38919	14.55322	10.71724
0.26	19.7027	15.28239	10.86207
0.28	19.77568	17.73749	15.69931
0.30	19.84865	17.80295	15.75724
0.32	19.92162	17.8684	15.81517
0.34	19.99459	17.93385	15.8731
0.36	20.06757	17.9993	15.93103
0.38	20.14054	18.06475	15.98897
0.40	20.21351	18.13021	16.0469
0.42	20.28649	18.19566	16.10483
0.44	20.35946	18.26111	16.16276
0.46	20.43243	18.32656	16.22069
0.48	20.50541	18.39201	16.27862
0.50	20.57838	18.45747	16.33655
0.52	20.65135	18.52292	16.39448
0.54	20.72432	18.58837	16.45241
0.56	20.7973	18.65382	16.51034
0.58	20.87027	18.71927	16.56828
0.60	20.94324	18.78473	16.62621
0.62	21.01622	18.85018	16.68414
0.64	21.08919	18.91563	16.74207
0.66	21.16216	18.98108	16.8
0.68	21.23514	19.04653	16.85793
0.70	21.30811	19.11199	16.91586
0.72	21.38108	19.17744	16.97379
0.74	21.45405	19.24289	17.03172
0.76	21.52703	19.30834	17.08966
0.78	21.6	19.37379	17.14759
0.80	22.03784	19.76651	17.49517
0.82	22.18378	19.89741	17.61103
0.84	22.47568	20.15922	17.84276
0.86	22.62162	20.29012	17.95862
0.88	22.76757	20.42103	18.07448
0.90	22.98649	20.61738	18.24828
0.92	23.05946	20.68283	18.30621
0.94	23.13243	20.74829	18.36414
0.96	23.20541	20.81374	18.42207

0.98	23.27838	20.87919	18.48
1.00	23.35135	20.7274	18.10345
1.02	23.42432	20.79285	18.16138
1.04	23.4973	20.8583	18.21931
1.06	23.57027	20.92376	18.27724
1.08	23.64324	20.98921	18.33517
1.10	23.71622	21.05466	18.3931
1.12	23.78919	21.12011	18.45103
1.14	23.86216	21.18556	18.50897
1.16	23.93514	21.25102	18.5669
1.18	24.00811	21.31647	18.62483
1.20	24.08108	21.38192	18.68276
1.22	24.15405	21.44737	18.74069
1.24	24.22703	21.51282	18.79862
1.26	24.3	21.57828	18.85655
1.28	24.37297	21.64373	18.91448
1.30	24.44595	21.70918	18.97241
1.32	24.51892	21.77463	19.03034
1.34	24.59189	21.84008	19.08828
1.36	24.66486	21.90554	19.14621
1.38	24.73784	21.97099	19.20414
1.40	24.81081	22.03644	19.26207
1.42	24.88378	22.10189	19.32
1.44	24.95676	22.16734	19.37793
1.46	25.02973	22.2328	19.43586
1.48	25.1027	22.29825	19.49379
1.50	25.17568	22.3637	19.55172
1.52	25.24865	22.42915	19.60966
1.54	25.32162	22.4946	19.66759
1.56	25.39459	22.56006	19.72552
1.58	25.46757	22.62551	19.78345
1.60	25.54054	22.69096	19.84138
1.62	25.61351	22.75641	19.89931
1.64	25.68649	22.82186	19.95724
1.66	25.75946	22.88732	20.01517
1.68	25.83243	22.95277	20.0731
1.70	25.90541	23.01822	20.13103
1.72	25.97838	23.08367	20.18897
1.74	26.05135	23.14912	20.2469
1.76	26.12432	23.21458	20.30483
1.78	26.1973	23.28003	20.36276
1.80	26.27027	23.34548	20.42069
1.82	26.34324	23.41093	20.47862
1.84	26.41622	23.47638	20.53655
1.86	26.48919	23.54184	20.59448
1.88	26.56216	23.60729	20.65241
1.90	26.63514	23.67274	20.71034
1.92	26.70811	23.73819	20.76828
1.94	26.78108	23.80364	20.82621
1.96	26.85405	23.8691	20.88414

1.98	26.92703	23.93455	20.94207
2.00	27	24	21

Supp. Table 28. Spectral displacement values, in mm, for the East-West directional Array and earthquake moment of 7.0 R.

Period (s)	$\xi = 0.02$	$\xi = 0.05$	$\xi = 0.10$
0.00	0	0	0
0.02	1.621621	1.353914	1.086207
0.04	3.027027	2.479031	1.931034
0.06	3.891891	3.575256	3.25862
0.08	4.432432	4.328285	4.224138
0.10	6.27027	5.609273	4.948276
0.12	7.243243	6.276793	5.310344
0.14	8.54054	7.408201	6.275862
0.16	9.513513	8.136066	6.75862
0.18	10.16216	8.762115	7.362068
0.20	11.35135	9.718778	8.086206
0.22	12.64865	10.66915	8.689655
0.24	13.62162	11.27633	8.931034
0.26	14.59459	11.82316	9.051724
0.28	14.64865	13.8657	13.08276
0.30	14.7027	13.91687	13.13103
0.32	14.75676	13.96803	13.17931
0.34	14.81081	14.0192	13.22759
0.36	14.86486	14.07036	13.27586
0.38	14.91892	14.12153	13.32414
0.40	14.97297	14.17269	13.37241
0.42	15.02703	14.22386	13.42069
0.44	15.08108	14.27502	13.46896
0.46	15.13513	14.32619	13.51724
0.48	15.18919	14.37735	13.56552
0.50	15.24324	14.42852	13.61379
0.52	15.2973	14.47968	13.66207
0.54	15.35135	14.53085	13.71034
0.56	15.4054	14.58201	13.75862
0.58	15.45946	14.63318	13.8069
0.60	15.51351	14.68434	13.85517
0.62	15.56757	14.73551	13.90345
0.64	15.62162	14.78667	13.95172
0.66	15.67567	14.83784	14
0.68	15.72973	14.889	14.04827
0.70	15.78378	14.94017	14.09655
0.72	15.83784	14.99133	14.14483
0.74	15.89189	15.0425	14.1931
0.76	15.94594	15.09366	14.24138
0.78	16	15.14483	14.28965
0.80	16.32432	15.45182	14.57931
0.82	16.43243	15.55415	14.67586
0.84	16.64865	15.75881	14.86896
0.86	16.75676	15.86114	14.96552
0.88	16.86486	15.96347	15.06207
0.90	17.02703	16.11696	15.2069
0.92	17.08108	16.16813	15.25517
0.94	17.13513	16.21929	15.30345
0.96	17.18919	16.27046	15.35172

0.98	17.24324	16.32162	15.4
1.00	17.2973	16.19175	15.08621
1.02	17.35135	16.24292	15.13448
1.04	17.4054	16.29408	15.18276
1.06	17.45946	16.34525	15.23103
1.08	17.51351	16.39641	15.27931
1.10	17.56757	16.44758	15.32759
1.12	17.62162	16.49874	15.37586
1.14	17.67567	16.54991	15.42414
1.16	17.72973	16.60107	15.47241
1.18	17.78378	16.65224	15.52069
1.20	17.83784	16.7034	15.56896
1.22	17.89189	16.75457	15.61724
1.24	17.94594	16.80573	15.66552
1.26	18	16.8569	15.71379
1.28	18.05405	16.90806	15.76207
1.30	18.10811	16.95923	15.81034
1.32	18.16216	17.01039	15.85862
1.34	18.21621	17.06155	15.9069
1.36	18.27027	17.11272	15.95517
1.38	18.32432	17.16388	16.00345
1.40	18.37838	17.21505	16.05172
1.42	18.43243	17.26621	16.1
1.44	18.48648	17.31738	16.14827
1.46	18.54054	17.36854	16.19655
1.48	18.59459	17.41971	16.24483
1.50	18.64865	17.47087	16.2931
1.52	18.7027	17.52204	16.34138
1.54	18.75675	17.5732	16.38965
1.56	18.81081	17.62437	16.43793
1.58	18.86486	17.67553	16.48621
1.60	18.91892	17.7267	16.53448
1.62	18.97297	17.77786	16.58276
1.64	19.02703	17.82903	16.63103
1.66	19.08108	17.88019	16.67931
1.68	19.13513	17.93136	16.72759
1.70	19.18919	17.98252	16.77586
1.72	19.24324	18.03369	16.82414
1.74	19.2973	18.08485	16.87241
1.76	19.35135	18.13602	16.92069
1.78	19.4054	18.18718	16.96896
1.80	19.45946	18.23835	17.01724
1.82	19.51351	18.28951	17.06552
1.84	19.56757	18.34068	17.11379
1.86	19.62162	18.39184	17.16207
1.88	19.67567	18.44301	17.21034
1.90	19.72973	18.49417	17.25862
1.92	19.78378	18.54534	17.3069
1.94	19.83784	18.5965	17.35517
1.96	19.89189	18.64767	17.40345

1.98	19.94594	18.69883	17.45172
2.00	20	18.75	17.5

Supp. Table 29. Spectral displacement values, in mm, for the North-South directional Array and earthquake moment of 5.5 R.

Period (s)	$\xi = 0.02$	$\xi = 0.05$	$\xi = 0.10$
0.00	0	0	0
0.02	6.72973	5.444175	4.158621
0.04	12.56216	9.977633	7.393103
0.06	16.15135	14.31361	12.47586
0.08	18.39459	17.2835	16.17241
0.10	26.02162	22.48322	18.94483
0.12	30.05946	25.19525	20.33103
0.14	35.44324	29.73541	24.02759
0.16	39.48108	32.67847	25.87586
0.18	42.17297	35.17959	28.18621
0.20	47.10811	39.03336	30.95862
0.22	52.49189	42.88043	33.26897
0.24	56.52973	45.36142	34.1931
0.26	60.56757	47.61137	34.65517
0.28	60.79189	55.44008	50.08828
0.30	61.01622	55.64466	50.2731
0.32	61.24054	55.84924	50.45793
0.34	61.46486	56.05381	50.64276
0.36	61.68919	56.25839	50.82759
0.38	61.91351	56.46296	51.01241
0.40	62.13784	56.66754	51.19724
0.42	62.36216	56.87212	51.38207
0.44	62.58649	57.07669	51.5669
0.46	62.81081	57.28127	51.75172
0.48	63.03514	57.48584	51.93655
0.50	63.25946	57.69042	52.12138
0.52	63.48378	57.895	52.30621
0.54	63.70811	58.09957	52.49103
0.56	63.93243	58.30415	52.67586
0.58	64.15676	58.50872	52.86069
0.60	64.38108	58.7133	53.04552
0.62	64.60541	58.91788	53.23034
0.64	64.82973	59.12245	53.41517
0.66	65.05405	59.32703	53.6
0.68	65.27838	59.5316	53.78483
0.70	65.5027	59.73618	53.96966
0.72	65.72703	59.94075	54.15448
0.74	65.95135	60.14533	54.33931
0.76	66.17568	60.34991	54.52414
0.78	66.4	60.55448	54.70897
0.80	67.74595	61.78194	55.81793
0.82	68.19459	62.19109	56.18759
0.84	69.09189	63.00939	56.9269
0.86	69.54054	63.41855	57.29655
0.88	69.98919	63.8277	57.66621
0.90	70.66216	64.44143	58.22069
0.92	70.88649	64.646	58.40552
0.94	71.11081	64.85058	58.59034
0.96	71.33514	65.05515	58.77517

0.98	71.55946	65.25973	58.96
1.00	71.78378	64.7712	57.75862
1.02	72.00811	64.97578	57.94345
1.04	72.23243	65.18035	58.12828
1.06	72.45676	65.38493	58.3131
1.08	72.68108	65.58951	58.49793
1.10	72.90541	65.79408	58.68276
1.12	73.12973	65.99866	58.86759
1.14	73.35405	66.20323	59.05241
1.16	73.57838	66.40781	59.23724
1.18	73.8027	66.61239	59.42207
1.20	74.02703	66.81696	59.6069
1.22	74.25135	67.02154	59.79172
1.24	74.47568	67.22611	59.97655
1.26	74.7	67.43069	60.16138
1.28	74.92432	67.63527	60.34621
1.30	75.14865	67.83984	60.53103
1.32	75.37297	68.04442	60.71586
1.34	75.5973	68.24899	60.90069
1.36	75.82162	68.45357	61.08552
1.38	76.04595	68.65815	61.27034
1.40	76.27027	68.86272	61.45517
1.42	76.49459	69.0673	61.64
1.44	76.71892	69.27187	61.82483
1.46	76.94324	69.47645	62.00966
1.48	77.16757	69.68103	62.19448
1.50	77.39189	69.8856	62.37931
1.52	77.61622	70.09018	62.56414
1.54	77.84054	70.29475	62.74897
1.56	78.06486	70.49933	62.93379
1.58	78.28919	70.7039	63.11862
1.60	78.51351	70.90848	63.30345
1.62	78.73784	71.11306	63.48828
1.64	78.96216	71.31763	63.6731
1.66	79.18649	71.52221	63.85793
1.68	79.41081	71.72678	64.04276
1.70	79.63514	71.93136	64.22759
1.72	79.85946	72.13594	64.41241
1.74	80.08378	72.34051	64.59724
1.76	80.30811	72.54509	64.78207
1.78	80.53243	72.74966	64.9669
1.80	80.75676	72.95424	65.15172
1.82	80.98108	73.15882	65.33655
1.84	81.20541	73.36339	65.52138
1.86	81.42973	73.56797	65.70621
1.88	81.65405	73.77254	65.89103
1.90	81.87838	73.97712	66.07586
1.92	82.1027	74.1817	66.26069
1.94	82.32703	74.38627	66.44552
1.96	82.55135	74.59085	66.63034

1.98	82.77568	74.79542	66.81517
2.00	83	75	67

Supp. Table 30. Spectral displacement values, in mm, for the North-South directional Array and earthquake moment of 6.0 R.

Period (s)	$\xi = 0.02$	$\xi = 0.05$	$\xi = 0.10$
0.00	0	0	0
0.02	1.216216	0.996039	0.775862
0.04	2.27027	1.82479	1.37931
0.06	2.918919	2.623253	2.327586
0.08	3.324324	3.170783	3.017241
0.10	4.702703	4.118593	3.534483
0.12	5.432432	4.612768	3.793103
0.14	6.405405	5.444082	4.482759
0.16	7.135135	5.981361	4.827586
0.18	7.621622	6.440121	5.258621
0.20	8.513514	7.144688	5.775862
0.22	9.486486	7.846692	6.206897
0.24	10.21622	8.297763	6.37931
0.26	10.94595	8.705732	6.465517
0.28	10.98649	10.16566	9.344828
0.30	11.02703	10.20317	9.37931
0.32	11.06757	10.24068	9.413793
0.34	11.10811	10.27819	9.448276
0.36	11.14865	10.3157	9.482759
0.38	11.18919	10.35322	9.517241
0.40	11.22973	10.39073	9.551724
0.42	11.27027	10.42824	9.586207
0.44	11.31081	10.46575	9.62069
0.46	11.35135	10.50326	9.655172
0.48	11.39189	10.54077	9.689655
0.50	11.43243	10.57829	9.724138
0.52	11.47297	10.6158	9.758621
0.54	11.51351	10.65331	9.793103
0.56	11.55405	10.69082	9.827586
0.58	11.59459	10.72833	9.862069
0.60	11.63514	10.76584	9.896552
0.62	11.67568	10.80336	9.931034
0.64	11.71622	10.84087	9.965517
0.66	11.75676	10.87838	10
0.68	11.7973	10.91589	10.03448
0.70	11.83784	10.9534	10.06897
0.72	11.87838	10.99091	10.10345
0.74	11.91892	11.02842	10.13793
0.76	11.95946	11.06594	10.17241
0.78	12	11.10345	10.2069
0.80	12.24324	11.32852	10.41379
0.82	12.32432	11.40354	10.48276
0.84	12.48649	11.55359	10.62069
0.86	12.56757	11.62861	10.68966
0.88	12.64865	11.70363	10.75862
0.90	12.77027	11.81617	10.86207
0.92	12.81081	11.85368	10.89655
0.94	12.85135	11.89119	10.93103
0.96	12.89189	11.9287	10.96552

0.98	12.93243	11.96622	11
1.00	12.97297	11.87442	10.77586
1.02	13.01351	11.91193	10.81034
1.04	13.05405	11.94944	10.84483
1.06	13.09459	11.98695	10.87931
1.08	13.13514	12.02446	10.91379
1.10	13.17568	12.06198	10.94828
1.12	13.21622	12.09949	10.98276
1.14	13.25676	12.137	11.01724
1.16	13.2973	12.17451	11.05172
1.18	13.33784	12.21202	11.08621
1.20	13.37838	12.24953	11.12069
1.22	13.41892	12.28705	11.15517
1.24	13.45946	12.32456	11.18966
1.26	13.5	12.36207	11.22414
1.28	13.54054	12.39958	11.25862
1.30	13.58108	12.43709	11.2931
1.32	13.62162	12.4746	11.32759
1.34	13.66216	12.51212	11.36207
1.36	13.7027	12.54963	11.39655
1.38	13.74324	12.58714	11.43103
1.40	13.78378	12.62465	11.46552
1.42	13.82432	12.66216	11.5
1.44	13.86486	12.69967	11.53448
1.46	13.90541	12.73719	11.56897
1.48	13.94595	12.7747	11.60345
1.50	13.98649	12.81221	11.63793
1.52	14.02703	12.84972	11.67241
1.54	14.06757	12.88723	11.7069
1.56	14.10811	12.92474	11.74138
1.58	14.14865	12.96226	11.77586
1.60	14.18919	12.99977	11.81034
1.62	14.22973	13.03728	11.84483
1.64	14.27027	13.07479	11.87931
1.66	14.31081	13.1123	11.91379
1.68	14.35135	13.14981	11.94828
1.70	14.39189	13.18733	11.98276
1.72	14.43243	13.22484	12.01724
1.74	14.47297	13.26235	12.05172
1.76	14.51351	13.29986	12.08621
1.78	14.55405	13.33737	12.12069
1.80	14.59459	13.37488	12.15517
1.82	14.63514	13.4124	12.18966
1.84	14.67568	13.44991	12.22414
1.86	14.71622	13.48742	12.25862
1.88	14.75676	13.52493	12.2931
1.90	14.7973	13.56244	12.32759
1.92	14.83784	13.59995	12.36207
1.94	14.87838	13.63747	12.39655
1.96	14.91892	13.67498	12.43103

1.98	14.95946	13.71249	12.46552
2.00	15	13.75	12.5

Supp. Table 31. Spectral displacement values, in mm, for the North-South directional Array and earthquake moment of 6.5 R.

Period (s)	$\xi = 0.02$	$\xi = 0.05$	$\xi = 0.10$
0.00	0	0	0
0.02	2.189189	1.653215	1.117241
0.04	4.086486	3.036347	1.986207
0.06	5.254054	4.302889	3.351724
0.08	5.983784	5.164306	4.344828
0.10	8.464865	6.77726	5.089655
0.12	9.778378	7.620224	5.462069
0.14	11.52973	8.992451	6.455172
0.16	12.84324	9.897484	6.951724
0.18	13.71892	10.64567	7.572414
0.20	15.32432	11.82078	8.317241
0.22	17.07568	13.0068	8.937931
0.24	18.38919	13.7877	9.186207
0.26	19.7027	14.50652	9.310345
0.28	19.77568	16.61611	13.45655
0.30	19.84865	16.67743	13.50621
0.32	19.92162	16.73874	13.55586
0.34	19.99459	16.80006	13.60552
0.36	20.06757	16.86137	13.65517
0.38	20.14054	16.92268	13.70483
0.40	20.21351	16.984	13.75448
0.42	20.28649	17.04531	13.80414
0.44	20.35946	17.10663	13.85379
0.46	20.43243	17.16794	13.90345
0.48	20.50541	17.22925	13.9531
0.50	20.57838	17.29057	14.00276
0.52	20.65135	17.35188	14.05241
0.54	20.72432	17.4132	14.10207
0.56	20.7973	17.47451	14.15172
0.58	20.87027	17.53582	14.20138
0.60	20.94324	17.59714	14.25103
0.62	21.01622	17.65845	14.30069
0.64	21.08919	17.71977	14.35034
0.66	21.16216	17.78108	14.4
0.68	21.23514	17.8424	14.44966
0.70	21.30811	17.90371	14.49931
0.72	21.38108	17.96502	14.54897
0.74	21.45405	18.02634	14.59862
0.76	21.52703	18.08765	14.64828
0.78	21.6	18.14897	14.69793
0.80	22.03784	18.51685	14.99586
0.82	22.18378	18.63948	15.09517
0.84	22.47568	18.88473	15.29379
0.86	22.62162	19.00736	15.3931
0.88	22.76757	19.12999	15.49241
0.90	22.98649	19.31393	15.64138
0.92	23.05946	19.37525	15.69103
0.94	23.13243	19.43656	15.74069
0.96	23.20541	19.49788	15.79034

0.98	23.27838	19.55919	15.84
1.00	23.35135	19.4343	15.51724
1.02	23.42432	19.49561	15.5669
1.04	23.4973	19.55692	15.61655
1.06	23.57027	19.61824	15.66621
1.08	23.64324	19.67955	15.71586
1.10	23.71622	19.74087	15.76552
1.12	23.78919	19.80218	15.81517
1.14	23.86216	19.86349	15.86483
1.16	23.93514	19.92481	15.91448
1.18	24.00811	19.98612	15.96414
1.20	24.08108	20.04744	16.01379
1.22	24.15405	20.10875	16.06345
1.24	24.22703	20.17007	16.1131
1.26	24.3	20.23138	16.16276
1.28	24.37297	20.29269	16.21241
1.30	24.44595	20.35401	16.26207
1.32	24.51892	20.41532	16.31172
1.34	24.59189	20.47664	16.36138
1.36	24.66486	20.53795	16.41103
1.38	24.73784	20.59926	16.46069
1.40	24.81081	20.66058	16.51034
1.42	24.88378	20.72189	16.56
1.44	24.95676	20.78321	16.60966
1.46	25.02973	20.84452	16.65931
1.48	25.1027	20.90583	16.70897
1.50	25.17568	20.96715	16.75862
1.52	25.24865	21.02846	16.80828
1.54	25.32162	21.08978	16.85793
1.56	25.39459	21.15109	16.90759
1.58	25.46757	21.2124	16.95724
1.60	25.54054	21.27372	17.0069
1.62	25.61351	21.33503	17.05655
1.64	25.68649	21.39635	17.10621
1.66	25.75946	21.45766	17.15586
1.68	25.83243	21.51897	17.20552
1.70	25.90541	21.58029	17.25517
1.72	25.97838	21.6416	17.30483
1.74	26.05135	21.70292	17.35448
1.76	26.12432	21.76423	17.40414
1.78	26.1973	21.82555	17.45379
1.80	26.27027	21.88686	17.50345
1.82	26.34324	21.94817	17.5531
1.84	26.41622	22.00949	17.60276
1.86	26.48919	22.0708	17.65241
1.88	26.56216	22.13212	17.70207
1.90	26.63514	22.19343	17.75172
1.92	26.70811	22.25474	17.80138
1.94	26.78108	22.31606	17.85103
1.96	26.85405	22.37737	17.90069

1.98	26.92703	22.43869	17.95034
2.00	27	22.5	18

Supp. Table 32. Spectral displacement values, in mm, for the North-South directional Array and earthquake moment of 7.0 R.

Period (s)	$\xi = 0.02$	$\xi = 0.05$	$\xi = 0.10$
0.00	0	0	0
0.02	1.135135	0.759981	0.384828
0.04	2.118919	1.401528	0.684138
0.06	2.724324	1.939403	1.154483
0.08	3.102702	2.299627	1.496552
0.10	4.389189	3.071146	1.753103
0.12	5.07027	3.475824	1.881379
0.14	5.978378	4.100913	2.223448
0.16	6.659459	4.526971	2.394483
0.18	7.113513	4.860894	2.608276
0.20	7.945945	5.405386	2.864827
0.22	8.854053	5.966337	3.07862
0.24	9.535134	6.349636	3.164138
0.26	10.21622	6.711556	3.206896
0.28	10.25405	7.444544	4.635034
0.30	10.29189	7.472014	4.652138
0.32	10.32973	7.499485	4.669241
0.34	10.36757	7.526956	4.686345
0.36	10.4054	7.554426	4.703448
0.38	10.44324	7.581897	4.720551
0.40	10.48108	7.609367	4.737655
0.42	10.51892	7.636838	4.754758
0.44	10.55676	7.664309	4.771862
0.46	10.59459	7.691779	4.788965
0.48	10.63243	7.71925	4.806069
0.50	10.67027	7.746721	4.823172
0.52	10.70811	7.774191	4.840276
0.54	10.74594	7.801662	4.857379
0.56	10.78378	7.829133	4.874482
0.58	10.82162	7.856603	4.891586
0.60	10.85946	7.884074	4.908689
0.62	10.8973	7.911544	4.925793
0.64	10.93513	7.939015	4.942896
0.66	10.97297	7.966486	4.96
0.68	11.01081	7.993956	4.977103
0.70	11.04865	8.021427	4.994207
0.72	11.08649	8.048898	5.01131
0.74	11.12432	8.076368	5.028413
0.76	11.16216	8.103839	5.045517
0.78	11.2	8.13131	5.06262
0.80	11.42703	8.296133	5.165241
0.82	11.5027	8.351075	5.199448
0.84	11.65405	8.460957	5.267862
0.86	11.72973	8.515899	5.302069
0.88	11.8054	8.57084	5.336276
0.90	11.91892	8.653252	5.387586
0.92	11.95676	8.680722	5.404689
0.94	11.99459	8.708193	5.421793
0.96	12.03243	8.735664	5.438896

0.98	12.07027	8.763134	5.456
1.00	12.10811	8.726467	5.344827
1.02	12.14594	8.753938	5.361931
1.04	12.18378	8.781408	5.379034
1.06	12.22162	8.808879	5.396138
1.08	12.25946	8.83635	5.413241
1.10	12.2973	8.86382	5.430344
1.12	12.33513	8.891291	5.447448
1.14	12.37297	8.918762	5.464551
1.16	12.41081	8.946232	5.481655
1.18	12.44865	8.973703	5.498758
1.20	12.48649	9.001173	5.515862
1.22	12.52432	9.028644	5.532965
1.24	12.56216	9.056115	5.550069
1.26	12.6	9.083585	5.567172
1.28	12.63784	9.111056	5.584275
1.30	12.67567	9.138527	5.601379
1.32	12.71351	9.165997	5.618482
1.34	12.75135	9.193468	5.635586
1.36	12.78919	9.220939	5.652689
1.38	12.82703	9.248409	5.669793
1.40	12.86486	9.27588	5.686896
1.42	12.9027	9.303351	5.704
1.44	12.94054	9.330821	5.721103
1.46	12.97838	9.358292	5.738207
1.48	13.01621	9.385762	5.75531
1.50	13.05405	9.413233	5.772413
1.52	13.09189	9.440704	5.789517
1.54	13.12973	9.468174	5.80662
1.56	13.16757	9.495645	5.823724
1.58	13.2054	9.523116	5.840827
1.60	13.24324	9.550586	5.857931
1.62	13.28108	9.578057	5.875034
1.64	13.31892	9.605528	5.892138
1.66	13.35676	9.632998	5.909241
1.68	13.39459	9.660469	5.926344
1.70	13.43243	9.687939	5.943448
1.72	13.47027	9.71541	5.960551
1.74	13.50811	9.742881	5.977655
1.76	13.54594	9.770351	5.994758
1.78	13.58378	9.797822	6.011862
1.80	13.62162	9.825293	6.028965
1.82	13.65946	9.852763	6.046069
1.84	13.6973	9.880234	6.063172
1.86	13.73513	9.907705	6.080275
1.88	13.77297	9.935175	6.097379
1.90	13.81081	9.962646	6.114482
1.92	13.84865	9.990117	6.131586
1.94	13.88649	10.01759	6.148689
1.96	13.92432	10.04506	6.165793

1.98	13.96216	10.07253	6.182896
2.00	14	10.1	6.2

Supp. Table 33. Spectral displacement values, in mm, for the Vertical Z directional Array and earthquake moment of 5.5 R.

Period (s)	$\xi = 0.02$	$\xi = 0.05$	$\xi = 0.10$
0.00	0	0	0
0.02	3.081081	2.347437	1.613793
0.04	5.751351	4.310158	2.868966
0.06	7.394595	6.117987	4.841379
0.08	8.421622	7.348742	6.275862
0.10	11.91351	9.632619	7.351724
0.12	13.76216	10.82591	7.889655
0.14	16.22703	12.77558	9.324138
0.16	18.07568	14.05853	10.04138
0.18	19.30811	15.12302	10.93793
0.20	21.56757	16.79068	12.01379
0.22	24.03243	18.47139	12.91034
0.24	25.88108	19.57502	13.26897
0.26	27.72973	20.589	13.44828
0.28	27.83243	23.63484	19.43724
0.30	27.93514	23.72205	19.50897
0.32	28.03784	23.80926	19.58069
0.34	28.14054	23.89648	19.65241
0.36	28.24324	23.98369	19.72414
0.38	28.34595	24.0709	19.79586
0.40	28.44865	24.15812	19.86759
0.42	28.55135	24.24533	19.93931
0.44	28.65405	24.33254	20.01103
0.46	28.75676	24.41976	20.08276
0.48	28.85946	24.50697	20.15448
0.50	28.96216	24.59418	20.22621
0.52	29.06486	24.6814	20.29793
0.54	29.16757	24.76861	20.36966
0.56	29.27027	24.85582	20.44138
0.58	29.37297	24.94304	20.5131
0.60	29.47568	25.03025	20.58483
0.62	29.57838	25.11747	20.65655
0.64	29.68108	25.20468	20.72828
0.66	29.78378	25.29189	20.8
0.68	29.88649	25.37911	20.87172
0.70	29.98919	25.46632	20.94345
0.72	30.09189	25.55353	21.01517
0.74	30.19459	25.64075	21.0869
0.76	30.2973	25.72796	21.15862
0.78	30.4	25.81517	21.23034
0.80	31.01622	26.33845	21.66069
0.82	31.22162	26.51288	21.80414
0.84	31.63243	26.86173	22.09103
0.86	31.83784	27.03616	22.23448
0.88	32.04324	27.21059	22.37793
0.90	32.35135	27.47223	22.5931
0.92	32.45405	27.55944	22.66483
0.94	32.55676	27.64665	22.73655
0.96	32.65946	27.73387	22.80828

0.98	32.76216	27.82108	22.88
1.00	32.86486	27.63933	22.41379
1.02	32.96757	27.72654	22.48552
1.04	33.07027	27.81376	22.55724
1.06	33.17297	27.90097	22.62897
1.08	33.27568	27.98818	22.70069
1.10	33.37838	28.0754	22.77241
1.12	33.48108	28.16261	22.84414
1.14	33.58378	28.24982	22.91586
1.16	33.68649	28.33704	22.98759
1.18	33.78919	28.42425	23.05931
1.20	33.89189	28.51146	23.13103
1.22	33.99459	28.59868	23.20276
1.24	34.0973	28.68589	23.27448
1.26	34.2	28.7731	23.34621
1.28	34.3027	28.86032	23.41793
1.30	34.40541	28.94753	23.48966
1.32	34.50811	29.03474	23.56138
1.34	34.61081	29.12196	23.6331
1.36	34.71351	29.20917	23.70483
1.38	34.81622	29.29638	23.77655
1.40	34.91892	29.3836	23.84828
1.42	35.02162	29.47081	23.92
1.44	35.12432	29.55802	23.99172
1.46	35.22703	29.64524	24.06345
1.48	35.32973	29.73245	24.13517
1.50	35.43243	29.81966	24.2069
1.52	35.53514	29.90688	24.27862
1.54	35.63784	29.99409	24.35034
1.56	35.74054	30.0813	24.42207
1.58	35.84324	30.16852	24.49379
1.60	35.94595	30.25573	24.56552
1.62	36.04865	30.34295	24.63724
1.64	36.15135	30.43016	24.70897
1.66	36.25405	30.51737	24.78069
1.68	36.35676	30.60459	24.85241
1.70	36.45946	30.6918	24.92414
1.72	36.56216	30.77901	24.99586
1.74	36.66486	30.86623	25.06759
1.76	36.76757	30.95344	25.13931
1.78	36.87027	31.04065	25.21103
1.80	36.97297	31.12787	25.28276
1.82	37.07568	31.21508	25.35448
1.84	37.17838	31.30229	25.42621
1.86	37.28108	31.38951	25.49793
1.88	37.38378	31.47672	25.56966
1.90	37.48649	31.56393	25.64138
1.92	37.58919	31.65115	25.7131
1.94	37.69189	31.73836	25.78483
1.96	37.79459	31.82557	25.85655

1.98	37.8973	31.91279	25.92828
2.00	38	32	26

Supp. Table 34. Spectral displacement values, in mm, for the Vertical Z directional Array and earthquake moment of 6.0 R.

Period (s)	$\xi = 0.02$	$\xi = 0.05$	$\xi = 0.10$
0.00	0	0	0
0.02	1.297297	1.014856	0.732414
0.04	2.421622	1.861845	1.302069
0.06	3.113514	2.655377	2.197241
0.08	3.545946	3.197111	2.848276
0.10	5.016216	4.176384	3.336552
0.12	5.794595	4.687642	3.58069
0.14	6.832432	5.532078	4.231724
0.16	7.610811	6.084026	4.557241
0.18	8.12973	6.546934	4.964138
0.20	9.081081	7.266747	5.452414
0.22	10.11892	7.989115	5.85931
0.24	10.8973	8.459683	6.022069
0.26	11.67568	8.889562	6.103448
0.28	11.71892	10.27022	8.821517
0.30	11.76216	10.30812	8.854069
0.32	11.80541	10.34601	8.886621
0.34	11.84865	10.38391	8.919172
0.36	11.89189	10.42181	8.951724
0.38	11.93514	10.45971	8.984276
0.40	11.97838	10.4976	9.016828
0.42	12.02162	10.5355	9.049379
0.44	12.06486	10.5734	9.081931
0.46	12.10811	10.6113	9.114483
0.48	12.15135	10.64919	9.147034
0.50	12.19459	10.68709	9.179586
0.52	12.23784	10.72499	9.212138
0.54	12.28108	10.76289	9.24469
0.56	12.32432	10.80078	9.277241
0.58	12.36757	10.83868	9.309793
0.60	12.41081	10.87658	9.342345
0.62	12.45405	10.91448	9.374897
0.64	12.4973	10.95237	9.407448
0.66	12.54054	10.99027	9.44
0.68	12.58378	11.02817	9.472552
0.70	12.62703	11.06607	9.505103
0.72	12.67027	11.10396	9.537655
0.74	12.71351	11.14186	9.570207
0.76	12.75676	11.17976	9.602759
0.78	12.8	11.21766	9.63531
0.80	13.05946	11.44504	9.830621
0.82	13.14595	11.52084	9.895724
0.84	13.31892	11.67242	10.02593
0.86	13.40541	11.74822	10.09103
0.88	13.49189	11.82401	10.15614
0.90	13.62162	11.93771	10.25379
0.92	13.66486	11.9756	10.28634
0.94	13.70811	12.0135	10.3189
0.96	13.75135	12.0514	10.35145

0.98	13.79459	12.0893	10.384
1.00	13.83784	12.00513	10.17241
1.02	13.88108	12.04302	10.20497
1.04	13.92432	12.08092	10.23752
1.06	13.96757	12.11882	10.27007
1.08	14.01081	12.15672	10.30262
1.10	14.05405	12.19461	10.33517
1.12	14.0973	12.23251	10.36772
1.14	14.14054	12.27041	10.40028
1.16	14.18378	12.30831	10.43283
1.18	14.22703	12.3462	10.46538
1.20	14.27027	12.3841	10.49793
1.22	14.31351	12.422	10.53048
1.24	14.35676	12.4599	10.56303
1.26	14.4	12.49779	10.59559
1.28	14.44324	12.53569	10.62814
1.30	14.48649	12.57359	10.66069
1.32	14.52973	12.61149	10.69324
1.34	14.57297	12.64938	10.72579
1.36	14.61622	12.68728	10.75834
1.38	14.65946	12.72518	10.7909
1.40	14.7027	12.76308	10.82345
1.42	14.74595	12.80097	10.856
1.44	14.78919	12.83887	10.88855
1.46	14.83243	12.87677	10.9211
1.48	14.87568	12.91467	10.95366
1.50	14.91892	12.95256	10.98621
1.52	14.96216	12.99046	11.01876
1.54	15.00541	13.02836	11.05131
1.56	15.04865	13.06626	11.08386
1.58	15.09189	13.10415	11.11641
1.60	15.13514	13.14205	11.14897
1.62	15.17838	13.17995	11.18152
1.64	15.22162	13.21785	11.21407
1.66	15.26486	13.25574	11.24662
1.68	15.30811	13.29364	11.27917
1.70	15.35135	13.33154	11.31172
1.72	15.39459	13.36944	11.34428
1.74	15.43784	13.40733	11.37683
1.76	15.48108	13.44523	11.40938
1.78	15.52432	13.48313	11.44193
1.80	15.56757	13.52103	11.47448
1.82	15.61081	13.55892	11.50703
1.84	15.65405	13.59682	11.53959
1.86	15.6973	13.63472	11.57214
1.88	15.74054	13.67262	11.60469
1.90	15.78378	13.71051	11.63724
1.92	15.82703	13.74841	11.66979
1.94	15.87027	13.78631	11.70234
1.96	15.91351	13.82421	11.7349

1.98	15.95676	13.8621	11.76745
2.00	16	13.9	11.8

Supp. Table 35. Spectral displacement values, in mm, for the Vertical Z directional Array and earthquake moment of 6.5 R.

Period (s)	$\xi = 0.02$	$\xi = 0.05$	$\xi = 0.10$
0.00	0	0	0
0.02	1.216216	1.005349	0.794483
0.04	2.27027	1.841342	1.412414
0.06	2.918919	2.651184	2.383448
0.08	3.324324	3.20699	3.089655
0.10	4.702703	4.161007	3.61931
0.12	5.432432	4.658285	3.884138
0.14	6.405405	5.497875	4.590345
0.16	7.135135	6.039292	4.943448
0.18	7.621622	6.503225	5.384828
0.20	8.513514	7.213998	5.914483
0.22	9.486486	7.921174	6.355862
0.24	10.21622	8.374315	6.532414
0.26	10.94595	8.783318	6.62069
0.28	10.98649	10.27779	9.569103
0.30	11.02703	10.31572	9.604414
0.32	11.06757	10.35365	9.639724
0.34	11.10811	10.39157	9.675034
0.36	11.14865	10.4295	9.710345
0.38	11.18919	10.46742	9.745655
0.40	11.22973	10.50535	9.780966
0.42	11.27027	10.54327	9.816276
0.44	11.31081	10.5812	9.851586
0.46	11.35135	10.61912	9.886897
0.48	11.39189	10.65705	9.922207
0.50	11.43243	10.69497	9.957517
0.52	11.47297	10.7329	9.992828
0.54	11.51351	10.77083	10.02814
0.56	11.55405	10.80875	10.06345
0.58	11.59459	10.84668	10.09876
0.60	11.63514	10.8846	10.13407
0.62	11.67568	10.92253	10.16938
0.64	11.71622	10.96045	10.20469
0.66	11.75676	10.99838	10.24
0.68	11.7973	11.0363	10.27531
0.70	11.83784	11.07423	10.31062
0.72	11.87838	11.11215	10.34593
0.74	11.91892	11.15008	10.38124
0.76	11.95946	11.18801	10.41655
0.78	12	11.22593	10.45186
0.80	12.24324	11.45348	10.66372
0.82	12.32432	11.52933	10.73434
0.84	12.48649	11.68104	10.87559
0.86	12.56757	11.75689	10.94621
0.88	12.64865	11.83274	11.01683
0.90	12.77027	11.94651	11.12276
0.92	12.81081	11.98444	11.15807
0.94	12.85135	12.02237	11.19338
0.96	12.89189	12.06029	11.22869

0.98	12.93243	12.09822	11.264
1.00	12.97297	12.00373	11.03448
1.02	13.01351	12.04165	11.06979
1.04	13.05405	12.07958	11.1051
1.06	13.09459	12.1175	11.14041
1.08	13.13514	12.15543	11.17572
1.10	13.17568	12.19336	11.21103
1.12	13.21622	12.23128	11.24634
1.14	13.25676	12.26921	11.28166
1.16	13.2973	12.30713	11.31697
1.18	13.33784	12.34506	11.35228
1.20	13.37838	12.38298	11.38759
1.22	13.41892	12.42091	11.4229
1.24	13.45946	12.45883	11.45821
1.26	13.5	12.49676	11.49352
1.28	13.54054	12.53468	11.52883
1.30	13.58108	12.57261	11.56414
1.32	13.62162	12.61053	11.59945
1.34	13.66216	12.64846	11.63476
1.36	13.7027	12.68639	11.67007
1.38	13.74324	12.72431	11.70538
1.40	13.78378	12.76224	11.74069
1.42	13.82432	12.80016	11.776
1.44	13.86486	12.83809	11.81131
1.46	13.90541	12.87601	11.84662
1.48	13.94595	12.91394	11.88193
1.50	13.98649	12.95186	11.91724
1.52	14.02703	12.98979	11.95255
1.54	14.06757	13.02771	11.98786
1.56	14.10811	13.06564	12.02317
1.58	14.14865	13.10357	12.05848
1.60	14.18919	13.14149	12.09379
1.62	14.22973	13.17942	12.1291
1.64	14.27027	13.21734	12.16441
1.66	14.31081	13.25527	12.19972
1.68	14.35135	13.29319	12.23503
1.70	14.39189	13.33112	12.27034
1.72	14.43243	13.36904	12.30566
1.74	14.47297	13.40697	12.34097
1.76	14.51351	13.44489	12.37628
1.78	14.55405	13.48282	12.41159
1.80	14.59459	13.52075	12.4469
1.82	14.63514	13.55867	12.48221
1.84	14.67568	13.5966	12.51752
1.86	14.71622	13.63452	12.55283
1.88	14.75676	13.67245	12.58814
1.90	14.7973	13.71037	12.62345
1.92	14.83784	13.7483	12.65876
1.94	14.87838	13.78622	12.69407
1.96	14.91892	13.82415	12.72938

1.98	14.95946	13.86207	12.76469
2.00	15	13.9	12.8

Supp. Table 36. Spectral displacement values, in mm, for the Vertical Z directional Array and earthquake moment of 7.0 R.