

Probabilistic seismic hazard analysis using logic tree approach- Patna district (India)

Anbazhagan P., Ketan Bajaj, Karanpreet Matharu, Sayed SR Moustafa, and Nassir S.N. Al-Arifi

Table S1 M_{max} corresponds to seismic sources used in the hazard analysis

Fault Name	M_{obs}^{max}	M_{max} Estimation			M_{max} Taken for Hazard Analysis
		Kijko and Sellevoll (1989)	By Incremental value	By Regional Rupture Characteristics	
MBT	8.00	8.0	8.50	8.1	8.2
MCT	7.00	7.0	7.50	7.9	7.5
s01	5.40	5.4	5.90	6.9	6.2
s02	5.40	5.4	5.90	7.2	6.3
s03	5.20	5.2	5.70	7.1	6.1
s04	5.10	5.1	5.60	6.2	5.7
s05	5.20	5.2	5.70	6.9	6.1
s06	5.80	5.9	6.30	6.9	6.4
s07	5.80	6.6	6.30	6.3	6.4
s08	4.50	4.5	5.00	7.2	5.7
s09	5.60	5.6	6.10	6.9	6.3
s10	6.00	6.0	6.50	6.8	6.5
s100	4.60	4.9	5.10	5.0	5.0
s101	4.80	6.0	5.30	5.3	5.5
s102	5.50	6.1	6.00	5.7	5.9
s103	4.60	4.9	5.10	5.2	5.1
s104	5.40	5.5	5.90	6.7	6.1
s105	6.80	6.8	7.30	7.1	7.1
s106	6.80	6.8	7.30	7.2	7.1
s107	5.60	5.7	6.10	6.1	6.0
s108	4.50	4.7	5.00	5.5	5.1
s109	6.70	6.7	7.20	7.0	7.0
s11	5.60	5.6	6.10	7.1	6.4
s110	4.50	4.6	5.00	6.5	5.5
s111	6.00	7.0	6.50	6.3	6.6
s112	6.20	6.3	6.70	6.5	6.5
s113	4.50	6.2	5.00	6.0	5.8
s114	6.00	6.1	6.50	6.3	6.3
s115	5.20	5.4	5.70	6.0	5.7
s116	4.50	6.2	5.00	5.6	5.6
s117	4.80	4.9	5.30	5.0	5.1
s118	4.20	6.1	4.70	4.5	5.0
s119	4.50	4.7	5.00	6.1	5.4
s12	6.40	6.4	6.90	6.9	6.7
s120	5.50	5.7	6.00	6.4	6.1
s121	5.50	5.7	6.00	6.0	5.9
s122	4.90	5.1	5.40	5.3	5.3
s123	5.80	5.9	6.30	6.2	6.1
s124	5.60	5.8	6.10	6.0	6.0
s125	5.80	6.6	6.30	6.5	6.5
s126	5.60	5.8	6.10	5.9	5.9
s127	5.90	6.2	6.40	6.1	6.2
s128	6.40	6.4	6.90	7.3	6.9
s129	5.90	6.2	6.40	6.4	6.3
s13	5.20	5.2	5.70	6.9	6.0
s130	6.80	6.8	7.30	7.2	7.1
s131	5.30	5.4	5.80	6.6	6.0
s132	5.30	5.8	5.80	5.8	5.8
s133	4.70	4.6	5.20	5.1	5.0
s134	5.50	6.1	6.00	5.7	5.9
s135	4.20	6.1	4.70	4.5	5.0

s136	4.20	6.1	4.70	4.8	5.2
s137	4.30	4.4	4.80	4.7	4.6
s138	5.10	5.3	5.60	5.7	5.6
s139	5.60	5.6	6.10	6.9	6.3
s14	5.10	5.2	5.60	6.8	6.0
s140	5.30	5.5	5.80	5.8	5.7
s141	6.20	6.3	6.70	6.7	6.6
s142	5.00	6.4	5.50	5.4	5.7
s143	5.80	6.1	6.30	6.1	6.2
s144	4.50	6.2	5.00	5.0	5.4
s145	4.50	5.5	5.00	5.2	5.3
s146	5.30	5.3	5.80	6.9	6.1
s147	5.10	5.2	5.60	6.2	5.7
s148	5.80	5.9	6.30	6.5	6.3
s149	4.50	5.5	5.00	5.0	5.2
s15	5.50	5.6	6.00	7.0	6.3
s150	5.30	5.5	5.80	5.8	5.7
s151	5.10	5.6	5.60	5.6	5.6
s152	4.30	4.4	4.80	4.7	4.6
s153	4.30	4.4	4.80	4.7	4.6
s154	5.10	5.3	5.60	5.5	5.5
s155	4.50	5.5	5.00	5.0	5.1
s156	4.70	5.1	5.20	5.1	5.1
s157	5.80	5.9	6.30	6.8	6.4
s158	5.50	5.7	6.00	6.6	6.2
s159	4.50	6.2	5.00	6.0	5.7
s16	5.50	5.6	6.00	6.8	6.2
s160	5.00	5.2	5.50	6.0	5.6
s161	6.20	6.2	6.70	7.2	6.8
s162	4.50	4.6	5.00	6.4	5.4
s163	4.50	6.2	5.00	6.4	5.9
s164	4.50	4.6	5.00	6.1	5.3
s165	4.50	6.2	5.00	5.9	5.7
s166	4.50	4.7	5.00	5.5	5.1
s167	4.70	5.1	5.20	5.1	5.1
s168	4.80	6.0	5.30	5.1	5.4
s169	4.60	4.9	5.10	5.1	5.0
s17	5.10	5.2	5.60	6.8	6.0
s170	4.50	5.5	5.00	4.8	5.1
s171	5.10	5.2	5.60	6.2	5.7
s172	5.20	5.2	5.70	6.8	6.0
s173	4.50	6.2	5.00	5.2	5.4
s174	5.20	5.7	5.70	5.6	5.7
s175	4.20	6.1	4.70	4.5	5.0
s176	4.00	5.4	4.50	4.6	4.8
s18	5.50	6.1	6.00	6.8	6.4
s19	5.50	5.5	6.00	7.1	6.3
s20	5.50	5.5	6.00	6.9	6.2
s21	5.20	5.2	5.70	6.4	5.8
s22	5.20	5.2	5.70	6.3	5.8
s23	4.20	6.1	4.70	4.7	5.1
s24	4.50	6.2	5.00	5.7	5.6
s25	4.50	4.5	5.00	7.4	5.8
s26	5.40	5.5	5.90	6.2	5.9
s27	5.40	5.6	5.90	6.6	6.1
s28	5.20	5.2	5.70	6.8	6.0
s29	5.20	5.3	5.70	6.5	5.9
s30	5.40	6.0	5.90	6.5	6.2
s31	5.20	5.3	5.70	6.6	6.0
s32	5.20	5.7	5.70	6.6	6.1
s33	5.90	6.2	6.40	6.6	6.4
s34	5.40	5.4	5.90	7.2	6.3
s35	4.50	4.5	5.00	6.8	5.6
s36	5.50	5.5	6.00	6.9	6.2
s37	5.20	5.4	5.70	6.2	5.8
s38	4.70	5.1	5.20	6.3	5.6

s39	5.20	5.3	5.70	6.6	5.9
s40	5.20	5.3	5.70	6.1	5.7
s41	5.70	6.4	6.20	6.2	6.3
s42	5.70	6.0	6.20	6.2	6.1
s43	4.60	4.7	5.10	6.6	5.6
s44	5.30	5.3	5.80	7.1	6.2
s45	6.80	6.8	7.30	7.3	7.1
s46	5.10	5.3	5.60	6.1	5.7
s47	4.80	8.0	5.30	5.8	6.3
s48	5.30	5.4	5.80	6.6	6.0
s49	5.70	5.8	6.20	6.7	6.3
s50	6.10	6.1	6.60	6.8	6.5
s51	4.70	5.1	5.20	6.0	5.5
s52	5.90	6.0	6.40	6.6	6.3
s53	5.90	6.0	6.40	6.7	6.4
s54	6.20	6.2	6.70	6.9	6.6
s55	4.60	4.9	5.10	5.7	5.3
s56	5.70	5.8	6.20	6.1	6.0
s57	6.70	6.7	7.20	7.3	7.1
s58	5.40	5.4	5.90	7.2	6.3
s59	6.80	6.8	7.30	7.1	7.1
s60	5.40	5.4	5.90	7.2	6.3
s61	5.70	5.7	6.20	6.2	6.1
s62	7.00	7.0	7.50	7.3	7.3
s63	6.30	6.5	6.80	6.6	6.6
s64	4.90	5.0	5.40	6.6	5.7
s65	5.70	6.0	6.20	6.0	6.0
s66	5.00	5.5	5.50	5.4	5.4
s67	5.10	5.2	5.60	6.1	5.7
s68	5.00	5.2	5.50	5.7	5.5
s69	6.20	6.3	6.70	6.8	6.6
s70	4.90	5.4	5.40	5.4	5.4
s71	4.70	4.8	5.20	6.3	5.5
s72	4.80	4.9	5.30	5.9	5.4
s73	6.30	6.5	6.80	6.7	6.7
s74	5.60	6.3	6.10	6.1	6.2
s75	5.00	5.5	5.50	6.0	5.7
s76	6.10	6.1	6.60	6.5	6.4
s77	4.90	5.1	5.40	6.6	5.8
s78	6.10	7.2	6.60	6.3	6.7
s79	5.90	6.0	6.40	6.5	6.3
s80	4.50	6.2	5.00	5.0	5.4
s81	4.60	5.7	5.10	5.2	5.3
s82	4.90	5.0	5.40	6.6	5.7
s83	5.80	5.8	6.30	7.1	6.5
s84	4.80	5.2	5.30	5.4	5.3
s85	5.50	5.6	6.00	5.8	5.8
s86	4.80	5.2	5.30	5.3	5.3
s87	4.90	5.4	5.40	5.2	5.3
s88	4.60	4.9	5.10	5.3	5.1
s89	5.10	5.6	5.60	5.6	5.6
s90	5.80	6.6	6.30	6.4	6.4
s91	4.50	5.5	5.00	4.8	5.1
s92	4.30	4.4	4.80	4.7	4.6
s93	4.50	5.5	5.00	4.7	5.1
s94	4.80	5.2	5.30	5.2	5.3
s95	4.30	4.4	4.80	4.8	4.7
s96	4.70	4.6	5.20	5.1	5.0
s97	5.10	5.2	5.60	5.5	5.4
s98	4.50	5.5	5.00	4.9	5.1
s99	4.50	4.7	5.00	5.1	4.9