

Supplementary Materials

Table S1: Estimated b -values for each region by applying the maximum likelihood estimate, along with the confidence interval level of residuals.

Zone	b	Level of fit (%)
I	1.05	93.3
II	0.93	93.4
III	1.00	92.4
IV	1.13	93.6
V	0.98	96.5
VI	0.96	92.4

Table S2: Results of stacked fits of the RJ89 model within the designed seismic zones, using variable time windows (10, 60, 120 days) and mean ($b=1.06$) or region-specific b -values through the maximum-likelihood estimation. Stacked fits of 60-day and mean b -value are illustrated in Figure 3 of the main article.

Days after M_m	b	Zone													
		All		I		II		III		IV		V		VI	
		a	p	a	p	a	p	a	p	a	p	a	p	a	p
10	Mean	-1.67	0.83	-1.43	1.63	-1.36	0.82	-1.83	0.56	-1.84	0.90	-1.58	1.02	-1.82	1.17
	Specific			-1.41		-1.01		-1.66		-2.04		-1.35		-1.35	
60	Mean	-1.66	0.86	-1.45	1.74	-1.32	1.06	-1.79	0.65	-1.83	0.94	-1.57	1.06	-1.82	1.12
	Specific			-1.43		-0.97		-1.61		-2.02		-1.34		-1.36	
120	Mean	-1.65	0.90	-1.45	1.77	-1.31	1.09	-1.74	0.74	-1.83	0.93	-1.57	1.08	-1.83	1.07
	Specific			-1.43		-0.96		-1.56		-2.03		-1.33		-1.38	

Table S3: Overview of the dataset used for the analysis. Date (columns 2-4), focal coordinates (columns 5-6), mainshock magnitude (column 7) and focal mechanism classification (column 8) of the mainshocks selected are shown. Column 9 indicates their relative placement among the designed zones and columns 10 and 11 show the aftershock duration (T_a) and the relative productivity (RP) of their aftershock sequence, respectively.

No	Year	Month	Day	Lat (°)	Lon (°)	M_w	FM	Zone	T_a	RP
1	1995	5	13	40.160	21.670	6.5	N	V	318	+0.80
2	1995	6	15	38.362	22.200	6.5	N	IV	437	+0.11
3	1995	12	7	34.780	23.970	5.6	R	III	-	-0.84
4	1996	7	20	36.070	27.459	6.2	N	V	-	-0.67
5	1997	10	13	36.446	22.160	6.4	R	III	58	-0.36
6	1997	11	5	38.395	22.452	5.6	N-SS	IV	-	-0.44
7	1997	11	14	38.729	25.913	5.8	SS-N	VI	117	+0.37
8	1997	11	18	37.422	20.619	6.6	R	III	390	+0.75
9	1998	4	29	35.961	21.880	5.5	R-SS	III	-	-0.47
10	1999	9	7	38.062	23.537	6	N	V	407	+0.42
11	2000	4	5	34.220	25.690	5.5	R	III	-	-0.07
12	2000	5	24	35.918	21.875	5.7	R	III	52	+0.02

13	2000	5	26	38.922	20.640	5.5	SS	II	-	-0.23
14	2001	6	10	38.603	25.574	5.6	SS	VI	-	+0.70
15	2001	6	23	35.947	27.693	5.7	SS	III	-	-0.91
16	2001	7	26	38.995	24.382	6.4	SS	VI	523	+0.47
17	2002	1	22	35.634	26.628	6.1	N	V	-	-0.59
18	2002	12	2	37.790	21.081	5.6	SS-N	III	-	+0.55
19	2003	4	10	38.255	27.169	5.7	SS-N	V	79	+0.02
20	2003	8	14	38.744	20.539	6.2	SS-N	II	312	+0.80
21	2003	10	17	35.998	22.396	5.5	R	III	-	-0.59
22	2004	3	17	34.779	23.397	6	SS	III	-	-1.12
23	2004	8	4	36.902	27.772	5.5	N	V	-	+0.71
24	2004	10	7	36.55	26.796	5.5	R-SS	V	-	-0.77
25	2005	10	17	38.097	26.881	5.8	SS	V	300	+0.93
26	2005	10	18	37.768	21.007	5.7	R	III	96	+0.29
27	2005	10	20	38.124	26.768	5.8	SS	V	-	+1.03
28	2006	1	8	36.174	23.334	6.7	R-SS	V	154	-0.33
29	2006	3	14	37.831	19.857	5.5	SS	II	-	-0.77
30	2006	4	12	37.643	20.981	5.7	R-SS	III	187	+0.98
31	2007	1	18	34.724	22.402	5.7	R	III	-	-0.91
32	2007	3	25	38.364	20.340	5.7	SS-R	II	71	+0.88
33	2007	5	21	34.602	26.961	5.5	R	III	-	-0.77
34	2008	1	6	37.139	22.726	6.2	R-SS	V	-	-1.09
35	2008	2	4	38.101	21.985	5.5	N	IV	-	-0.23
36	2008	2	14	36.575	21.868	6.8	R	III	168	+0.64
37	2008	3	28	34.938	25.322	5.5	R	V	-	-0.60
38	2008	6	8	37.952	21.537	6.4	SS	IV	500	+0.36
39	2008	6	21	36.108	21.929	5.6	R	III	66	+0.56
40	2008	7	15	35.832	28.034	6.4	SS-N	III	-	-0.17
41	2009	2	16	37.077	20.749	5.5	R-SS	III	110	-0.37
42	2009	7	1	34.042	25.411	6.4	R	III	278	+0.17
43	2009	11	3	37.349	20.176	5.8	R	III	367	-0.98
44	2010	1	18	38.404	21.961	5.5	N	IV	-	+0.36
45	2010	8	22	37.389	20.145	5.5	R	III	109	-0.47
46	2011	4	1	35.646	26.569	6.1	SS	V	-	-1.19
47	2011	11	23	34.493	25.067	5.5	N-SS	III	-	-0.77
48	2012	4	16	36.646	21.497	5.8	R	III	-	-0.81
49	2013	1	8	39.670	25.55	5.8	SS	VI	320	-0.33
50	2013	6	15	34.464	25.011	6.3	R	III	125	-0.07
51	2013	10	12	35.471	23.281	6.8	R	III	200	-1.14
52	2014	1	26	38.154	20.287	6.1	SS	II	395	+0.65
53	2014	5	24	40.286	25.375	6.9	SS	VI	258	-0.51
54	2014	8	29	36.685	23.706	5.8	SS	V	-	-0.98
55	2015	4	16	35.146	26.888	6.1	R-SS	III	227	+0.06
56	2015	11	17	38.673	20.53	6.5	SS-R	II	525	+0.05
57	2016	5	25	34.918	26.261	5.7	N	III	-	-0.91
58	2016	10	15	39.786	20.723	5.5	R	I	-	0.46

59	2017	6	12	38.849	26.305	6.4	N	VI	310	-0.12
60	2017	7	20	36.959	27.453	6.6	N	V	428	+0.07
61	2018	6	25	36.651	21.35	5.5	SS	III	-	-0.17
62	2018	9	27	36.659	21.369	5.5	SS-N	III	-	-0.77
63	2018	10	25	37.39	20.625	6.8	R-SS	III	391	+0.47
64	2020	1	30	35.377	27.795	5.5	N	III	-	-0.37
65	2020	1	30	35.198	27.819	5.8	N-SS	III	-	-0.28
66	2020	3	21	39.304	20.621	5.7	R	I	95	-0.61
67	2020	5	2	34.551	25.614	6.6	R	III	91	-0.57
68	2020	6	28	36.683	28.249	5.5	SS-R	V	-	-0.77
69	2020	9	18	34.984	25.256	6.1	R	V	-	-1.19
70	2020	10	30	37.911	26.814	7	N	V	-	+0.01
71	2021	2	17	38.357	21.957	5.5	N	IV	-	-0.47
72	2021	3	3	39.732	22.218	6.3	N	V	-	+0.28
73	2021	6	21	36.379	27.101	5.5	N-SS	V	-	+0.01