Attachments

1. PuSGeN catalogue

No.	Long(^{o})	Lat(^{o})	Date			Mag. (M_w)	depth (km)	time	
			dt	mn	yr			hr	mn
1	94,648	6,843	8	11	2015	6,6	10	16	47
2	94,534	6,984	8	11	2015	5,6	10	19	14
3	94,802	6,408	9	11	2015	5,5	10	8	12
4	94,883	6,518	9	11	2015	5,43773	11,83	6	12
5	94,532	6,833	14	11	2015	5,43773	10	16	53
6	94,762	6,934	8	11	2015	5,33752	10	16	59
7	94,487	6,853	8	11	2015	5,03689	10	16	42
8	94,634	6,538	9	11	2015	4,93668	12,58	7	7
9	94,476	6,911	8	11	2015	4,93668	10	20	59
10	94,642	6,581	9	11	2015	4,83647	10	7	2
11	94,796	6,627	9	11	2015	4,83647	10	7	28
12	94,762	6,77	8	11	2015	4,83647	10	17	46
13	94,626	7,127	8	11	2015	4,83647	10	20	30
14	94,403	7,262	31	12	2015	4,83647	35	3	23
15	94,725	6,505	9	11	2015	4,8	10	7	13
16	94,828	6,638	9	11	2015	4,73626	10	7	5
17	94,349	6,672	15	11	2015	4,73626	10	13	7
18	94,475	6,861	8	11	2015	4,73626	10	18	48
19	94,663	6,321	10	11	2015	4,63605	10	17	22
20	94,581	6,784	8	11	2015	4,63605	10	19	10
21	94,587	6,865	8	11	2015	4,63605	10	16	29
22	94,489	6,878	10	11	2015	4,63605	10	15	59
23	94,543	6,931	12	11	2015	4,63605	10	22	34
24	94,272	6,991	15	11	2015	4,63605	9,16	14	49
25	94,231	7,593	21	3	2014	6,4	24,81	13	41
26	94,36	7,452	18	11	2014	5,6	6,71	3	25
27	94,223	7,508	21	3	2014	5,53794	14,38	14	11
28	94,29	7,548	21	3	2014	5,33752	11,61	14	25
29	94,315	7,593	11	11	2014	5,3	16,25	7	50
30	94,364	7,389	6	11	2014	5,23731	12,47	15	46
31	94,275	7,436	21	3	2014	5,23731	15,29	21	3
32	94,174	7,323	21	3	2014	5,23731	10	14	13
33	94,305	7,444	11	11	2014	5,1371	28,15	8	4
34	94,722	7,039	8	11	2015	5,03689	20,48	10	53
35	94,705	7,769	21	3	2014	5,03689	10	13	54
36	94,884	7,136	8	11	2015	4,93668	10	11	42
37	94,675	7,433	26	10	2014	4,93668	17,35	2	58
38	94,643	7,393	20	11	2014	4,93668	23,6	6	5

No.	Long(°)	Lat(°)	Date			Mag. (M_w)	depth (km)	time	
			dt	mn	yr			hr	mn
39	94,407	7,411	18	11	2014	4,93668	7,77	6	12
40	94,407	7,614	21	3	2014	4,93668	10	13	52
41	94,406	7,385	18	11	2014	4,93668	15,35	6	6
42	94,386	7,358	14	10	2014	4,93668	3,36	18	36
43	94,322	7,557	21	3	2014	4,93668	10	14	18
44	94,308	7,321	21	3	2014	4,93668	10	14	26
45	94,273	7,453	19	12	2014	4,93668	23,4	2	36
46	94,271	7,79	21	3	2014	4,93668	10	14	16
47	94,232	7,788	21	3	2014	4,93668	10	14	49
48	94,206	7,283	21	3	2014	4,93668	10	13	56
49	94,105	7,603	21	3	2014	4,93668	12,22	14	45
50	94,065	7,731	21	3	2014	4,93668	7,06	15	48
51	94,03	7,382	21	3	2014	4,93668	10	14	28
52	94,771	7,145	8	11	2015	4,83647	10	10	7
53	94,717	7,436	9	10	2014	4,83647	15,35	20	34
54	94,567	7,412	17	10	2014	4,83647	38,72	23	32
55	94,48	7,998	21	3	2014	4,83647	10	14	3
56	94,447	7,597	17	11	2014	4,83647	24,18	5	8
57	94,406	7,66	18	10	2014	4,83647	10	9	47
58	94,397	7,463	21	3	2014	4,83647	10	14	47
59	94,379	7,382	22	3	2014	4,83647	8,66	0	10
60	94,311	7,541	21	3	2014	4,83647	10	13	50
61	94,304	7,392	13	10	2014	4,83647	23,06	17	21
62	94,262	7,503	21	3	2014	4,83647	10	15	8
63	94,244	7,523	21	3	2014	4,83647	10	15	23
64	94,756	7,102	8	11	2015	4,73626	10	14	54
65	94,71	7,754	21	3	2014	4,73626	10,03	21	11
66	94,59	7,617	18	10	2014	4,73626	41,02	10	10
67	94,553	7,745	25	3	2014	4,73626	10,21	20	46
68	94,523	7,66	18	10	2014	4,73626	45,91	9	57
69	94,478	7,509	24	10	2014	4,73626	27,64	17	23
70	94,447	7,038	21	3	2014	4,73626	10	13	53
71	94,374	7,46	26	12	2014	4,73626	41,59	20	38
72	94,346	7,471	2	11	2014	4,73626	29,8	11	38
73	94,308	7,485	26	10	2014	4,73626	48,94	22	7
74	94,258	7,52	21	3	2014	4,73626	11,42	18	8
75	94,253	7,372	21	3	2014	4,73626	7,53	23	50
76	94,233	7,483	21	3	2014	4,73626	14,93	14	17
77	94,2	7,322	21	3	2014	4,73626	10,93	18	50
78	94,182	7,352	21	3	2014	4,73626	10	15	10
79	94,169	7,233	21	3	2014	4,73626	10	14	5

No.	Long(°)	Lat(°)	Date			Mag. (M_w)	depth (km)	time	
			dt	mn	yr			hr	mn
80	94,129	7,733	21	3	2014	4,73626	2,48	15	43
81	94,082	7,426	21	3	2014	4,73626	10	13	59
82	94,686	7,55	6	11	2014	4,63605	19,06	22	0
83	94,604	7,606	21	3	2014	4,63605	10	14	42
84	94,599	7,715	21	3	2014	4,63605	10	15	9
85	94,595	7,519	26	10	2014	4,63605	12,61	2	56
86	94,499	7,559	21	3	2014	4,63605	10	15	24
87	94,491	7,493	8	10	2014	4,63605	16,19	11	6
88	94,476	7,548	21	3	2014	4,63605	11,72	17	5
89	94,443	7,526	14	10	2014	4,63605	37,18	3	32
90	94,442	7,248	22	11	2014	4,63605	35	10	49
91	94,377	7,397	11	10	2014	4,63605	35	16	9
92	94,326	7,328	11	10	2014	4,63605	27,7	20	36
93	94,321	7,659	15	5	2014	4,63605	10	17	56
94	94,31	7,377	14	11	2014	4,63605	10	21	19
95	94,303	7,394	2	11	2014	4,63605	30,29	0	58
96	94,273	7,573	21	3	2014	4,63605	7,8	14	36
97	94,231	7,618	24	10	2014	4,63605	45,42	15	26
98	94,215	7,112	30	8	2014	4,63605	12,85	3	35
99	94,207	7,408	1	11	2014	4,63605	10	0	11
100	94,207	7,382	21	3	2014	4,63605	10	14	53
101	94,189	7,301	4	11	2014	4,63605	10	5	36
102	94,181	7,221	9	11	2014	4,63605	10	11	43
103	94,138	7,264	28	10	2014	4,63605	38,7	16	22
104	94,107	7,428	11	11	2014	4,63605	10,88	15	24
105	95,956	4,794	21	1	2013	6,1	9,58	22	22
106	95,838	4,986	22	10	2013	5,4	14,64	5	40
107	96,427	4,492	14	3	2013	4,9	8,9	18	18
108	96,015	5,019	21	1	2013	4,83647	10	22	48
109	95,999	5,082	22	10	2013	4,73626	45,89	14	16
110	95,745	4,793	28	12	2013	4,73626	9,9	15	25
111	95,978	4,969	11	2	2013	4,7	0,38	1	2
112	95,698	5,233	22	8	2013	4,7	5,17	23	59
113	95,897	5,056	18	2	2013	4,63605	10	15	22
114	95,89	4,919	25	1	2013	4,63605	10	5	0
115	95,801	5,037	27	1	2013	4,6	9,63	14	24
116	96,554	4,415	1	8	2014	5,03689	5,08	3	10
117	96,536	4,407	5	6	2014	4,83647	1,2	8	11
118	96,104	4,88	8	7	2014	4,83647	10,84	17	31
119	96,038	4,909	27	6	2014	4,73626	8,6	7	35
120	95,879	4,88	9	5	2014	4,73626	36,89	20	0

No.	Long(°)	Lat(°)	Date			Mag. (M_w)	depth (km)	time	
			dt	mn	yr			hr	mn
121	96,309	4,67	27	5	2014	4,63605	23,48	6	49
122	96,113	4,835	2	3	2015	5,1371	3,85	10	33
123	95,962	4,852	2	3	2015	5,03689	21,38	14	19
124	96,097	4,882	27	3	2015	4,73626	18,14	20	25
125	99,147	1,64	19	5	2008	6	10	14	26
126	99,04	1,41	19	5	2008	5,3	10	18	9
127	99,05	2,01	3	10	2008	5,3	35	14	7
128	99,06	1,5	1	6	2008	5,3	35	19	48
129	99,08	1,75	30	11	2008	5,3	21,4	21	19
130	99,18	1,724	19	5	2008	5,3	10	14	49
131	99,03	1,79	16	11	2008	5,2	35	10	51
132	99,04	1,49	19	5	2008	5,2	10	18	25
133	99,15	1,74	7	6	2008	5,2	35	0	7
134	99,21	1,41	19	5	2008	5,2	10	20	17
135	98,957	1,34	19	5	2008	5,03689	10	14	30
136	99,165	1,754	22	5	2008	5,03689	40,8	18	58
137	98,74	2,059	28	2	2010	5	10,81	12	13
138	99,161	1,872	9	4	2010	4,9	1,19	6	29
139	99,19	1,663	22	5	2008	4,63605	35	17	55
140	100,498	-0,493	6	3	2007	6,4	19	3	49
141	100,53	-0,488	6	3	2007	6,3	11	5	49
142	100,81	-0,54	6	3	2007	5,3	20	10	8
143	100,6	-0,58	6	3	2007	5,3	20	17	37
144	100,56	-1,1	14	9	2007	5,3	35	5	46
145	100,67	-0,47	6	3	2007	5,2	20	16	2
146	100,51	-0,72	8	3	2007	5,2	20	22	39
147	100,86	-0,91	13	9	2007	5,2	35	13	40
148	100,712	-0,54	6	3	2007	5,03689	20	8	49
149	100,738	-0,55	6	3	2007	5,03689	20	16	23
150	100,913	-0,399	6	3	2007	5	20	12	53
151	100,443	-1,03	4	9	2009	4,83647	45,7	5	24
152	100,775	-0,452	6	3	2007	4,73626	20	8	13
153	100,929	-0,611	13	9	2007	4,73626	35	0	54
154	100,661	-0,672	6	3	2007	4,73626	20	20	14
155	100,423	-0,759	2	8	2007	4,73626	30	12	56
156	101,009	-0,452	6	3	2007	4,63605	20	15	22
157	99,859	0,626	17	12	2006	5,8	30	21	39
158	99,96	0,5	17	12	2006	5,4	30	21	54
159	99,76	0,72	14	8	2008	5,3	35	9	8
160	99,72	0,76	13	7	2008	5,3	10	3	56
161	99,59	0,35	24	5	2008	5,3	35	17	50

No.	Long(°)	Lat(°)	Date			Mag. (M_w)	depth (km)	time	
			dt	mn	yr			hr	mn
162	99,56	0,06	3	1	2007	5,3	30	4	48
163	100,09	0,57	19	12	2006	5,3	35,6	10	18
164	100,28	0,95	31	3	2008	5,2	42,7	11	59
165	99,8	0,78	19	5	2008	5,2	10	18	36
166	99,74	0,35	8	1	2007	5,2	30	22	54
167	100,23	0,55	18	12	2006	5,2	30	9	43
168	100	0,05	17	12	2006	5,2	30	21	54
169	99,98	0,46	17	12	2006	5,2	30	23	1
170	99,69	0,51	17	12	2006	5,2	30	23	18
171	100,112	0,864	9	5	2007	4,93668	7,6	18	30
172	99,368	0,557	18	12	2006	4,83647	30	1	24
173	99,958	0,504	17	12	2006	4,63605	30	21	54
174	99,093	1,751	29	3	2005	5,5	23,4	6	16
175	98,92	2,05	9	1	2006	5,3	13,9	22	25
176	99,23	1,93	30	3	2005	5,3	30	2	20
177	99,25	1,83	29	3	2005	5,3	30	10	51
178	99,35	1,83	29	3	2005	5,3	30	10	34
179	99,45	1,81	3	4	2005	5,3	30	2	0
180	99,48	1,8	11	7	2005	5,3	30,9	3	19
181	99,21	1,66	22	9	2005	5,3	30	14	13
182	99,18	1,63	29	3	2005	5,3	30	22	17
183	98,95	2,15	10	1	2006	5,2	30	4	55
184	99,22	1,63	29	3	2005	5,2	30	22	14
185	99,05	1,53	22	5	2007	5,2	30	5	6
186	99,27	1,759	28	4	2007	4,9	23,9	19	14
187	98,98	2,004	16	6	2005	4,83647	30	12	17
188	99,175	1,661	12	11	2005	4,83647	30	20	34
189	98,935	2,277	9	4	2005	4,73626	30	18	14
190	98,933	1,894	16	6	2005	4,73626	30	12	37
191	99,58	1,944	17	9	2005	4,63605	20	21	53
192	99,221	1,872	11	7	2005	4,63605	30	3	23
193	99,072	1,713	11	4	2005	4,63605	30	11	42
194	99,155	1,671	29	3	2005	4,63605	30	19	4
195	97,568	4,495	22	1	2003	5,83857	33	2	58
196	97,439	4,717	27	12	2004	4,63605	30	9	31
197	97,567	4,395	19	9	2003	4,83647	33	20	41
198	97,43	4,58	5	4	2005	5,3	30	17	25
199	97,62	4,72	25	3	2005	5,2	30	22	28
200	97,646	4,619	13	9	2003	5,3	33	20	42
201	97,737	4,505	22	1	2003	4,63605	33	5	59
202	97,768	4,517	12	11	2003	4,63605	33	5	48

No.	Long(°)	Lat(°)	Date			Mag. (M_w)	depth (km)	time	
			dt	mn	yr			hr	mn
203	97,77	4,37	3	2	2003	5,3	33	12	13
204	97,81	4,23	26	12	2004	5,6	30	21	19
205	97,811	4,233	26	12	2004	5,03689	30	21	19
206	97,815	4,377	12	1	2005	5,03689	30	10	28
207	105,16	-6,298	15	1	2002	6,1	24,2	7	13
208	105,205	-6,314	15	1	2002	6,1	10	7	12
209	105,59	-5,74	15	1	2002	5,3	10	7	43
210	105,68	-6,12	26	2	2002	5,3	33	6	17
211	104,88	-6,87	21	3	2003	5,3	33	4	26
212	104,536	-6,339	28	10	2002	5,23731	35,2	20	37
213	104,453	-5,964	17	2	2002	5,2	45	10	23
214	105,645	-6,607	5	1	2003	5,2	33	16	16
215	105,36	-5,67	7	8	2004	5,3	43,9	19	9
216	105,244	-6,157	16	1	2002	5,03689	10	15	26
217	105,627	-5,806	4	7	2003	4,93668	33	14	0
218	105,32	-7,04	15	8	2004	5,3	50	18	48
219	105,142	-6,252	22	2	2002	4,93668	21,3	13	33
220	105,702	-6,407	11	10	2002	4,93668	33	6	6
221	104,841	-5,866	2	8	2004	4,93668	18,1	21	16
222	105,203	-6,612	15	7	2003	4,93668	33	1	22
223	105,297	-6,167	17	9	2003	4,83647	33	6	6
224	105,229	-6,464	26	1	2002	4,83647	33	3	26
225	105,315	-5,739	22	8	2004	4,73626	10	20	52
226	105,273	-5,625	2	8	2004	4,63605	20	20	57
227	105,59	-5,878	17	3	2002	4,73626	33	9	59
228	105,165	-6,142	22	2	2002	4,73626	15,5	13	52
229	105,37	-6,158	20	1	2002	4,73626	10	1	18
230	105,253	-5,673	29	7	2004	4,63605	18,5	0	19
231	104,563	-5,569	24	4	2004	4,73626	10	15	11
232	104,515	-5,858	16	9	2003	4,63605	33	0	31
233	104,735	-5,915	20	12	2003	4,63605	33	15	0
234	104,988	-6,66	15	1	2002	4,63605	10	21	4
235	104,942	-6,805	25	1	2003	4,63605	33	9	22
236	96,405	4,284	20	8	1997	6	9,5	7	15
237	97,09	3,99	27	9	1997	5,3	33	0	2
238	96,314	4,135	17	9	1997	4,83647	20	4	16
239	96,685	4,332	21	10	1997	4,63605	20	4	43
240	95,759	4,929	15	2	1999	5,5	16	5	46
241	96,06	4	23	10	1999	5,3	45,5	18	18
242	95,8	4,69	21	2	1999	5,3	33	14	35
243	96,46	4,318	8	12	1999	4,63605	33	14	15

No.	Long(°)	Lat(°)	Date			Mag. (M_w)	depth (km)	time	
			dt	mn	yr			hr	mn
244	95,869	4,737	10	3	2000	5,5	12	21	32
245	96,43	3,91	4	3	2000	5,1	33	18	13
246	105,123	-6,031	10	8	1985	5,6	22,3	4	12
247	105,11	-6,64	1	4	1988	5,3	33	8	48
248	104,609	-6,712	2	3	1987	5,23731	33	22	34
249	104,675	-6,116	26	2	1987	5,23731	35	12	16
250	105,291	-5,987	20	3	1986	5,23731	25	21	0
251	105,56	-6,76	24	11	1986	5,2	33	8	8
252	105,471	-6,735	5	4	1988	5,1371	33	1	21
253	104,802	-6,002	9	9	1985	5,1371	35	10	36
254	104,826	-6,367	3	9	1987	5,03689	33	8	33
255	105,408	-6,039	14	9	1986	5,03689	25	3	38
256	104,673	-6,179	22	4	1986	4,93668	33	21	25
257	104,905	-5,93	21	2	1987	4,93668	35	12	55
258	104,719	-5,325	22	10	1987	4,93668	33	1	0
259	105,144	-6,642	20	10	1986	4,83647	50	23	53
260	104,236	-5,712	3	1	1986	4,73626	33	7	53
261	104,403	-5,694	29	12	1985	4,73626	33	4	22
262	104,271	-5,94	10	1	1986	4,63605	25	14	27
263	93,848	9,068	25	10	1970	6,4	24,6	15	9
264	94,1	9,16	27	12	1970	5,4	33	4	50
265	93,639	9,671	25	9	1972	5,33752	30	11	30
266	93,991	9,249	26	12	1970	5,33752	16,5	10	2
267	94,067	9,088	28	12	1971	5,23731	30	12	45
268	94,042	9,071	25	10	1970	5,03689	28,9	15	21
269	94,043	9,167	25	10	1970	4,93668	31,5	22	8
270	93,839	9,145	26	12	1970	4,93668	14,1	10	15
271	94,117	9,12	25	10	1970	4,93668	15	22	20
272	93,985	9,064	25	10	1970	4,93668	10	17	53
273	94,07	9,045	25	10	1970	4,93668	12,9	17	50
274	94,132	9,07	25	10	1970	4,83647	15	15	42
275	93,586	8,648	2	7	1967	6,1	6,5	7	3
276	93,671	8,704	19	7	1968	5,8	26,2	4	56
277	94	8,7	9	3	1968	5,6	33	0	46
278	93,8	8,5	2	7	1967	5,6	33	14	19
279	93,86	8,74	2	4	1969	5,4	33	12	36
280	94,1	8,7	8	3	1968	5,4	33	23	8
281	93,8	8,6	2	7	1967	5,4	33	18	36
282	93,84	8,81	18	7	1968	5,3	33	17	43
283	93,995	8,695	9	3	1968	5,23731	13	0	45
284	93,787	8,981	19	7	1968	4,83647	32,4	6	7

No.	Long(°)	Lat(°)	Date			Mag. (M_w)	depth (km)	time	
			dt	mn	yr			hr	mn
285	94,178	8,737	19	11	1968	4,83647	25,1	22	48
286	93,764	8,517	2	7	1967	4,83647	28,4	14	9
287	93,652	8,901	18	7	1968	4,73626	26,8	17	20
288	93,74	8,843	19	7	1968	4,73626	25	16	42
289	96,236	5,079	12	4	1967	6,7	17,5	4	51
290	96,333	5,273	12	4	1967	5,6	15	5	11
291	96,333	5,097	22	4	1967	5,53794	15,5	13	7
292	96,64	5,12	12	4	1967	5,5	22	18	47
293	96,678	5,211	12	4	1967	5,43773	15	19	33
294	96,61	5,12	14	4	1967	5,4	34	12	5
295	96,398	4,379	25	6	1969	5,33752	10	7	24
296	96,196	4,864	5	6	1969	5,23731	23,5	10	45
297	96,428	5,259	13	4	1967	5,23731	15	8	25
298	96,445	5,402	12	4	1967	5,1371	35	5	18
299	96,395	5,253	14	8	1967	5,1371	15	6	41
300	96,614	5,357	12	4	1967	5,1371	15	6	3
301	96,74	5,145	21	4	1967	5,1371	15	16	28
302	95,813	5,077	5	12	1968	5,03689	15	9	1
303	96,657	5,147	28	4	1967	5,03689	15	16	14
304	96,46	5,229	15	5	1967	4,93668	15	18	50
305	96,451	4,421	10	2	1970	4,73626	10	21	0

2. Code to calculate C(l)

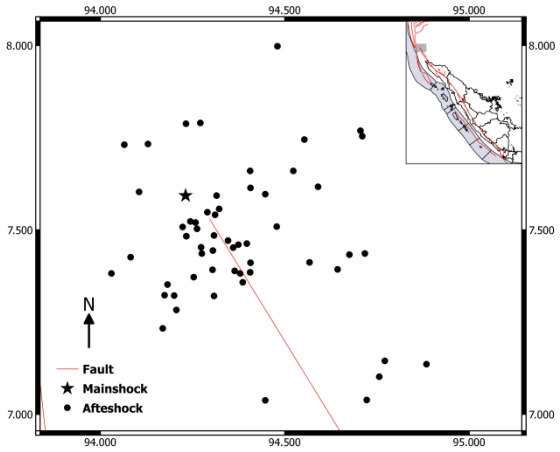
```
import pandas as pd
from math import cos,sin,acos,degrees,radians

df1 = pd.read_excel("D2_3_2014.xlsx",sheet_name='Sheet1')

N = int(df1.loc[0,"count"])
jumlah = 0
maximal = 0
minimal = 999
arrM=[]
arrl=[]
#print (int(N))
for i in range(N):
        for j in range(N):
                if i != j:
                        m = acos(cos(radians(df1.loc[i,"lat"])) *
                        cos(radians(df1.loc[j,"lat"])) + sin(radians(df1.loc[i,"lat"]))
                        * sin(radians(df1.loc[j,"lat"])) *
                        cos(radians((df1.loc[i,"long"]) - (df1.loc[j,"long"]))))
                        arrM.append(m)
                        jumlah=jumlah+1
                        if m >=  maximal:
                                maximal = m
                        else:
                                maximal = maximal

                        if m <= minimal:
```

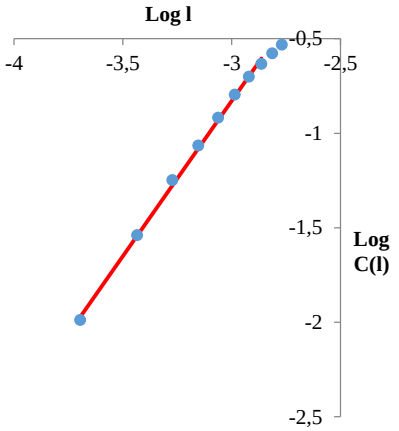
```
                    minimal = m
                else:
                    minimal = minimal

l = minimal
arrl.append(l)

interval = (maximal - minimal) /60
while (l < maximal):
    l = l + interval
    arrl.append(l)
h = 0
arrH=[]

for i in range(len(arrl)):
    jH = 0
    for j in range(len(arrM)):
        H = arrl[i]-arrM[j]
        if (H >= 0):
            H = 1
        else:
            H = 0
        jH = jH+H
    arrH.append(jH)

arrCL = []
for i in range(len(arrH)):
    x = 1/(N**2) * arrH[i]
    arrCL.append(x)
```

```
cl = {'cl': arrCL,'l':arrl}

df = pd.DataFrame(data=cl)

writer = pd.ExcelWriter('out.xlsx')
df.to_excel(writer,'Sheet1')
writer.save()
```

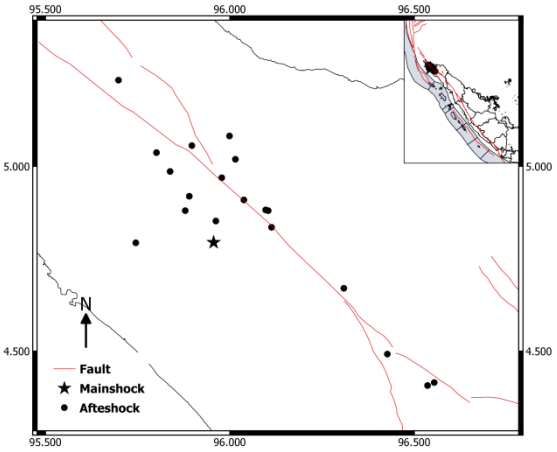
3. Earthquake distribution and double log. Curve of l and C(l)

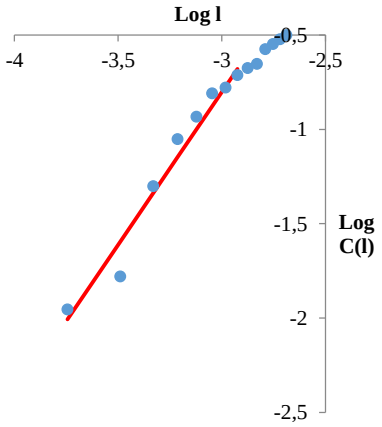
Nicobar 2014



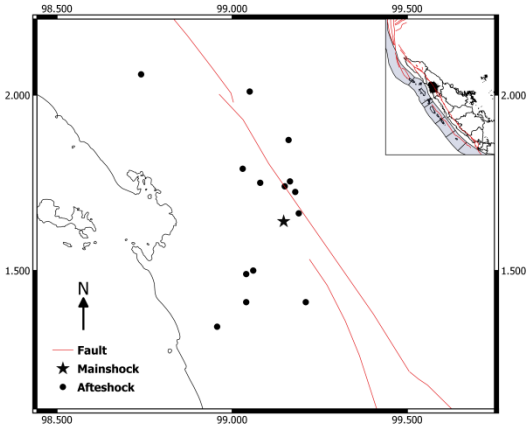


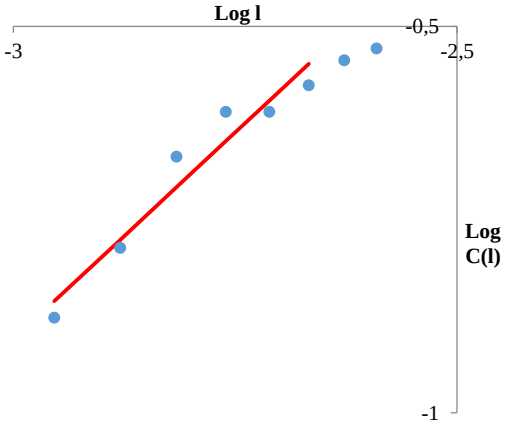
Aceh Jaya 2013



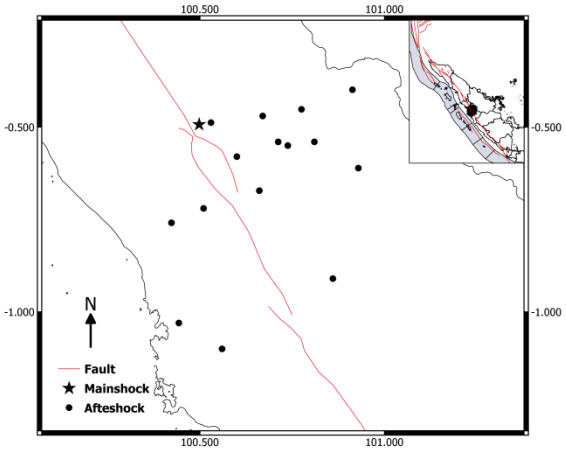


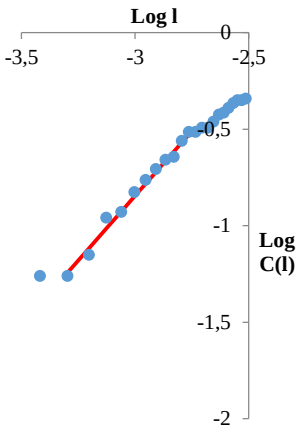
Tapanuli 2008



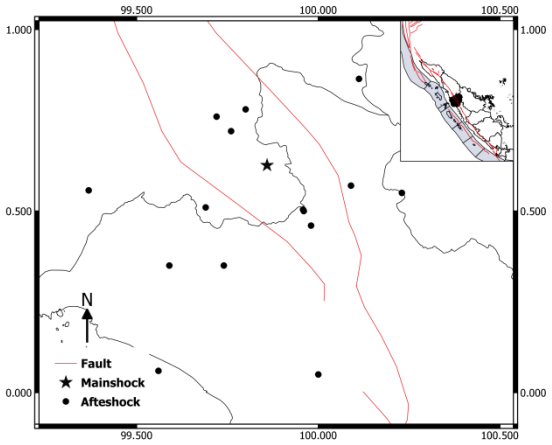


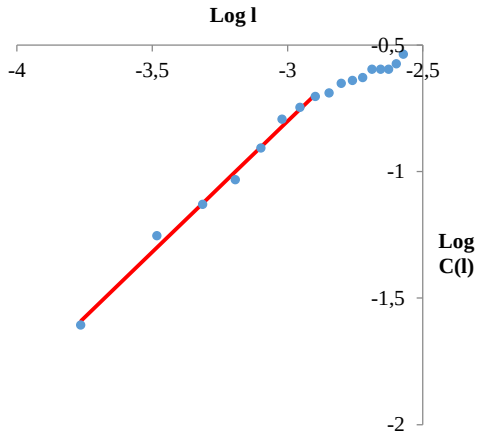
Tanah Datar 2007





Mandailingnatal 2006





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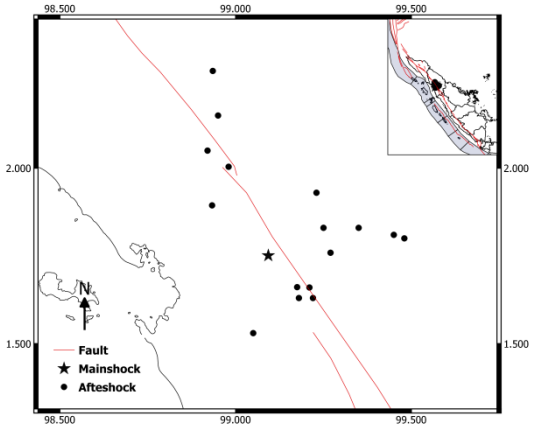
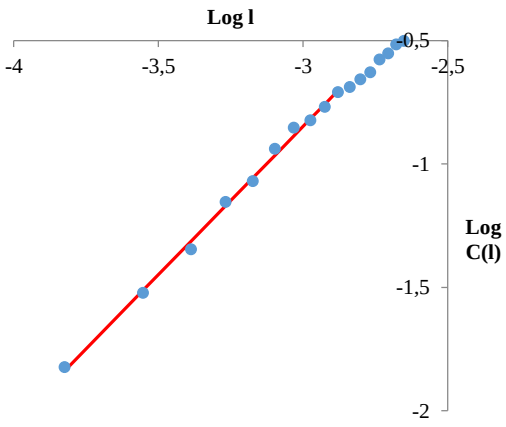
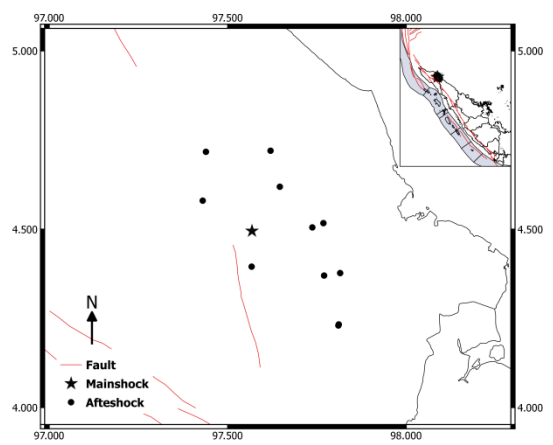
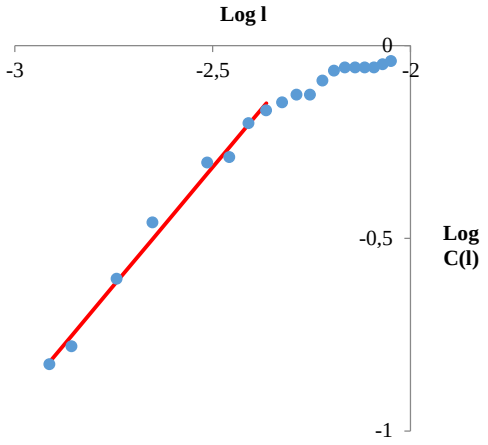


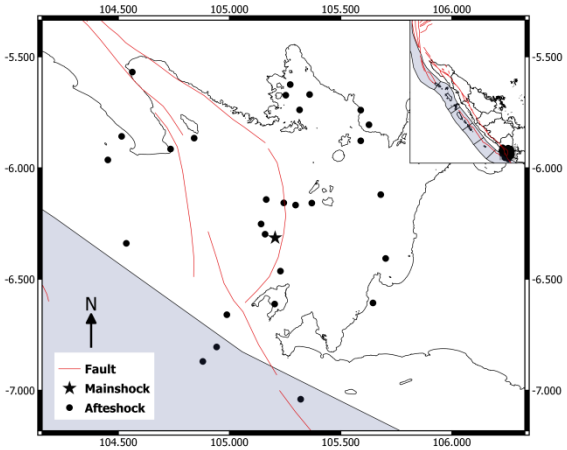


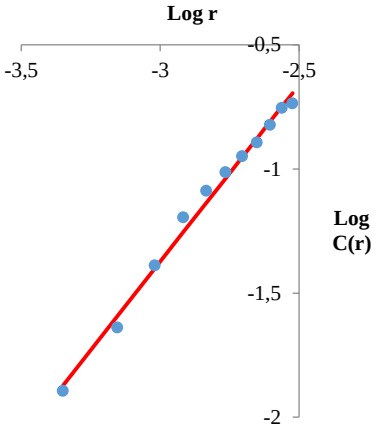
Aceh Timur 2003



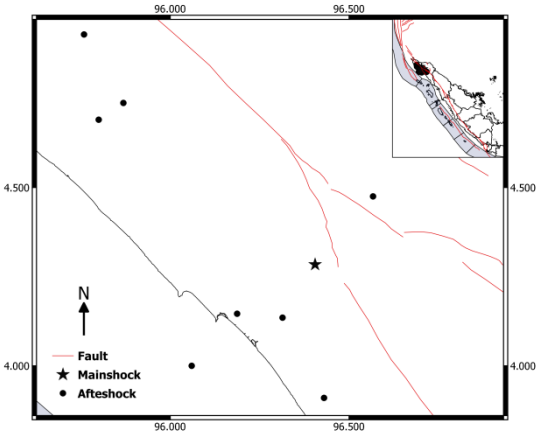


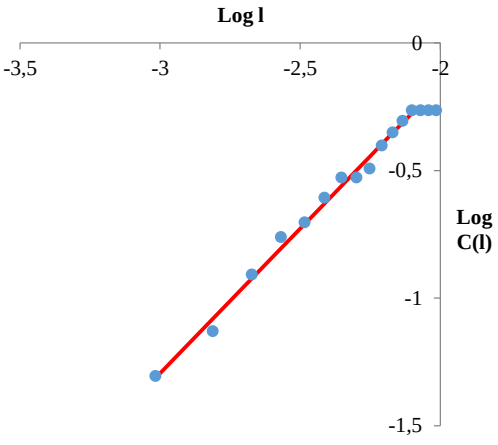
Selat Sunda 2002



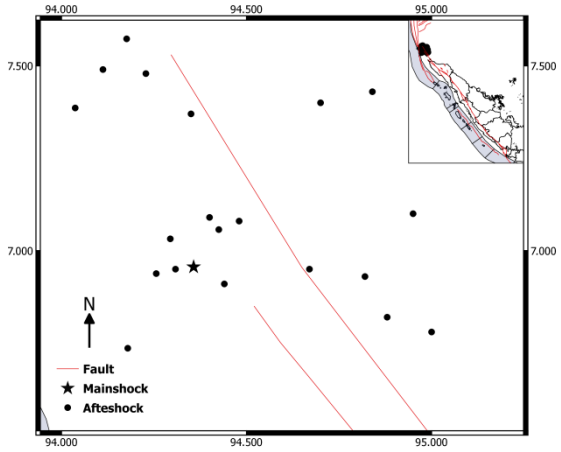


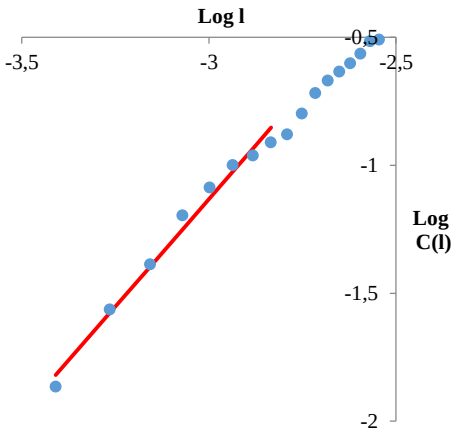
Naganraya 1997





Nikobar 1996





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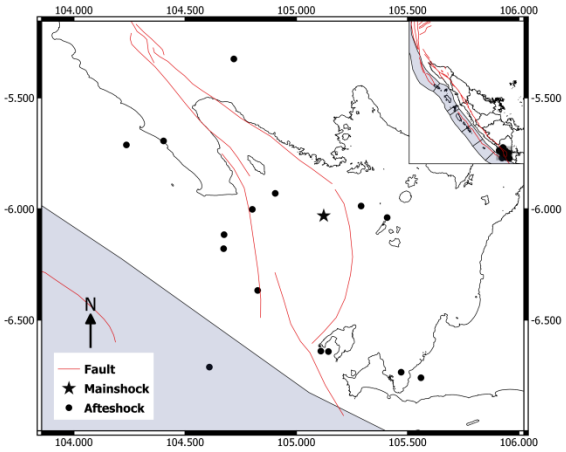

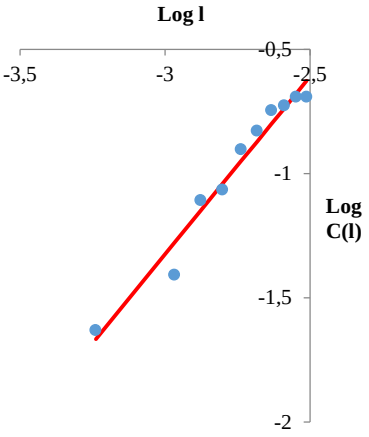

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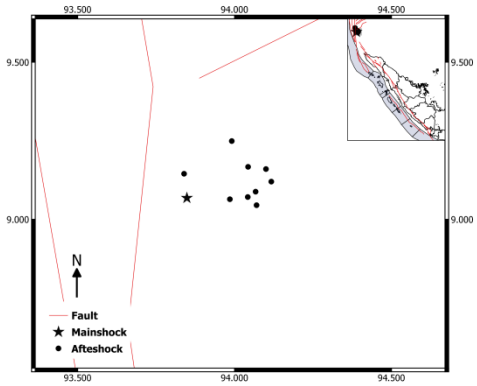
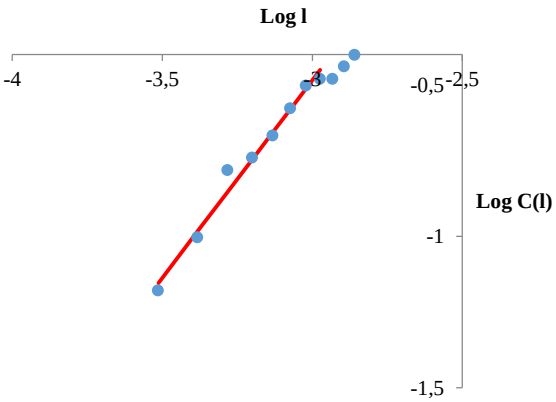
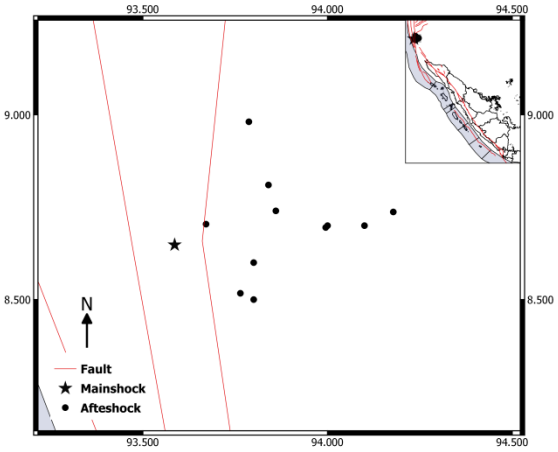
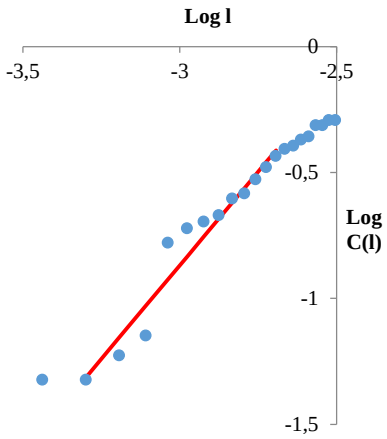


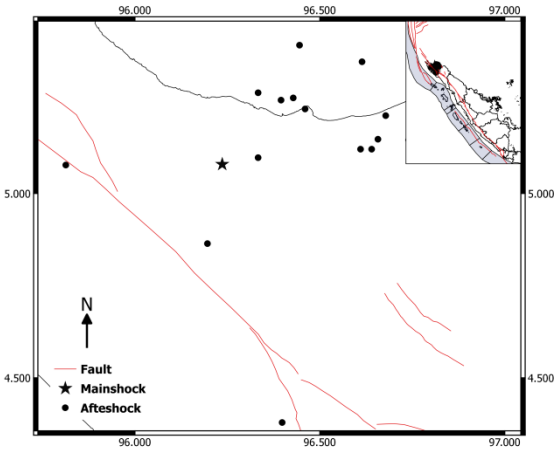


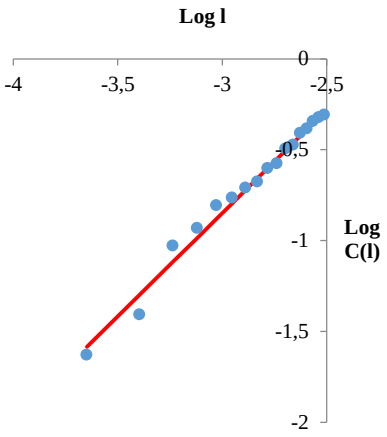
Nikobar 1967





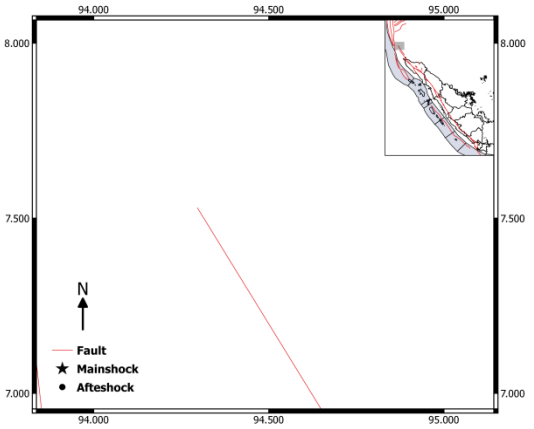
Pidie 1967

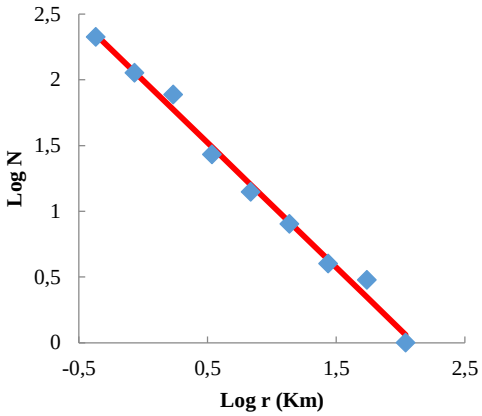




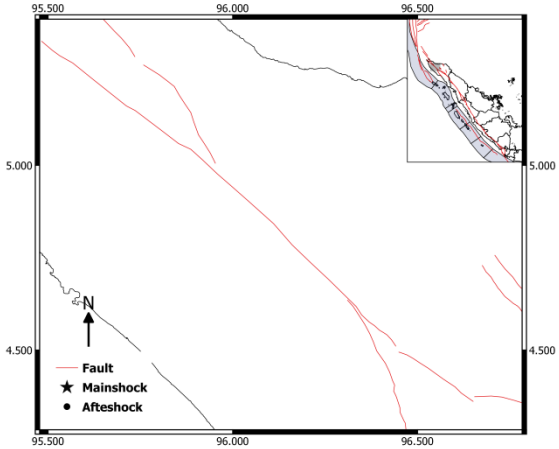
4. Active fault and double log curve of N and r

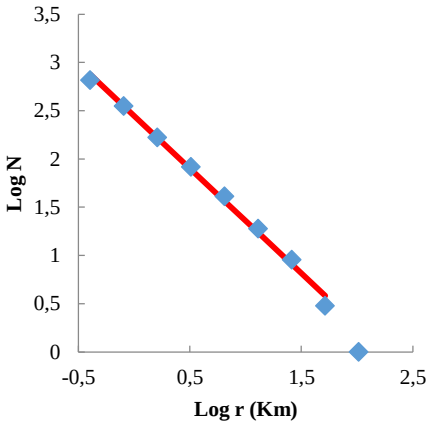
Nicobar 2014



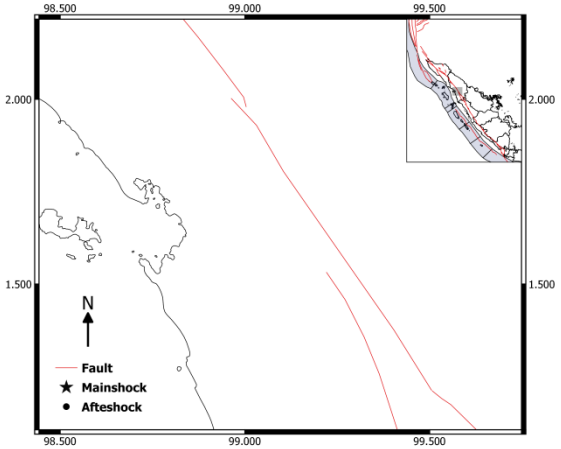


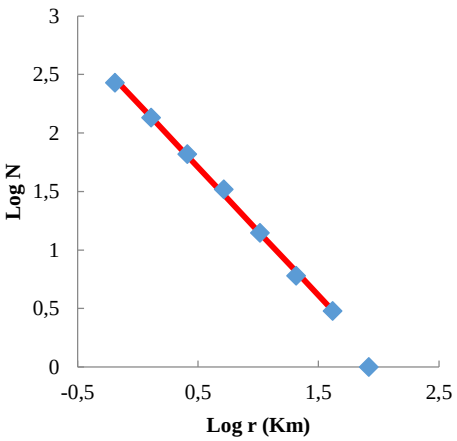
Aceh Jaya 2013



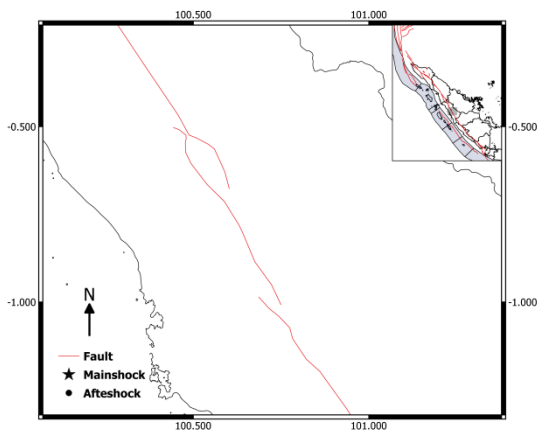


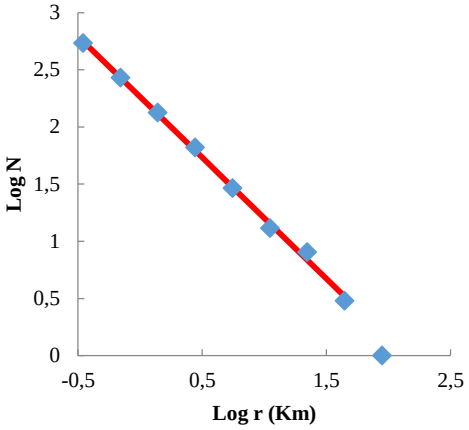
Tapanuli 2008



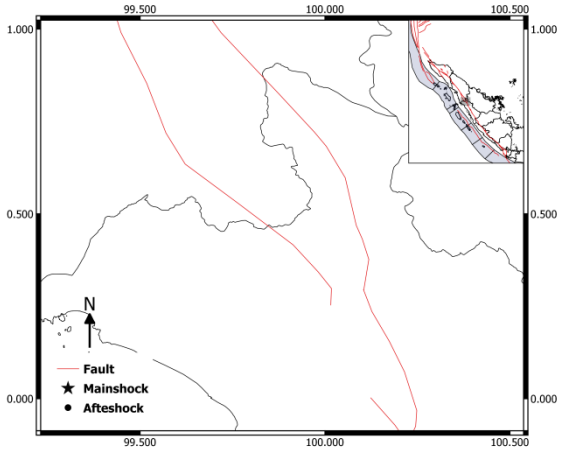


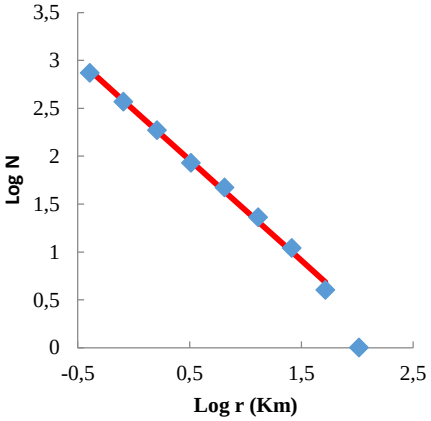
Tanah Datar 2007



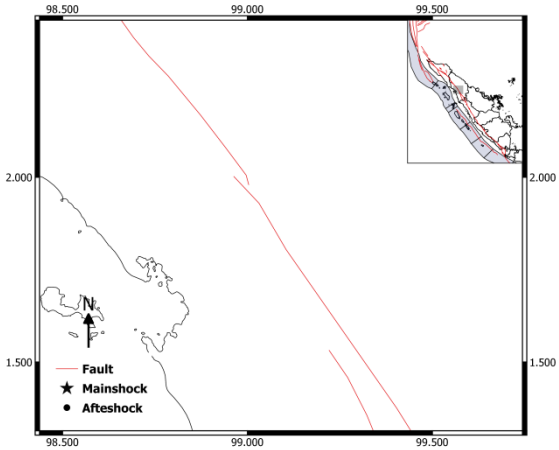


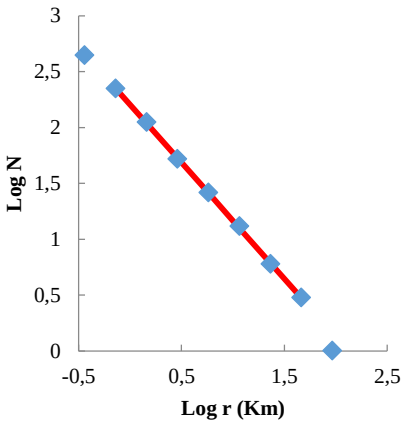
Mandailingnatal 2006



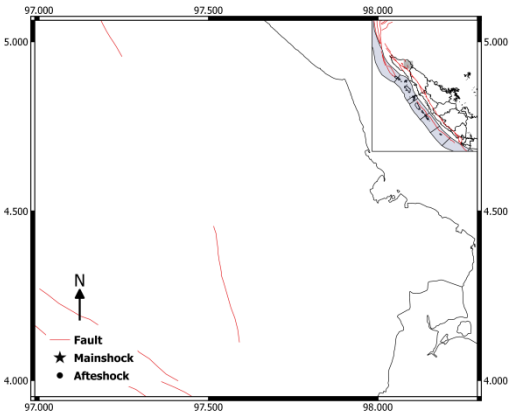


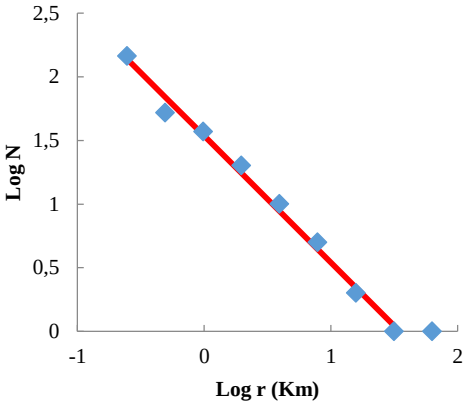
Tapanuli 2005



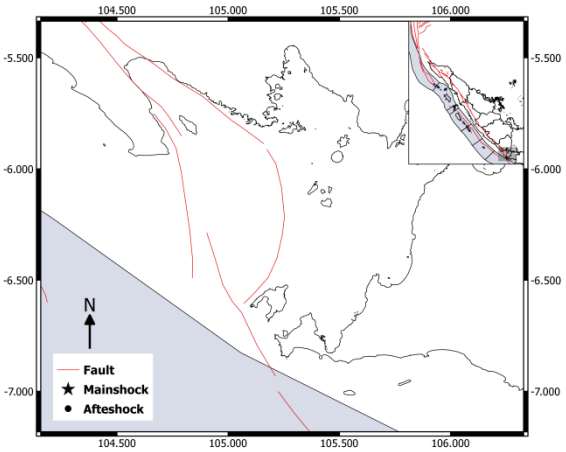


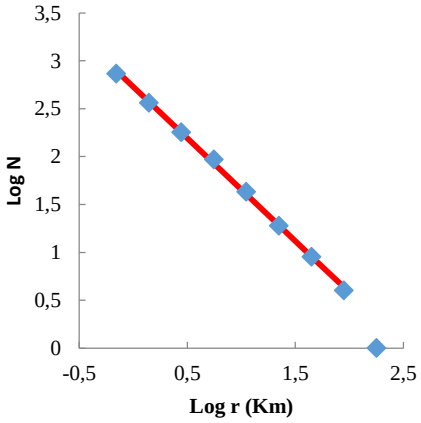
Aceh Timur 2003



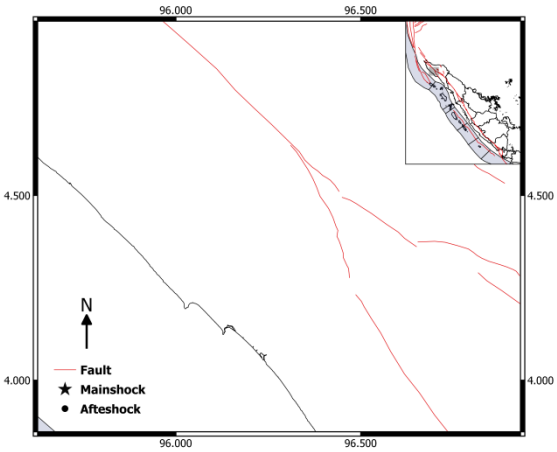


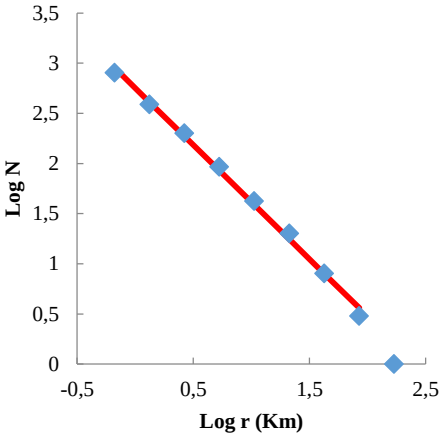
Selat Sunda 2002



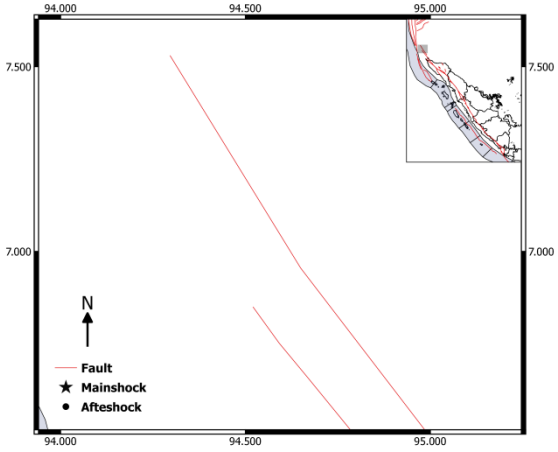


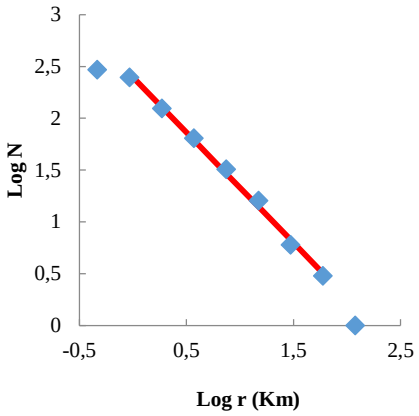
Naganraya 1997



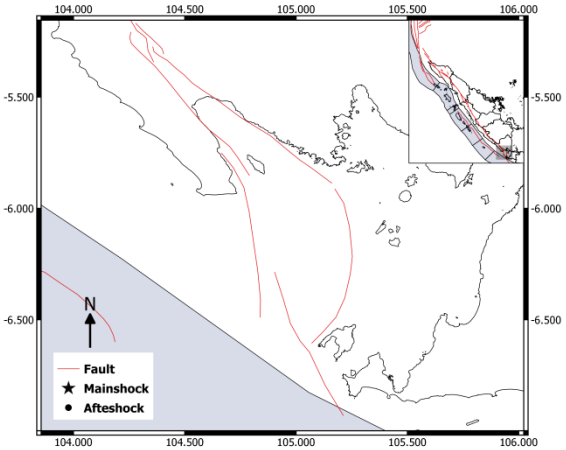


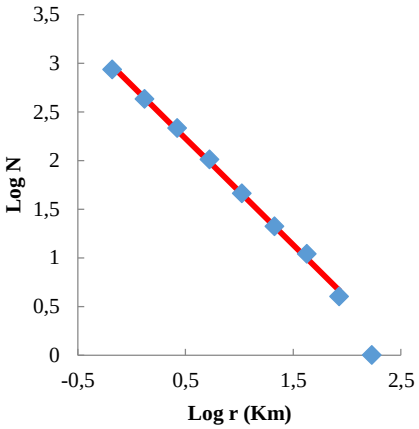
Nikobar 1996



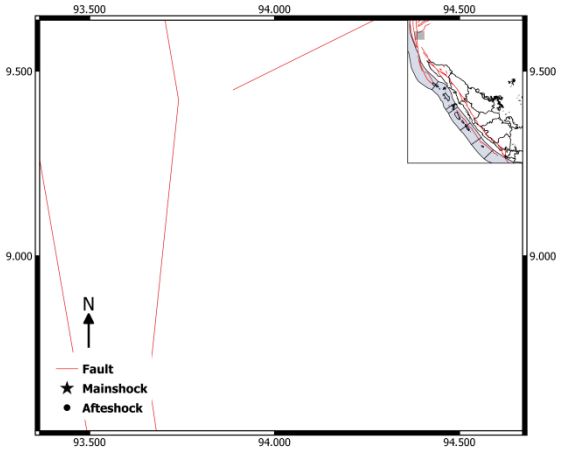


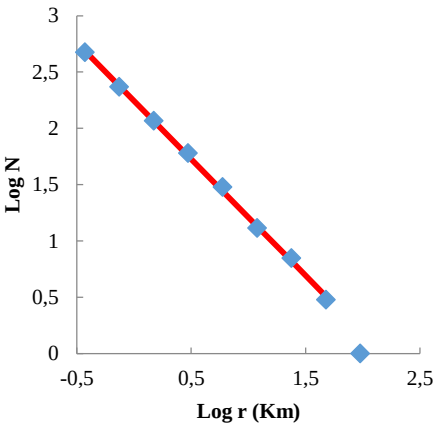
Selat Sunda 1985



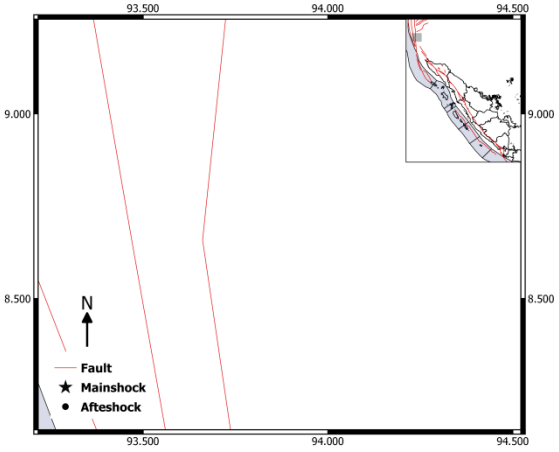


Nikobar 1970





Nikobar 1967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94.000
94.500
9.000
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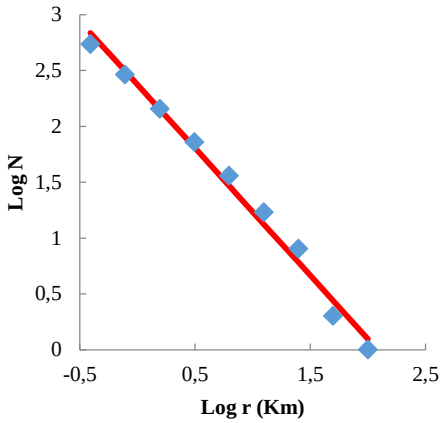
N
Fault
Mainshock
Afteshock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Log N
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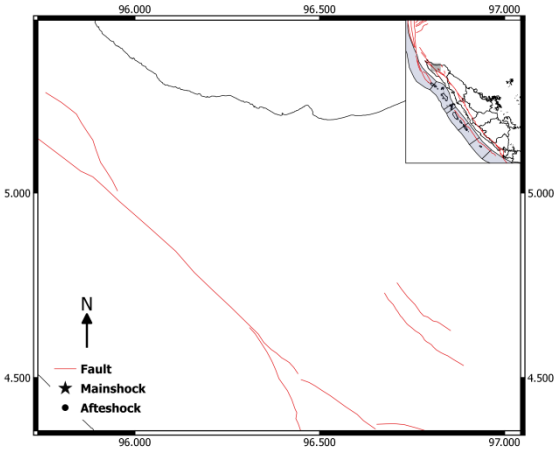
2,5
Log r (Km)

Pidie 1967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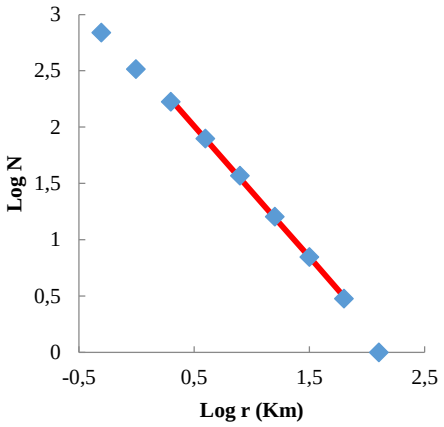
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