

Seismicity Report 2017

EARTHQUAKE EVENT SUMMARY 2017

Year	Month	Located Events		Total locate	Recorded Events					Total recorded	Felt Events
		Local	Near		Local	Near	Regional	Distant	Blasts		
2017	Jan	8	18	26	8	18	7	0	6	39	2
2017	Feb	8	9	17	8	9	10	0	3	30	1
2017	Mar	14	2	16	14	2	6	0	5	27	0
2017	April	9	6	15	9	6	9	0	3	27	0
2017	May	10	2	12	10	2	9	0	3	24	0
2017	Jun	13	0	13	13	0	8	0	1	22	2
2017	Jul	7	5	12	7	5	7	0	8	27	1
2017	Aug	2	9	11	2	9	4	0	1	16	0
2017	Sep	7	6	13	7	6	13	0	2	28	1
2017	Oct	3	6	9	3	6	3	0	0	12	0
2017	Nov	7	5	12	7	5	2	0	1	15	1
2017	Dec	5	6	11	5	6	1	0	0	12	0
ALL	Totals	93	74	167	93	74	79	0	33	279	8
										Total Recorded events	279

Local Region Seismic Activity - 2017

Date	Origin time	Lat.(°N)	Long.(°W)	Depth	Mag.(Mt)	Local Region Sub-areas	Parish	Number	Reported Felt
1/6/2017	10 7 47.5	18.064	-76.767	21.3	2.3	Wagwater Trough North	St Andrew	11	No
1/15/2017	1831 27.5	18.163	-76.624	15.5	2.3	Blue Mountains Block	Portland	16	No
1/16/2017	717 24.6	18.040	-77.790	9.8	2.9	Montpelier-Newmarket Belt	St Elizabeth	7	No
1/19/2017	952 48.0	18.062	-76.738	15.5	1.9	Blue Mountains Block	St Andrew	16	No
1/22/2017	23 4 59.5	18.019	-76.266	101.7	2.9	Yallahs-Plaintain Garden Fault Zone	Portland	23	No
1/22/2017	1443 27.4	18.243	-77.743	13.5	3.6	Montpelier-Newmarket Belt	St Elizabeth	7	Yes
1/24/2017	2029 24.5	17.914	-77.860	18.5	2.9	Black River	Offshore	17	No
1/27/2017	2059 27.2	18.213	-76.584	17.7	2.2	Buff Bay	Portland	12	No
2/5/2017	1224 43.3	18.107	-76.322	0.0	2.9	Port Antonio	Portland	13	No
2/11/2017	2233 28.4	18.147	-76.602	16.1	3.0	Blue Mountains Block	Portland	16	Yes
2/22/2017	8 5 52.4	18.045	-77.716	3.8	2.7	Montpelier-Newmarket Belt	St Elizabeth	7	No
2/23/2017	811 1.3	18.102	-76.846	6.5	1.5	Rio Minho-Crawle River Fault Zone	St Catherine	15	No
2/25/2017	1219 38.9	18.091	-76.482	11.0	2.1	Port Antonio	Portland	13	No
2/26/2017	1138 46.5	18.156	-76.975	7.2	2.2	Rio Minho-Crawle River Fault Zone	St Catherine	15	No
2/28/2017	2135 38.0	18.139	-76.559	28.6	2.2	Blue Mountains Block	Portland	16	No
2/28/2017	21 8 54.9	18.120	-76.702	16.8	3.1	Blue Mountains Block	Portland	16	No
3/2/2017	1217 13.5	17.932	-76.896	7.3	2.4	Kingston	Offshore	21	No
3/2/2017	459 41.4	18.061	-78.359	26.0	3.2	New Bank Fracture Zone	Offshore	14	No
3/4/2017	355 15.3	18.046	-76.631	14.2	2.6	Blue Mountains Block	St Andrew	16	No
3/8/2017	1639 19.9	18.224	-76.575	6.9	2.2	Buff Bay	Portland	12	No
3/8/2017	324 0.0	18.245	-76.364	0.0	2.4	Port Antonio	Offshore	13	No

3/18/2017	1656 49.4	18.144	-76.765	15.0	1.9	Wagwater Trough North	St Andrew	11	No
3/18/2017	10 6 5.5	18.038	-76.559	4.1	2.2	Wagwater Trough South	St Thomas	22	No
3/19/2017	2348 40.1	18.030	-76.681	13.7	2.2	Wagwater Trough South	St Andrew	22	No
3/26/2017	1034 25.1	18.138	-77.468	31.2	2.6	Rio Minho-Crawle River Fault Zone	Manchester	15	No
3/26/2017	1411 41.1	18.103	-76.604	18.9	3.2	Blue Mountains Block	Portland	16	No
3/27/2017	2128 30.7	18.058	-76.566	0.0	2.1	Blue Mountains Block	Portland	16	No
3/28/2017	526 6.2	17.753	-77.709	80.9	3.2	South Coast Fault Zone	Offshore	25	No
3/30/2017	0834 40.8	18.069	-76.554	3.6	2.1	Blue Mountains Block	Portland	16	No
3/30/2017	0504 19.8	18.038	-76.544	15.0	2.9	Yallahs-Plantain Garden Fault Zone	Portland	23	No
4/7/2017	030 3.1	18.430	-77.096	210.6	3.4	Ocho Rios	Offshore	4	No
4/10/2017	1249 0.2	18.011	-77.693	15.0	2.6	Black River	St Elizabeth	17	No
4/13/2017	1845 13.2	18.113	-76.533	16.8	2.2	Blue Mountains Block	Portland	16	No
4/14/2017	840 7.1	18.132	-76.610	0.0	2.3	Blue Mountains Block	Portland	16	No
4/14/2017	1317 2.1	18.231	-76.756	7.0	2.6	Wagwater Trough North	St Mary	11	No
4/16/2017	635 42.5	18.188	-76.495	12.3	2.1	Port Antonio	Portland	13	No
4/21/2017	2013 8.6	18.093	-76.623	0.2	2.6	Blue Mountains Block	Portland	16	No
4/21/2017	2154 41.3	18.069	-76.643	12.6	2.9	Blue Mountains Block	St Andrew	16	No
4/26/2017	5 1 24.5	18.153	-76.730	16.4	2.5	Blue Mountains Block	Portland	16	No
5/1/2017	1216 16.7	18.070	-76.881	18.0	1.4	Rio Minho-Crawle River Fault Zone	St Catherine	15	No
5/5/2017	532 25.8	18.315	-78.464	14.5	3.5	Negril	Offshore	6	No
5/8/2017	1 0 53.4	18.345	-77.123	21.8	2.0	Dry Harbour Mountains	St Ann	9	No
5/10/2017	2213 22.7	18.161	-77.348	4.1	2.1	Rio Minho-Crawle River Fault Zone	Clarendon	15	No
5/17/2017	641 25.2	18.066	-76.632	13.3	2.5	Blue Mountains Block	St Andrew	16	No
5/21/2017	6 7 20.1	18.168	-76.585	7.9	2.3	Blue Mountains Block	Portland	16	No
5/21/2017	524 6.0	18.098	-77.936	13.5	3.6	Montpelier Newmarket Belt	Westmoreland	7	No
5/22/2017	645 59.6	18.063	-77.265	4.0	2.7	Rio Minho-Crawle River Fault Zone	Clarendon	15	No

5/22/2017	2042 35.4	18.106	-78.214	14.6	3.4	New Bank Fracture Zone	Offshore	14	No
5/30/2017	1131 7.5	18.235	-76.602	1.1	2.4	Buff Bay	Offshore	12	No
6/2/2017	748 31.9	18.067	-76.601	7.9	2.1	Blue Mountains Block	Portland	16	No
6/3/2017	2214 22.0	17.856	-77.251	0.0	2.4	Vere Plains	Clarendon	19	No
6/3/2017	1638 43.0	18.132	-76.751	15.3	2.8	Wagwater Trough North	Portland	11	No
6/4/2017	1922 37.6	18.000	-76.521	3.5	2.1	Yallahs-Plantain Garden Fault Zone	St Thomas	23	No
6/5/2017	14 1 35.6	18.139	-76.604	9.1	2.2	Blue Mountains Block	Portland	16	No
6/8/2017	1139 36.7	18.113	-77.070	4.4	3.0	Rio Minho-Crawle River Fault Zone	St Catherine	15	No
6/16/2017	1139 21.2	17.851	-76.440	16.3	2.8	Yallahs-Plantain Garden Fault Zone	Offshore	23	No
6/19/2017	1131 16.0	18.184	-76.745	20.8	3.1	Wagwater Trough North	St Mary	11	Yes
6/20/2017	425 28.1	18.150	-76.647	14.0	3.1	Blue Mountains Block	Portland	16	Yes
6/21/2017	1411 9.5	17.922	-76.711	19.7	2.6	Wagwater Trough South	Offshore	22	No
6/28/2017	0334 44.7	18.110	-76.902	2.8	2.5	Rio Minho Crawle River Fault Zone	St Catherine	15	No
6/29/2017	1545 54.9	18.123	-76.749	14.5	2.0	Wagwater Trough North	St Andrew	11	No
7/4/2017	1239 16.3	18.131	-76.680	8.7	2.7	Blue Mountains Block	Portland	16	No
7/14/2017	910 15.8	18.064	-76.545	1.0	2.7	Blue Mountains Block	Portland	16	No
7/15/2017	1213 5.0	18.301	-77.223	47.4	2.4	Rio Minho-Crawle River Fault Zone	St Ann	15	No
7/26/2017	248 49.4	17.894	-77.509	15.0	2.8	Spur Tree Fault Zone	Manchester	18	No
7/26/2017	252 53.8	18.134	-77.452	3.1	3.3	Rio Minho Crawle River Fault Zone	Manchester	15	Yes
7/30/2017	12 7 12.4	18.125	-76.709	6.4	2.0	Blue Mountains Block	Portland	16	No
7/31/2017	1130 12.9	18.140	-75.963	11.6	3.0	Port Antonio	Offshore	13	No
8/16/2017	0212 45.6	18.148	-76.632	16.1	2.6	Blue Mountains Block	Portland	16	No
8/20/2017	0432 10.7	18.210	-77.100	10.4	2.1	Dry Harbour Mountains	St Ann	9	No
9/1/2017	0211 28.5	18.151	-76.732	15.0	2.1	Blue Mountains Block	Portland	16	No
9/2/2017	1600 21.4	18.389	-77.275	0.0	3.4	Ocho Rios	St Ann	4	No
9/18/2017	0003 18.1	17.962	-76.385	5.5	3.3	Yallahs Plantain Garden Fault Zone	St Thomas	23	No

9/24/2017	2236 6.9	17.779	-76.571	0.0	2.2	Morant Basin	Offshore	26	No
9/24/2017	1633 26.6	18.067	-76.659	12.3	2.7	Blue Mountains Block	St Andrew	16	No
9/25/2017	0528 40.6	18.037	-76.489	10.3	2.7	Yallahs-Plantain Garden Fault Zone	St Thomas	23	No
9/30/2017	1650 56.0	18.012	-76.509	7.8	2.5	Yallahs-Plantain Garden Fault Zone	St Thomas	23	No
10/4/2017	0003 55.4	18.159	-76.755	17.7	2.1	Wagwater Trough North	St Mary	11	No
10/8/2017	1721 38.2	17.878	-76.699	22.4	2.4	Wagwater Trough South	Offshore	22	No
10/25/2017	0659 55.7	18.024	-76.541	3.4	2.6	Yallahs-Plantain Garden Fault zone	St Thomas	23	No
11/7/2017	0251 29.2	17.991	-76.573	18.3	2.6	Wagwater Trough South	St Thomas	22	No
11/13/2017	0252 20.4	17.954	-77.017	11.8	2.1	St Catherine Plains	St Catherine	20	No
11/15/2017	0429 3.3	18.237	-76.782	0.0	1.6	Wagwater Trough North	St Mary	11	No
11/19/2017	0611 8.2	18.120	-76.588	14.2	1.9	Blue Mountains Block	Portland	16	No
11/20/2017	0448 42.3	18.081	-76.660	25.0	2.5	Blue Mountains Block	Portland	16	No
11/20/2017	0509 2.9	18.162	-77.897	13.9	3.4	Montpelier-Newmarket Belt	St Elizabeth	7	Yes
11/21/2017	0502 22.3	18.083	-76.757	16.2	1.8	Wagwater Trough North	St Andrew	11	No
12/4/2017	2236 4.3	18.212	-76.510	8.4	2.7	Port Antonio	Portland	13	No
12/10/2017	0745 59.2	18.043	-76.527	6.2	2.5	Yallahs-Plantain Garden Fault Zone	St Thomas	23	No
12/10/2017	1808 31.7	18.258	-76.451	0.0	2.5	Yallahs-Plantain Garden Fault Zone	St Thomas	23	No
12/24/2017	1104 44.6	18.411	-76.899	0.0	2.7	Ocho Rios	St Mary	4	No
12/31/2017	2219 36.7	17.896	-76.847	19.0	2.8	Kingston	Offshore	21	No
6/27/2017	154 0.4 1	18.081	-76.566	4.1	2.3	Blue Mountains Block	Portland	16	No

Near Region Seismic Activity - 2017

Date	Origin time	Latitude	Longitude	Depth	Magnitude	Local Region Sub-areas	Parish	Number	Reported Felt
1/2/2017	534 29.1	18.611	-77.012	0.0	2.6	Oriente Fracture Zone		30	No
1/8/2017	1451 56.7	18.247	-75.769	0.0	3.1	Caribbean Sea East of Jamaica		34	No
1/17/2017	928 45.6	19.681	-76.642	30.3	3.8	Oriente Fracture Zone		30	No
1/17/2017	1546 23.5	19.697	-76.638	31.1	3.5	Oriente Fracture Zone		30	No
1/17/2017	9 8 9.6	19.300	-76.754	30.0	5.1	Oriente Fracture Zone		30	Yes
1/18/2017	138 54.2	19.625	-76.559	30.1	4.0	Oriente Fracture Zone		30	No
1/18/2017	520 27.2	19.700	-76.601	29.6	4.2	Oriente Fracture Zone		30	No
1/18/2017	15 1 11.5	19.747	-76.621	15.0	3.2	Oriente Fracture Zone		30	No
1/19/2017	1429 55.1	17.537	-79.146	114.9	3.8	Cayman Trough West		32	No
1/19/2017	137 10.4	19.795	-76.572	30.5	4.0	Oriente Fracture Zone		30	No
1/19/2017	149 8.6	19.651	-76.558	42.8	3.7	Oriente Fracture Zone		30	No
1/19/2017	248 54.2	19.724	-76.647	30.2	3.7	Oriente Fracture Zone		30	No
1/20/2017	148 39.3	19.706	-75.605	29.8	4.2	Oriente Fracture Zone		30	No
1/20/2017	615 19.7	19.733	-76.665	30.4	3.9	Oriente Fracture Zone		30	No
1/20/2017	622 35.5	19.766	-76.656	29.4	3.8	Oriente Fracture Zone		30	No
1/20/2017	1330 34.8	19.397	-77.506	11.5	3.5	Oriente Fracture Zone		30	No
1/26/2017	332 4.1	19.760	-76.653	30.6	3.6	Oriente Fracture Zone		30	No
1/31/2017	347 56.1	17.660	-73.891	0.0	4.3	Northern Haiti		29	No
2/2/2017	23 7 37.2	19.649	-75.396	25.9	4.0	Oriente Fracture Zone		30	No
2/14/2017	2 8 12.4	19.508	-76.564	43.2	3.4	Oriente Fracture Zone		30	No

2/16/2017	954 2.2	18.622	-77.502	21.2	2.8	Oriente Fracture Zone		30	No
2/18/2017	928 29.8	19.758	-76.675	29.7	3.8	Oriente Fracture Zone		30	No
2/19/2017	515 23.2	19.712	-75.568	31.6	3.4	Oriente Fracture Zone		30	No
2/22/2017	0032 46.7	18.052	-75.349	0.0	3.7	Caribbean Sea East of Jamaica		34	No
2/24/2017	16 9 54.1	18.090	-75.365	0.0	4.5	Caribbean Sea East of Jamaica		34	No
2/24/2017	1834 30.8	18.087	-75.389	0.0	3.7	Caribbean Sea East of Jamaica		34	No
2/24/2017	2335 5.7	18.040	-75.311	0.0	4.1	Caribbean Sea East of Jamaica		34	No
3/2/2017	352 18.0	17.690	-78.688	77.1	3.7	Cayman Trough West		32	No
3/9/2017	1332 23.5	17.891	-78.849	15.1	3.5	Cayman Trough West		32	No
4/4/2017	2242 35.4	19.601	-76.795	61.1	3.6	Oriente Fracture Zone		30	No
4/4/2017	2253 16.9	19.593	-76.721	15.0	3.4	Oriente Fracture Zone		30	No
4/11/2017	1923 2.5	19.220	-75.539	0.0	4.4	Oriente Fracture Zone		30	No
4/17/2017	1634 40.2	19.438	-77.862	79.6	3.2	Oriente Fracture Zone		30	No
4/25/2017	456 34.0	19.556	-76.092	14.7	3.9	Oriente Fracture Zone		30	No
4/25/2017	1443 12.7	18.973	-76.221	62.5	4.0	Oriente Fracture Zone		30	No
5/6/2017	345 16.6	17.496	-77.756	8.1	3.2	Pedro Bank		37	No
5/8/2017	1238 21.5	17.232	-75.025	0.0	4.2	Morant Cays/Matley Bank		39	No
7/5/2017	532 42.2	19.761	-78.046	15.0	3.9	Oriente Fracture Zone		30	No
7/6/2017	3 0 17.3	17.921	-78.046	15.0	3.1	Blossom Basin		36	No
7/22/2017	1953 54.3	19.202	-77.957	66.1	3.5	Oriente Fracture Zone		30	No
7/25/2017	1020 47.8	17.724	-78.965	29.1	3.6	Cayman Trough West		32	No
7/31/2017	342 0.9	20.242	-80.668	18.4	4.5	Cayman Ridge		27	No
8/3/2017	0004 7.8	18.260	-78.514	12.3	3.9	Cayman Trough West		32	No
8/3/2017	0203 0.3	19.005	-76.795	104.2	2.9	Oriente Fracture Zone		30	No

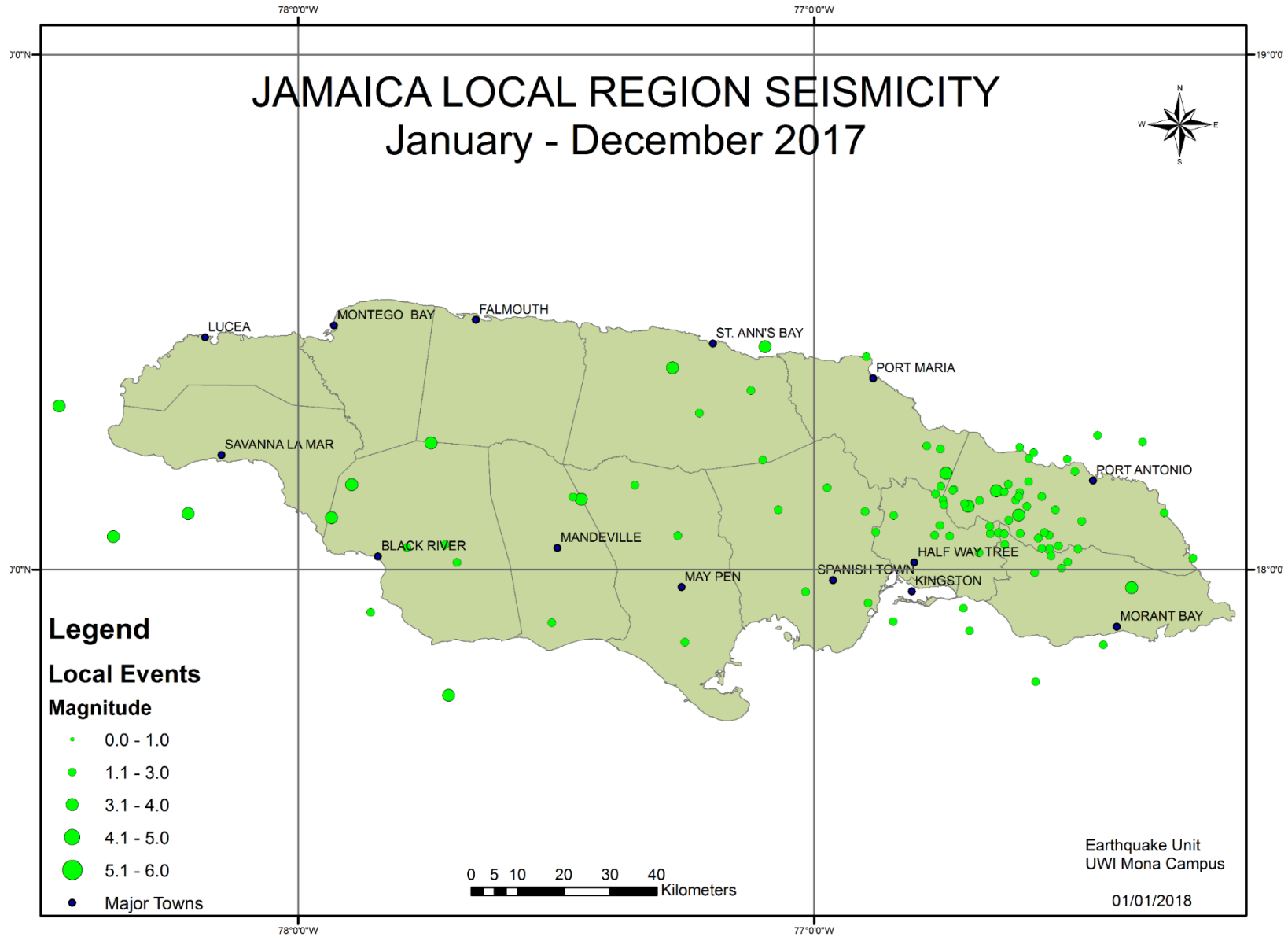
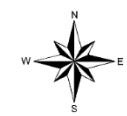
8/3/2017	0927 10.0	19.561	-75.738	124.8	3.7	Oriente Fracture Zone		30	No
8/3/2017	1858 30.0	19.231	-76.060	151.8	4.3	Oriente Fracture Zone		30	No
8/19/2017	2026 48.8	17.722	-80.021	103.9	5.2	Cayman Trough West		32	No
8/20/2017	0030 57.1	17.818	-79.850	0.0	4.2	Cayman Trough West		32	No
8/21/2017	0605 40.9	17.076	-78.634	0.0	3.9	Upper Nicaragua Rise		41	No
8/27/2017	2247 53.2	18.715	-76.560	0.1	2.7	Oriente Fracture Zone		30	No
8/29/2017	2344 15.5	19.495	-75.687	18.1	3.6	Oriente Fracture Zone		30	No
9/1/2017	1029 7.1	19.640	-77.396	15.1	3.9	Oriente Fracture Zone		30	No
9/15/2017	0557 6.1	19.552	-77.758	29.4	3.6	Oriente Fracture Zone		30	No
9/17/2017	1315 8.6	18.659	-78.937	15.0	3.9	Cayman Trough West		32	No
9/18/2017	0456 32.6	17.524	-78.011	47.4	4.1	Pedro Bank		37	Yes
9/19/2017	0705 43.9	17.511	-78.028	13.1	2.9	Pedro Bank		37	No
9/24/2017	0621 0.1	18.803	-76.325	93.2	3.0	Oriente Fracture Zone		30	No
10/4/2017	1925 5.5	19.342	-77.536	0.0	3.3	Oriente Fracture Zone		30	No
10/5/2017	0931 23.0	18.984	-78.496	0.0	4.1	Oriente Fracture Zone		30	No
10/9/2017	0925 36.2	18.484	-79.941	4.2	4.6	Cayman Trough West		32	No
10/13/2017	2009 52.0	19.500	-75.742	0.0	4.2	Oriente Fracture Zone		30	No
10/21/2017	1050 24.4	17.192	-78.223	46.2	3.6	Upper Nicaragua Rise		41	No
10/24/2017	2342 57.6	18.219	-75.899	0.0	3.2	Caribbean Sea East of Jamaica		34	No
11/9/2017	0319 16.3	19.506	-77.809	30.2	4.6	Oriente Fracture Zone		30	No
11/10/2017	0134 16.9	19.496	-77.844	30.5	4.2	Oriente Fracture Zone		30	No
11/12/2017	1342 16.0	19.445	-77.876	41.2	4.1	Oriente Fracture Zone		30	No
11/19/2017	1502 8.8	18.318	-76.128	15.0	2.8	Offshore Northeast Jamaica		33	No
11/29/2017	0821 42.3	17.661	-75.588	0.0	4.4	Morant Cays/Matley Bank		39	No
12/3/2017	1458 8.5	18.180	-81.257	15.0	4.3	Cayman Spreading centre		31	No

12/13/2017	0432 56.2	18.747	-77.051	0.0	3.1	Oriente Fracture Zone		30	No
12/16/2017	1912 34.4	19.534	-77.791	39.3	4.6	Oriente Fracture Zone		30	No
12/19/2017	2255 40.7	19.495	-77.818	40.2	3.9	Oriente Fracture Zone		30	No
12/26/2017	0453 49.1	17.809	-75.843	0.0	3.7	Caribbean Sea East of Jamaica		34	No
12/29/2017	1527 7.7	18.925	-81.331	15.0	4.4	Cayman Spreading Centre		31	No

Earthquakes felt in 2017

Event No.	Year	Month	Day	Time (EST)	a.m. / p.m.	Mag., Mt	degrees N	degrees W	depth, km	Sub-area	Sub-area name	Epicentre location	Intensity, EMS
1	2017	January	17	4:09	a.m.	5.2	19.300	-76.754	30.0	30	Oriente Fracture Zone	Located off the South Coast of Cuba	Reportedly felt in Portmore(III), St Catherine and Snow Hill in Portland.
2	2017	January	22	9:43	a.m.	3.6	18.243	-77.743	13.5	7	Montpelier Newmarket belt	Near Accompong, St Elizabeth	Reportedly felt in Siloah, Aberdeen, St Elizabeth.
3	2017	February	11	5:33	p.m.	3.0	18.147	-76.602	16.1	16	Blue Mountains Block	Located approximately 12km North of Hagley Gap, St Andrew in the Blue Mountains	Reportedly felt in Chancery Hall, St Andrew
4	2017	June	19	6:31	a.m.	3.1	18.174	-76.745	20.8	11	Wagwater Trough North	Located approximately 8km East of Castleton, St Mary	Reportedly felt in Chancery Hall, St Andrew
5	2017	June	19	11:25	p.m.	3.1	18.150	-76.647	14.0	16	Blue Mountains Block	Located approximately 10km South of Buff Bay, Portland in the Blue Mountains	Reported felt in Jacks Hill, St Andrew
6	2017	July	25	9:52	p.m.	3.3	18.134	-77.452	3.1	15	Rio Minho-Crawle River Fault Zone	Near Sanquinetti, Clarendon	Reportedly felt in Sections of Clarendon and St Andrew
7	2017	September	17	11:56	p.m.	4.2	17.524	-78.011	47.4	30	Pedro Bank	Located approximately 40km Southwest of Treasure Beach, St Elizabeth	Reportedly felt in sections of St Elizabeth, St James, Hanover and St Andrew.
8	2017	November	20	12:09	a.m.	3.4	18.162	-77.897	13.9	30	Montpelier Newmarket belt	Near Newmarket, St Elizabeth	Reportedly felt in Falmouth, Trelawny and Montego Bay, St James

JAMAICA LOCAL REGION SEISMICITY January - December 2017



Legend

Local Events

Magnitude

- 0.0 - 1.0
- 1.1 - 3.0
- 3.1 - 4.0
- 4.1 - 5.0
- 5.1 - 6.0

• Major Towns

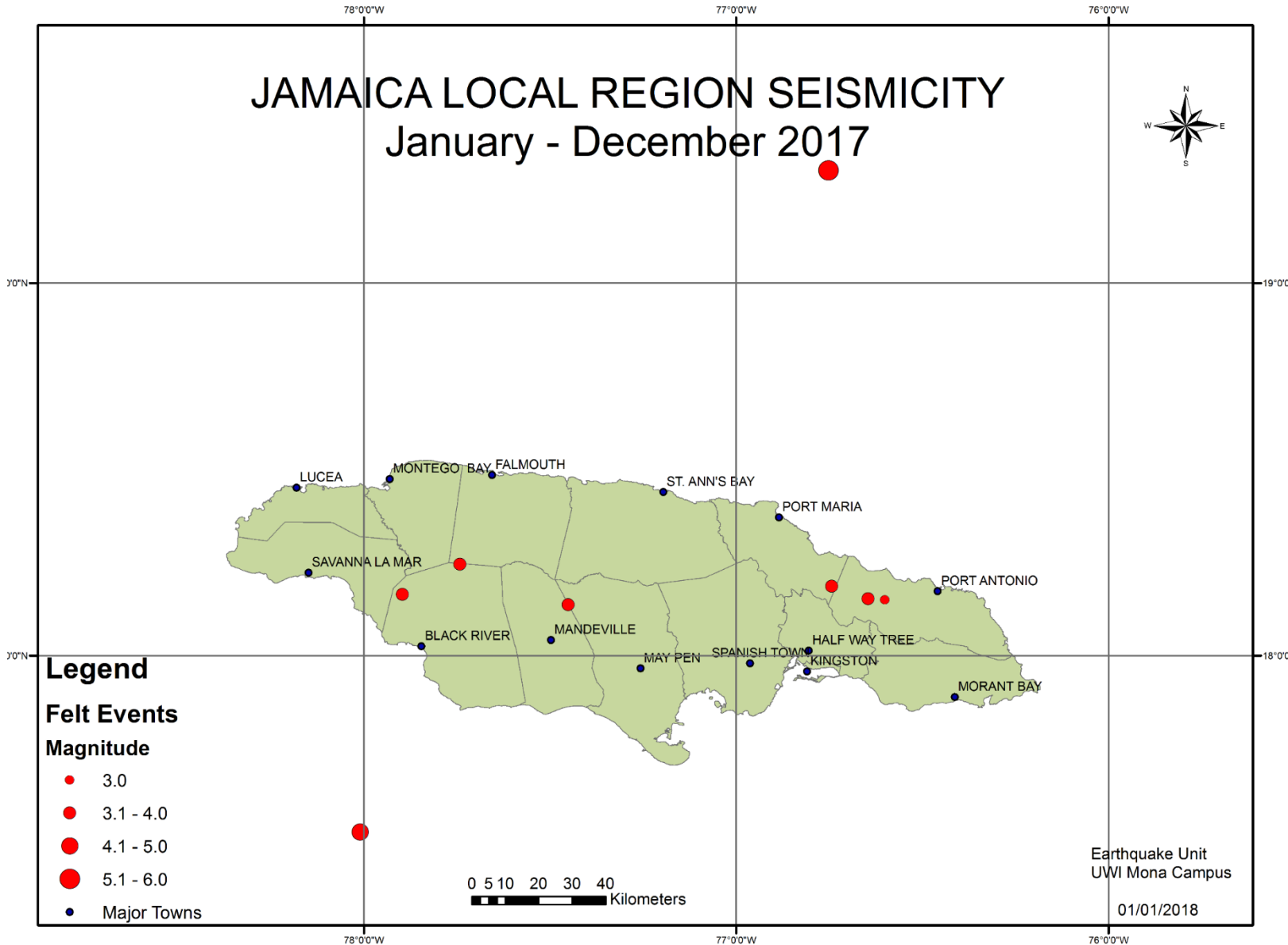
0 5 10 20 30 40 Kilometers

Earthquake Unit
UWI Mona Campus

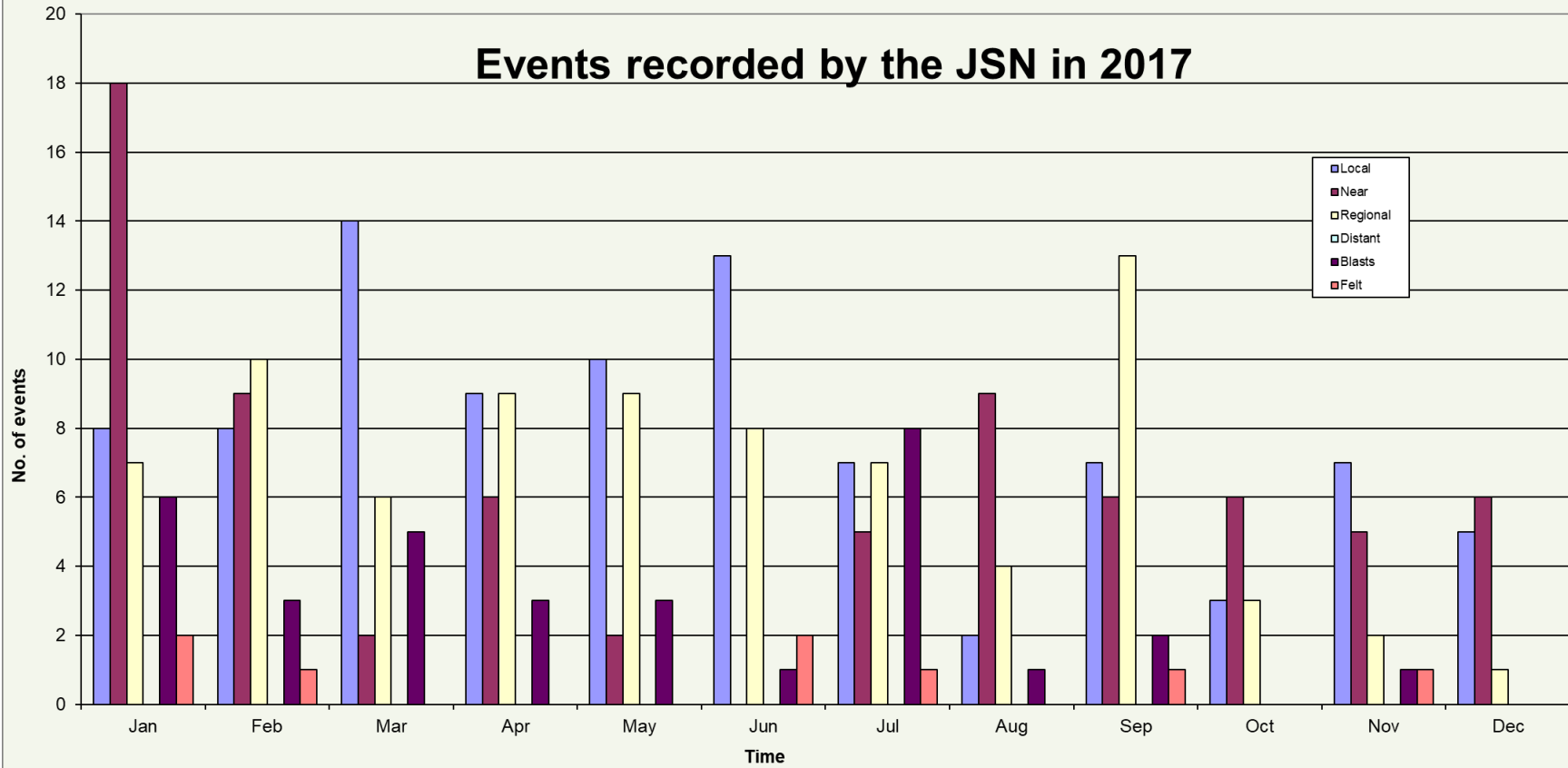
01/01/2018

JAMAICA LOCAL REGION SEISMICITY

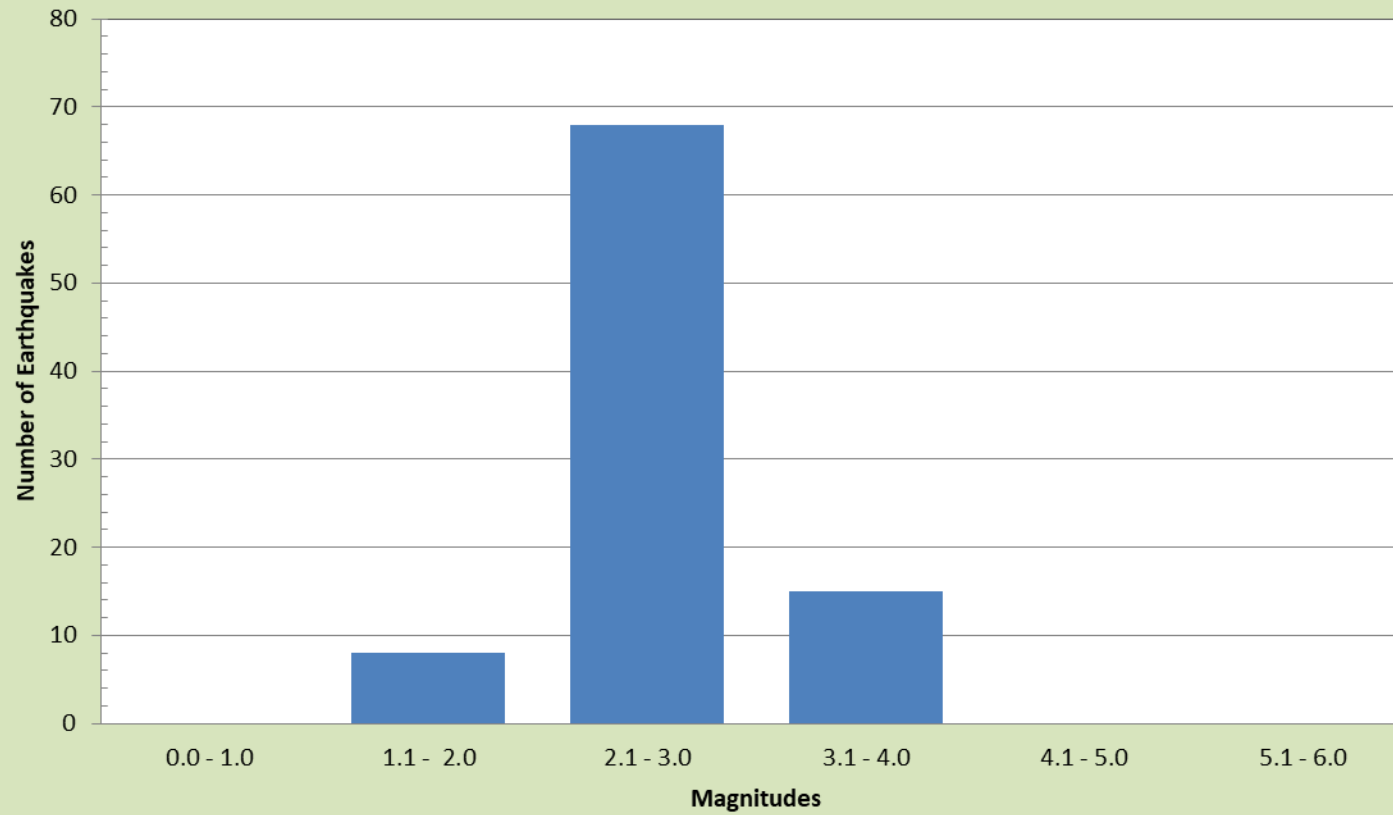
January - December 2017



Events recorded by the JSN in 2017

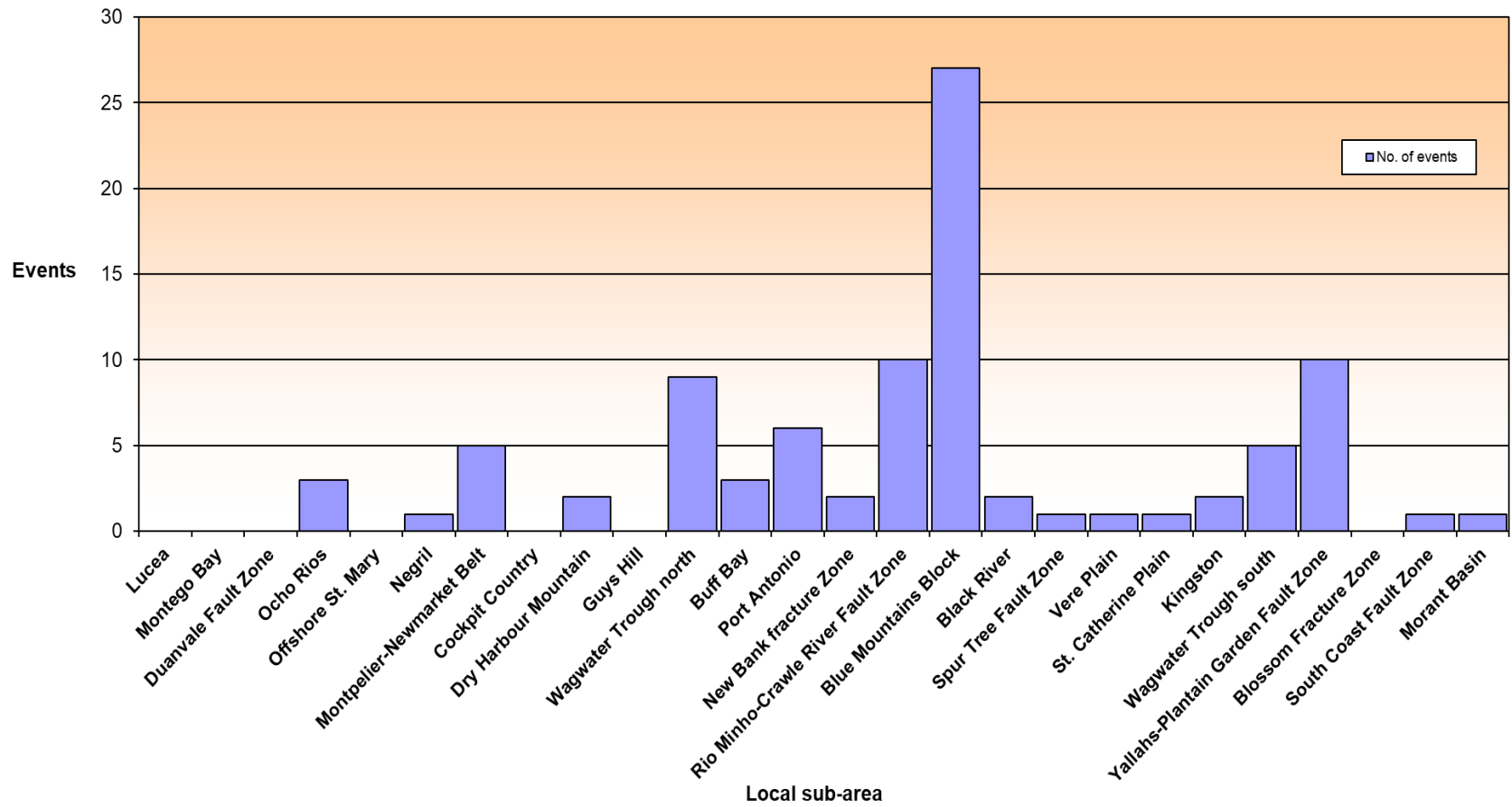


Magnitude Distribution of Local Earthquakes 2017

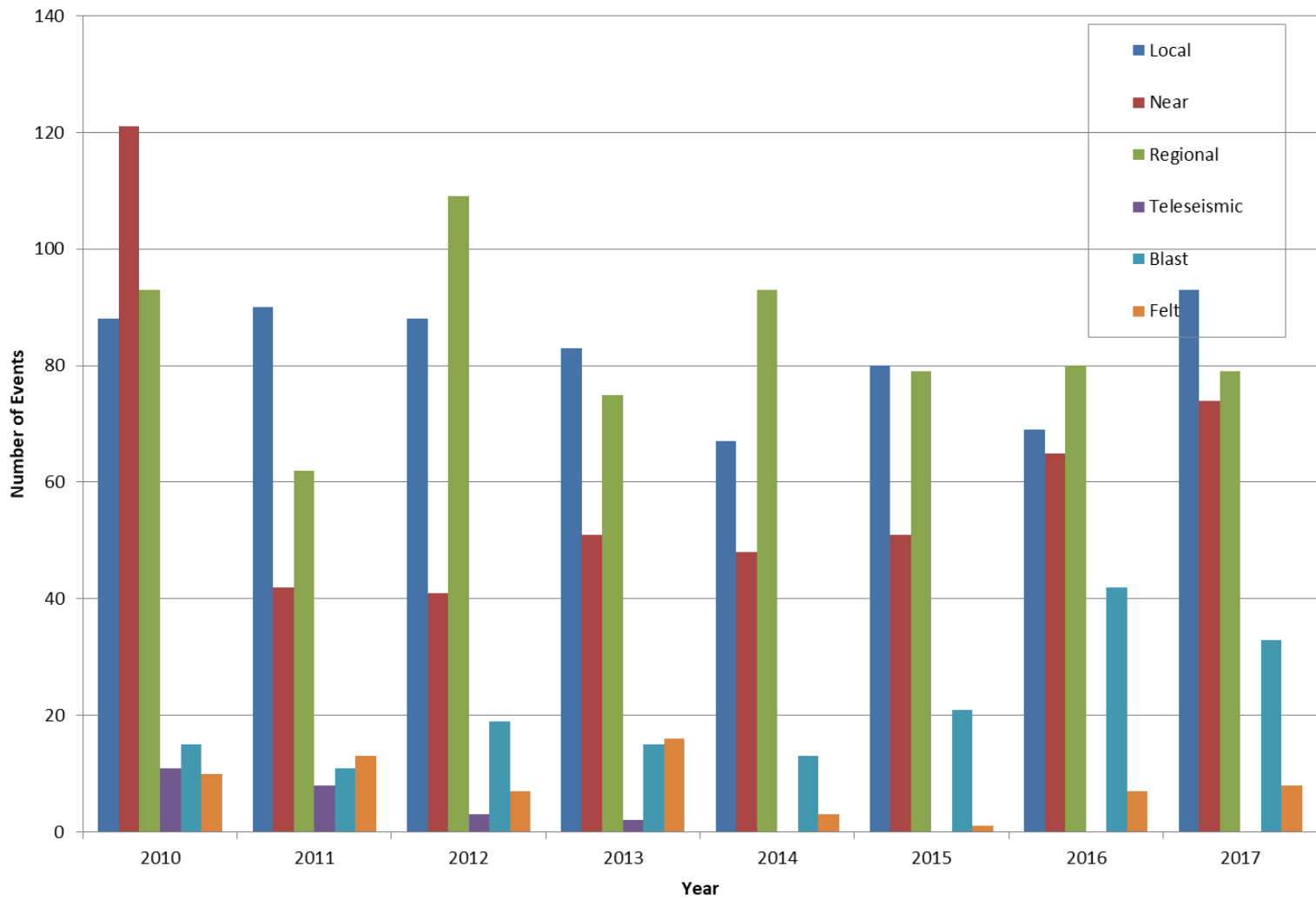


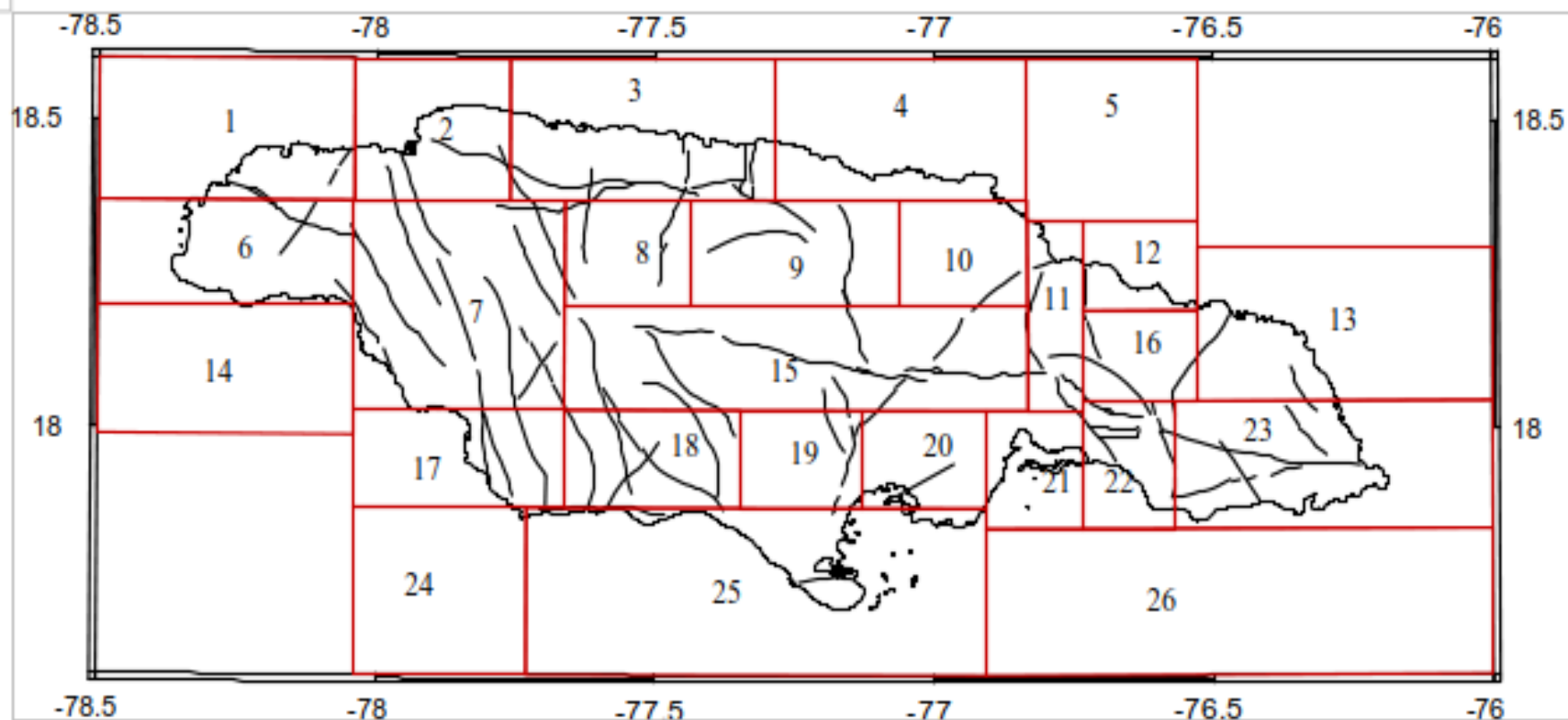
SEISMICITY BY SUB-AREA

JANUARY - DECEMBER 2017



Events Recorded by the JSN 2010 - 2017





JSN Local region sub-areas 1 - 26 and geologic faults (from Jamaica Geologic Structure Series, Jamaica 1:250,000, 1992)