

Supplementary Material

Combined Study of a Significant Mine Collapse Based on Seismological and Geodetic Data – 29 January, 2019, Rudna Mine, Poland

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The Supplementary Material includes one table, which contains the ground motion parameters calculated for the stations from the LUMINEOS based on the records for the 2019 event. These data are used for producing the plots in Figure 2 of the manuscript.

Table S1. Ground motion parameters estimated for LUMINEOS.

Station Code	Description	Geographic coordinates	Type	Epicent. dist.[km]	PHA	[m/s ²]	PVA	[m/s ²]	PHV	[cm/s]	PVV	[cm/s]	PHD	[mm]	PVD	[mm]
DABR	Dabrowa	51.5002,16.1406	Accelerom-r	1.64	0.948		0.444		6.352		2.083		7.669		1.283	
GUZI	Guzice	51.5312,16.1036	Accelerom-r	2.83	0.38		0.269		2.261		0.881		1.686		0.48	
KAZI	Kazimierzow	51.5396,16.0544	Accelerom-r	5.8	0.195		0.109		0.799		0.473		0.801		0.314	
KOMR	Komorniki	51.5272,16.1451	Accelerom-r	2.72	0.436		0.254		2.828		0.731		2.886		0.672	
KRZY	Krzydlowice	51.5459,16.2338	Accelerom-r	8.93	0.097		0.035		0.472		0.179		0.482		0.209	
OBIS	Obiszow	51.5778,16.1165	Accelerom-r	7.76	0.118		0.038		0.559		0.19		0.626		0.259	
PCHB	Chabrowa	51.5047,16.0572	Accelerom-r	4.44	0.296		0.115		1.339		0.439		0.827		0.401	
PEKW2	Pieszkowice2	51.4810,16.1380	Accelerom-r	3.25	0.648		0.35		2.705		1.056		2.807		1.085	
RZEC	Rzeczyca	51.5877,16.2667	Accelerom-r	13.48	0.061		0.022		0.28		0.105		0.263		0.098	
TRBC2	Trzebcz	51.5169,16.1088	Accelerom-r	1.28	0.725		0.403		3.227		1.36		3.157		0.914	
DWOL	Duza Wolka	51.5693,16.1315	Seismometer	6.85	0.101		0.057		0.652		0.292		0.696		0.274	
MOSK2	Moskorzyn	51.5439,16.0878	Seismometer	4.59	0.185		0.102		1.012		0.42		0.767		0.357	
JEDR	Jedrzyszow	51.4515,16.0446	Seismometer	8.24	0.131		0.037		0.702		0.237		0.53		0.23	
RUDN	Rudna	51.5107,16.2559	Seismometer	9.42	0.162		0.044		0.804		0.179		0.96		0.306	
TRN2	Tarnowek	51.5162,16.1659	Seismometer	3.27	0.288		0.158		1.476		0.678		1.098		0.574	
ZUKW2	Zukow	51.5434,16.1423	Seismometer	4.2	0.181		0.123		1.012		0.423		1.269		0.573	
NWLU	N. W. Lubinska	51.4667,15.9796	Seismometer	10.86	0.125		0.046		0.651		0.255		0.401		0.193	
TRZS	Trzesow	51.5897,16.3121	Seismometer	16.13	0.034		0.02		0.162		0.079		0.164		0.117	
SGOR	Sucha Gorna	51.5398,16.0214	Seismometer	7.77	0.066		0.044		0.431		0.15		0.364		0.247	
GROD	Grodziszczce	51.5541,16.2110	Seismometer	8.1	0.087		0.04		0.41		0.141		0.555		0.234	
ZMST	Zelazny Most	51.4783,16.1746	Seismometer	5.01	0.303		0.101		1.297		0.451		1.533		0.48	
PPOL	Polk. Polanka	51.4984,16.0906	Seismometer	2.36	0.379		0.546		1.673		1.48		1.452		0.835	

LUBW	Lubin Wschodni	51.4169,16.1855	Seismometer	11.1	0.132	0.081	0.623	0.254	0.844	0.319
LUBZ	Lubin Zachodni	51.4470,16.1229	Seismometer	6.8	0.141	0.073	0.833	0.272	1.03	0.401
BRDW	Biedrzychowa	51.4763,16.0933	Seismometer	4.02	0.348	0.178	1.667	0.573	1.308	0.571



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