

39

DE FOIA Resource

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**From:** Graizer, Vladimir *1/2/11*  
**Sent:** Wednesday, August 31, 2011 11:47 AM  
**To:** Cook, Christopher; Munson, Clifford; Karas, Rebecca  
**Cc:** Devlin, Stephanie; Tabatabai, Sarah; Li, Yong  
**Subject:** FW: data  
**Attachments:** Virginia\_Simple.xlsx; Virginia\_Simple.pdf

Chris, Becky and Cliff,

I put all available strong-motion data from the M5.8 earthquake: 15 stations shown in red rectangles.

I also added 27 estimates of PGA from the USGS ShakeMap (blue triangles) within 100 km from the epicenter. These are not instrumental measurements, but estimations from the "Did you feel it".

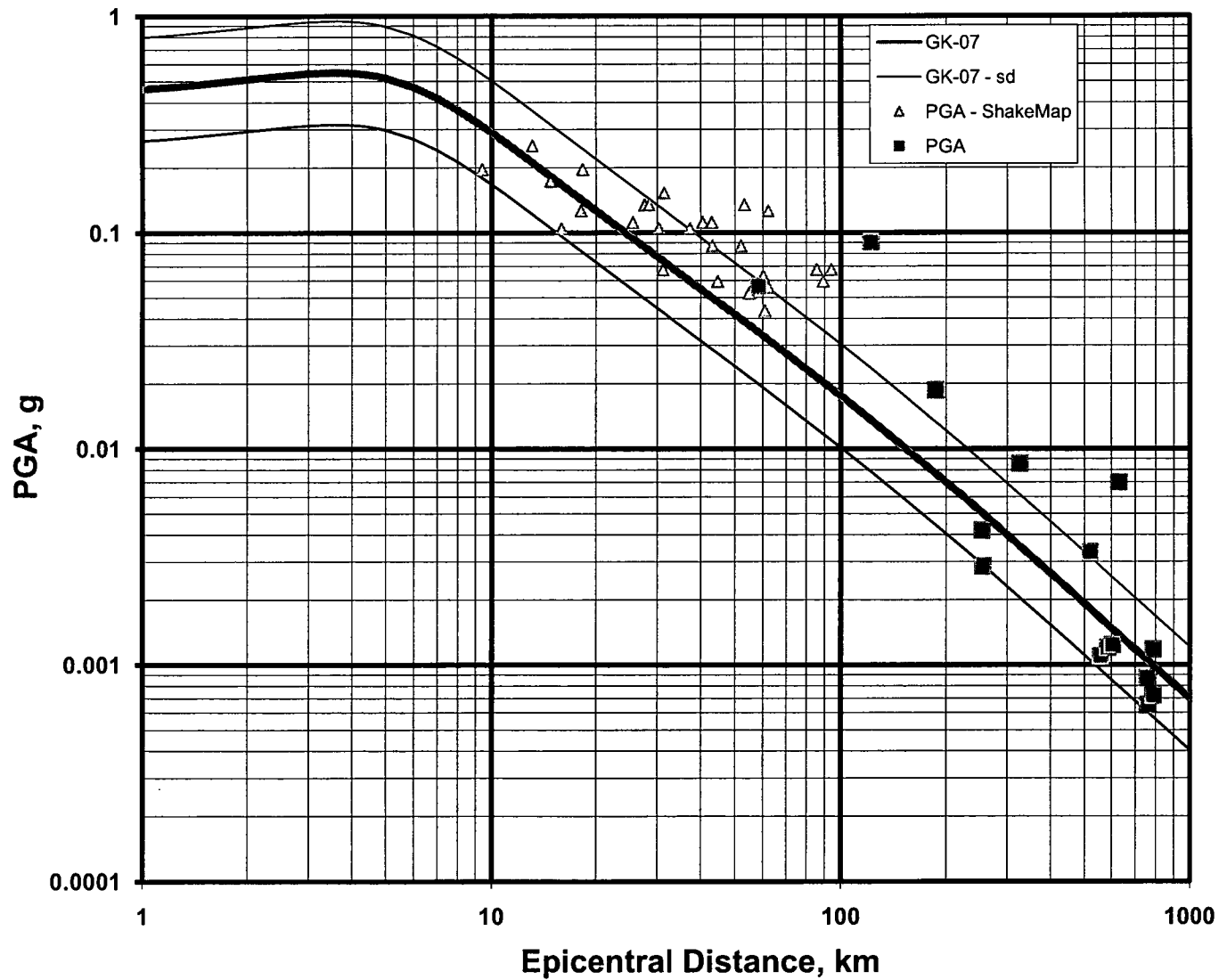
Max estimated PGA is 0.25 g at Louisa at 13 km from the epicenter.

Hope it can help.

Vladimir

*E/32 (10)*

# Peak Ground Acceleration vs Distance Mw 5.8 Mineral, Virginia, 2011.



Peak Ground Motion Data (Order) for  
 Mineral Virginia Earthquake of 2011, 17:51:04 UTC, 5.8Mw  
 37.94N 77.93W, 6.0 km depth Id: usse 082311a  
 CESMD Engineering Strong Motion Data Center  
 Table Last Updated: 2011-11-10 10:06:11

Network Id	Station Name	Station Nbr	Station Name	N.Lat	W.Long	Dist Epic	PGA <sub>v2</sub> (g)
US	NEIC	CBN	VA Corbin (Fredericksberg C	38.205	77.373	58.2	0.05660
			2555 VA Reston Fire St#25	38.951	77.336	121.6	0.09040
US	NEIC	SDMD	MD Soldiers Delight Area	39.410	76.840	187.2	0.01870
			MCWV	Mont Chateau, W. Virginia	39.658	79.846	253.4
NP	USGS	2549	VA Pearisburg - Giles Cour	37.327	80.735	254.5	0.00286
NP	USGS	2648	PA Philadelphia - Drexel Un	39.957	75.192	326.1	0.00855
NP	USGS	2554	SC Columbia - VA Hospital	33.975	80.961	519.3	0.00332
NP	USGS	2654	NY Buffalo - VA Medical Ce	42.952	78.811	557.3	0.00110
NP	USGS	2552	SC Summerville - Fire Stati	33.025	80.176	584.5	0.00120
NP	USGS	2544	SC Charleston - Cha Pla H	32.781	79.932	603.1	0.00124
NP	USGS	2653	NY Albany - VA Med	42.652	73.773	629.9	0.00700
NP	USGS	2649	MA Boston - Jamaica Plain	42.328	71.110	758.0	0.00087
NP	USGS	2602	MA Bedford - VA Hospital	42.504	71.273	759.6	0.00065
NP	USGS	2652	Manchester - VA Medical C	43.013	71.442	787.0	0.00072
NP	USGS	2655	VT White River Junction V/	43.649	72.343	787.9	0.00118

**ShakeMap**

Mineral	37.981	77.874	9.4	0.196
Louisa	38.000	78.037	13.1	0.252
Bumpass	37.922	17.292	14.8	0.17292
Gum Spring	37.804	77.928	15.9	0.1045
Sandy Hook	37.784	77.958	18.1	0.1262
Kents Store	37.884	78.1185	18.3	0.1961
Goochland	37.719	77.999	25.5	0.1113
Columbia	37.759	78.142	27.6	0.13445
Partlaw	38.080	77.675	28.4	0.1344
Troy	37.963	78.2698	30.3	0.1045
Rockville	37.726	77.708	31.1	0.0673
Fork Union	37.777	78.22	31.4	0.1525
Bremo Bluff	37.736	78.267	37.3	0.10454
Doswell	37.847	77.4911	40.5	0.1113
Ruther Glen	37.938	37.449	43	0.1113
Powhatan	37.551	77.935	43.2	0.0866
Ashland	37.760	77.4822	44.7	0.05934
Scottsville	37.783	78.487	52	0.0866
Fredericksburg	38.218	77.448	53.2	0.1344
Cumberland	37.513	78.249	54.9	0.05233
Moseley	37.409	77.786	60.2	0.0632
Bowling Green	38.020	77.2515	60.9	0.04333
Esmont	37.809	78.618	62.2	0.126
Richmond	37.540	77.435	62.3	0.0557
Tappahannock	37.917	76.965	85.4	0.0673
Sutherland	37.186	77.579	89.1	0.05934
Indian Head	38.520	77.165	93.8	0.0673

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