Path and site effects deduced from transfrontier internet macroseismic data of two recent M4 earthquakes in NW Europe

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Supplementary material:

The supplementary material contains several shapefiles that can be used to regenerate Figures 6B and 10 in the paper.

1. *Goch/Ramsgate epicentre:* Epicentre location shapefiles of the 2011 Goch and 2015 Ramsgate earthquakes based on the ROB-BNS and BGS solutions, respectively.

2. *Goch Grid Cell Intensity Map:* Shapefile of the 2011 Goch earthquake grid cell intensity map including number of merged responses from all institutions per grid cell (PNTCNT) and mean intensities (CII_mean). To colour the grid cells in a similar way as in Figure 6B, use the *Grid cell intensity color scale QGIS.qml* in QGIS.

3. *Ramsgate Grid Cell Intensity Map:* Shapefile of the 2015 Ramsgate earthquake grid cell intensity map including the mean intensities (CII_mean) per grid cell. To colour the grid cells in a similar way as in Figure 10, use the *Grid cell intensity color scale QGIS.qml* in QGIS.

4. *Grid cell intensity color scale QGIS.qml:* QGIS Layer Style File with Intensity Colours. Apply the Layer Style File to the 2011 Goch and 2015 Ramsgate shapefiles in QGIS to colour the grid cell intensity maps in a similar way as in Figures 6B and 10.

5. *Border Faults LRG:* Lower Rhine Graben border faults shapefile after Vanneste, K., Camelbeeck, T., and Verbeeck, K. 2013. A Model of Composite Seismic Sources for the Lower Rhine Graben, Northwest Europe, *Bulletin of the Seismological Society of America*, **103**, 984-1007.