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Peak Ground Acceleration and Station Site Effect in Austria

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This presentation will show results of the estimated Peak Ground Acceleration (PGA) attenuation in Austria and influence of the station site effect of the Austrian Seismic Network (network code OE).

Data recorded by the STS2-sensors at the Austrian Seismic Network are utilized by this study. By differentiating the velocity traces, acceleration traces are obtained and used as input data for the PGA estimation. In order to validate the models derived from the differentiated STS2 traces, recordings on the co-located acceleration meters were used and compared with the STS2 recordings for each co-located station pair. A general good agreement between the co-located velocity and acceleration recordings was observed. Further more, studies were extended to the remaining acceleration stations at the Austrian Seismic Network. Comparisons and discussions will be given as well.