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Area of Interest: Seismic Hazard Assessment, Seismic Micro-zonation, Site Response Analysis, Clustering Analysis, Earthquake Early Warning

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Publication:

Peer reviewed journals

S. Ullah, D. Bindi, M. Pilz, L. Danciu, G. Weatherill, E. Zuccolo, A. Ischuk, N. Mikhailova, K. Abdrakhmatov, S. Parolai (2015). Probabilistic Seismic Hazard Assessment for Central Asia. *Annals of Geophysics*.

S. Ullah, D. Bindi, M. Pilz, S. Parolai (2015). Probabilistic Seismic hazard assessment of Bishkek, Kyrgyzstan, considering empirically estimated site effects. *Annals of Geophysics*.

N. Mikhailova, A. Mukambayev, I. Aristova, G. Kulikova, **S. Ullah**, M. Pilz, and D. Bindi (2015) Central Asia earthquake catalogue from an ancient time to 2009. *Annals of Geophysics*.

M. Pilz, T. Abakanov, K. Abdrakhmatov, D. Bindi, T. Boxberger, B. Moldobekov, S. Orunbaev, N. Silacheva, **S. Ullah**, S. Usupaev, P. Yasunov, S. Parolai (2015) An overview on the seismic microzonation and site effect studies in Central Asia. *Annals of Geophysics*.

G. Zöller, **S. Ullah**, D. Bindi, S. Parolai, N. Mikhailova (2015) The largest expected magnitudes in Central Asia: Statistical inferences from an earthquake catalog with



uncertain magnitudes. The Geological Society of London, Special Publication "Seismicity, Fault Rupture and Earthquake Hazards in Slowly Deforming Regions",

S. Ullah, D. Bindi, M. Pittore, M. Pilz, S. Orunbaev, B. Moldobekov, S. Parolai (2013). Improving the spatial resolution of ground motion variability using earthquake and seismic noise data: the example of Bishkek (Kyrgyzstan) , *Bulletin of Earthquake Engineering* (DOI) 10.1007/s10518-012-9401-8

S. Parolai, D. Bindi, **S. Ullah**, S. Orunbaev, S. Usupaev, B. Moldobekov, H. Echtler (2013) The Bishkek Vertical Array (BIVA):acquiring strong motion data in Kyrgyzstan and first results, *Journal of Seismology*, DOI 10.1007/s10950-012-9347-y

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Conference Papers

S. Ullah, D. Bindi, N. Mikhailova, L. Danciu, G. Weatherill, S. Parolai (2014). Probabilistic seismic hazard assessment for Central Asia. Remote and Ground based earth observation in Central Asia" dedicated to the 10-year Anniversary of CAIAG, Bishkek, Kyrgyzstan; 09/2014

S. Ullah, D. Bindi, N. Mikhailova, L. Danciu, G. Weatherill, S. Parolai (2014). Probabilistic seismic hazard assessment in Central Asia using different source models. Second European Conference on Earthquake Engineering and Seismology, Istanbul, Turkey; 08/2014

S. Ullah, D. Bindi, E. Zuccolo, N. Mikhailova, L. Danciu, S. Parolai (2014). Seismic hazard assessment in Central Asia using smoothed seismicity approaches. EGU General Assembly 2014, Vienna Austria; 04/2014

S. Ullah, M. Pilz, D. Bindi, S. Orunbaev, Y. Kamchybekov, M. Picozzi, S. Parolai (2013) Comparing site response techniques by means of earthquake data and ambient seismic noise analysis in Karakol (Kyrgyzstan). EGU General Assembly 2013, Vienna Austria; 04/2013

S. Tyagunov, T. Abakanov, K. Abdrakhmatov, U. Begaliev, D. Bindi, M. Charyev, I. Ilyasov, A. Ishuk, N. Mavlyanova, N. Mikhailova, M. Pilz, M. Pittore, T. Rashidov, S. Saidiy, **S. Ullah**, M. Usmanova, M. Wieland, P. Yasunov, P. Ziyautdinov, J. Zschau (2012). Seismic risk assessment in the countries of Central Asia, International conference on "Complexity in earthquake dynamics:From nonlinearity to earthquake prediction and seismic stability" January 25-26,2012 Tashkent, Uzbekistan

M. Pittore, D. Bindi, K. Fleming, S. Parolai, M. Picozzi, M. Pilz, J. Stankiewicz, S. Tyagunov, **S. Ullah**, M. Wieland, J. Zschau (2012). Seismic risk assessment from earthquake early warning and rapid response system: The Bishkek (Kyrgyzstan) test case. General Assembly of the European Seismological Commission, ESC 2012, Moscow, Russia; 08/2012

Other journals

M. Pittore, M. Wieland, D. Bindi, **S. Ullah**, M. Pilz, K. Fleming, S. Parolai (2013) Risikoanalysen in Zentralasien. System Erde (2013) DOI: 10.2312/GFZ.syserde.03.02.4 (in German with abstract in English)

M. Pittore, M. Wieland, D. Bindi, **S. Ullah**, M. Pilz, K. Fleming, J. Zschau, S. Parolai (2013) EMCA & Co.: Towards Harmonized Seismic Risk in Central Asia. CEDIM Annual Research Report 2013. Focus on Forensic Disaster Analysis in Near Real Time.

Technical reports

S. Ullah, S. Parolai, M. Pittore (2016). A report on site effects studies in Kyrgyzstan. Recommendation for a new seismic normative, (Scientific Technical Report; 16/02), Potsdam: GFZ German Research Center for Geosciences. DOI: <http://doi.org/10.2312/GFZ.b103-1602en>

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M. Pittore, D. Bindi, S. Tyagunov, M. Wieland, M. Picozzi, M. Pilz, **S. Ullah**, K. Fleming, S. Parolai, J. Zschau, B. Moldobekov, K. Abdrakhmatov, U. Begaliev, P. Yasunov, A. Ishuk, N. Mikhailov (2011) Seismic Hazard and Risk in Central Asia. Scientific Technical Report STR 11/14 doi: 10.2312/GFZ.b103-11149

Dataset

S. Ullah, K. Abdrakhmatov, A. Sadykova, R. Ibragimo, A. Ishuk, L. Danciu, S. Parolai, D. Bindi, M. Wieland, M. Pittore (2015) EMCA Central Asia seismic source model v1.0 (EMCA_seismozonesv1.0). GFZ German Research Center for Geosciences. 10.5880/GFZ.EWS.2015.002