

Publications within the INQUA Scale Project

In the frame of the "INQUA Scale Project" activities, numerous papers, reports and abstracts have been published. In this section is reported a preliminary list.

Papers and Reports (published or in press)

- Fokaefs A. & Papadopoulos G. (in press). Testing the new INQUA intensity scale in Greek earthquakes. *Quaternary International* (2007), doi: 10.1016/j.quaint.2007.02.019.
- Guerrieri L., Tatevossian R., Vittori E., Comerci V., Esposito E., Michetti A.M., Porfido S., Serva L. (2007). Earthquake environmental effects (EEE) and intensity assessment: the INQUA scale project. *Boll. Soc. Geol. It. (Ital. J. Geosci.)*, Vol. 126, No. 2, Roma.
- Guerrieri L., Vittori E., Esposito E., Porfido S., Tatevossian R., Serva L. (2006). The INQUA intensity scale. Brochure APAT, 4 pp.
- Lalinde C. P. & Sanchez J.A. (2007). Earthquake and environmental effects in Colombia in the last 35 years. INQUA Scale Project. *Bulletin of the Seismological Society of America*, Vol. 97, (2), pp. 646–654.
- Michetti A.M., Audemard F.A.M., Marco S. (2005). Future trends in paleoseismology: Integrated study of the seismic landscape as a vital tool in seismic hazard analyses. *Tectonophysics* 408 (2005) 3–21.
- Michetti A. M., Esposito E., Gürpınar A., Mohammadioun J., Mohammadioun B., Porfido S., Rogozhin E., Serva L., Tatevossian R., Vittori E., Audemard F., Comerci V., Marco S., McCalpin J., Mörner N.A.. (2004). The INQUA Scale. An innovative approach for assessing earthquake intensities based on seismically-induced ground effects in natural environment. Special paper APAT, Mem. Descr. Carta geol. d'Italia, Vol LXVII. (E. Vittori & V. Comerci eds.), 115 pp.
- Michetti A.M., Livio F., Chinga K. Esposito E., Fanetti D., Gambillara R., Martin S., Pasquarè F., Porfido S., Sileo G., Vittori E. (2005). Ground effects of the MI 5.2, November 24, 2004, Salò earthquake, Northern Italy, and the seismic hazard of the western Southern Alps. *Rend. Soc. Geol. It.*, 1 (2005), Nuova Serie, 134-135, 2 ff.
- Papathanassiou G., Valkaniotis S., Pavlides S. (2007). Applying the INQUA Scale to the Sofaeds 1954, Central Greece, earthquake.
- Porfido S., Esposito E., Vittori E., Tranfaglia G., Guerrieri L., Pece R. (2007). Seismically induced ground effects of the 1805, 1930 and 1980 earthquakes in the Southern Apennines (Italy). *Boll.Soc.Geol.It. (Ital. J. Geosci.)*, Vol. 126, No. 2, Roma.
- Salamon A. (2005). Seismically induced ground effects of the February 11, 2004, MI=5.2 northeastern Dead Sea earthquake. Geological Survey of Israel, Report 30/04.
- Serva L., Esposito E., Guerrieri L., Porfido S., Vittori E. & Comerci V. (in press). Environmental Effects from some historical earthquakes in Southern Apennines (Italy) and macroseismic intensity assessment. Contribution to INQUA EEE scale project. *Quaternary International* (2007), doi:10.1016/j.quaint.2007.03.015.
- Silva P.G. (2006) - La Escala de Intensidad Macrosísmica de INQUA (EEE Intensity Scale): Efectos Geológicos y Geomorfológicos de los terremotos. *Journal of Quaternary and Geomorphology: Cuaternario y Geomorfología*, Vol. 20 (1.2).
- Tatevossian R.E. (in press). The Verny, 1887, earthquake in central Asia: Application of the INQUA scale based on coseismic environmental effects. *Quaternary International* (2007), accepted manuscript.

Abstracts

32nd International Geological Congress - Florence, Italy, 20-28 August 2004

- Mohammadioun B. - Interpretation of paleoseismic data using an innovative macroseismicity scale.
- Serva L., Esposito E., Gurbınar A., Marco S., Mc Calpin J., Michetti A.M., Mohammadioun B., Porfido S., Tatevossian R., Vittori E. - The INQUA Scale: an innovative approach for assessing earthquake base ond seismically-induced ground effects in natural environments.

International Symposium on Active Faulting - Hokudan, Japan, 17-22 January 2005

- Esposito E., Porfido S., Livio F., Martin S., Michetti A. M., Chunga K., Fanetti D., Gambillara, R., Sileo G. & Vittori E. - Ground effects of the MI 5.2, November 24, 2004, Salò earthquake, Northern Italy: a case study for the use of the INQUA scale.
- Guerrieri L., Comerci V. & Vittori E. - An earthquakes database linking epicentral Intensity and surface faulting parameters.
- Kinugasa Y. - The INQUA Seismic Intensity Scale, its importance and problems.
- Michetti, A.M. - Paleoseismology, seismic hazard, and the INQUA Scale Project.

Porfido S. & Esposito E. - The INQUA Scale Project: Analysis and distribution of ground effects by type for Italian earthquakes.
Vittori E., Guerrieri L. & Comerci V. - Intensity – fault parameter relationships: implications for seismic hazard assessment.

“Dark Nature - Rapid natural Change and Human Responses”, Como, Italy, 3-7 September, 2005

Chunga K., León C., Quiñónez M., Stalín Benítez, Montenegro G. - Seismic Hazard Assessment for Guayaquil City (Ecuador): Insights from Quaternary Geological Data.
Chunga K., Zamudio Y., Marín G., Egred J., Quiñónez M., Iturralde D. - The 12 Dic, 1953, Earthquake, Ms 7.3, Ecuador-Peru border region: A Case Study for Applying the New INQUA Intensity Scale.
Esposito E., Porfido S., Guerrieri L., Vittori E., Pennetta M. - INQUA intensity Scale Evaluation for the 1980 Southern Italy "Historical" Earthquake.
Fokaefs A., G.A. Papadopoulos, S. Pavlides - Testing the New INQUA Intensity Scale in Greek Earthquakes
Guerrieri L., Tatevossian R., Vittori E., Comerci V., Esposito E., Michetti A.M., Porfido S., Serva L. - The Database of Coseismic Environmental Effects as a Tool for Earthquake Intensity Assessment within the INQUA EEE Scale Project.
Kagan E.J., Agnon A., Bar-Matthews M., Avner Ayalon - Damaged Cave Deposits Record 200,000 Years of Paleoseismicity: Dead Sea Transform Region
Papathanassiou G., Pavlides S. - Using the INQUA Scale for the Assessment of Intensity: Case Study of 14/08/2003 Lefkada Earthquake, Greece
Tatevossian R. - Study of the Verny, 1887, Earthquake in Central Asia: Using Environmental Effects to Scale the Intensity
Zamudio Diaz Y., Marín Ruiz G., Vilcapoma Lázaro L. - Applying the INQUA Scale to Some Historical and Recent Peruvian Earthquakes.

EGU General Assembly 2006, Vienna, Austria, 06 April 2006, Session “3000 years of earthquake ground effects reports in Europe: geological analysis of active faults and benefits for hazard assessment”

Azuma, T.; Ota, Y. Comparison between seismic ground effects and instrumental seismic intensity- an example from a study on the 2004 Chuetsu earthquake in Central Japan.
Giardina, F.; Carcano, C.; Livio, F.; Michetti, A.M.; Mueller, K.; Rogledi, S.; Serva, L.; Sileo, G.; Vittori, E. Active compressional tectonics and Quaternary capable faults in the Western Southern Alps.
Guerrieri, L.; Esposito, E.; Porfido, S.; Vittori, E. The application of INQUA Scale to the 1805 Molise earthquake.
Michetti, A.M.; The INQUA Scale Project The INQUA Scale Project: linking pre-historical and historical records of earthquake ground effects.
Reicherter, K.R.; Silva, P.G.; Goy, J.L.; Schlegel, U.; Schöneich, S.; Zazo, C. Active faults and paleostress history of the Gibraltar Arc area (southern Spain) – first results.
Papanikolaou, I.D.; Papanikolaou, D.I.; Lekkas, E.L. Epicentral-near field and far field effects from recent earthquakes in Greece. Implications for the recently introduced INQUA Scale.
Silva Barroso, P.G.; Reicherter, K.; Bardají, T.; Lario, J.; Peltzer, M.; Grützner, C.; Becker-Heidmann, P.; Goy, J.L.; Zazo, C.; Borja, F. The Baelo Claudia earthquake problem, Southern Spain.
Silva, P.G.; Reicherter, K.R.; Bardají, T.; Lario, J.; Peltzer, M.; Grützner, Ch.; Becker-Heidmann, P.; Goy, J.L.; Zazo, C.; Borja, F. Surface and subsurface paleoseismic record of the Baelo Claudia area (Gibraltar Arc area, southern Spain) – first results.

ICTP IAEA Workshop on the Conduct of Seismic Hazard Analyses for Critical Facilities Trieste, Italy, 15-19 May 2006.

Abdel Aziz M.: INQUA intensity assessment for the 1995 Aqaba earthquake
Amit R.: The use of paleoseismic data and ground effects (INQUA Scale) of strong earthquakes for seismic hazard evaluations of the Dead Sea Rift.
Kinugasa Y.: Use of geological data for seismic hazard assessment and siting of the nuclear facilities in Japan.
Lalinde Pulido C.: Active tectonics and earthquake ground effects in Colombia, with examples of applications of the INQUA Scale.
Mc Calpin J.: Paleoseismology and Maximum Magnitude estimates in extensional terranes
Michetti A.M.: Introduction of the INQUA Intensity Scale
Mohammadioun B.: The INQUA Scale Project: A better link to dynamic source parameters and maximum magnitude determination
Mueller K.: Assessing Mmax on Active Thrust Faults in New Madrid (USA) and the Northern Po Basin (Italy)
Nelson A.: Earthquakes accompanied by tsunamis: their paleoseismic records and application to the INQUA intensity scale

Ota Y., Azuma T., Lin N.: Paleoseismological study and seismic hazards resulting from major recent active faulting in Japan and Taiwan, and examples of INQUA scale intensity maps.
Papathanasiou G.: Applications of the INQUA Scale in Greece
Porfido S., Esposito E., Guerrieri L., Vittori E.: Application of the INQUA Scale to Italian earthquakes
Reicherter K.: Paleoseismology and the study of earthquake ground effects in the Mediterranean Region.
Serva L.: The concept of the Intensity parameter in the Intensity scales
Silva P.G.: Fault activity and earthquake ground effects in Spain: applications of the INQUA Scale in the Iberian Peninsula
Tatevossian R.: Geological effects in the macroseismic intensity assessment, and the application of the INQUA Scale in former USSR
Vittori E.: Relationships among surface rupture parameters and intensity

Other conferences

Claudia Patricia Lalinde P., Beatriz Elena Estrada R. & Josef Farbiarz F. Preliminary application of the INQUA scale to the recent Colombian earthquakes. X° Congreso Colombiano de Geología, Bogotá, April 2005.
Papathanassiou G. & Pavlides S. – Lefkada. 14th MAEGS, Turin, September 2005.
Vittori E. The INQUA EEE scale. WS Regional Cooperation on natural hazards: tools for risk management, Yerevan, Armenia, October 26-28, 2005.