

## ORAL SESSIONS

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**Monday 8 October 2012**

*09:00 – 11:30*

**OPENING SESSION**

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- 09:00 – 09:30* **Registration**
- 09:30 – 10:00* **Opening speeches**
- 10:00 – 10:45* **The North Anatolian Fault Today**  
*Şengör, A.M.C.*
- 10:45 – 11:30* **Marmara pull-apart: tectonic evolution & large earthquakes**  
*Armijo, R., Çakır, Z., Pondard, N., Uçarkuş, G., Karakaş, C., Suc, J.-P., Meyer B.*
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**11:30 – 13:00 Lunch Break**

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**Monday 8 October 2012**

*13:00 – 15:00*

**The 9 August 1912 Earthquake**

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**Conveners:** *Aksoy, M. E. and Çakır, Z.*

- 13:00 – 13:20* **The 9 August 1912 Mürefte Earthquake**  
*Aksoy, M.E., Meghraoui M., Çakır, Z., Batlló, J.*
- 13:20 – 13:40* **Contribution to the study of the source of the 1912 Mürefte earthquakes from the analysis of contemporary seismograms**  
*López Comino, J. A., Aksoy, M. E., Stich, D., Batlló, J., Meghraoui, M.*
- 13:40 – 14:00* **Onland slip distribution of the 9 August 1912 earthquake**  
*Altunel, E., Barka, A.A., Akyüz, H.S., Meghraoui, M., Dikbaş, A.*
- 14:00 – 14:20* **Geology and seismotectonics of the Gulf of Saros (NE Aegean Sea), along the North-Anatolian Fault system**  
*Gasperini L., Aksoy M. E., Polonia A., Meghraoui M., Del Bianco F., Ülgen U. and the MARMARA2011 cruise party*
- 14:20 – 14:40* **The earthquake sedimentary record in the the Sea of Marmara, Turkey**  
*Hubert-Ferrari, A., Drab, L., Schmidt, S., Carlut, J., ElOuhabi, M., Martinez, P.*
- 14:40 – 15:00* **Tsunami potential of the 1912 Mürefte earthquake (M 7.4) in the Sea of Marmara; North Anatolian Fault, Turkey**  
*Baptista, M. A., Aksoy, M. E., Ferreira, H., Uçarkuş, G., Miranda J.M., Gasperini, L., Meghraoui, M.*
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**15:00 – 15:20 - Coffee Break & Posters**

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**Monday 8 October 2012**

**15:20 – 18:00      Discussions on the Sea of Marmara & Northern Aegean Sea  
Regions**

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**Conveners: *Altunel, E. and McHugh, E.***

- 15:20 – 15:40      Tectonic events responsible for shaping the Sea of Marmara and its  
Surrounding Region**  
*Görür N., Elbek, Ş.*
- 15:40 – 16:00      Geomorphological analysis of submarine fault scarps: Implications for the  
tectonic evolution of the Sea of Marmara pull-apart (NAF).**  
*Pondard, N., Armijo, R., Meyer, B., Mercier de Lepinay, B., Uçarkuş, G.*
- 16:00 – 16:20      Analysis of the micro-earthquake activity in the Western Marmara Sea  
based on data from 2006 to 2012**  
*Pabuçcu Z., Tan O., Yörük A., Açıkgöz C., Sevim F., Ergintav S., İnan S.*
- 16:20 – 16:40      Kinematic features, fault segmentation and historical earthquakes of the  
Ganos Fault**  
*Yaltrak C., Alpar, B., Altınok Y., Elitez, İ., Tur, H., Kıyak, N., Zabcı C.*

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**16:40 – 17:00 - Coffee Break**

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- 17:00 – 17:20      Estimates of the shear at the west edge of the North Aegean Trough from  
historical triangulation data**  
*Stiros, S., Moschas, F.*
- 17:20 – 17:40      Fault interactions in the Sea of Marmara pull-apart (North Anatolian  
Fault): earthquake clustering and propagating earthquake sequences**  
*Pondard, N., Armijo, R., King, G.C.P., Meyer, B., Flerit, F.*
- 17:40 – 18:00      Archaeological Evidence for Late-Holocene Fault Rupture Characteristics  
of the North Anatolian Fault in Hersek Peninsula, Izmit Bay, Turkey**  
*Kozacı Ö., Altunel E., Clahan K., Şimşek O.*

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**Tuesday 9 October 2012**

**09:00 – 12:40**

**Active Tectonics along the North Anatolian Fault**

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**Conveners: Karabulut, H. and Ergintav, S.**

- 09:00 – 09:20 Frictional strength of seismogenic layer along North Anatolian Fault Zone: new insights by combining thin-sheet modelling and elastic thickness variability**  
*Özeren, M.S., Klein, E.C., Postacioğlu, N.*
- 09:20 – 09:40 What controls the location where large earthquakes nucleate along the North Anatolian Fault ?**  
*Bouchon, M., Karabulut, H., Schmittbuhl, J., Durand, V.*
- 09:40 – 10:00 Fault weakening and onset of aseismic creep on strike-slip faults**  
*Çakır, Z., Ergintav, S., Özener, H., Dogan, U., Akoğlu, A. M., Meghraoui, M., Reilinger R.*
- 10:00 – 10:20 Detection of creeping around İsmetpaşa section of the North Anatolian Fault using geodetic data**  
*Çetin, E., Çakır, Z., Doğan, U., Akoğlu, A.M., Özener, H., Ergintav, S., Meghraoui, M.*
- 10:20 – 10:40 Creep Rate along the İsmetpaşa Segment of the North Anatolian Fault inferred from 7-years GPS Observations**  
*Özener, H., Ergintav, S., Doğan, U., Çakır, Z., Dogru, A., Turgut, B., Yılmaz, O., Halicioğlu, K., Sabuncu, A., Havazlı, E.*

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**10:40 – 11:00 Coffee Break & Posters**

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**Conveners: Çağatay, N. and Akyüz, M.**

- 11:00 – 11:20 Variation of slip rate and locking depth along the eastern section of the North Anatolian Fault deduced from InSAR and GPS observations**  
*Çakır, Z., Çetin, E., Ergintav, S., Tatar, O., Akoğlu, A. M.*
- 11:20 – 11:40 Present-day strain distribution across a segment of the central bend of the North Anatolian fault zone from a Persistent Scatterers InSAR analysis of the ERS and Envisat archives**  
*M. Peyret, F. Masson, H. Yavasoglu, S. Ergintav, R. Reilinger*
- 11:40 – 12:00 Characteristics of the active deformation zone within the central convex bend of the North Anatolian Fault**  
*Erturaç, M.K.*
- 12:00 – 12:20 Characteristics of Brittle Deformation in the North Anatolian Fault Zone**  
*Çağlayan, A., Işık, V., Karabacak, V.*
- 12:20 – 12:40 Seismic and Geodetic Constraints on Yedisu Segment and Karliova Triple Junction**  
*Aktug, B., Dikmen, Ü., Doğru, A., Özener, H*

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**12:40 – 14:00 Lunch Break**

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**Tuesday 9 October 2012**

**14:00 – 16:00 Subaqueous Paleoseismology along NAF and other fault systems**

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**Conveners: Görür, N. and Gasperini, L.**

- 14:00 – 14:20 **Turbidite paleoseismology in the Sea of Marmara Sea**  
*Çağatay M. N., Biltekin D., Ülgen U.B., Erel L., Gasperini L., Henry P., Grall C., Polonia A., McHugh C., Uçarkuş G.*
- 14:20 – 14:40 **Lacustrine paleoseismic records from the North Anatolian Fault**  
*Avşar, U., Hubert-Ferrari, A., De Batist, M., Fagel, N.*
- 14:40 – 15:00 **Structure and paleoearthquake records of active submarine faults, Cook Strait, New Zealand: Implications for fault interactions, stress loading, and seismic hazard**  
*Pondard, N., Barnes, P. M.*
- 15:00 – 15:20 **Submarine Paleoseismology along Transform Boundaries: A seismo-tectonic signal from offshore sedimentation of the 2010 Haiti Earthquake**  
*McHugh, C. M., Seeber, L., Cormier, M.-H., Hornbach, M., Momplaisir, R., Sorlien, C., Steckler, M., Waldhauser, F.*
- 15:20 – 15:40 **Active strike-slip faults offshore the South Iberian Margin (Alboran Sea and Gulf of Cadiz): Implications for submarine paleoseismology**  
*Gràcia, E., Bartolome, R., Lo Iacono, C., Moreno, X., Perea, H., Martínez-Loriente, S., Masana, E., Pallàs, R., Díez, S., Dañobeitia, J.J.*
- 15:40 – 16:00 **Paleoseismological and active tectonics studies on the offshore Bajo Segura Fault Zone (SE Iberian Peninsula – Mediterranean Sea)**  
*Perea, H., Gràcia, E., Alfaro, P., Bartolomé, R., Lo Iacono, C., Moreno, X., Masana, E.*

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**Tuesday 9 October 2012**

**16:00 – 17:00**

**Poster Session**

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**Wednesday 10 October 2012**

**09:00 – 12:20 Paleoseismology Along The North Anatolian Fault**

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**Conveners:** *Meghraoui, M. and Zabci, C.*

- 09:00 – 09:20 **A review of paleoseismic investigations along the North Anatolian Fault System**  
*Akyüz, S., Zabci, C.*
- 09:20 – 09:40 **Urgent issues on the paleoseismology of the North Anatolian fault**  
*Okumura, K.*
- 09:40 – 10:00 **On the use of paleoseismic data in ground motion simulations based on earthquake rupture scenarios**  
*Atakan, K.*
- 10:00 – 10:20 **From catalogs, earthquake geology data, and trench data to recurrence models: a Bayesian perspective.**  
*Fitzenz, D.D., Jalobeanu, A., Ferry, M.A.*
- 10:20 – 10:40 **Slip-rate estimations along the NAF using paleoclimatic fluctuations**  
*Aksoy, M.E., Meghraoui, M., Ferry, M., Çakır, Z.*

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**10:40 – 11:00 Coffee Break & Posters**

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**Conveners:** *Okumura, K. and Atakan, K.*

- 11:00 – 11:20 **Comparing the paleoseismic record obtained by coring a sag-pond and by classical trenching along the eastern segment of the North Anatolian Fault**  
*Hubert-Ferrari, A., Avsar, U., Fraser, J., El Ouahabi, M., Vanneste, K., Lepoint, G., Fagel, N.*
- 11:20 – 11:40 **The last 5 ka Morphochronological slip-rate history of the Ilgaz-Karlıova section of the North Anatolian Fault, Turkey**  
*Zabci, C., Akyüz, H. S., Sançar, T., Kıyak, N. G.*
- 11:40 – 12:00 **Morphotectonics and Paleoseismology of the Çaldıran Fault, Eastern Turkey**  
*Sağlam S.A., Erturaç M. K., Gutsuz P., Selçuk L.*
- 12:00 – 12:20 **Role of Paleoseismicity in Oil & Gas Pipelines interacting with the North Anatolian Fault Zone.**  
*Bayraktutan, M.S., Bayraktutan, L.S.*

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**12:20 – 14:00 Lunch Break**

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**Wednesday 10 October 2012**

**14:00 – 18:20 Active Tectonics and Paleoseismology: Recent Research from around the World**

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**Conveners: Ferrari-Hubert, A. and Erturaç, M.K.**

- 14:00 – 14:20 **Long-term faulting history and related seismic cycle of the Dead Sea Fault**  
*Meghraoui, M.*
- 14:20 – 14:40 **Past and Potential Future Earthquakes in North Iceland**  
*Jónsson, S., Metzger, S.*
- 14:40 – 15:00 **The May - June 2012 seismic sequence in Emilia Region (North Italy). An overview of surface effects from satellite images and ground survey.**  
*Stramondo, S., Bignami, C., Cannelli, V., Chini, M., Falcucci, E., Gori, S., Melini, D., Moro, M., Pierdicca, N., Pulvirenti, L., Saroli, M.*
- 15:00 – 15:20 **Seismotectonics of the Sagaing Fault in Myanmar**  
*Atakan K., Tun S.T., Thant M.*
- 15:20 – 15:40 **New Paleoseismology studies in Urmia-Silvana region**  
*Ciabeghods, A., Nikrouz, R.*

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**15:40 – 16:00 Coffee Break & Posters**

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**Conveners: Langridge, R. and Stramondo, S.**

- 16:00 – 16:20 **The Surface Deformation and Source Parameters of the October 23rd, 2011, Mw 7.1 Van (Turkey) Earthquake from InSAR, GPS and Field Observations**  
*Akoğlu, A.M., Jónsson, S., Çakır, Z., Ergintav, S., Doğan, U., Osmanoğlu, B., Feng, G., Zabcı, C.*
- 16:20 – 16:40 **A comparative study of the fault interaction and seismicity migration in the Kazerun (Iran) and North Anatolian (Turkey) fault systems**  
*Hashemi, S. N., Hasanlou, A.*
- 16:40 – 17:00 **Slip history of the Dead Sea fault system since 100 ka**  
*Ferry M., Gold, R., Meghraoui M.*
- 17:00 – 17:20 **Tectonic geomorphology of the active Kyaukkyan Fault, Myanmar**  
*Watkinson, I.*
- 17:20 – 17:40 **Paleoseismicity and slip rate of the strike-slip Hope Fault, South Island: A well-segmented and frequent earthquake source in New Zealand.**  
*Langridge, R.M., Khajavi, N., Hemphill-Haley, M. A., Almond, P., Duncan R.*
- 17:40 – 18:00 **Rupture Process of the 11 March 2011 Japan Earthquake**  
*Raeesi, M., Atakan, K.*
- 18:00 – 18:20 **Seismicity and Seismotectonics of the Tabuk Region, Northwestern Saudi Arabia**  
*Al-Arifi, N. S., Al-Besher, Z., Abdel-Rahman, K., Aldamegh, K.*

## POSTER SESSION

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**Monday to Wednesday 8 – 10 October 2012**

*Posters will be in display throughout the conference.  
Posters will be presented between 11:20 and 12:20 on Tuesday.*

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1. **Şarköy-Mürefte 1912 Tsunami and the Estimation of Underwater Failures in the Sea of Marmara**  
*Altınok, Y., Alpar, B., Yaltırak, C., Vardar (Aykurt), H.*
2. **Mapping of the earthquake-related hazard based on the artificial intelligence**  
*Pshenichny, C.A, Anokhin V.M., Garcia A.*
3. **Focal Mechanism Studying of Van Earthquake (in Turkey) Using Teleseismic Data**  
*Seifi Laleh, S., Gheitanchi, M., Hamzeloo, H.*
4. **Climate fluctuations and seismic precursors assessment through time series geospatial and in-situ monitoring data**  
*Zoran M., Savastru R., Savastru D.*
5. **The geometry and activity of the North Anatolian Fault's middle strand at the southern shelf of the Sea of Marmara**  
*Vardar, D., Öztürk, K., Yaltırak, C., Alpar, B., Tur, H., Elitez, İ.*
6. **Does the active Cibyra Fault cut the ancient Stadion? (Burdur-Fethiye Fault Zone, Turkey)**  
*Elitez, İ. and Yaltırak, C.*
7. **Seismic imaging of submarine seismogenic faults beneath the western Alboran Sea (SE Iberian margin)**  
*Bartolomé, R., Gràcia, E., Ranero, C., Lo Iacono, Cl., Martínez-Loriente, S., Perea, H., Dañobeitia, J. J.*
8. **The strike-slip Yussuf fault system (Alboran Sea): Multi-scale seismic imaging and evidences of Quaternary activity**  
*Perea, H., Gràcia, E., Bartolomé, R., Ranero, C.R., Lo Iacono, C., Martínez-Loriente, S., Moreno, X., EVENT-DEEP and TOPOMED-GASSIS teams*