

ORFEUS + EPOS SP + AdriaArray Virtual Workshop Program

Monday 2 November 2020

13:30-17:30 EPOS SP Training session

Conveners: Sandve, Michalek, Atakan

Details in "EPOS SP Training

Flyer": <https://polybox.ethz.ch/index.php/s/VWRBkH8tKYXZvHq>

Tuesday 3 November

10:00 Opening of the joint sessions and introduction

- Welcome and introduction from ORFEUS – Cauzzi (5 min.)
- Introduction from EPOS Seismology – Haslinger (5 min.)
- EPOS regional goals including discussion) (20 min.)
- The AdriaArray initiative – Meier & Faccenna (40 min. including discussion)

11:15 Seismic monitoring, Seismicity and Seismic Hazard – International initiatives

Conv: Tilmann, Bondar, Cauzzi, Evangelidis

- Regional Seismic Hazard – Salic & Danciu (30 min. including discussion)
- Data quality of temporary experiments: lessons learned in AlpArray & SWATH-D, and the way forward – Heit et al. (20 min. including discussion)
- PACASE – Plomerova et al. (20 min. including discussion)

12:30-13:30 Break

13:30 Regional observatories – Challenges of permanent and temporary seismic networks; planned contributions to AdriaArray

Conv: Tilmann, Bondar, Cauzzi, Evangelidis

All presentations: 15 min. + 5 min. discussion

- Romania – Ionescu et al.
- Greece – Evangelidis et al.
- Hungary – Bondar et al.
- Albania – Duni et al.
- Croatia – Stipcevic et al.

15:30-16:30 Break

16:30 EPOS Seismology Services Overview / Demo

Conv: Cauzzi

- Focus on Hazard Services (EFEHR) – Danciu & Reyes

Wednesday 4 November

10:30 Regional observatories – Challenges of permanent and temporary seismic networks; planned contributions to AdriaArray

Conv: Tilmann, Bondar, Cauzzi, Evangelidis

All presentations: 15 min. + 5 min. discussion

- Slovenia - Carman et al.
- Montenegro - Mihaljevic et al.
- Serbia - Valčić et al.
- Bulgaria - Solakov et al.
- AdriaArray SeisNet - Kolinsky et al.

12:30-13:30 Break

13:30 EPOS Seismology Services Overview / Demo

Conv: Cauzzi

- Focus on ORFEUS-EIDA Services – Evangelidis, Sleeman & Bienkowski

14:30-15:30 Break

15:30-17:30 Passive Seismic Imaging

Conv: Meier, Rondenay

All presentations: 15 min. + 10 min. discussion

- A review of the deep structure from seismic tomography below and around the Adria plate – Piromallo et al.
- Lithosphere structure of Central Mediterranean from ambient noise tomography – Cammarano et al.
- AdriaArray: Challenges and opportunities for seismic imaging of the Adria plate - Chevrot, et al.
- High-resolution imaging of subduction zones with scattered seismic waves: practical data/method considerations and interpretation in terms of subsurface processes – Rondenay et al.
- Papazachos ?,

Thursday 5 November

10:30-12:30 Tectonics

Conv: Faccenna, Matenco

All presentations: 15 min. + 10 min. discussion

- The Neotethys suture in the southern Balkan peninsula and implications for the tectonic evolution from Adria-Europe collision to Aegean extension - Pleuger et al.
- Towards understanding and improving the knowledge of the deep structure and the interplay between Dinarides - Pannonian - Carpathians subduction and kinematics - Matenco et al.
- Miocene to recent tectonic evolution of the Alpine-Dinaridic-Pannonian Junction - Fodor & Vrabec
- Fingerprints of the Adria slab dynamics in the Dinarides - Tomasevic et al.

12:30-13:30 Break

13:30-15:30 Geodesy and Gravity

Conv: Serpelloni, Kopp, Rossi

All presentations: 15 min. + 10 min. discussion

- Serpelloni et al.
- Active crustal deformation and rotations in the southwestern Balkans from continuous GPS measurements - D'Agostino et al.
- Density modeling of the Adria plate and surrounding orogens, constrained by seismic tomography from crust to sublithospheric mantle - Breitenberg et al.
- The GeoSEA Array: unraveling seafloor deformation using deep-sea geodesy - Kopp et al.

- Strain accumulation over a range of timescales and large-magnitude earthquakes within the southern Hellenic Subduction System - Mouslopoulou et al.

15:30-16:30 Break

16:30-18:30 Geodynamic modelling

Conv: Kaus, Cizkova, Le Breton

All presentations: 15 min. + 10 min. discussion

- 3D thermomechanical modelling of plate interactions in the Mediterranean - Kaus et al.
- Modelling of slab deformation and application to seismicity - Čížková et al.
- Seismo-thermo-mechanical modelling of plate boundaries - van Dinther et al.
- Király et al.
- Integrated thermochemical imaging of the lithosphere using surface waves and other terrestrial and satellite data sets - Fulla et al.

Friday 6 November

9:30-11:30 Breakout sessions

- **Seismicity, seismic monitoring, seismic hazard**
(Conveners: Tilmann; Bondar; Evangelidis, Cauzzi)
- **Passive seismic imaging**
(Conv: Rondenay, Meier)
- **Tectonics**
(Conv: Faccenna, Matenco)
- **Geodesy and gravity**
(Conv: Serpelloni, Kopp, Rossi)
- **Geodynamic modelling**
(Conv: Kaus, Čížková, Le Breton)

11:30-13:30 Break

13:30 Final plenary session: discussion, conclusions, next steps.

Conv: Cauzzi, Meier, ...

- Reports from breakout sessions, final discussion, planning next steps.

EUROPEAN PLATE OBSERVING SYSTEM www.epos-eu.org | info@epos-eric.eu | epos@ingv.it

THE EPOS SP PROJECT HAS RECEIVED FUNDING FROM THE EUROPEAN UNION'S HORIZON 2020 RESEARCH AND INNOVATION PROGRAMME UNDER GRANT AGREEMENT N° 871121

