6th AdriaArray Workshop 2025, San Servolo (Venice), Italy
11 – 14 March 2025

The 6th AdriaArray Workshop that will be held in San Servolo (Venice lagoon), Italy, on 11 – 14 March, 2025, at the San Servolo Conference Center. The workshop is locally organized by the Istituto Nazionale di Geofisica e Vulcanologia. It is organized together with the Bulgarian Geophysical Society, Institute of Geophysics CAS, Prague and University Kiel.

The workshop is sponsored by Istituto Nazionale di Geofisica e Vulcanologia and ORFEUS.

Information on AdriaArray – its scope, aims, and status – can be found under this link:

https://orfeus.readthedocs.io/en/latest/adria_array_main.html

Further information on the workshop is given in the 3rd announcement:

https://github.com/PetrColinSky/AdriaArray/blob/master/SanServolo2025/AdA_Workshop_2025_3.pdf

Program

The program overview and program details are given below. All session take place in the **Auditorium** if not indicated differently.

program version: February 27, 10:00 CET

Tuesday, March 11	program overview
08:30 – 9:00	**Registration**
09:00 - 10:30	**Session 1: Welcome & Adriatic geodynamics: progress and frontiers**
	Coffee break
11:00 - 12:30	**Session 2: Adriatic geodynamics: progress and frontiers – continued**
	Light lunch (served)
14:00 - 15:30	**Session 3: Physical structure and evolution of the lithosphere in the Adriatic region: what we can and cannot resolve with seismic imaging**
	Coffee break
16:00 - 17:00	**Poster advertisement**
17:00 – 18:00	**Poster session 1** (Sala E Palazzina Grecale)
18:00 – 19:00	**Poster session 2** (Sala E Palazzina Grecale)

Wednesday, March 12		
09:00 - 10:30	**Session 4: Physical structure and evolution of the lithosphere in the Adriatic region: what we can and cannot resolve with seismic imaging – continued**	
	Coffee break	
11:00 - 12:30	**Session 5: Physical structure and evolution of the lithosphere in the Adriatic region: what we can and cannot resolve with seismic imaging – continued and Seismicity and seismic sources in the AdriaArray region**	
	Light lunch (served)	
14:00 - 15:30	**Break-out session 1: Seismicity and seismic sources** (Auditorium)	**Break-out session 2: Slabs in the Adriatic region: what do we know?** (Room 6)
	Coffee break	
16:00 - 17:30	**Break-out session 3: The western margin of the Adriatic Plate: concepts and experiments**	
17:30 – 19:00	**Break-out session 4: The eastern margin of the Adriatic Plate: concepts and experiments**	

Thursday, March 13		
09:00 - 10:15	**Session 6: Seismicity and seismic sources in the AdriaArray region – continued**	
	Coffee break	
11:00 - 12:30	**Break-out session 5: AdriaArray: Data access and data quality**	
	Light lunch (served)	
14:00 - 15:30	**Break-out session 6: Receiver functions**	
	Coffee break	
16:00 - 17:30	**Break-out session 7: Ambient noise and surface wave tomography**	
18:00 – 19:00	**AdriaArray Steering Committee Meeting** (Auditorium)	**Early Career Scientist Networking Evening** (Room 6)

Friday, March 14	
09:00 - 11:00	**Concluding plenary discussion**

Detailed Program

Session 1 'Adriatic geodynamics: progress and frontiers'

Tuesday 9:00 – 10:30 (Auditorium)

9:00 – 9:10	**Piromallo, C.**	Welcome
9:10 – 9:30	**Meier, T.,** Kolínský, P.	AdriaArray: Status and Challenges
9:30 – 9:50	**Chiarabba, C.**	Continental deformation and seismicity in the Adriatic region
9:50 – 10:10	**Faccenna, C.**	Adria's motion: Causes and consequences
10:10 – 10:30	**Papazachos, C.** (online)	The Santorini 2024-2025 volcanotectonic unrest: Lessons from the past and constraints from seismic, GNSS and InSAR information

Session 2 'Adriatic geodynamics: progress and frontiers'

Tuesday 11:00 – 12:30 (Auditorium)

11:00 – 11:15	**Cammarano, F.**	Petrological and thermal constraints for interpreting seismic data
11:15 – 11:30	**Lebedev, S.**	Seismic thermography: quantifying the physical structure of the lithosphere and its controls on seismicity and natural resources
11:30 – 11:45	**Ganas, A.** (online)	Deformation rates and crustal block modeling in western Greece from GNSS data
11:45 – 12:00	**Fodor, L.**	Migration of extensional deformation, basin subsidence, magmatism in the Pannonian Basin: constraints from observations and numerical models
12:00 – 12:15	**Mazur, S.**	Crustal Structure and Tectonic Models of the Western Carpathians from Deep Seismics and Potential Fields
12:15 – 12:30	**Nagel, T.,** Mulashev, I.	Massive crustal relamination in the Rhodope metamorphic province

Session 3 'Physical structure and evolution of the lithosphere in the Adriatic region: what we can and cannot resolve with seismic imaging'

Tuesday 14:00 – 15:30 (Auditorium)

14:00 – 14:15	Carminati, E., **Chiarabba, C.**, Giacomuzzi, G., Maresca, A., Tavani, S.	Diachronous subduction-to-delamination transition in the Apennines
14:15 – 14:30	**Monna S.**, Montuori C., Bonatto L., Piromallo C.	Study cases in the AdriaArray region based on P and S receiver function non-automated analysis
14:30 – 14:45	**Mohammadi, N.**	Crustal and upper mantle structure of the Alps and Apennines by Teleseismic full waveform inversion
14:45 – 15:00	**Kalmár, D.**	Mantle Transition Zone Structure in the Alpine-Carpathian-Dinarides: Evidence from P-to-S Receiver Function Analysis
15:00 – 15:15	**Kolínský, P.**	Surface wave diffraction as seen by the AdA records
15:15 – 15:30	**Delage, K.**	Extraction of coherent wavefronts from seismic ambient noise by using Matched-Filtering

Session 4 'Physical structure and evolution of the lithosphere in the Adriatic region: what we can and cannot resolve with seismic imaging'

Wednesday 9:00 – 10:30 (Auditorium)

9:00 – 9:15	**Crosetto, S.**	On-shore tectonics of the Kefalonia Transform Fault Zone
9:15 – 9:30	**Loreto, F.,** Ferrante, V., Nomikou, P., Ganas, A., Lampridou, D., Merino, I., Palmiotto, C., Petracchini, L., Ligi, M., Ranero, C.	Exploring of the Cephalonia Fault Zone and related geohazard elements shaping the Ionian Islands (Western Greece)
9:30 – 9:45	**Ranero, C.**	Current tectonics in the Ionian region
9:45 – 10:00	**Evangelidis, C.** (online)	SKS and source side anisotropy measurements in Greece
10:00 – 10:15	**Yuan, X.,** Schurr, B., Tilmann, F., Heit, B., Dushi, E., Rama, B., Rietbrock, A., Frietsch, M., Agurto-Detzel, H., Kufner, S.-K., Terhünte, S.	Preliminary receiver function analysis of the ANTICS Large-N experiment in Albania
10:15 – 10:30	**Stipčević, J.,** Belinić Topić, T., Rondenay, S.	Imaging lithospheric structure under the Dinarides using AdriaArray data

Session 5 'Physical structure and evolution of the lithosphere in the Adriatic region: what we can and cannot resolve with seismic imaging' and 'Seismicity and seismic sources in the AdriaArray region'

Wednesday 11:00 – 12:30 (Auditorium)

11:10 – 11:15	**Gkogkas, K.**	Seismic Imaging Results at the PACASE portion of the AdriaArray project
11:15 – 11:30	**Soni, T.**	tba
11:30 – 11:45	**Plomerová,** J., Zlebcikova, H., Kvapil, J., Vecsey, L.	Effect of inversion volume size on body-wave tomography images - an example from the E. Alps
11:45 – 12:00	**Rietbrock, A.**	First results of the ANTICS large-N deployment in Albania
12:00 – 12:15	**Tomanović, M.**	Seismic zones and seismicity since 2018-2024 for the territory of Montenegro and surroundings
12:15 – 12:30	**Cambaz, D.**	tba

Session 6 'Seismicity and seismic sources in the AdriaArray region'

Thursday 9:00 – 10:15 (Auditorium)

9:00 – 9:15	**Fonteijn, M.**	Deciphering tectonic driving mechanisms of seismicity in the central Apennines
9:15 – 9:30	**Ktenidou, O.**	tba
9:30 – 9:45	**Papadopoulou, E.**	Environmental Impacts of Seismic Activity in the Ionian Sea: Application of Remote Sensing Techniques and the Environmental Seismic Intensity (ESI) 2007 Scale
9:45 – 10:00	**Rossi, G.**	Fault valve evidences in Northern Adria
10:00 – 10:15	**Xhahysa, A.,** Kuka, N. (online)	Updated Seismic Hazard Map of Albania, NSHMA24

Posters (Sala E Palazzina Grecale)

Abdi, F.	Automatic Focal Mechanism Computation for Small-Magnitude Earthquakes in NE Italy
Amashukeli, T.	Upgrading the Seismic Network in Ukraine's Carpathian Region
Baccheschi, P.	Imaging the deep structure of Italy through SKS anisotropy tomograph
Bernauer, F.	KAROS: A proposal for an amphibian multi component seismic experiment accross the Kefalonia Transform Fault
Bonatto, L., Monna S., Montuori C., Piromallo C.	Probing Mantle Heterogeneity Beneath the Central Mediterranean with P Receiver Functions
Borleanu, F.	Analysis of the 2023, ML 5.7 Southern Carpathians Earthquake Sequence
Cvijić Amulić, S., Popović Krejić, L.	tba
Csatlós, M.	Calibrating the Local Magnitude Scale for Hungary Using Permanent and Temporary Stations
Czecze, B.	Revised Seismicity Catalog of the Pannonian Basin Using Multiple-Event Relocation Algorithms: Local and Regional Scale Studies
Dimitrova, L.	The first year of operation of AdA stations in Bulgaria
Di Stefano, R., **Maria Grazia, C.**	The sP depth phases detection applied to the 2003 Jabuka seismic sequence
Eckel, F.	Surface Wave Tomography of Southern Italy
El-Sayed, H.	tba
El-Sharkawy, A.	Seismic anisotropy beneath the Alpine-Dinarides region: insights from surface waves and shear wave splitting measurements
Kampfová Exnerová, H., Plomerová, J., AdriaArray Seismology Group	Moho depth form Ps receiver functions in the northern promontory of the AdriaArray
Farfuliak, L.	Installation Site of Trillium Slim Posthole: First Practice of the Installation of a Trillium Slim Posthole Seismometer in Ukraine (Liubeshka LUBU Station)
Fojtíková, L.	Seismic Activity in Eastern Slovakia
Fragkouli, K.	tba
Rossetti, F.	Deformation styles and exhumation patterns in the Albanides-Hellenides orogenic belt
Genjac-Zukić, M., Krehić, A.	AdriaArray data in Bosnia and Herzegovina
Georgieva, G.	First receiver functions for AdA stations in Bulgaria
Hamed, A.	Investigating Wind Storm Dynamics Through European Broadband Seismic Station Records
Horn, N.	Contribution of GeoSphere Austria to AdriaArray
Kaviris, G.	tba
Korniyenko, Y.	tba
Lukešová, R., Fojtíková, L., Borleanu, F.	AdriaArray local experiment in the Vrancea Seismic Zone
Molinari, I.	tba
Montuori, C., Monna, S.	Lithospheric structure and mantle wedge below the Tyrrhenian and Ionian basins (Central Mediterranean) from P and S receiver functions
Mustafa, S.	tba
Nagel, T.	Massive relamination in the Rhodopes

Najdovska, J., Drogreshka, K.**,** Chernih, D.	A Study of Seismicity and the Most Powerful Earthquakes in the Epicentral area Skopje
Papageorgiou, A.	tba
Pesaresi, D.	OGS contribution to AdriaArray: state of the art
Petrescu, L.	Surface waves and SKS anisotropy: Probing subsurface structures and deformation between Adria and Eurasia
Pondrelli, S.	tba
Prada, M.	ODISSEY: Peloponnese and Ionian Island continental margin seismic study
Rama, B., Dushi, E., Dyrmishi, M., Gjata, A.	Stress analysis in the Albanian region using Moment Tensors and the contribution of AdriaArray stations to the solutions
Rewers, J., Środa, P.	Investigating upper mantle anisotropy beneath the Western Carpathians and Sudetes using shear-wave splitting analysis
Roisenberg, H.	Vp/Vs ratio and crustal thickness of the greater alpine crust using h-k stacking
Schurr, B.	The 2019 Durres earthquake aftershock sequence
Środa, P.	tba
Stefanelli, I.	Crustal and uppermost mantle structure of Dinarides from Local earthquake tomography: preliminary results from Adria-Array data
Stipčević, J.	Joint Norwegian and Croatian deployment of seismic stations within AdriaArray - the CRONOS network
Tamtas, D.	A Closer Look at Montenegro's Seismicity Through the March 2024 Earthquake
Tilmann, F.	Planned developments for submarine monitoring in the Ionian Sea
Vičič, B., Rajh, G.	Patterns in 20 years of relocated seismicity in Slovenia
Vuorinen, T.	Applying template matching to Vrancea area seismicity using AdriaArray data

Break-out sessions

	Title	**Conveners**	**Presentations by**
1	Seismicity and seismic sources	Borleanu, F., Dushi, E., Rama, B., Rietbrock, A., Tilmann, F.	tba
2	Slabs in the Adriatic region: what do we know?	El-Sharkawy, A., Meier, T., Piromallo, C.	Meier, T., El-Sharkawy, A.
3	The western margin of the Adriatic Plate: concepts and experiments	Fonteijn, M., Heit, B.	Faccenna, C., Pondrelli, S., Chiarabba, C.
4	The eastern margin of the Adriatic Plate: concepts and experiments	Crosetto, S., Ranero, C.	Crosetto, S., Prada, M., Loreto, F., Bernauer, F., Rietbrock, A., Tilmann, F.
5	AdriaArray: Data access and data quality	Eckel, F., Kolínský, P.	tba
6	Receiver functions	Georgieva, G., Kalmár, D., Rondenay, S., Stipčević, J., Yuan, X.	tba
7	Ambient noise and surface wave tomography	Molinari, I., Petrescu, L.	Menichelli, I.

Early Career Scientist Networking Evening (converners: Eckel, F., Roisenberg, H., Soni, T., Room 6)