



Orfeus



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 sessions take place in the **Auditorium** if not indicated differently.

program version: March 5, 20:30 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 A (Sala E Palazzina Grecale)
18:00 – 19:00	Poster session B (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	
	Coffee and greetings	

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
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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. , Schiffer, C., Mazur, S.	Receiver Function results from the passive seismic experiment in the Western Carpathians-inference for the tectonic contact between North Europe and ALCAPA
11:30 – 11:45	Plomerová, J. , Žlebčíková, 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.	The seismic activity at the southeastern edge of the AdriaArray region, as observed through the

		recent deployments within the KOERI seismic network
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Session 6 'Seismicity and seismic sources in the AdriaArray region'

Thursday 9:00 – 10:15 (Auditorium)

9:00 – 9:15	Fontejn, 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)

A 1	Abdi, F.	Automatic Focal Mechanism Computation for Small-Magnitude Earthquakes in NE Italy
A 2	Amashukeli, T.	Upgrading the Seismic Network in Ukraine's Carpathian Region
A 3	Baccheschi, P.	Imaging the deep structure of Italy through SKS anisotropy tomograph
A 4	Bernauer, F.	KAROS: A proposal for an amphibian multi component seismic experiment accross the Kefalonia Transform Fault
A 5	Bonatto, L. , Monna S., Montuori C., Piromallo C.	Probing Mantle Heterogeneity Beneath the Central Mediterranean with P Receiver Functions
A 6	Borleanu, F.	Analysis of the 2023, ML 5.7 Southern Carpathians Earthquake Sequence
A 7	Cvijić Amulić, S. , Popović Krejić, L.	Seismological network and seismicity in Bosnia and Herzegovina - before and during the AdriaArray project
A 8	Csatlós, M.	Calibrating the Local Magnitude Scale for Hungary Using Permanent and Temporary Stations
A 9	Czeczé, B.	Revised Seismicity Catalog of the Pannonian Basin Using Multiple-Event Relocation Algorithms: Local and Regional Scale Studies
A 10	Dimitrova, L.	The first year of operation of AdA stations in Bulgaria
A 11	Di Stefano, R., Maria Grazia, C.	The sP depth phases detection applied to the 2003 Jabuka seismic sequence
A 12	Eckel, F.	Surface Wave Tomography of Southern Italy
A 13	El-Sayed, H.	The Role of Multi-National Seismological Network in South Europe: Advancing Geodynamics Understanding, Multi-Hazard Risk Analysis, and Early Warning Systems
A 14	El-Sharkawy, A.	Seismic anisotropy beneath the Alpine-Dinarides region: insights from surface waves and shear wave splitting measurements
A 15	Kampfová Exnerová, H. , Plomerová, J., AdriaArray Seismology Group	Moho depth from Ps receiver functions in the northern promontory of the AdriaArray
A 16	Farfuliak, L.	Installation Site of Trillium Slim Posthole: First Practice of the Installation of a Trillium Slim Posthole Seismometer in Ukraine (Liubeshka LUBU Station)
A 17	Fojtíková, L.	Seismic Activity in Eastern Slovakia
A 18	Fragkouli, K.	tba
A 19	Rossetti, F.	Deformation styles and exhumation patterns in the Albanides-Hellenides orogenic belt
A 20	Genjac-Zukić, M. , Krehić, A.	AdriaArray data in Bosnia and Herzegovina
A 21	Georgieva, G.	First receiver functions for AdA stations in Bulgaria
A 22	Hamed, A.	Investigating Wind Storm Dynamics Through European Broadband Seismic Station Records
A 23	Horn, N.	Contribution of GeoSphere Austria to AdriaArray
B 24	Kaviris, G.	Seismicity of Euboea – Central Greece since 2018
B 25	Kolínský, P. , Meier, T. and the AdA Seismology Group	AdriaArray Seismic Network - status in March 2025

B 26	Korniienko-Sheremet, Y. , Saintot, A., Seghedi, A., McCann, T. Sosson, M.	A new old approach for a tectonic reconstruction: results of the structural analysis in the North Dobrogea zone of the TTZ
B 27	Lukešová, R. , Fojtíková, L., Borleanu, F.	AdriaArray local experiment in the Vrancea Seismic Zone
B 28	Montuori, C. , Monna, S.	Lithospheric structure and mantle wedge below the Tyrrhenian and Ionian basins (Central Mediterranean) from P and S receiver functions
B 29	Mustafa, S.	tba
B 30	Nagel, T.	Massive relamination in the Rhodopes
B 31	Najdovska, J. , Drogreshka, K., Chernih, D.	A Study of Seismicity and the Most Powerful Earthquakes in the Epicentral area Skopje
B 32	Papageorgiou, A. , Ktenidou O.-J., Liakopoulos S., Fragkouli K., Halaris F., Pikoulis V.-E., Evangelidis C., Kontakos K., Fountoulakis I., Sokos E., Papazachos C., Ventouzi C., Kkallas, Ch., Chatzis, N., Kaviris G., and Kapetanidis V.	A proposition for compiling station and site information for AdriaArray stations
B 33	Pesaresi, D.	OGS contribution to AdriaArray: state of the art
B 34	Petrescu, L.	Surface waves and SKS anisotropy: Probing subsurface structures and deformation between Adria and Eurasia
B 35	Prada, M.	ODISSEY: Peloponnese and Ionian Island continental margin seismic study
B 36	Rama, B. , Dushi, E., Dyrnishi, M., Gjata, A.	Stress analysis in the Albanian region using Moment Tensors and the contribution of AdriaArray stations to the solutions
B 37	Rewers, J. , Środa, P.	Investigating upper mantle anisotropy beneath the Western Carpathians and Sudetes using shear-wave splitting analysis
B 38	Roisenberg, H.	Vp/Vs ratio and crustal thickness of the greater alpine crust using h-k stacking
B 39	Schurr, B.	The 2019 Durres earthquake aftershock sequence
B 40	Środa, P. , Rewers, J.	Receiver function imaging of Moho depth anomalies in the Western Carpathians based on data from PACASE and AdriaArray seismic experiments
B 41	Stefanelli, I.	Crustal and uppermost mantle structure of Dinarides from Local earthquake tomography: preliminary results from Adria-Array data
B 42	Stipčević, J.	Joint Norwegian and Croatian deployment of seismic stations within AdriaArray - the CRONOS network
B 43	Tamtas, D.	A Closer Look at Montenegro's Seismicity Through the March 2024 Earthquake
B 44	Tilman, F.	Planned developments for submarine monitoring in the Ionian Sea
B 45	Vičič, B. , Rajh, G.	Patterns in 20 years of relocated seismicity in Slovenia
B 46	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., Tilman, F.	Dushi, E., Cambaz, D., Borleanu, F., Petrescu, L.
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	Fontejn, M., Heit, B.	Faccenna, C., Pondrelli, S., Chiarabba, C., Menichelli, I., Tilman, F., Heit, B.
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., Tilman, F.
5	AdriaArray: Data access and data quality	Eckel, F., Kolínský, P.	Kolínský, P., Danecek, P., Vecsey, L., Eckel, F.
6	Receiver functions	Georgieva, G., Kalmár, D., Rondenay, S., Stipčević, J., Yuan, X.	Rondenay, S., El-Sharkawy, A.

7	Ambient noise and surface wave tomography	Molinari, I., Petrescu, L.	Delage, K., Lebedev, S., Menichelli, I., Borleanu, F., Bokelmann, G., Petrescu, L., El-Sharkawy, A., Eckel, F.
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Early Career Scientist Networking Evening (converners: Eckel, F., Roisenberg, H., Soni, T., Room 6)