



# AdriaArray Workshop Sofia 2024

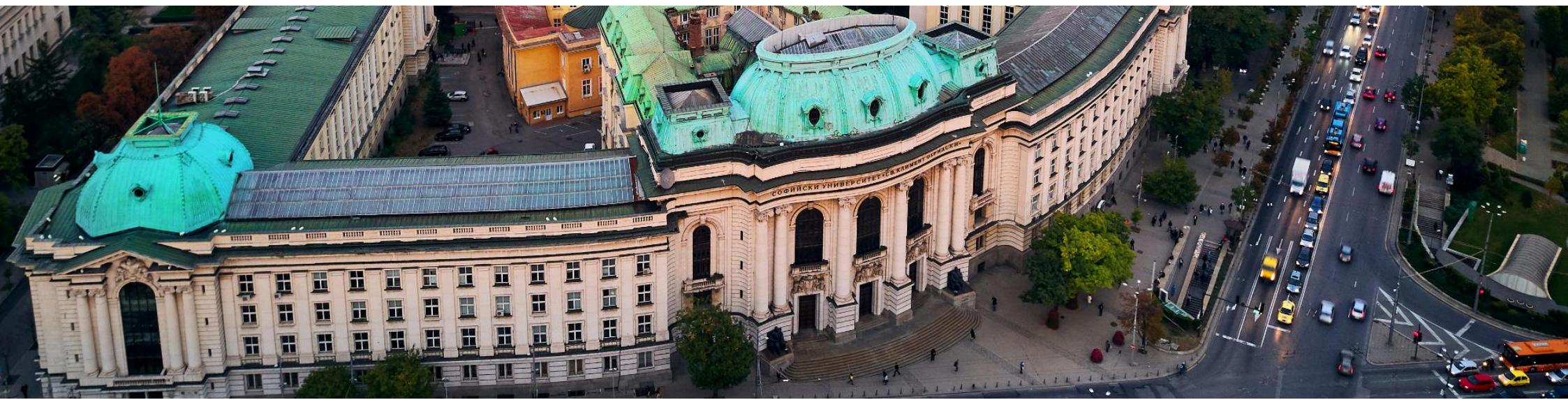
venue: main building (Rectorat) of the Sofia University “St. Kliment Ohridski”,  
Tzar Osvoboditel Blvd. 15, Sofia, Bulgaria, March 12-15, 2024

The workshop is locally organized by  
the Department of Meteorology and Geophysics, Faculty of Physics, Sofia University,  
by  
the National Institute of Geophysics, Geodesy and Geography, Bulgarian Academy of Sciences  
and by  
the Bulgarian Geophysical Society

Organizing committee:

Gergana Georgieva, Lili Dimitrova, Lyuba Dimova, Petr Kolínský & Thomas Meier

program version: March 11, 09:30 CET



AdriaArray webpage

[https://orfeus.readthedocs.io/en/latest/adria\\_array\\_main.html](https://orfeus.readthedocs.io/en/latest/adria_array_main.html)



The workshop is supported by:

# Orfeus

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ISTITUTO NAZIONALE DI GEOFISICA E VULCANOLOGIA

SOFIA UNIVERSITY  
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INSTITUTE OF GEOPHYSICS  
OF THE CZECH ACADEMY OF SCIENCES



**imgw**  
Institut für Meteorologie  
und Geophysik



**ETH** zürich

## Poster presentations:

Poster Specifications: Maximum size: 100 cm x 90 cm (portrait orientation)

Lightning Talk: In addition to the poster presentation, each participant will have the opportunity to deliver a 1-minute lightning talk to accompany his/her poster. This brief presentation (1 slide) will allow you to provide a concise overview of your research, findings, and key points to fellow participants and attendees.

Poster Printing: Please note that there will be no printing facilities provided by the organizers at the venue.

Submission Deadline: We kindly request all participants to submit their 1-min lightning talk files **before 10 March 2024**. This will allow us sufficient time to organize the poster session and ensure a seamless experience for all attendees. Send your files in .ppt or .pptx to [lyuba\\_dimova@phys.uni-sofia.bg](mailto:lyuba_dimova@phys.uni-sofia.bg).

## Transport information and useful tips:

From Sofia Airport to City Center. Sofia Airport is the largest airport in Bulgaria and is only 20 minutes away by metro from the city center. Sofia Airport has two terminals – T1 and T2. Sofia Airport provides direct free-of-charge transportation between the two terminal buildings. The vehicles are marked as SHUTTLE BUSES and operate 24/7 as follows: On Terminal 1 – Terminal 2 – Terminal 1 route: from 08:00 a.m. to 08:00 p.m. the bus runs at every 30 min. From 08:00 p.m. to 08:00 a.m. on the route Terminal 1 – Terminal 2 – Terminal 1: at every 40 min. **SOFIA AIRPORT METRO STATION** is located in the eastern part of **Terminal 2**. You can reach it by following *the blue markings* on the floor of the public area of Terminal 2. M4 Line of Sofia Metro connects Sofia Airport with the city center – at Sofia University Metro Station and at Serdika Metro Station. The trip takes about 30 minutes. By changing lines at Serdika Metro Station you can go to **Sofia Central Bus Station** and **Sofia Central Railway Station**. There are travel cards vending machines at Sofia Airport Metro Station. You can use Bulgarian banknotes or coins or a credit card to purchase a travel card. The best option is to use your credit card as a travel card. It costs 1.60 BGN. The single-trip travel card for the metro has to be **validated at the validators at the entrance to the metro stations**. Each travel card can be used up to 30 minutes after being purchased.

Bus Lines No E84, No E184. **Bus line No E84** runs from Sofia Airport Terminal 2 to Terminal 1 and then to Sofia city center – bus stop Sofia University (bus stop No 1700). **Bus line No E184** runs from Sofia Airport Terminal 1 to Terminal 2 and then to Sofia city center – bus stop Sofia University (bus stop No 1700). It takes around 45 minutes to reach the city center from the airport by both bus lines. The single-trip travel card for the buses, trams and trolleys costs 1.60 BGN and has to be **validated at the validators at the entrance to the metro stations**.

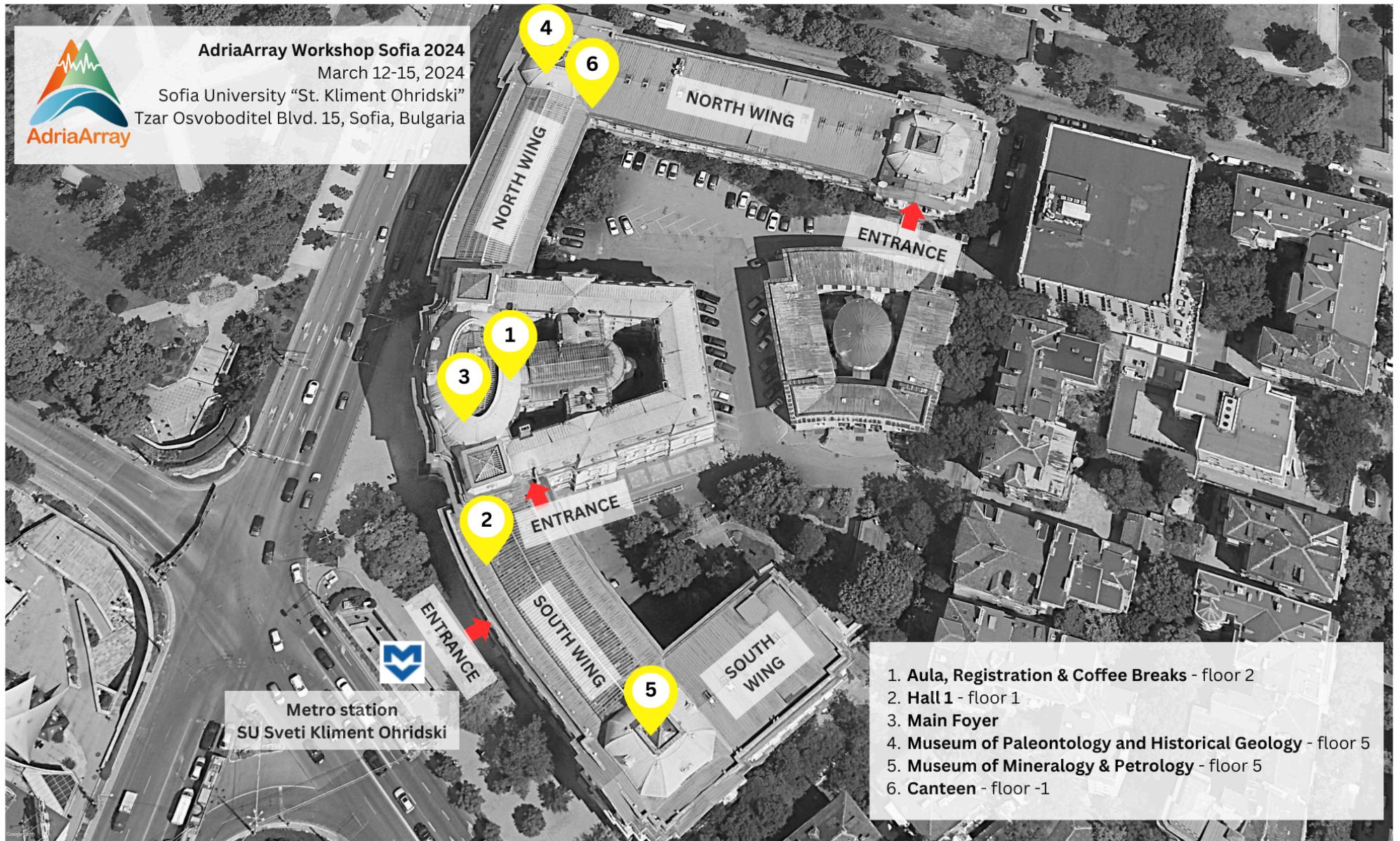
TAXI from the airport to the city center. A taxi ride from Sofia Airport to the city center takes 20 minutes with a fare ranging from 20 to 30 BGN. The official taxi provider for Sofia Airport is “Yellow” taxi. The taxis are situated right next to the western exit of the airport. Be aware of unlicensed taxi drivers. Taxi drivers only accept Bulgarian Levs, so it's a good idea to have the local currency on hand. Keep in mind that not all taxi drivers may speak English fluently, leading to potential communication hurdles.

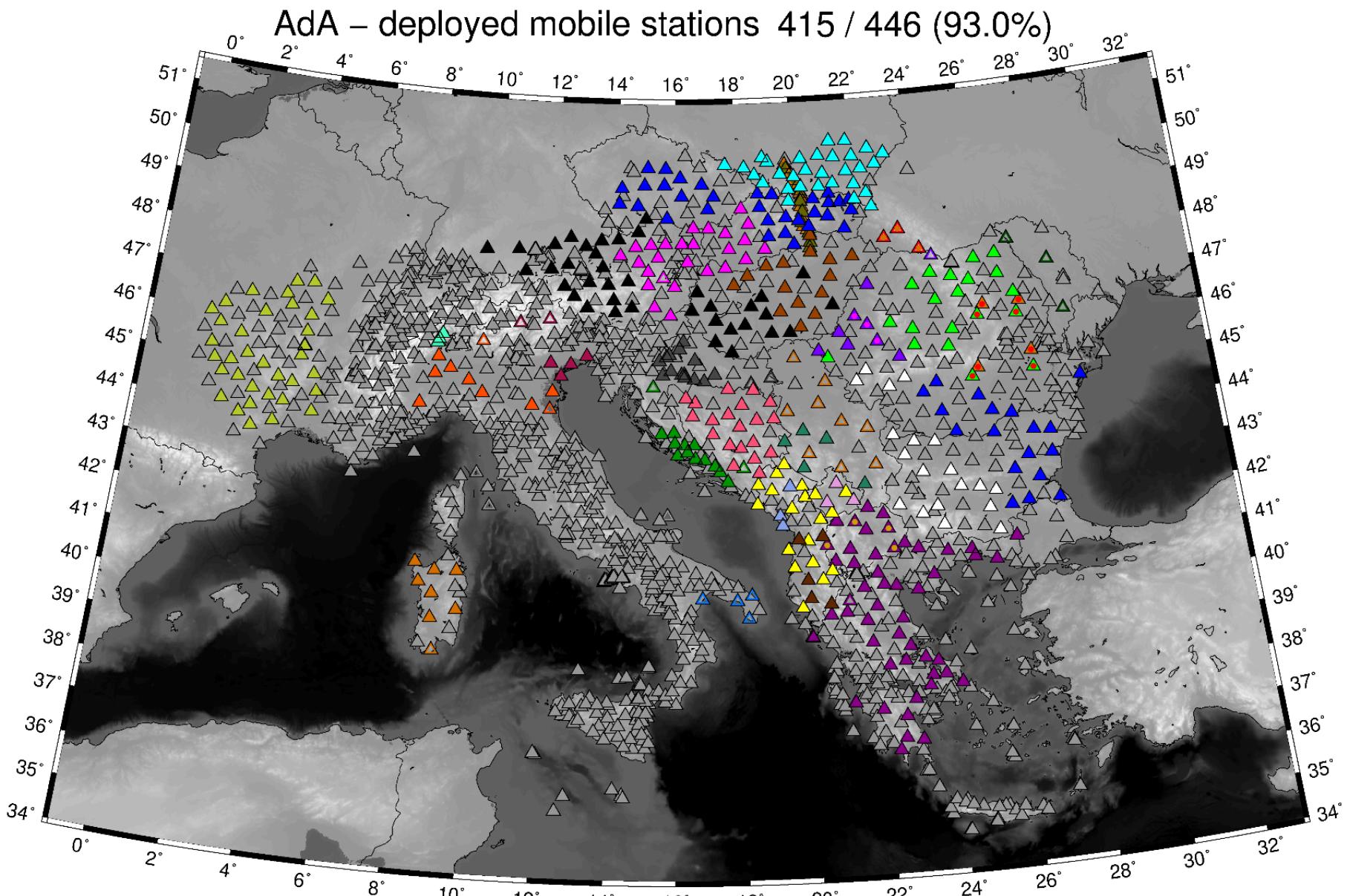
From Sofia Central Bus Station to City Center. Sofia Central Bus Station and Serdika Bus Station are the two Sofia's principal bus gateways. Both are located next to the Central Railway Station making train-to-bus connections easy. Sofia Central Bus Station is located at 100 Maria Louisa Blvd. It can be reached by **Sofia Metro Line 2 (Central Railway Station metro station)**; by trams №: 1,3,6,7 and by buses №: 85,213,305,404,413. Sofia Metro connects Sofia Central Bus Station with the center of the city – Serdika metro Station. The trip takes about 5 minutes. Passengers can change metro lines at Serdika metro station and travel directly to Sofia University or Sofia Airport Terminal 2.

Currency & Exchange rate. Bulgarian currency is called “Bulgarian lev” (plural “Bulgarian leva”). **1.95 BGN = 1 EUR.** If you need some money in CASH it is better to use ATMs rather than “Currency exchange bureau”. We recommend ATMs attached to a bank as they are more secure and will offer a better exchange rate.

Current Local Time. Eastern European Time (EET). Time zone in Sofia (UTC/GMT+2)

FREE WI-FI at Sofia University main building hosting the AdriaArray workshop.





- ▲ Serbian Pool
- ▲ Geoazur + GIPP
- ▲ Uni Jena, Germany
- ▲ GIPP, GFZ, Germany
- ▲ GIPP + IRSM
- ▲ GIPP + Carpathian Project
- ▲ Karlsruhe IT, Germany
- ▲ NIEP Pool, Romania
- ▲ Kosovo Pool
- ▲ Montenegro Pool
- ▲ Croatia Seism. Survey
- ▲ INGV Bologna, Italy
- ▲ ETH Zurich, Switzerland
- ▲ OGS, Italy
- ▲ Resif-Sismob, France
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- ▲ Uni Helsinki, Finland
- ▲ Uni Helsinki + IRSM Prague
- ▲ IG CAS Prague, CZ
- △ permanent BB stations  
full triangles: operating  
empty triangles: planned

<b>Tuesday, March 12</b>	overview of the program by sessions	
09:00 - 10:30	Welcome and introduction	
11:00 - 12:30	Plenary session 1 – Tectonics of the region	
14:00 - 15:30	Plenary session 2 – Local networks and seismicity	
16:00 - 17:00	Plenary session 2 – Local networks and seismicity - continued	
17:00 - 17:40	Poster advertisement	
17:40 - 18:30	Poster session	
18:30 - 19:00	Meeting on Engineering Seismology	Poster session

<b>Wednesday, March 13</b>		
09:00 - 10:30	Plenary session 3: Passive seismic imaging	
11:00 - 12:30	Plenary session 3: Passive seismic imaging - continued	
14:00 - 15:30	Plenary session 4: Data availability and quality	
16:00 - 17:30	Break-out session 1: Ambient noise	Break-out session 2: Body wave tomography
17:30 - 18:30	Meeting of Early Career Scientists	Poster session

<b>Thursday, March 14</b>		
09:00 - 10:30	Plenary session 5: GNSS and geodynamics	
11:00 - 12:30	Break-out session 3: Surface wave tomography	Break-out session 4: Receiver functions
14:00 - 15:30	Break-out session 5: Shear-wave splitting	Break-out session 6: Seismicity and source parameters
16:00 - 17:30	Break-out session 7: Vrancea	Break-out session 8: Linking geophysical observables and geodynamics
17:30 - 18:30	Meeting on Communication and Outreach	Poster session

<b>Friday, March 15</b>		
09:00 - 10:00	Steering Committee meeting	Visit of the Museum of Palaeontology and of the Museum of Mineralogy
10:30 - 12:00	Plenary session 6: Final discussion	

Time	session / talk	detailed program	Room
<b>Tuesday, March 12</b>			
08:30 - 09:00	<b>Registration</b> (pick-up badges and information sheets)		in front of Aula
09:00 - 10:30	<b>Welcome and introduction</b> convener: Gergana Georgieva		Aula
09:00 - 09:30	Welcome addresses:		
	Milena Damyanova, Director of Science Directorate of Ministry of Education and Science		
	Tony Spassov, Vice-Rector of Sofia University		
	Georgi Gadzhev, Vice-Director of the National Institute of Geophysics, Geodesy and Geography, Bulgarian Academy of Sciences		
	Thomas Meier, AdriaArray Seismology Group		
09:30 - 9:50	Petr Kolínský: Status of the AdriaArray Seismic Network		
09:50 - 10:10	Neven Georgiev: The crustal thickness in the Rhodope area from the perspective of the present day structural knowledge		
10:10 - 10:30	Thomas Meier: AdriaArray: research questions and methodological challenges		
10:30 - 11:00	Group photo / coffee break		
11:00 - 12:30	<b>Plenary session 1 – Tectonics of the region</b> convener: Stanislaw Mazur & Thomas Meier		Aula
11:00 - 11:20	Eline Le Breton: Plate reconstructions of the Adriatic Plate		
11:20 - 11:40	Jan Pleuger: The evolution of the Dinaric-Hellenic slab as inferred from surface geology		
11:40 - 12:00	Dimcho Solakov: Seismicity and seismic hazard for Bulgaria		
12:00 - 12:20	László Fodor: How precise determination of earthquake epicenters can help neotectonic study: a case study from Hungary		
12:20 - 12:30	Discussion		
12:30 - 14:00	Lunch break		

<b>14:00 - 15:30</b>	<b>Plenary session 2 – Local networks and seismicity</b> convener: Gesa Petersen & Petr Kolínský	Aula
14:00 - 14:15	Christos Evangelidis: EIDA@AdriaArray: Updates on distributing data from local and temporary networks	
14:15 - 14:30	Liudmyla Farfuliak: Initial Steps of Ukrainian Seismic Network Modernization	
14:30 - 14:45	Bálint Süle: AdriaArray in Hungary: the broadband seismic network and its characteristics	
14:45 - 15:00	Djordje Sušić: Seismological Network of Serbia	
15:00 - 15:15	Merjema Genjac-Zukić: Seismic network in the Federation of BiH	
15:15 - 15:30	Hans Agurto-Detzel: The ANTICS large-N deployment in Albania: lessons from the installation and first results on seismicity	
15:30 - 16:00	Coffee break	
<b>16:00 - 17:00</b>	<b>Plenary session 2 - Local networks and seismicity - continued</b> convener: Gesa Petersen & Petr Kolínský	Aula
16:00 - 16:15	Dragana Chernih: Seismological network in Republic of North Macedonia	
16:15 - 16:30	Liliya Dimitrova: Bulgarian seismic network and AdA initiative	
16:30 - 16:45	Andrea Pio Ferreri: OTRIONS seismic network after ten years of operation: the new seismic catalog	
16:45 - 17:00	George Kaviris: The contribution of the AdriaArray stations to the monitoring of the recent Euboea sequences	
<b>17:00 - 17:40</b>	<b>Poster (slide)show</b> convener: Lyuba Dimova	Aula
17:00 - 17:40	Introducing each poster by 1 slide with 1 minute talk	
<b>17:40 - 18:30</b>	<b>Poster session</b>	Main foyer
<b>18:30 - 19:00</b>	<b>Meeting on Engineering Seismology</b>	Hall 1
	convener: Iva Dasović	<b>Poster session - continued</b>
19:00	End of the program for Tuesday	

<b>Wednesday, March 13</b>		
<b>09:00 - 10:30</b>	<b>Plenary session 3: Passive seismic imaging</b> conveners: Gergana Georgieva & Matthew Agius	Aula
09:00 - 09:15	Irene Menichelli: Implications of Adria continental double-sided subduction on the geodynamics of the central Mediterranean	
09:15 - 09:30	Andreas Rietbrock: AI enhanced LET of the Greater Alpine region	
09:30 - 09:45	Gergana Georgieva: Earth structure beneath Bulgaria from receiver functions	
09:45 - 10:00	Dániel Kalmár: Receiver function analysis in the Pannonian basin and wider region: from the crust to the upper mantle	
10:00 - 10:15	Stanislaw Mazur: Crustal structure and tectonic models of the Western Carpathians, based on deep seismics and potential field data	
10:15 - 10:30	Silvia Pondrelli: Seismic Anisotropy Studies in the AdriaArray region: an Overview	
10:30 - 11:00	Coffee break	
<b>11:00 - 12:30</b>	<b>Plenary session 3: Passive seismic imaging - continued</b> conveners: Gergana Georgieva & Matthew Agius	Aula
11:00 - 11:15	Ayoub Kaviani: Investigation of pattern of mantle flow and deformation beneath different tectonic settings: examples from the Zagros collision zone, Oman (obduction), Namibia (plume-lithosphere interaction), and Kamchatka subduction zone	
11:15 - 11:30	Sébastien Chevrot: Helmholtz tomography of Western Europe	
11:30 - 11:45	Laura Petrescu: A new ambient noise shear wave velocity model of the Eastern European lithosphere	
11:45 - 12:00	Thomas Meier: Crustal and upper mantle 3D Vs structure of the Pannonian Region from joint earthquake and ambient noise Rayleigh wave tomography	
12:00 - 12:15	Henrique Berger Roisenberg: Surface-wave attenuation and phase-velocity maps using the AlpArray seismic network: implications for crustal heterogeneity	
12:15 - 12:30	Felix Borleanu: Seismic attenuation of orogens and sedimentary basins in the Pannonian-Carpathian Region using noise and earthquake data	
12:30 - 14:00	Lunch break	

<b>14:00 - 15:30</b>	<b>Plenary session 4: Data availability and quality</b>	conveners: Felix Eckel, Cristian Neagoe & Petr Kolínský		Aula
14:00 - 14:05	Petr Kolínský: Introduction & ORFEUS User Advisory Group activities			
14:05 - 14:20	Felix Eckel: Data quality checks of AdriaArray			
14:20 - 14:35	Luděk Vecsey: Data & metadata tests			
14:35 - 14:50	Cristian Neagoe: Quality tests made at NIEP			
14:50 - 15:00	Johannes Stampa: Data retrievability tests			
15:00 - 15:10	Petr Kolínský: Summarizing the results of data quality tests			
15:10 - 15:30	Discussion			
15:30 - 16:00	Coffee break			
<b>16:00 - 17:30</b>	<b>Break-out session 1: Ambient noise</b>	Hall 1	<b>Break-out session 2: Body wave tomography</b>	Aula
	conveners: Irene Molinari, Anne Obermann, Laura Petrescu & Richard Kramer		conveners: Claudia Piromallo, Pasquale De Gori & Clement Esteve	
	Open discussion: - Cross-Correlation Database: status and next steps - Ambient Noise Sources - Body Waves from Ambient Noise - groups involved, research products, sharing data and products, collaborations, next meeting and future activities		- Stampa J., Meier T.: A signal analytic approach for picking teleseismic SH- and SV-Waves (poster) - Menichelli I., De Gori P., et al.: Toward a machine learning based workflow for Regional Phase Identification (poster) - Rietbrock A.: Dealing with large data sets with a new AI/ML approach for selecting automatic picks (few slides) - Tilman F. et al.: Employing Machine Learning Pickers for Routine Global Earthquake Monitoring With SeisComP (poster) - Ferreri A.P., Filippucci M., Tallarico A.: Automatic picking by CASP software applied to the detection of Gargano Promontory local events: potential and issues (few slides) - Vecsey L., Plomerová J.: TimePicker 2017 - a fully automated code for picking teleseismic P-wave arrivals using the cross-correlation technique (poster) - Plomerová J., Žlebčíková H.: Controversial images of the E. Alpine lithosphere root in different tomography (poster) - Giacomuzzi G., Chiarabba C.: Non-linear trans-dimensional tomography - possible application to AdriaArray (poster) - Discussion on: travelttime picking for regional, local and teleseismic phases; cooperation on processing a common selected dataset at the scale of the array, using various picking procedures; body waves travelttime tomography; assessing resolution through synthetic tests	
<b>17:30 - 18:30</b>	<b>Meeting of Early Career Scientists</b>	Hall 1	<b>Poster session</b>	Main foyer
	conveners: Richard Kramer, Felix Eckel & Johannes Stampa			
18:30	End of the program for Wednesday			

Thursday, March 14	
09:00 - 10:30	<b>Plenary session 4: GNSS and geodynamics</b> conveners: Marcel Thielmann & Thomas Meier
09:00 - 09:15	Keranka Vassileva: An overview of the studies of the Earth's crust movements on the territory of Bulgaria and the Balkan Peninsula with GNSS
09:15 - 09:30	Lyubka Pashova: GPS/GNSS stations and networks in Bulgaria and their use for geodynamic research
09:30 - 09:45	Marcel Thielmann: The Geophysical Model Generator: a tool to unify and interpret geophysical datasets
09:45 - 10:00	Enrico Serpelloni: Vertical velocities and horizontal strain-rates in the Euro-Mediterranean region
10:00 - 10:15	Ivone Jiménez-Munt: The lithosphere and upper mantle of Adria margins from integrated geophysical-geochemical modeling
10:15 - 10:30	Thorsten Nagel: Searching for the crust in the MTZ
10:30 - 11:00	Coffee break
11:00 - 12:30	<b>Break-out session 3: Surface wave tomography</b> Hall 1
	conveners: Sébastien Chevrot, Laura Petrescu & Thomas Meier
	conveners: Gergana Georgieva & Stéphane Rondenay
	Short presentations: - Sébastien Chevrot: Helmholtz tomography using coherent wavefronts extracted from ambient seismic noise - Thomas Meier: Inversion of surface wave dispersion curves - Discussion on: sharing data products, inversion routines, future activities
	Open discussion: - An overview of current research and future plans of the people working with RFs - RF training - who need it, when and how to organize it - RF approach inter-comparisons - final product in the form of integrated RFs across AdriaArray
12:30 - 14:00	Lunch break
14:00 - 15:30	<b>Break-out session 5: Shear-wave splitting</b> Hall 1
	convener: Silvia Pondrelli
	Introduction to short presentations: 14:05-14:15 L. Petrescu: Shear wave splitting analysis and multi-layer inversions in the AdriaArray region 14:15-14:25 L. Vecsey, J. Plomerová: A new method to measure seismic anisotropy of the upper mantle directly from the width and orientation of the particle motion of shear waves 14:25-14:35 H. Žlebčíková, J. Plomerová: Anitomo - the coupled anisotropic-isotropic body-wave tomography to image upper mantle fabrics 14:35-14:40 G. Kaviris: Upper crust Shear-wave splitting results in Styra (Euboea) Discussion (45 mins) on: 1) methods we think to apply on AdA data 2) what we expect to do with new measurements (comparisons, use them as input for tomography or else) 3) who can do them —> discussion about possible joint research proposals (like for example Marie Curie or ERC Grants) 4) list of other Research Groups that may be interested in our work and vice versa
	General introduction by Gesa Petersen and Efthimios Sokos (5 mins) - 15 mins talks: - Angela Sarao': Focal mechanisms catalog of earthquakes occurring in the southeastern Alps area from 1928 to 2023 - Edmond Dushi: Real time regional moment tensor analysis in Albania - Milen Tsekov: On some statistical properties of Bulgarian seismicity - Discussion (40 mins)

15:30 - 16:00	Coffee break			
16:00 - 17:30	<b>Break-out session 7: Vrancea</b>	Hall 1	<b>Break-out session 8: Linking geophysical observables and geodynamics</b>	Aula
	conveners: Renata Lukešová & Felix Borleanu		conveners: Marcel Thielmann, Thorsten Nagel & Thomas Meier	
	Introduction talks: - Felix Borleanu: NIEP infrastructure for multidisciplinary research. Vrancea insights and challenges - Renata Lukešová: First results from analysis of AdriaArray station within local experiment – Vrancea Open Discussion: - Possible collaborative research projects (eg., Marie Curie, ERC Grants, etc) - Debates and controversies about the Vrancea seismic region. Comparisons to other seismic nest regions - An overview of current research and potential future topics - Wrap up		Short presentations: - Marcel Thielmann: Going from data to interpretation with the GeophysicalModelGenerator - Thorsten Nagel: Rheology of crust and upper mantle - a discussion teaser - Discussion on: available models and data sets, setting up geodynamic input models, future activities	
17:30 - 18:30	<b>Meeting on communication and outreach</b>	Hall 1	<b>Poster session</b>	Main foyer
	conveners: Petr Kolínský & Thomas Meier			
18:30	End of the program for Thursday			

Friday, March 15						
09:00 - 10:00	<b>Meeting of the AdriaArray Steering Committee</b> SC members + ECS representative	Aula	<b>Visit of the Museum of Paleontology and of the Museum of Mineralogy</b>	Main foyer		
10:00 - 10:30	Coffee break					
10:30 - 12:00	<b>Plenary session 6 – discussion</b>	conveners: Thomas Meier & Petr Kolínský		Aula		
10:30 - 11:00	Outcome of Break-out sessions and Working Group meetings (1-slide summary)					
11:00 - 12:00	Discussion of next steps and next meetings					
12:00	End, goodbye					

poster #	Author & title	Poster presentations (in the main foyer, displayed all 4 days)
1.	Amr El-Sharkawy: Anisotropic phase velocity tomography beneath Adria from earthquakes	
2.	Amra Krehić: Seismic network in the Federation of BiH	
3.	Anila Xhahysa: Macroseismic database impact in the seismic hazard of Albania	
4.	Anton Ivanov: Analysis of sea level data at Varna tide gauge	
5.	Bernd Schurr: The 2019 Mw6.4 Durres, Albania earthquake – anatomy of a thrust fault from high-resolution aftershock relocations	
6.	Cristian Neagoe: AdriaArray Status at NIEP - National Institute for Earth Physics	
7.	Damiano Pesaresi: OGS 2Y AdA seismic network installation and data acquisition	
8.	Dmitry Storchak: ISC data products for Adria region	
9.	Dogan Kalafat: Development of Kandilli Observatory and Earthquake Research Institute Seismic Network	
10.	Frederik Tilmann: The ANTICS large-N deployment	
11.	Frederik Tilmann: Employing Machine Learning Pickers for Routine Global Earthquake Monitoring With SeisComP	
12.	Genny Giacomuzzi: Accretion style and deep fluids in continental orogenic evolution	
13.	Genny Giacomuzzi: Non-linear trans-dimensional tomography - possible application to AdriaArray	
14.	Gesa Petersen: Investigating microseismic swarms and clusters in the Eastern Alps	
15.	Hana Kampfová Exnerová: Mapping the Moho in the Bohemian Massif and the Western Carpathians with P-receiver functions	
16.	Irene Menichelli: Toward a machine learning based workflow for Regional Phase Identification	
17.	Irene Molinari: AdriaArray in Italy, installations and data quality	
18.	Iva Dasović: The Berkovići (BiH) $M_L = 6.0$ earthquake sequence of 22 April 2022 – seismological and seismotectonic analyses	
19.	Jaroslava Plomerová & Helena Žlebčíková: Controversial images of the Eastern Alpine lithosphere root in different tomography	
20.	Johannes Stampf: Data retrievability tests	
21.	Johannes Stampf: A signal analytic approach for picking teleseismic SH- and SV-Waves	

22.	Jovan Dedić: Montenegro seismic network and installation of Z6 temporary network in Montenegro
23.	Judith Confal: Splitting intensity: Examples from local and regional anisotropy tomographic images
24.	Lucia Fojtíková: Seismic Activity and the event Oct 9th, 2023, M5.0 in Slovakia in the context of the AdriaArray
25.	Luděk Vecsey & J. Plomerová: A new method to measure seismic anisotropy of the upper mantle directly from the width and orientation of the particle motion of shear waves
26.	Luděk Vecsey & J. Plomerová: TimePicker 2017 - a fully automated code for picking teleseismic P-wave arrivals using the cross-correlation technique
27.	Maria Grazia: Accurate focal depth analysis using sP depth phase in the Adriatic region
28.	Marc Sosson: Structural Lithospheric Heritage in the Geodynamic Evolution of the Black Sea-Caucasus Domain
29.	Marson Dyrmishi: Improvements and achievements in seismic monitoring in Albania: Albanian Seismic Network and AdriaArray contribution
30.	Mila Atanasova-Zlatareva: Study of co-seismic deformations of the Earth's crust for the territory of the Balkan Peninsula based on satellite data (presented by H. Nikolov)
31.	Milan Janjić: Local and AdriaArray network in Republic of Srpska
32.	Natasa Kaludjerović: Tectonic stress regime and IHMS GNSS network of Montenegro
33.	Petya Trifonova: Moho discontinuity, Curie point depths, and temperature distribution inside the Earth crust in Bulgaria
34.	Reneta Raykova: Seismic Network of Sofia University
35.	Reneta Raykova: Tomographic studies in the southeast European region
36.	Richard Kramer: Inferring water resources from ambient seismic noise using regional seismic networks
37.	Stephen Monna: Uppermost Mantle Structure in the Central Mediterranean Region From P and S Receiver Functions
38.	Tahira Nicole: Ambient noise autocorrelations
39.	Tanishka Soni: Unraveling the collisional history of the Western Carpathians through deep geophysical sounding
40.	Todor Zhelyazov: Simulation of the dynamic response of base-isolated structures
41.	Tommi Vuorinen: Detecting local-to-regional seismicity using template matching with relatively dense seismic networks
42.	Yongki Andita Aiman: Mantle Transition Zone (MTZ) beneath the contiguous US revealed by ambient noise cross-correlations

## The AdriaArray workshop is supported by the following institutions:

BAS - Bulgarian Academy of Sciences (<https://www.bas.bg/?lang=en>)

BGS - Bulgarian Geophysical Society (<https://www.bggs.eu/index.html>)

Department of Meteorology and Geophysics, Sofia University "St. Kliment Ohridski" ([https://mg.phys.uni-sofia.bg/index\\_en.html](https://mg.phys.uni-sofia.bg/index_en.html))

ETH Zurich - Eidgenössische Technische Hochschule Zürich (<https://ethz.ch/en.html>)

Helmholtz-Centre Potsdam - GFZ German Research Centre for Geosciences (<https://www.gfz-potsdam.de/en/>)

ILP - International Lithosphere Program, Task Force 4 Continental lithosphere broadscale investigation (CoLiBri) (<https://wp.unil.ch/orog3ny/research/colibri/>)

Institute of Geophysics of the Czech Academy of Sciences (<https://www.ig.cas.cz/en/>)

IMGW - Institut für Meteorologie und Geophysik, Universität Wien (<https://img.univie.ac.at/en/about-us/>)

INGV - Istituto Nazionale di Geofisica e Vulcanologia (<https://www.ingv.it/en/home>)

Kiel University - Christian-Albrechts-Universität zu Kiel (CAU) <https://www.uni-kiel.de/en/>

NIGGG - National Institute of Geophysics, Geodesy and Geography, BAS (<http://www.niggg.bas.bg/en/>)

ORFEUS - Observatories and Research Facilities for European Seismology (<http://orfeus-eu.org/>)

Sofia University "St. Kliment Ohridski" (<https://uni-sofia.bg/index.php/eng>)