









Prague 2022

16:30 Breakout session (Posters cont.)

17:30 AlpArray Steering committee

Wednesday, 12th of October 2022





08:45	Registration (Name Badges)	
09:15	Opening	Jarka Plomerová & Mark Handy
09:30	Daniel Boateng	The effects of diachronous surface uplift of the European Alps on regional climate and the isotopic composition of precipitation
09:45	Veleda A. P. Muller	Exhumation response to climate and geodynamic forcing in the Southern Patagonian Andes and analogies with the Western Alps
10:00	Eline Le Breton	Subsidence analysis of the Eastern Molasse Basin
10:15	Lucas Eskens	The effect of lithospheric scale processes on foreland basin development: a case study of the Northern Alpine Foreland Basin
10:30	Coffee Break	
11:00	Irene Bianchi	Crust and Uppermost mantle structure at the European-Adriatic and Pannonian junction as seen by receiver functions
11:15	László Fodor	Transition of the Eastern Alps, Carpathians, Pannonian Basin and Dinarides
11:30	Dániel Kalmár	The crustal structure of the Pannonian Basin region from P receiver function analysis
11:45	Eszter Békési	Present-day stress field and geodetic strain rate in the Circum-Pannonian region
12:00	Lunch	
13:15	Magdalena Scheck-Wenderoth	How far does the internal configuration of the crust and upper mantle drive the deformation of the Alps?
13:30	Benedikt Braszus	Towards a high-resolution 3D P- and S-wave crustal velocity model for the Alpine mountain chain using local earthquake data
13:45	Rainer Kind	Moho and sub-Moho in the larger Alpine area from S-to-P conversions
14:00	Poster Session	

Eastern Alps (Chairs: Paul Eizenhöfer and Christoph Glotzbach)

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14:30 Coffee Break

15:00 Breakout (Posters cont.)16:30 Breakout (Posters cont.)

17:30 4DMB Steering Committee

Thursday, 13th of October 2022





Controversies Sessions	Introduction by Mark Handy & Todd Ehlers
Emanuel D. Kästle	Votemaps of the Alpine upper mantle
Thomas Meier	The Alpine slab controversy - interferences from surface wave tomography and receiver functions down to 300 km depth
Claudia Piromallo	Constraints on the Moho and LAB across the Western Alps from P and S receiver function analysis and joint inversion at AlpArray stations
Coffee Break	
Stefan Mroczek	Strengths and limitations of receiver functions in the Alps
Stefan Schmid	How far east can we track the still attached S-dipping European slab? A comparison of available data along a selected series of sections within and east of the Tauern window
Mark Handy	Different views of indenter tectonics in the Alps, a new twist and some implications
Lunch	
Poster Session	
	Controversies Sessions Emanuel D. Kästle Thomas Meier Claudia Piromallo Coffee Break Stefan Mroczek Stefan Schmid Mark Handy Lunch Poster Session

AdriaArray Update (Chairs: Petr Kolínský & Thomas Meier)

Alps-Dinarides-Panonnian Junction (Chairs: Christoph Grützner & Peter McPhee)

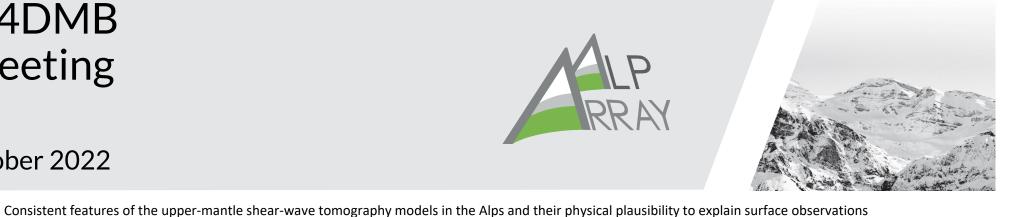
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09:00 Ajay Kumar

10:45 Closing Remarks

Friday, 14th of October 2022

Jarka Plomerová & Mark Handy



09:1	5 Jiri Kvapil	Anisotropy of the Bohemian Massif lower crust from ANT
09:3	0 Dorian Soergel	Bayesian analysis of azimuthal anisotropy in the Alpine lithosphere from beamforming of ambient noise cross-correlations
10:1	5 Coffee Break	
09:4	5 Amr El-Sharkawy	Shallow Asthenospheric Volumes Beneath Cenzoic Volcanic Fields in the Circum-Mediterranean: Evidence From Seismic Tomography And Thermomechanical Modelling
10:0	0 Matteo Scarponi	New absolute-vS constraints on the shallow Ivrea geophysical body in Val Sesia: evidences from seismic ambient noise tomography

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Poster Session





Valentina Argante Application of Electron Spin Resonance thermochronometry on Central and Eastern Alps

Armelle Ballian Miocene stable isotope based paleoelevation for the Alps

Miroslav Bielik Integrated geophysical study of the Carpathian-Pannonian lithosphere

Arthur Borzi Major Neogene shifts in the structural and sedimentary evolution of the Eastern North Alpine Foreland Basin

Sofia Brisson Implicit modeling of the Subalpine Molasse triangle zone and topology analysis

Judith M. Confal Seismic Anisotropy Patterns, Splitting Intensity, and SWS Tomographic Images in the Alps and Apennines Subduction Environments

Kristian Csicsay Tectonic movements under the Vihorlat Mountains based on the earthquake of 24.4.2020

Anke Dannowski Lithospheric structure of the Ligurian Basin

Paul Eizenhöfer Thermo-kinematic and geomorphic evolution of the Eastern European Alps

Sarah Falkowski Surface response to the lithospheric evolution of the Alps from zircon fission-track tracer thermochronometry - Proof of concept and preliminary results

Dominika Godová Integrated geophysical study of the Carpathian-Pannonian lithosphere

Hans-Jürgen Götze 3D density modelling of the lithosphere around the Alps and Ligurian Sea

Christoph Grützner Remote sensing of active tectonics in NE Italy, eastern Southern Alps

Rens Hofman Distribution of Seismicity in the Eastern Alps Using Swath-D

Dániel Kalmár S receiver function analysis in the Pannonian Basin and wider region

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Poster Session





Emanuel D. Kästle Crustal Structure in the eastern Alps from ambient-noise tomography

Thomas Klotz New insights into the internal deformation of the Dolomites Indenter from low-temperature thermochronology, eastern Southern Alps

Petr Kolínský AdriaArray Seismic Network - Status in October 2022

Dietrich Lange 3D Travel Time Tomography of the Ligurian Sea

Francesco Pio Lucente Shear waves velocity model of the crust in the eastern Alps from Receiver Functions Pseudo-Tomography

Giridas Maiti Foreland Basin Evolution: Insights from 3D Numerical modelling

Najmieh Mohammadi 3D Vp, Vs, and density imaging of the crust and upper mantle beneath the Alps by Full Waveform Inversion of the AlpArray teleseismic data

Andrea Piccolo The upper mantle controls on the slab detachment process and its surface expressions

Erick Prince Quaternary seismicity in the Eastern Alps: Dating of earthquakes along the Periadriatic Fault System via trapped charge methods

Julia Rudmann Integrating different geological interpretations in a N-S transect through the western Tauern Window

Christian Schuler Initial results of modelling 3D plate dynamics in the Alpine-Mediterranean area

Martin Šugár Integrated geophysical study of the Carpathian-Pannonian lithosphere

Luděk Vecsey MOBNET stations in Romania and Bulgaria

Iris Wannhoff Peak pressure estimates of Koralpe-Saualpe-Pohorje Complex based on Raman Spectroscopy

Helen Werner Glacial and Erosional Contributions to Late Quaternary Uplift of the European Alps