

Active Tectonics and Geodynamics of Eastern Mediterranean

TS 5.5 co-organized by GD7/NH4/SM2

Displays|Chat May 7th Thursday, 14:00 – 18:00 (CET)

([click for the full programme](#))

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Introduction

This session aims to gather diverse studies on geology, geophysics, and tectonic geodesy in order to increase our knowledge on the active tectonics and geodynamics of the eastern Mediterranean.

The submitted abstracts cover different aspects using various approaches of *active tectonics* and *geodynamics* for extensive parts or smaller sub-regions of the Eastern Mediterranean, from Albania to southern Greece, the Hellenic subduction zone, Anatolia (including its boundary structures, the North and East Anatolian faults), the Turkish-Iranian High Plateau and Caucasus mountains.

First Slot (Briefly): May 7th, 14:00-15:45

- 3D density structure and rheology of the eastern Mediterranean region
- Seismic hazards and crustal dynamics of Anatolia and its structural elements, including velocity field of the whole region, and detailed studies on the aseismic and interseismic motion along its major boundary faults (the North and East Anatolian faults)
- Multi-disciplinary studies on the seismogenic behaviour of the North Anatolian Fault within the Sea of Marmara, Turkey
- Deformation of southern Greece and Aegean Islands
- Tectonic geomorphology of the western part of the Turkish-Iranian High Plateau
- Present day crustal deformation of Caucasus
- Analyses of earthquakes with great social impacts: 26 September 2019 M_w 5.8 Silivri and 26 November 2019 M 6.4 Durrës (Albania) earthquakes

Second Slot (Briefly): May 7th, 16:15-18:00

- More on the seismotectonics, crustal structure and historical earthquakes of the Sea of Marmara Region
- Tectonic geomorphology of northwest Turkey, along the North Anatolian Fault (NAF)
- Palaeoseismology, morphotectonics and structural geology of the transition zone between the Aegean extensional region and the NAF
- Internal deformation of Anatolia
- The characterization of deformation in the Aegean extensional region, using various tools, including seismology and InSAR
- Seismotectonic Atlas of Greece
- Interseismic deformation in the Gulf of Aqaba
- InSAR analysis of the 2019 M_w 5.9 East Azerbaijan earthquake

A topographic map of the Eastern Mediterranean region, showing the Mediterranean Sea, the Middle East, and parts of Europe and Africa. The map uses color gradients to represent elevation, with blues for lowlands and greens/browns for higher elevations. The text is overlaid in the center of the map.

We look forward to seeing you all during the Display Session of “Active Tectonics and Geodynamics of Eastern Mediterranean”!