



CRL School 2020

Corinth Rift Observatory



18-20 September 2020

via Zoom teleconference Platform

Corinth Rift Laboratory School – 2020

via Zoom teleconference Platform

(September 18-20, 2020)

Program

Friday September 18, 2020

(Time in EET, UTC+2)

10:00 – 10:20 Welcome to the CRL School 2020

- Panagiotis Elias, National Observatory, Athens, Greece, Chair of the CRL School
- Fokion Zaimis, Vice Governor for Entrepreneurship, Research and Innovation of the Region of Western Greece
- Nikolaos Voulgaris, Vice Rector of Research and Lifelong Learning of the National and Kapodistrian University of Athens, Greece

10:20 – 10:40 Why CRL?

Ann Deschamps, Université Côte d'Azur, GeoAzur & EduMed, Nice, France

10:40 – 11:00 Tectonics, large earthquakes and the growth of faults in the western rift of Corinth

Athanassios Ganas, National Observatory, Athens, Greece

11:00 – 11:20 The geodetic monitoring of the Corinth Rift Observatory with GPS and SAR interferometry

Pierre Briole, CNRS, Paris, France

11:20 – 11:40 Break

11:40 – 12:00 The Corinth Rift through the use of marine remote sensing techniques

Maria Geraga, University of Patras, Greece

12:00 – 12:20 Age, origin and history of the rocks that can be found along the north coast of the Corinth Rift

Christian Beck, Savoie-Mont-Blanc University, France

12:20 – 13:00 Break

13:00 – 13:20 Seismic Parameters and Microseismicity in the Gulf of Corinth

E. Papadimitriou - V. Karakostas, Aristotle University, Thessaloniki, Greece

13:20 – 13:40 Large Earthquakes and Focal Mechanisms in the Gulf of Corinth

George Kaviris, National & Kapodistrian University, Athens, Greece

- 13:40 – 14:00** **Use of CRL data for detailed seismological studies**
Anna Serpetsidaki, University of Patras, Greece
- 14:00 – 14:20** **Seismological studies in the broader CRL region**
Zafireia Roumelioti, University of Patras, Greece
- 14:20 – 14:40** **Tectonics, structural setting and tectono-sedimentary processes in the
Corinth Rift**
Haralambos Kranis, National & Kapodistrian University, Athens, Greece
- 14:40 – 15:00** **Open Discussion**

Saturday September 19, 2020

(Time in EET, UTC+2)

- 10:00 – 10:20** **Global Positioning System: from the planning of a monitoring network to the data analysis and the interpretation of the relative results**
Antonio Avallone, Istituto Nazionale di Geofisica e Vulcanologia, Rome, Italy
- 10:20 – 10:40** **Ground Deformation Studies in Seismic Active Areas using Local GPS/GNSS networks. The Case of Central Ionian Islands and Patras Gulf**
Vassilios Sakkas, National and Kapodistrian University, Athens, Greece
- 10:40 – 11:00** **Quantification of N. Peloponnese shoreline displacement using very high spatial resolution remote sensing data**
Emmanouel Vasilakis, National and Kapodistrian University, Athens, Greece
- 11:00 – 11:20** **European Space Agency Earth Observation Programme**
Michael Foumelis, BRGM – French Geological Survey, Orleans, France
- 11:20 – 11:40** **Break**
- 11:40 – 12:00** **Geographical Information Systems (GIS) – Introduction to QGIS**
Antonios Mouratidis, Aristotle University, Thessaloniki, Greece
- 12:00 – 12:20** **Introduction to the Differential SAR Interferometry for measuring ground deformation**
Panagiotis Elias, National Observatory, Athens, Greece
- 12:20 – 12:40** **A Geospatial Intelligence Application Based on SAR Interferometry to Support Immediate Post-seismic Infrastructure Inspections: The Cases of Earthquakes in the Balkan Peninsula**
Isaak Parcharidis, Harokopio University, Athens, Greece
- 12:40 – 13:20** **Break**
- 13:20 – 13:40** **Ground acceleration produced by earthquakes and their local amplifications depending on the properties of the underlying soils**
Ioannis Kassaras, National and Kapodistrian University, Athens, Greece
- 13:40 – 14:00** **Physical mechanisms behind seismic site response - Some examples from Aegion**
Olga Ktenidou, National Observatory, Athens, Greece
- 14:00 – 14:20** **Structural morphology and geometric control of the Rio-Antirrio bridge**
Akis Panagis, GEFYRA, Greece
- 14:20 – 15:00** **Open Discussion**

Sunday September 20, 2020

(Time in EET, UTC+2)

- 10:00 – 10:20** **Earthquakes in the classroom: “The SEISMO-BOX: DO IT YOURSELF”**
Francesca Cifelli, Università Roma Tre, Roma Italy
- 10:20 – 10:40** **Tuned in to the Earth : Using data online at school**
Jean-Luc Berenguer, University Côte d’Azur, Valbonne, France
- 10:40 – 11:00** **Diffusion of SEISMOBOX in Hellenic schools**
Fotis Danaskos, 8th Junior - Senior High School in Chalandri
- 11:00 – 11:20** **Incorporating the seismobox into school teaching**
Kiki Makri, National Observatory, Athens, Greece
- 11:20 – 11:40** **Break**
- 11:40 – 12:40** **Hand on simple seismic software packages provided on-line in the CRL portal**
George Kaviris, Ioannis Spingos, National & Kapodistrian University, Athens, Greece
- 12:40 – 13:20** **Break**
- 13:20 – 13:40** **The Geohazards Lab initiative**
Michael Foumelis, BRGM – French Geological Survey, Orleans, France
- 13:40 – 14:00** **Hosted Processing Services on Geohazard Exploitation Platform (GEP)**
Michael Foumelis, BRGM – French Geological Survey, Orleans, France
- 14:00 – 15:00** **Overall discussion – Conclusions**

End of the CRL 2020 School