



**Draft Agenda of the 2<sup>nd</sup> IAG-EGU Intensive Course of the  
RCG2019 ON “COASTAL GEOMORPHOLOGY OF  
CLIMATICALLY AND TECTONICALLY SENSITIVE AREAS”**



DATE	VENUE	ACTIVITY	AGENDA
<b>DAY 1 22/09/2019</b>	Harokopio University Department of Geography	<ul style="list-style-type: none"> <li>Lecture Session</li> </ul>	<ul style="list-style-type: none"> <li>WELCOME ADDRESS (<i>Mauro Soldati, Marta Della Seta, Niki Evelpidou, Efthimios Karymbalis, Vasilis Kappsimalis</i>)</li> <li>INTRODUCING THE YOUNG GEOMORPHOLOGISTS - 10' each participant</li> <li>Growth of the rift-bounding fault and lithospheric flexural uplift in the modern Corinth Rift (<i>David Fernández-Blanco</i>)</li> <li>The uplifted marine terraces of Northern Peloponnese: a significant indicator for the geomorphic evolution of the area (<i>Dimitris Papanastassiou</i>)</li> <li>Metrics and models of coastal landscape evolution, novel tools to measure surface deformation (<i>Julius Jara</i>)</li> <li>Methods for assessing erosion rates on rocky coasts (<i>Stefano Furlani</i>)</li> </ul>
<b>DAY 2 23/09/2019</b>	Harokopio University Department of Geography	<ul style="list-style-type: none"> <li>Laboratory Exercises</li> </ul>	<ul style="list-style-type: none"> <li>Practical introduction to marine terrace mapping and modeling (<i>Julius Jara</i>)</li> <li>Mapping of coastal landforms using geoinformatics (<i>Christos Chalkias</i>)</li> <li>Extraction of the coastline using UAV techniques (<i>Dimitris Vandarakis</i>)</li> <li>Coastline displacement rates trend through GPS and remote sensing techniques (<i>Emmanuel Vassilakis</i>)</li> </ul>

<p><b>DAY 3</b> <b>24/09/2019</b></p>	<p>Fieldtrip to the North Peloponnese (the broader area of Melissi-Kiato-Xylokastro)</p>	<ul style="list-style-type: none"> <li>Fieldtrip to uplifted marine terraces at the broader area of Melissi – Kiato - Xylokastro. DGPS marine terrace mapping, OSL sampling.</li> </ul>	<ul style="list-style-type: none"> <li>Overview of the North Peloponnese uplifted marine terraces (<b>Dimitris Papanastassiou, David Fernández-Blanco, Kalliopi Gaki-Papanastassiou, Hampik Maroukian, Efthimios Karymbalis</b>)</li> <li>DGPS mapping of marine terraces (<b>Giannis Saitis</b>)</li> <li>Perched fan-deltas and reverse drainages along a transect from the coast to Mavro Oros (<b>David Fernández-Blanco</b>)</li> <li>OSL sampling methodology (<b>Eleana Karkani</b>)</li> </ul>
<p><b>DAY 4</b> <b>25/09/2019</b></p>	<p>Perachora Peninsula</p>	<ul style="list-style-type: none"> <li>Fieldtrip to Ireon - Perachora Peninsula (notched coastal cliff profile).</li> </ul>	<ul style="list-style-type: none"> <li>Micro erosion meter stations within notches (<b>Stefano Furlani</b>)</li> <li>Tidal notches: morphotectonic sea level indicator (<b>Niki Evelpidou, Eleana Karkani</b>)</li> </ul>
	<p>Psatha (Alkyonides Gulf)</p>	<ul style="list-style-type: none"> <li>Fieldtrip to Psatha swamp (vibrocore drilling) (groups of participants)</li> </ul>	<ul style="list-style-type: none"> <li>Selection of boreholes location for reconstruction of palaeo-depositional environments (<b>Hampik Maroukian, Konstantinos Tsanakas, Dimitris Papanastassiou, Kalliopi Gaki-Papanastassiou, Niki Evelpidou, Efthimios Karymbalis</b>)</li> <li>Borehole drilling using portable drilling tool set (<b>Konstantinos Tsanakas, Eleana Karkani, Giannis Saitis, Vasilis Batzakis, Efthimios Karymbalis, Niki Evelpidou</b>)</li> </ul>
	<p>Psatha (Alkyonides Gulf)</p>	<ul style="list-style-type: none"> <li>Coastline tracing - collection of photogrammetric data using UAV (groups of participants)</li> </ul>	<ul style="list-style-type: none"> <li>Coastline tracing at Psatha with equipment of RTK-GNSS (<b>Emmanuel Vassilakis</b>)</li> <li>Research flight with UAV-Collection of high resolution photogrammetric data (<b>Dimitris Vandarakis</b>)</li> </ul>
	<p>Psatha (Alkyonides Gulf)</p>	<ul style="list-style-type: none"> <li>Coastal bathymetry and high resolution seismic profiles (groups of participants)</li> </ul>	<ul style="list-style-type: none"> <li>Planning and preparation for the seagoing expedition (<b>Vasilis Kapsimalis, Dimitris Sakellariou, Ioannis Panagiotopoulos</b>)</li> <li>Embarkation on board and installation of scientific equipment (<b>Vasilis Kapsimalis, Dimitris Sakellariou, Ioannis Panagiotopoulos</b>)</li> <li>Departure of the vessel and arrival to the survey area (<b>Vasilis Kapsimalis, Dimitris Sakellariou, Ioannis</b>)</li> </ul>

			<p><b>Panagiotopoulos)</b></p> <ul style="list-style-type: none"> <li>• Measurement of physical parameters of seawater column using a CTD (<b>Vasilis Kapsimalis, Dimitris Sakellariou, Ioannis Panagiotopoulos)</b>)</li> <li>• Collection of surface sediments using a grab sampler (<b>Vasilis Kapsimalis, Dimitris Sakellariou, Ioannis Panagiotopoulos)</b>)</li> <li>• Bathymetric survey using a single-beam echo sounder (<b>Vasilis Kapsimalis, Dimitris Sakellariou, Ioannis Panagiotopoulos)</b>)</li> <li>• Detection of seafloor bedforms using a side scan sonar (<b>Vasilis Kapsimalis, Dimitris Sakellariou, Ioannis Panagiotopoulos)</b>)</li> <li>• High resolution marine seismic reflection profiling using a chirp-sub-bottom profiler (<b>Vasilis Kapsimalis, Dimitris Sakellariou, Ioannis Panagiotopoulos)</b>)</li> </ul>
<p><b>DAY 5</b> <b>26/09/2019</b></p>	<p>Harokopio University Department of Geography Physical Geography Laboratory</p>	<ul style="list-style-type: none"> <li>• Laboratory activities</li> </ul>	<ul style="list-style-type: none"> <li>• Borehole logging - qualitative description of the sedimentary stratigraphy by visual inspection (<b>Konstantinos Tsanakas, Eleana Karkani)</b>)</li> <li>• Granulometric analysis of selected sediment samples (<b>Eleana Karkani, Konstantinos Tsanakas, Vasilis Batzakis)</b>)</li> <li>• Micropalaeontological analysis of selected samples (<b>Hara Drinia, Assimina Antonarakou, Markella Assimina Louvari, Eleana Karkani, Konstantinos Tsanakas)</b>)</li> <li>• Reconstruction of palaeo-depositional environments – Discussion (<b>Hampik Maroukian, Efthimios Karymbalis, Niki Evelpidou, Konstantinos Tsanakas, Eleana Karkani)</b>)</li> </ul>
<p><b>DAY 6</b> <b>27/09/2019</b></p>	<p>Hellenic Center for Marine Research (HCMR)</p>	<ul style="list-style-type: none"> <li>• Laboratory activities</li> </ul>	<ul style="list-style-type: none"> <li>• Creation of bathymetric maps based on single beam and/or swath bathymetry data (<b>Vasilis Kapsimalis, Dimitris Sakellariou, Ioannis Panagiotopoulos)</b>)</li> <li>• Analysis and Interpretation of high-resolution seismic reflection profiles (<b>Vasilis Kapsimalis, Dimitris Sakellariou, Ioannis Panagiotopoulos)</b>)</li> </ul>

			<ul style="list-style-type: none"><li>• <b>SUMMARY OF RESULTS</b></li></ul>
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## Tutors

<b>Prof. Stefano Furlani</b>	Department of Mathematics and Geosciences, University of Trieste
<b>Dr. David Fernández-Blanco</b>	Institut de Physique du Globe de Paris
<b>Dr. Julius Jara-Muñoz</b>	Institute of Geosciences, University of Potsdam
<b>Dr. Dimitris Papanastassiou</b>	Institute of Geodynamics, National Observatory of Athens
<b>Prof. Hampik Maroukian</b>	Department of Geography and Climatology, Faculty of Geology and Geoenvironment, National and Kapodistrian University of Athens
<b>Prof. Kalliopi Gaki-Papanastassiou</b>	Department of Geography and Climatology, Faculty of Geology and Geoenvironment, National and Kapodistrian University of Athens
<b>Prof. Christos Chalkias</b>	Department of Geography, Harokopio University of Athens
<b>Prof. Assimina Antonarakou</b>	Department of Historical Geology and Palaeontology, Faculty of Geology and Geoenvironment, National and Kapodistrian University of Athens
<b>Prof. Hara Drinia</b>	Department of Historical Geology and Palaeontology, Faculty of Geology and Geoenvironment, National and Kapodistrian University of Athens
<b>Prof. Niki Evelpidou</b>	Department of Geography and Climatology, Faculty of Geology and Geoenvironment, National and Kapodistrian University of Athens
<b>Prof. Efthimios Karymbalis</b>	Department of Geography, Harokopio University of Athens
<b>Dr. Vasilis Kapsimalis</b>	Institute of Oceanography, Hellenic Centre for Marine Research
<b>Dr. Dimitris Sakellariou</b>	Institute of Oceanography, Hellenic Centre for Marine Research
<b>Prof. Emmanuel Vassilakis</b>	Department of Geography and Climatology, Faculty of Geology and Geoenvironment, National and Kapodistrian University of Athens
<b>Dr. Eleana Karkani</b>	Department of Geography and Climatology, Faculty of Geology and Geoenvironment, National and Kapodistrian University of Athens
<b>Dr. Konstantinos Tsanakas</b>	Department of Geography, Harokopio University of Athens
<b>Dr. Dimitris Vandarakis</b>	Institute of Oceanography, Hellenic Centre for Marine Research
<b>Dr. Ioannis Panagiotopoulos</b>	Institute of Oceanography, Hellenic Centre for Marine Research
<b>Vasilis Batzakis (PhD candidate)</b>	Department of Geography, Harokopio University of Athens
<b>Markella Assimina Louvari (PhD candidate)</b>	Department of Historical Geology and Palaeontology, Faculty of Geology and Geoenvironment, National and Kapodistrian University of Athens
<b>Giannis Saitis (PhD candidate)</b>	Department of Geography and Climatology, Faculty of Geology and Geoenvironment, National and Kapodistrian University of Athens