

GeoCLIC Summer School – Coastal Dynamics Monitoring (17-21 June, 2024)

Venue: [Universitat Politècnica de Valencia](#), Camino de Vera s/n, 46022 - Valencia

From Monday to Wednesday: [ETSICGT, building 7i](#), 3rd Floor, computer rooms 340 & 339 – Friday: [Red Cube, CPI](#)

Monday 17/06	Tuesday 18/06	Wednesday 19/06	Thursday 20/06	Friday 21/06
<p>9:30 – 10:00: (room 340) Welcome and Introduction to the workshop <i>Prof. Luis A. Ruiz</i></p>	<p>9:00 – 11:00: (room 340) Theory & Practice - Automatic shoreline extraction using SAET. <i>Prof. Jesús Palomar</i></p>	<p>9:00 – 11:00: (room 340) Theory & Practice - Generation of Digital Terrain Models (DTM) from LiDAR point clouds using QGIS. <i>Dr. Jaime Almonacid</i></p>	<p>8:30 – 18:00: Field trip – From Almenara to Cullera: A study visit to different coastal areas of Valencia to analyze their dynamics. Students will have the opportunity to discover and analyze all the areas of the practical and group exercises done during the week. Coordinator: <i>Prof. Josep E. Pardo</i> Meeting point: Entrance Residence Galileo Galilei</p>	<p>Workshop: Coastal Dynamics & Climate Change Location: Red Cube, CPI (UPV campus) 9:15 – 9:30: Registration 9:30 – 10:30: Conference: Coastal erosion under different climate change scenarios <i>Dr. Moisés Álvarez-Cuesta</i> <i>Instituto de Hidráulica Ambiental Universidad de Cantabria</i></p>
<p>10:00 – 11:00: (room 340) Theory - Coastal risks associated to human action and climate change. <i>Prof. Josep E. Pardo</i></p>				<p>11:00 – 11:30 Coffee break</p>
<p>11:30 – 13:30: (room 340) Theory - Data acquisition and characterization of coastal dynamics with geomatics. <i>Prof. Josep E. Pardo</i></p>	<p>11:30 – 13:30: (room 340) Theory & Practice - Analysis of changes in beaches based on shorelines acquired in different dates. <i>Prof. Jesús Palomar</i></p>	<p>11:30 – 13:30: (room 340) Theory & Practice - Analysis of changes in coastal dunes from successive DTMs previously obtained, using QGIS. <i>Dr. Jaime Almonacid</i></p>		<p>11:00 – 12:00: Round table: 4 experts will debate and answer questions about topics related to Climate change and coastal areas 12:00 – 13:00: Students presentations 13:00 – 13:15: Closure</p>
<p>13:30 – 15:00 Lunch</p>	<p>13:30 – 15:00 Lunch</p>	<p>13:30 – 15:00 Lunch</p>	<p>13:30 – 15:00 Lunch</p>	<p>13:30 – 15:00 Lunch</p>
<p>15:00 – 17:30: (room 340) SAET - Open tool for automatic extraction of shorelines. <i>Prof. Jesús Palomar</i></p>	<p>15:00 – 17:30: (room 338) Group exercise - Study of shoreline evolution (1) after a coastal storm; and (2) after artificial interventions on the coast.</p>	<p>15:00 – 17:30: (room 338) Group exercise - 3-dimensional study of dunes in Valencian coastal areas.</p>	<p>Field trip – From Almenara to Cullera</p>	<p>15:00 – 16:30 GeoCLIC management meeting Location: Sala de Juntas ETSICGT, building 7i, 2nd floor</p>
			<p>20:00: Social dinner</p>	

GeoCLIC coordinator/contact: Prof. Luis A. Ruiz (laruiz@cgf.upv.es)

Workshop lecturers & facilitators: Prof. Josep E. Pardo; Prof. Jesús Palomar; Dr. Jaime Almonacid; Dr. Carlos Cabezas; Ausias Roch