

Holistic monitoring of multi-stressor marine environments



We invite you to a summer school organized by [nexus monARC](#) project (Horizon Europe, Grant No. 101079156) and dedicated to monitoring of seawater quality in multi-stressor systems, i.e. marine environments impacted by (a) anthropogenic stressors, such as industrial tourism, shipping, mining, etc. and (b) natural stressors, such as hydrothermal venting and volcanic activity. The summer school comprises of two parts: online lectures and practical training. The lectures will cover aspects of technologies, data handling, and citizen science approaches for monitoring climate related parameters, particles (plastics and inorganic), bio-essential and toxic elements, biodiversity, organic pollutants, and radioactivity. Attendees will gain (i) a deep understanding on monitoring seawater quality, ranging from state-of-the-art techniques to frugal tools for citizen science, (ii) hands on experience in monitoring biodiversity, climate related parameters, and plastics pollution in multi-stressor marine environments.

Who should attend:

We welcome (i) graduate and postgraduate students in marine chemistry, environmental sciences, engineering, geosciences, and related fields (ii) early-career researchers and professionals in related scientific fields and businesses linked to coastal ecosystems (e.g. tourism, shipping), (iii) professionals in non-profit and governmental organizations with activities linked to coastal and marine systems.

Apply here: [link](#) (available spots: 10)

If your application is accepted, you will be assigned a room from October 14 to 17 (three nights) that you will share with a colleague. Breakfast and a lunchbox is also included. You will have to cover all other expenses, including travelling to and from Milos Island and dinner.

Questions can be addressed here: nexusmonarc.eu@gmail.com

Tentative schedule:

Lectures (virtual event)

Tuesday, October 1, 2024

- 17:00 – 17:15 EST Welcome and introductions
- 17:15 – 18:00 EST Climate related parameters
- 18:15 – 19:00 EST Sampling and analysis of particles

Wednesday, October 2, 2024

- 17:15 – 18:00 EST Bio-essential and toxic elements
- 18:15 – 19:00 EST Biodiversity

Thursday, October 3, 2024

- 17:15 – 18:00 EST Organic pollutants
- 18:15 – 19:00 EST Radioactivity
- 19:00 – 19:45 EST Citizen science

Practical training (physical presence, Milos Island, Greece)

Monday, October 14, 2024

- All day Arrival and lodging arrangements
- 18:00 – 20:00 EST Sampling preparations

Tuesday, October 15, 2024

- 09:00 – 15:00 EST Geological tour (incl. lunch break)
- 15:00 – 19:00 EST Field work, 2 groups

Wednesday, October 16, 2024

- 09:00 – 13:00 EST Field work, 2 groups
- 13:00 – 14:00 EST Lunch break and preparations
- 14:00 – 17:00 EST Presentations and wrap up



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