



**OGS**  
National Institute  
of Oceanography  
and Applied  
Geophysics



# 6° Scientific Diving Summer School 21-26 September 2022 Panarea (Aeolian Islands, Italy)

**Organized by**

**National Institute of Oceanography and Applied Geophysics - OGS, Sapienza University (Rome), CO<sub>2</sub>GeoNet and diving center AMPHIBIA**

**In collaboration with**

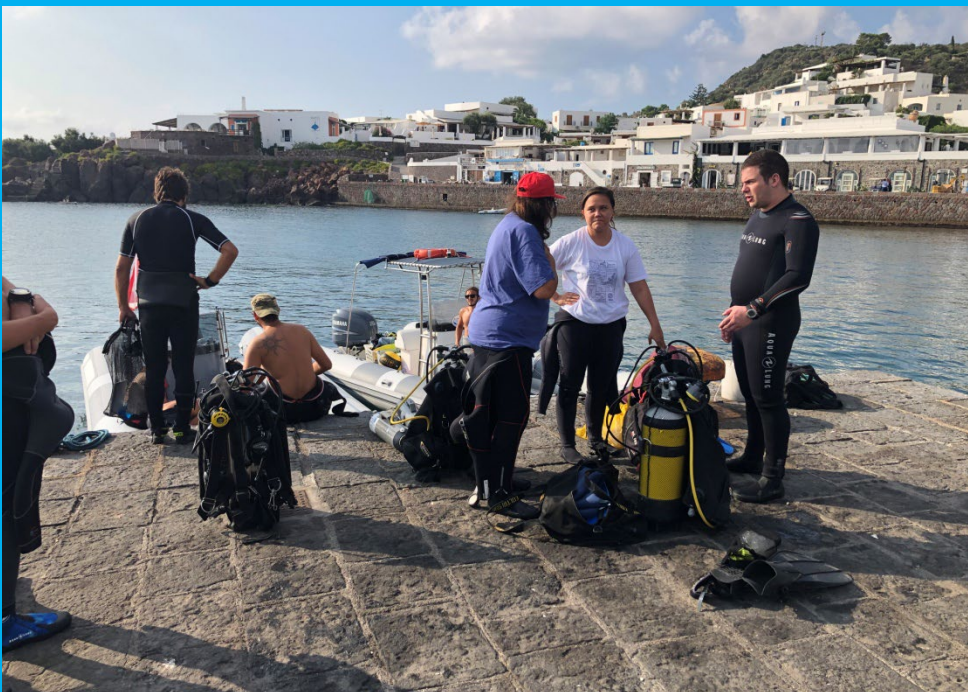
**Zoological Station Anton Dohrn (Naples) and INGV (Palermo)**

**Where:**

**ECCSEL NatLab-Italy (Panarea, Aeolian Island)**

**Endorsement: AIOSS**

**co-funding: Blue Marine Foundation**



## Open Call for Applications

The school is open to students, graduates, specialists, PhD and post-doctoral students in scientific disciplines and professionals engaged in the study and management of the land/sea.

Topics will cover the geological characteristics of the unique active volcanic area of Panarea Island, its biological components adapted to the naturally acidified vents systems, and the hydrothermal fluids characterization.

Participants will be trained in multi-parameter monitoring techniques and definition of experimental protocols for the sampling and study of the benthic communities, with special focus on assessing effects of climate change and ocean acidification on organisms, communities and ecosystem/habitat, in particular on *Posidonia oceanica* meadows.







## Teaching Program

The course consists of 10 multidisciplinary theoretical lessons, 4 practical sessions, and 5 scientific dives.

Lectures concern topics of physical, chemical and biological oceanography, marine ecology and earth sciences, with specific focus on marine geology and volcanology, marine hydrothermal systems, climate change and ocean acidification, experimental design and sampling.

Diving activities include mapping techniques, hydrothermal water and gas sampling, sea water sampling (with Niskin bottles and benthic chamber), sediment sampling, multiparametric probe positioning, gas flow measurements, visual census techniques, benthic composition and cover measurements, shoot density, plant phenology and epiphyte evaluation of the *Posidonia oceanica* meadows.





## Teaching Staff

Cinzia De Vittor (OGS, Trieste), Maria Cristina Gambi (OGS, Trieste), Rocco Auriemma (OGS, Trieste), Valentina Esposito (OGS, Trieste), Sabina Bigi (Sapienza University, Roma), Nuria Teixidò (Stazione Zoologica Anton Dohrn, Napoli), Manfredi Longo (INGV, Palermo), Cinzia Caruso (INGV).



## Requirements

Any kind of diving license with at least 20 certified dives (also recreational) is accepted, as well as a medical certificate for eligibility for diving activity not older than 1 year, and a DAN (or equivalent) insurance for underwater activities.



## Required Equipment

Participants must be provided with complete diving equipment, jacket, 2 regulators or octopus, underwater diving computer, underwater whiteboard, underwater net and compass. Tanks and weight belt are included in the participation fee. If necessary, it will be possible to rent the needed equipment at the Amphibia diving center.





## Costs

The cost for the school is € 100 per person (to pay directly to the Diving Center Amphibia).

Accommodation costs in an affiliated Hotel will be € 55 (single room/day), € 70 (double room/day). Due to COVID-19 restriction only single or double rooms will be allowed.

Dinner in an affiliated restaurant will be € 30 (two main courses + side dish) or € 18 (second course + side dish) or € 12 (first course).

Payments will be made by participants directly to the affiliated structures, and a pre-payment (100 euro) will be required on the 2<sup>nd</sup> September 2022, after formal acceptance to the course.

## Location and Logistics

The school will be held in Panarea (Aeolian Archipelago, Italy) at the ECCSEL NatLab-Italy, located in road San Pietro. Panarea Island can be easily reached by ferry from Naples, where there is an International airport. Additional information on how to reach Panarea and where to stay will be provided to candidates by e-mail.





## How to Apply

Fill in the [application form](#) with all your personal and educational information and send it to [divingschoolpanarea@gmail.com](mailto:divingschoolpanarea@gmail.com) together with a Curriculum Vitae including specific reference to your diving experience, no later than 10 August. Maximum number of participants is 10.

Admission to the Summer School is subjected to the requirements mentioned above, and to the assessment of the organizers and teachers. Admitted students will be contacted directly to the email address they have indicated. A participation certificate will be issued and the scientific dives are considered valid for the release of the certification with the European Scientific training standards by the Italian Association of Scientific Diving (AIOSS), according to the competence level demonstrated.

## COVID-19 restrictions

All the activities will be held in accordance with the COVID-19 pandemic containment measures and requirements valid on the Italian territory, specifically in Sicily; a COVID-19 vaccination certificate, or healing certificate from COVID-19, or a negative test certificate (molecular swab) taken within 48 hours beforehand, will be required. In case due to unpredictable COVID-19 emergence the course is cancelled, the registration fee will be refunded.