

Call for Applications
1st ODYSSEA Summer School
Operational Oceanography for Science, Business and Society
Akontisma Hotel, NeaKarvali, Kavala, Greece
3-12 September 2018



Kavala, Greece

Organised by the ODYSSEA Project
Hosted by the Democritus University of Thrace
Venue: Akontisma Hotel, Nea Karvali, Kavala, Greece

OBJECTIVES OF THE PROGRAM

The overall objective of the 1st ODYSSEA Summer School is to stimulate a scientific dialogue and create a learning experience about operational oceanography in the Mediterranean context. More precisely, after the end of the program, the trainees, coming from both sides of the Mediterranean Sea basin, will be able to:

- Understand the concept of operational oceanography
- Use the ODYSSEA project platform for retrieving, managing and processing oceanographic and environmental data of the Mediterranean Sea
- Explore the Copernicus Marine Environment Monitoring Service (CMEMS) products, learn the data and parameters provided, download and process these datasets
- Retrieve and use satellite datasets and explore databases on the marine environment
- Learn about the modern developments on marine instruments and sensors used in field sampling for operational oceanographic monitoring
- Get acquainted with the use of operational forecasting mathematical models e.g., hydrodynamic, wave, water quality models, etc.

PROGRAM NOVELTY

Monitoring and forecasting of the marine environment is a challenge for oceanographers, as in the last few decades marine ecosystems have been subject to intense human pressure (pollution, extensive fishing and aquaculture, coastal erosion, tourism, etc.), coupled with climate change. Therefore, the protection and sustainable economic exploitation of these ecosystems requires real-time monitoring and operational prognostic modeling. In parallel, the volume of data concerning the marine environment collected both by satellites and on-site monitoring instruments is enormous and can be categorised as “Big Data”. All these data need to be retrieved, processed, interpreted and then fed into numerical models for reanalysis and forecasting.

The 1st ODYSSEA Summer School introduces trainees to all stages of operational oceanography, aiming towards the Blue Growth of the Mediterranean Sea.

TARGET AUDIENCE

The program intends to train oceanographers and engineers, young researchers, PhD candidates or professionals at the early stages of their professional careers who are interested in learning to manage the available marine environment data to provide targeted and understandable information to the relevant end users.

SELECTION PROCEDURE

The selection of the trainees (min. 20-max. 25) will be carried out by the Program Scientific Coordinator.

REGISTRATION AND FEES

Registration and attendance of **lectures will be free of charge**. Students are required to cover all costs related to travel, accommodation, local transportation and other living expenses.

PROGRAM STRUCTURE - THEMATIC MODULES – DESCRIPTION

Module 1	Introduction to Operational Oceanography
Content	Current trends in oceanography, the need for operational research, tools for the development of a marine data platform, existing oceanographic data platforms, potential users of oceanographic data in the Mediterranean
Hours	10
Module 2	Introduction to ODYSSEA Platform V0
Content	Presentation of the ODYSSEA v0 platform, innovative platform elements, data capture and processing capabilities through the platform, production of diagrams, maps, statistical analysis of oceanographic data through the ODYSSEA system, practical applications.
Hours	10
Module 3	The Copernicus Marine Environment Monitoring Service and its products
Content	Presentation of the European CMEMS system, CMEMS system products, data capture capabilities from the system, analysis and processing of downloaded files, exercises and applications.
Hours	10
Module 4	Satellite data analysis
Content	The Sentinel 3A satellite, Business Satellite Data, satellite data acquisition and analysis, practical applications
Hours	10
Module 5	Modern marine instrumentation and sensors
Content	Instruments for operational oceanographic monitoring, installation and receiving data, static monitoring systems and gliders, practical applications.
Hours	10
Module 6	Operational numerical models
Content	Mathematical simulations in operational oceanography, Delft 3D mathematical model, FEWS model interface, exercises and practical applications.
Hours	10

STUDENT CREDITS

Participants successfully attending the Summer School will be awarded a certificate of attendance which will provide them with 6 ECTS.

DEADLINE FOR APPLICATIONS

Please send a short CV (preferably in accordance with the Europass template, see here, <https://europass.cedefop.europa.eu/fr/documents/curriculum-vitae/templates-instructions>) and a motivation letter (max 1 page) in English.

The deadline for the submission of applications is 20 May 2018.

Applications should be submitted electronically to: mzoidou@windowslive.com



Akontisma Village Hotel, NeaKarvali, Greece

PRACTICAL INFORMATION

Location and access: Kavala is a coastal city in Northeastern Greece and the principal port of the Region of Eastern Macedonia – Thrace, located about 150 kilometers east of Thessaloniki. The standard way to reach Kavala is to catch a connecting flight from the **Athens Eleftherios Venizelos Airport** to the local **Kavala “Megas Alexandros” Airport**. Another way to reach Kavala is by plane through the **International Makedonia Airport of Thessaloniki** which has numerous daily direct flights linking it to many major European cities. The ride from Thessaloniki Airport to Kavala is about an hour and a half of an easy drive, all on the Egnatia Motorway.

Accommodation will be provided at Akontisma Hotel. A reconstitution of Greek villages in Cappadocia (Asia Minor) Akontisma offers a selection of stone-built selection of individual Single and Double rooms surrounded by lush greenery, near the coastal community of NeaKarvali of Kavala, with amenities corresponding to those offered by a 4 star hotel.

Special rates (see Reservation Form) for the ODYSSEA Summer School students and trainers include breakfast, two coffee breaks and a full buffet meal to be served during lunchtime or later in the evening if that is the common request of participants.

Hotel Akontisma is at a few minutes walking distance (500 m) from the village of NeaKarvali, 12km from the centre of the city of Kavala and about 20km from the local Megas Alexandros airport.

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