

PERSEUS Training Course: “Marine Carbon Cycle. Dissolved Organic Matter dynamics and marine ecosystem health”

Host institute: CNR-IBF, Pisa, Italy

Responsible scientist: Chiara Santinelli

Date: 4/5/2013-26/6/2013

In the period 4-26 May 2013, the CNR-IBF carried out the training visit in “Marine Carbon Cycle. Dissolved organic matter dynamics and marine ecosystem health” at the Biophysics Institute of the CNR, Pisa.

There were 3 applicants for 2013 and 3 for 2014:

- Alessandra Campanelli from CNR- ISMAR, Italy
- Elli Pitta from HCMR, Greece
- Bnayahu Sulimani, from IOLR, Israel

During the visit, the applicants received basic training in the instrumentations use and lectures about the importance of DOM as an indicator of the ecosystem health. They directly participated in (1) two daily surveys, in order to collect samples (2) in the filtration and treatments of samples (3) in the analysis of the samples in order to gain information on DOC concentration and CDOM optical properties (absorption and fluorescence) (4) in the elaboration and interpretation of the data collected during the training.

The training was successful both from a social and scientific perspective. The trainers interacted a lot with the trainees and gained very good results, while the atmosphere was pleasant. The visit was an interesting moment of scientific comparison and growth as well as an occasion of interdisciplinary discussion.

PROGRAMME OF THE VISIT

First week

Basic training in the instrumentations use

Lectures about DOM dynamics in the Mediterranean Sea

Introduction to the main programs used for data analysis and elaboration

Second week

Samples collection at the mouth of Arno and Magra river and in the coastal area of the Tyrrhenian Sea

Samples treatments

DOC measurements

CDOM absorption spectra and fluorescence excitation emission matrix

Third week

Data elaboration and interpretation

Discussion of results