

Greece

Meetings

- Participation in Davos Atmosphere and Cryosphere Assembly 2013, Switzerland.
- Scheduled participation in CIESM meeting next October in Marseille.
- Convener of a session at Goldschmidt conference (Aerosols deposition and their role on ecosystem and climate).

New funding

- University of Crete will start a new project to study whether interaction between anthropogenic and natural sources (namely dust) can affect solubility of important nutrients such as P and Fe.

Other activities

Within the framework of the Crete mesocosms facilities changes in dissolved and particulate abiotic components and the impact of dust on the autotrophic and heterotrophic surface microbial populations during a transitional spring season that is characterized by high inputs of dust events was studied by an international consortium composed by scientists from Israel, Turkey, UK, France and Greece (University of Crete, HCMR, University of Athens). Two different treatments were deployed : In the first treatment, Saharan dust event material collected in Crete was added to the mesocosms (3 replicates). In the second treatment aerosol also collected in Crete containing a natural mixture of desert dust and polluted European particles was added to the mesocosm. The results will be presented at CIESM and Goldschmidt international conferences.

Publications

- Parinos, C., Gogou, A., Bouloubassi, I., Stavrakakis, S., Plakidi, E., Hatzianestis, I. Sources and downward fluxes of polycyclic aromatic hydrocarbons in the open southwestern Black Sea, *Organic Geochemistry*, Volume 57, Pages 65-75, 2013.
- C. Theodosi, S. Stavrakakis, F. Koulaki, I. Stavrakaki, S. Moncheva, E. Papathanasiou, A. Sanchez-Vidal, M. Koçak, N. Mihalopoulos, The significance of atmospheric inputs of major and trace metals to the Black Sea, *Journal of Marine Systems*, Volume 109-110, 94-102, 2013.
- Christodoulaki, S., Petihakis, G., Kanakidou, M., Mihalopoulos, N., Tsiaras, K., Triantafyllou, G., Atmospheric deposition in the eastern Mediterranean. A driving force for ecosystem dynamics, *Journal of Marine Systems*, doi: 10.1016/j.jmarsys.2012.07.007.
- Hood, R.R., Drinkwater, K.F., Mihalopoulos, N., Introduction: Large-scale regional comparisons of marine biogeochemistry and ecosystem processes - Research approaches and results (Editorial), *Journal of Marine Systems*, Volume 109-110, 1-3, 2013.
- C. Theodosi, C. Parinos, A. Gogou, A. Kokotos, S. Stavrakakis, V. Lykousis, J. Hatzianestis, and N. Mihalopoulos, Downward fluxes of elemental carbon, metals and polycyclic aromatic hydrocarbons in settling particles from the deep Ionian Sea (NESTOR site), *Eastern Mediterranean, Biogeosciences*, 10, 4449–4464, 2013, doi:10.5194/bg-10-4449-2013.

Submitted by: Nikos Mihalopoulos