

**ANNUAL REPORT ON GEOTRACES ACTIVITIES IN GREECE**  
JUNE 2013 – JUNE 2014

There were several GEOTRACES related activities in Greece the last year (June 2013-May 2014).

***Meetings***

- Profs. Kanakidou Maria and Mihalopoulos Nikolaos both from University of Crete organized in two international conferences, sessions relevant to GEOTRACES. The first entitled “Atmospheric Deposition of Aerosols to the Land and Oceans and their Impact on Ecosystems and Climate” was organized during Goldschmidt (25-30th of August in Florence, Italy) and the second entitled “Atmospheric Deposition to the Ocean: Impacts on Marine Biogeochemistry and Climate” was organized during EGU in Vienna (28/4-2/5 2014).

***Research activities***

- Within the framework of the National projects ADAMANT (Thalis project) and PANOPLY (Aristeia project) a consortium of Greek scientists from University of Crete, Hellenic Center of Marine Research (HCMR) and Aegean University performed studies i) on nutrients and trace metals solubility both in seawater and rainwater, ii) on factors controlling their levels in the marine atmosphere (via sampling at Finokalia sampling site, a regional background station, [www.finokalia.chemistry.uoc.gr](http://www.finokalia.chemistry.uoc.gr)) iii) on their impact on marine productivity by using HCMR mesocosms facilities and finally iv) on their fate in the atmosphere using modeling tools. Results from these studies will be presented in International conferences and scientific journals.

***Some indicative publications relevant to GEOTRACES activities***

- 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.
- Im, U., Christodoulaki, S., Violaki, K., Zarmpas, P., Kocak, M., Daskalakis, N., Mihalopoulos, N., Kanakidou, M., Atmospheric deposition of nitrogen and sulfur over southern Europe with focus on the Mediterranean and the Black Sea, *Atmos. Environ.*, Volume 81, December 2013, Pages 660-670

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