

Submitting your research for SOLAS endorsement (* required fields)

1. Summary

Title of the research project* ADEPT: Aerosol deposition and ocean plankton dynamics

Status* Funded Submitted Proposed

Is your project part of a larger national/regional programme?

If yes, please give details and outline any relation to other IGBP, SCOR, WCRP or iCACGP projects

2. Contact Information

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3. Details of the Project

Summary / Abstract of Project* ADEPT addresses the study of the effect of atmospheric aerosol deposition on the dynamics of a marine LNL (low nutrient low chlorophyll) system, namely the Mediterranean. To achieve its goal, ADEPT will use a multiscale and complementary approach. At the Mediterranean basin scale we will relate satellite chlorophyll data with modeled Saharan dust deposition. At the coastal scale, we will measure deposition directly at 6 locations across the NW Mediterranean and simultaneously sample chemical and biological parameters of the water column. At 3 locations this sampling will be daily. We will analyze relationships between both sets of variables. For such a sampling intensity we will count with the collaboration of non-scientists. In addition we will conduct laboratory experiments with aerosol amendments to seawater in order to study plankton stimulation dynamics, utilization of organic matter by bacteria, and changes in bacterial composition and diversity, all for a better mechanistic understanding of the processes involved.

The bulk input of nutrients to the Mediterranean through atmospheric deposition is equivalent to the land-based input, thus having utmost importance in biogeochemical budgets. However,

6. Submission

Please indicated whether you have contacted your national representative?

Yes

No

If no, are you happy for us to send the details that you submit to your national representative?

Yes

No

If not, please clarify why

If you do not have a national representative, please tick this box

Please email this document with the 'Subject' as 'SOLAS Project Endorsement' to solas@uea.ac.uk