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### ESSEM COST Action ES0907

## INTEgrating Ice core, MARine and TERrestrial records - 60,000 to 8000 years ago (INTIMATE)

The main objective of this Action is to develop common protocols and methods within a larger network to reconstruct abrupt and extreme climate change across the full range of European environments (ice, marine and terrestrial) within the period 60,000 to 8000 years ago, bringing together scientists in order to better understand the impact and mechanisms of change, and thereby reducing the uncertainty of future prediction.

The main aim of this Action is to develop common protocols and methods to reconstruct abrupt and extreme climate change across the full range of European environments (ice, marine and terrestrial) over the period 60,000 to 8000 years ago, to better understand the mechanisms and impact of change, and thereby reduce the uncertainty of future prediction. Past climate and environmental data provide critical tests of global and regional climate models. While there are a small number of high profile records, such as the Greenland ice cores, which are critical for informing on the dynamic nature of past climate change, it is at the scale of Europe and the North Atlantic that abrupt climate variability needs to be fully explored. It is crucial that independent records of abrupt climate change across Europe are generated and robustly compared to test for leads/lags in the climate system and the interaction between different climate forcing mechanisms. Doing so will critically underpin our ability to model future climate change and ecosystem response. The main objectives of this Action are to standardize methodologies across Europe; incorporate reconstructions within climate models; and facilitate interdisciplinary science collaborations, including early-stage and established scientists, to build European research capacity.

(Descriptions are provided by the Actions directly via e-COST.)

### Earth System Science and Environmental Management COST Action ES0907

- ▶ [Description](#)
- ▶ [Parties](#)
- ▶ [Management Committee](#)

### General Information\*

- Chair of the Action:**  
[Dr Sune Olander RASMUSSEN](#) (DK)
- Vice Chair of the Action:**  
[Prof. Hans RENSSSEN](#) (NL)
- Science officer of the Action:**  
[Dr Deniz KARACA](#)
- Administrative officer of the Action:**  
[Ms Andrea TORTAJADA](#)

### Downloads\*

- Action Fact Sheet**  
[Download AFS as .RTF](#)
- Memorandum of Understanding**  
[Download MoU as PDF](#)
- Progress Report**  
[Download Progress Report as PDF](#)

### Websites\*

- Action website:**  
<http://cost-es0907.geoenvi.org/>

\* content provided by e-COST.  
Data is synchronised once per night.

### Publications

- ▶ [Dating, synthesis, and interpretation of palaeoclimatic records and model-data integration: advances of the intimate project \(integration of ice core, marine and terrestrial records, COST Action ES0907\)](#)

