

## Partner Institutions



**EPOC** (*Environnements et Paléoenvironnements  
Océaniques et Continentaux*)  
CNRS (Centre National de la Recherche Scientifique)  
Université Bordeaux 1  
France  
Jacques GIRAUDEAU



**NGU** (*Geological Survey of Norway*)  
Quaternary Geology and Climate Subdivision  
Norway  
Jochen KNIES



**IFM-GEOMAR** (*Leibniz Institut fuer  
Meereswissenschaften an der Universitaet Kiel*)  
Paleoceanography Research Division  
Germany  
Robert SPIELHAGEN



**SoGEES** (*School of Earth, Ocean and Environmental  
Sciences*)  
University of Plymouth  
United Kingdom  
Simon BELT



**UiT** (*Universitetet i Tromsø*)  
Department of Geology  
Norway  
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**VU** (*Vrije Unisersiteit Amsterdam*)  
Paleoclimatology and Geomorphology Group  
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# CASE



*the Changing Arctic and Subarctic Environment*

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## Coordination Team

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a Marie Curie **Initial Training Network**  
on marine biotic indicators of recent  
climate changes in the high latitudes of the  
North Atlantic

## Associated Partners



**Avaatech**, Analytical X-Ray Technology BV  
The Netherlands  
Aad VAARS



**Akvaplan-niva**  
Norway  
Salve DAHL



**Geopublishing AS**  
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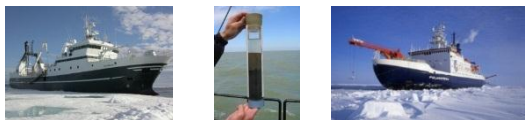


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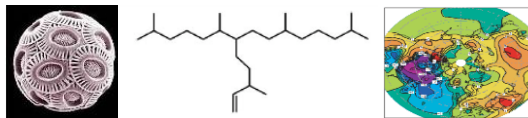
# Key Research Issues



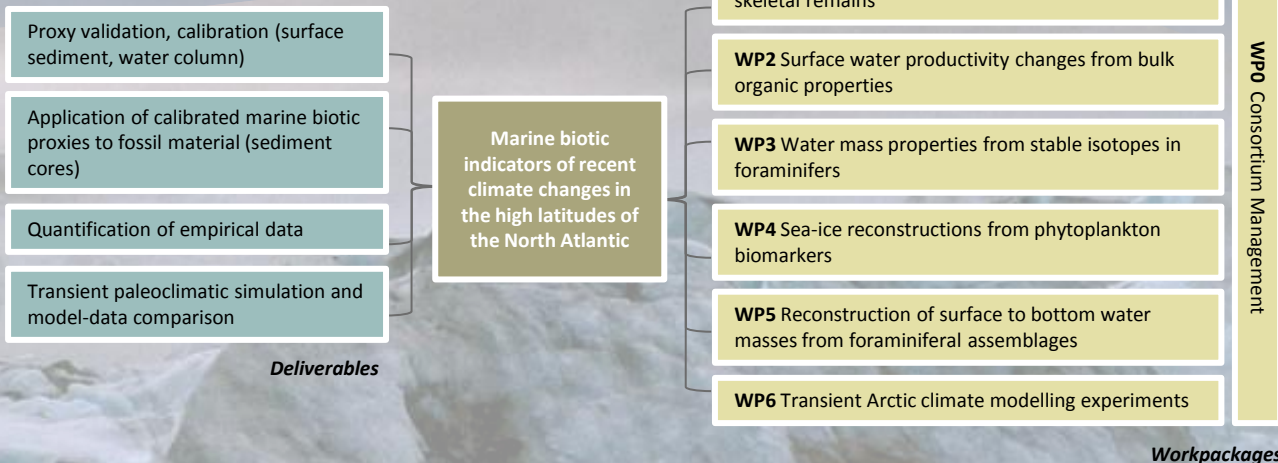
Sea-ice, water temperature, and stratification of the water column are the most important physical elements explaining the marine ecosystem responses to **climate changes in the Nordic Seas**.

**CASE** aims at addressing some of the key following questions:

- Is the present **global warming and its amplification** in the Arctic and Subarctic domains a **unique event** at the scale of the Earth recent history (last 10 000 years)?
- How do past **decadal to centennial-scale natural climate changes**, as recorded in marine sediments and ice cores, stand in the context of the present human-induced modulation of climate?
- How did Holocene variability in key physical elements affect **the structure and diversity of the planktonic ecosystem** in the Arctic and Subarctic domains?



# Structure and Objectives



**CASE** is a Marie Curie **Initial Training Network** (01.04.2010 – 31.03.2014) which provides research and training opportunities for **12 Early Stage Researchers** in the field of **paleoceanography** and **paleoclimatology**.

It implements a multidisciplinary and intersectorial training on **biotic proxies** and **modelling of past marine environments** in the form of generic and specialized **courses, workshops, and open conferences**.

**CASE** Objectives:

- **Assemble paleoclimate data** for the Holocene through **field programmes** in the Nordic Seas,
- Integrate **paleoclimate information** with **modern biological and climate modelling data**,
- Train a **new generation of European polar scientists**,
- Develop a **network** of European experts in polar research to build structures focused on **long-term collaboration** in Arctic science.

## Upcoming Events

**2<sup>nd</sup> progress meeting**, Amsterdam, January 2012

**Specialized course** "Introduction to climate modelling and application in paleoclimate", Amsterdam, January 2012

**Mid-term Open conference** coupled with "EGU 2012", Vienna, April 2012

**Specialized course** "Marine biotic proxies, organic geochemistry, biomarkers and application to paleoceanography", Plymouth, October 2012

**Generic course** "Skills development program", Plymouth, October 2012

**Specialized course** "Isotope geochemistry, stable light isotopes, radiogenic isotopes, application to paleoenvironmental reconstructions", Kiel, May 2013

**Synthesis workshop**, Kiel, May 2013

**Final Open Conference**, Bordeaux, February 2014