

CASE

the Changing Arctic and Subarctic Environment

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



www.caseitn.epoc.u-bordeaux1.fr



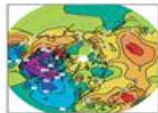
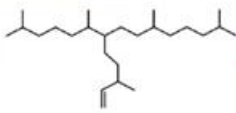
Key Research Issues



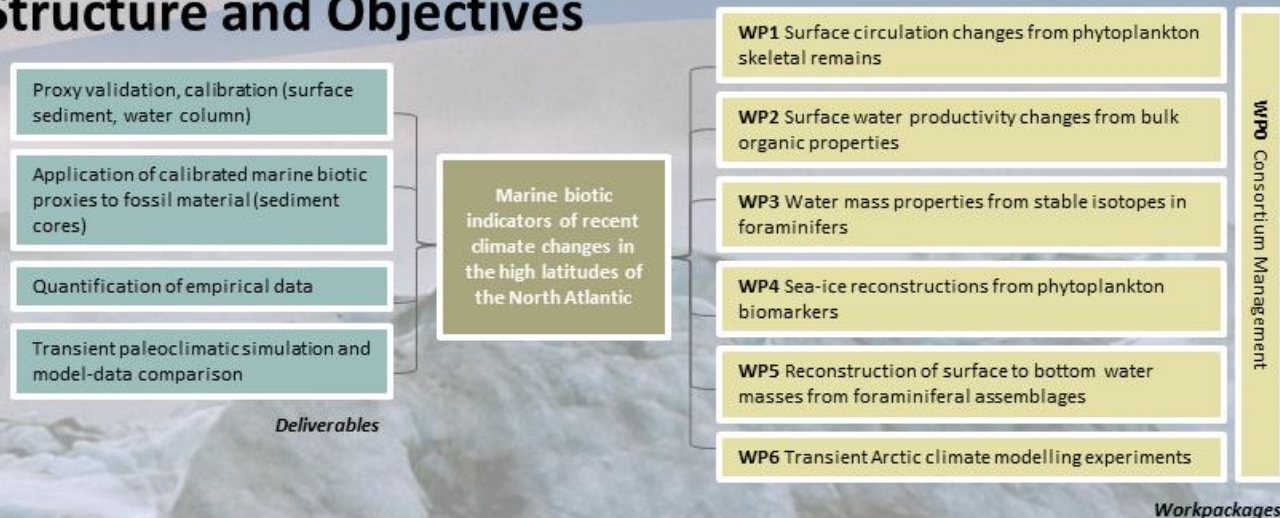
Sea-ice, water temperature, and stratification of the water column are the most important physical elements explaining the marine ecosystem responses to **climate changes in the Nordic Seas**.

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

2nd 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

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
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IFM-GEOMAR

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United Kingdom
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