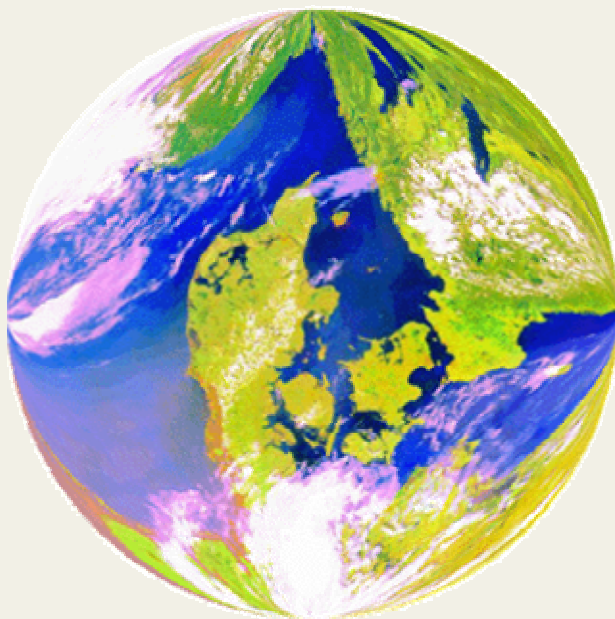




**Consequences of weather and climate changes for  
marine and freshwater ecosystems -  
Conceptual and operational  
forecasting of the aquatic environment**



***What effect will climate  
change have on the ecology  
of the aquatic systems in and  
around Denmark?***

## Background

Changes in the environmental status of fresh and marine waters have been observed in Denmark and elsewhere during recent decades. While a considerable research effort has been directed towards a clarification of the impact of human activities such as eutrophication and exploitation on these aquatic ecosystems, the contribution of CONWOY is to quantify and predict the effects of climate variability on the productivity and environmental state of aquatic ecosystems. Such predictive capability is particularly relevant in light of the expectation of significant climate change in the future.

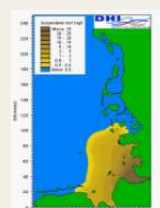
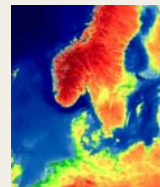
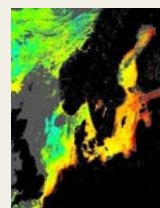
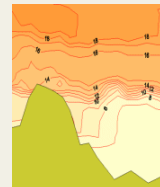
## Objective

Through a cross-disciplinary research effort CONWOY focuses on developing a fundamental scientific understanding of the interactions between weather/climate and the biogeochemical, biological and physical processes that define the state of aquatic environments in and around Denmark. A part of the proposed research is to incorporate fundamental knowledge into models that can be used to predict the impact of future climate change on Danish aquatic environments.

## Vision

The vision is to better understand and to quantify the influence of climate on the state of marine and freshwater ecosystems and to be able to produce a "water forecast", explicitly the primary aim of CONWOY is to become able to predict effects on the water quality and ecological state of different regional water bodies on a decadal to century scale. This is motivated by regional climate change simulations, which indicate significant changes toward the end of this century.

<http://www.conwoy.ku.dk>





## CONWOY participants

### **Freshwater Biological Laboratory (FBL)**

University of Copenhagen

[www.fbl.ku.dk](http://www.fbl.ku.dk)

Contact person: M. Søndergaard

e-mail: [MSondergaard@bi.ku.dk](mailto:MSondergaard@bi.ku.dk)

### **The Danish Climate Centre**

Danish Meteorological Institute (DMI)

[www.dmi.dk](http://www.dmi.dk)

Contact person: J. H. Christensen

e-mail: [jhc@dmi.dk](mailto:jhc@dmi.dk)

### **DHI - Water & Environment (DHI)**

[www.dhi.dk](http://www.dhi.dk)

Contact person: K. Edelvang

e-mail: [kae@dhi.dk](mailto:kae@dhi.dk)

### **National Environmental Research Institute (NERI)**

[www.dmu.dk](http://www.dmu.dk)

Contact person: E. Jeppesen

e-mail: [ej@dmu.dk](mailto:ej@dmu.dk)

### **The Danish Institute for Fisheries Research (DFU)**

[www.dfu.min.dk](http://www.dfu.min.dk)

Contact person: B. MacKenzie

e-mail: [brm@dfu.min.dk](mailto:brm@dfu.min.dk)

### **Department of Marine Ecology**

Aarhus University (AU)

[www.biology.au.dk/marine.eco](http://www.biology.au.dk/marine.eco)

Contact person: K. Richardson

e-mail: [Richardson@biology.au.dk](mailto:Richardson@biology.au.dk)

### **Institute of Geography (GI)**

University of Copenhagen

[www.geogr.ku.dk](http://www.geogr.ku.dk)

Contact person: M. Pejrup

E-mail: [mp@geogr.ku.dk](mailto:mp@geogr.ku.dk)

### **Geographic Resource & Science Ltd. (GRAS)**

c/o Institute of Geography

[www.gras.ku.dk](http://www.gras.ku.dk)

Contact person: M. S. Rasmussen

e-mail: [msr@geogr.ku.dk](mailto:msr@geogr.ku.dk)

### **Centre for Maritime and Regional Studies (SDU)**

University of Southern Denmark

[www.cmrs.dk](http://www.cmrs.dk)

Contact person: P. Holm

e-mail: [pho@hist.sdu.dk](mailto:pho@hist.sdu.dk)

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## **Coordination and further information**

CONWOY is coordinated by Prof. Morten Søndergaard, Freshwater Biological Laboratory (FBL), University of Copenhagen  
e-mail: [MSondergaard@bi.ku.dk](mailto:MSondergaard@bi.ku.dk)  
Tel/Fax +45 3532 1921 /+45 3532 1901  
Further information about CONWOY is available at <http://www.conwoy.ku.dk>