Co-creating a Decision Support Framework to ensure Sustainable Fish Production in Europe under Climate Change

ClimeFish

Coordinated by the University of Tropmsø, Norway | Climefish@uit.no
Follow us at Twitter @ClimeFish and visit us at www.climefish.eu

Aim:

ClimeFish will support sustainable fisheries, enable an increase in European aquaculture production, facilitate employment and regional development through effective forecasting, and develop management tools for adpting to climate change.

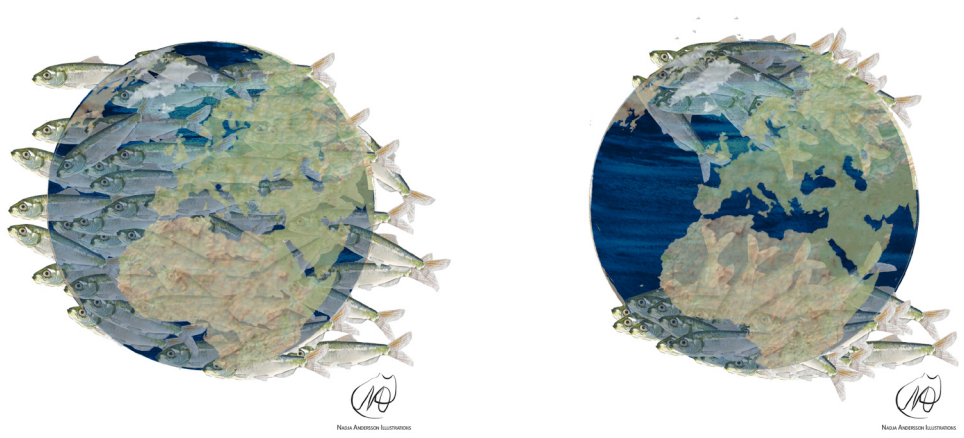

Figure 1: One of the best documented effects of ocean warming is the poleward expansion of wild fish stocks

Outcomes:

- Knowledge review and knowle gap analyses of climate changes, fisheries and aquaculture in Europe
- Novel forecasting models to simulate and analyse changes in distribution and production in the fisheries and aquaculture
- Early warning methodologies and mitigation strategies for identified risks as well as analysis of market and non-market costs and benefits of affected ecosystem services
- The ClimeFish Decision Support Framework including a Decision Support Tool software application based on the simulation and forecasting models that will be available through the European Committee for Standardization after the project ends to ensure the project results are used.

Stakeholders:

Scientists and stakeholders work together to make sure experience-based knowledge is integrated in the various scientific analyses. That way we ensure that the knowledge we go by is scientifically acceptable, has policy relevance and has social robustness.

Consortium:

The ClimeFish consortium includes 17 RTD organisations, 1 SME and 3 International organisations from 16 countries: 10 countries are European Member States: Czech Republic, Denmark, France, Germany, Greece, Hungary, Italy, Spain, Sweden and the United Kingdom, 3 are Associated Countries: Faroe Islands, Norway and Iceland and3 are non-EU countries eligible for funding: Canada, Chile and Vietnam

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How?

- Forecast the impact of climate changes upon growth and survival of the most important and the less resilient exploited European fish stocks and aquaculture species
- Evaluate species within 16 specific case studies that have the potential for sustainable growth and increased seafood production under the expected climate change scenarioes
- Develop early-warning methodologies for the sector, and to identify strategies that mitigate the risks and take benefit from any opportunities resulting from climate change
- Contribute with knowledge that may lead to a more precautionary management of fisheries and aquaculture, secure robust employment and sustainable development of communities
- Develop the ClimeFish Decision Support Framework with stakeholders so that barriers between researchers, authorities, managers, fishers, producers, markets and consumers are reduced

Figure 2: Mussels are one of the ClimeFish species

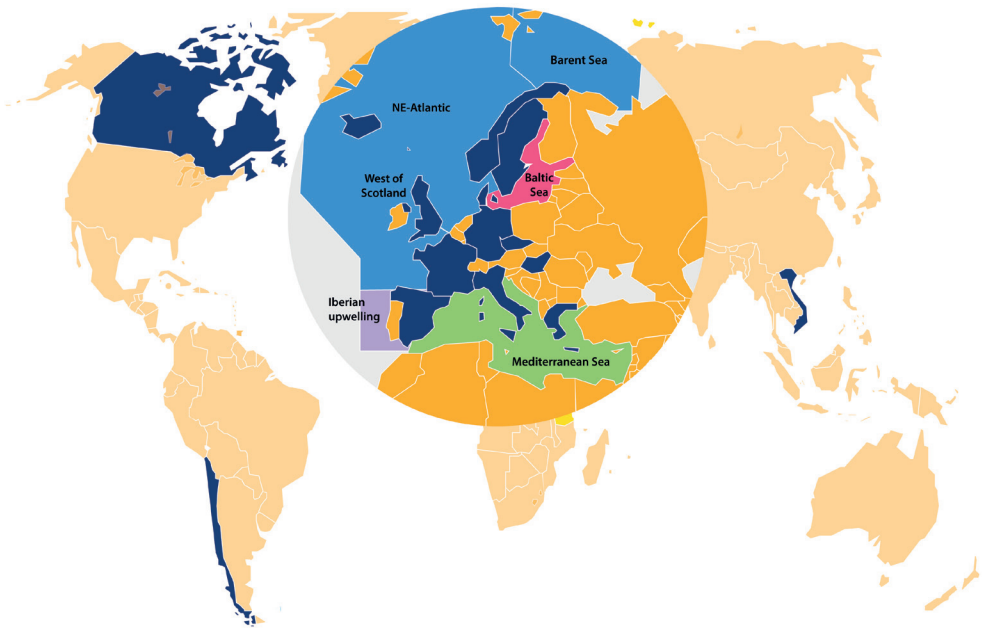

Figure 3: ClimeFish partners