



## **ECOAZUL-MED**

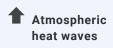
# Fishing Sector: Policy recommendations

The ECOAZUL-MED project (2021-2024) aims to develop, for the first time, a publicly accessible web tool that provides climate information derived from high-resolution regional climate simulations. This tool will allow anticipation of the effects of climate change on aquaculture, fishing, and coastal tourism, considering different emission scenarios for the next 40 years along the Spanish Mediterranean coast.



#### **FUTURE CLIMATE CONDITIONS**













Sea-surface temperature









#### POSSIBLE SOCIO-ECONOMIC IMPACTS

- Alterations in marine ecosystems
- Change in the temporal distribution of commercially important fish stocks
- Impact on the reproduction of some species
- Impact on the conservation of catches on board vessels
- Possible displacement of migratory species
- Difficulty in resource management
- Increase in costs



#### **ADAPTATION MEASURES**

#### FISHERIES PRACTITIONERS

- Adjustment of fishing efforts
- Use of climate service tools or alert systems
- Collaboration of the fishing sector with other economic sectors to promote diversification

### PUBLIC ADMINISTRATION

- Promotion of responsible consumption, labeling, and new species
- Promotion of R&D to improve understanding of the causes of population changes in order to manage stocks properly
- Protection of key species
- Establishment of protected areas

#### R&I

- Research on new climate service tools or alert systems
- Promotion of R&D+i to improve understanding of the causes of population changes in order to manage stocks properly
- Research to increase the selectivity of fishing gears and equipment

#### CITIZENSHIP

- Introduction of new species into the diet
- Responsible consumption of fishe products

#### HOW CAN THE CLIMATE TOOL HELP THE SECTOR?

The tool will provide graphs with data generated from high-resolution coupled regional simulations from the <u>MedCORDEX</u> coordinated modeling initiative. Specifically, the tool will provide information regarding changes in future climate.

Tool users will be able to select:

The variable of interest (sea-surface temperature, marine heat waves, sea-surface salinity, velocity and direction of ocean currents up to a depth of 1000 m, maximum air temperature at 2 m, atmospheric heat waves, or relative air humidity)

The greenhouse gas emissions scenario, between the two available options

The time period of interest, which should be decadal

The desired time frequency, either seasonal or monthly











