

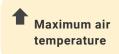


ECOAZUL-MED **Touristic Sector: Policy recommendations**

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



Atmospheric heat waves

Relative air humidity

Summer precipitation % of days with precipitation

Prolongation of summer thermal conditions

Sea-surface temperature Marine heat waves

Sea-surface salinity

Changes in the magnitude of the velocity of ocean currentsarinas



New measures of

in destinations

architectural design

urban and

POSSIBLE SOCIO-ECONOMIC IMPACTS

- Loss of thermal comfort
- Increase in the use of air conditioning
- destinations affected by frequent and intense heatwaves

Possible rejection of

- Possible increase in mortality
- tourist season towards the extremes, improving seasonal adjustment

Extension of the

- Necessary management and planning to adapt to extreme weather events
- Impact on infrastructure, water quality, and coastal sands
- Increase in tropical



ADAPTATION MEASURES

TOURIST PRACTITIONERS

- Improvement of energy efficiency in buildings
- Measures aimed at water saving
- Monitoring of carbon footprint and water footprint for resource use reduction
- Use of sustainable tourism indicators
- Creation of a well-crafted tourism calendar and communication of events

PUBLIC ADMINISTRATION

- Spatial planning in tourist destinations
- Ensuring compliance with and revision of the Climate Change and Energy Transition Law (2021)
- Local and regional climate change adaptation plans
- Adoption of sustainable tourism indicators
- Promotion of tourism activity in seasons other than summer

R&D

- Investment in R&D in sustainable and healthy urban planning
- Development of climate service tools or alert systems
- Improvements in water treatment science and technology
- Enhancement of communication, dissemination, and awareness-raising regarding tourism and climate change.

CITIZENSHIP

- · Responsible consumption of resources in tourist destinations, such as energy and water
- Use of public transportation
- Preference for selecting sustainable destinations

HOW CAN THE CLIMATE TOOL HELP THE SECTOR?

The tool will provide graphs with data generated from high-resolution coupled regional simulations from the MedCORDEX 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 time period of interest, which should be decadal

The desired time frequency, either seasonal or monthly









