



# CLIM-RUN



Climate Local Information in the Mediterranean  
region Responding to User Needs

## CLIM-RUN - Climate Local Information in the Mediterranean region: Responding to User Needs

### PROJECT DESCRIPTION

CLIM-RUN Project (2011 – 2014) is aimed mainly at the developing of a communication protocol by which climate information has been transferred from the researchers to the stakeholders in order to develop suitable climate informed decisions. CLIM-RUN Project developed a protocol for applying new methodologies and improved modeling and downscaling tools for the provision of adequate climate information at regional and local scale that is relevant to and usable by different sectors of society (policymakers, industry, cities, etc.).

Differently from the current approaches, CLIM-RUN has developed a bottom-up protocol, for the creation of climate information, involving stakeholders early in the process with the aim of identifying well defined needs at the regional and local scale. The improved modeling and tools have been used to optimally respond to these specific needs. The protocol has been assessed by application to relevant case studies involving interconnected sectors, primarily tourism and energy, and natural hazards (wild fires) for some representative target areas (mountainous regions, coastal areas, islands, urban areas).

CLIM-RUN has also provided the seed for the creation of a Mediterranean basin-side climate service network, which would eventually converge into a pan-European network. The studied period was 2021-2050, including analysis on climate variability connected to the anthropological issues.

### PROJECT PHASES

In the framework of CLIM-RUN activities, the first project's key stage was the stakeholders' involvement in the organization of targeted workshops for the defined case studies (energy, tourism, coastal areas, wild fires). The users' needs were translated into specific requirements emerging from climate observations and current models at local and regional level.

The second project's key stage was in charge of developing and applying new climate modelling and analysis tools in order to answer to the stakeholder demands for climate services appeared in the previous workshops. The stage produced an iterative process, starting from the climatic data and creating a set of information analytically linked to the stakeholders parameters. The produced information established a Mediterranean data repository for scientific, educational and open public use composed by climate observations (atmosphere, surface and ocean), model results and relevant sector data and indices/indicators collected with user guidance, documentation and visualization tools.

The last key stage produced a set of final workshops aimed at the analyzing the carried out activities and to the assessment of the produced outputs for each one of the developed case studies (energy, tourism, coastal areas, wild fires). CLIM-RUN project has finally realized a methodological protocol to provide climate information and services from early users needs.

### PROJECT RESULTS

The development of a climate service network is one of the main project's results. The network is focused on the main Mediterranean region issues, as for energy, tourism, environmental hazards. Several Workshops have been defined for each one of the targeted sectors. The workshops have been developed in different targeted areas within the Mediterranean basin (Croatia, Trieste, Venice, Tunisia, Cyprus, Morocco, Thessaloniki, Barcelona and the Savoy Alpine Region).

The workshops have increased the interaction within the stakeholders (private companies, trade unions, local authorities) and produced a continuous flow of information among the scientific community and the interested socio-economic sectors. Simultaneously, the improved methodological protocol for climate services has provided optimally responses to the specific climate information relevant to, and usable by, different stakeholders at local and regional level.

Moreover, the proposed iterative and participative model has indicated the existing gaps between the data-providers and users, and the need to translate information and languages, to identify requirements and to trigger new perspectives. On the basis of the suggested Protocol and the appeared users' needs, climate information has been produced for each one of the targeted sectors. Here below a summary of the main specific achievements of CLIMRUN (available at <http://www.climrun.eu/products/>):

- The use of new climate variables (rarely analyzed in other projects) and innovative sectoral indices tailored on the base of stakeholder requests;
- Information on the number of expected extreme events in the North-Adriatic area and the possible consequences;
- Information on the next possible changes in the wind speed and estimated impact on the development of Eolic systems in future climate scenarios;
- Expected temperature change and its impact in Alpine lakes area;
- Analysis on the expected temperature leaps and sea level in the main touristic areas within the Mediterranean basin (Cyprus, and Tunisia);
- training programs to stakeholders on how they can learn to increase the capability in using innovative tools for the wild fires indexes;
- Analysis on how the air pollution can impact on the solar energy installations;
- Capacity to study climate variables and to forecast extreme climatic events;
- Expected climate changes and development of new climate modelling tools for the Mediterranean basin area.

At last, a set of advices and Executive Summaries have been produced including the main project's results in terms of best practice and learned lessons, to be submitted at the European Union consideration.

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Website: <http://www.climrun.eu>

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Call Year: 2010

Theme: [Clima](#)

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