## COST 734 AIMS

**The main objective** of the Action is the evaluation of possible impacts from climate change and variability on agriculture and the assessment of critical thresholds for various European areas.

**Secondary objectives**

- The collection and review of existing agroclimatic indices and simulation models to assess hazard impacts on various European agricultural areas relating hazards to climatic conditions
- Building climate scenarios for the next few decades
- The definition of harmonised criteria to evaluate the impacts of climatic ch'ange and variability on agriculture
- The definition of warning systems guidelines

## COST 734 SIGNATORIES

Austria, Bulgaria, Belgium, Croatia, Cyprus, Czech Republic, Denmark, Finland, France, Germany, Greece, Hungary, Ireland, Italy, Luxembourg, Netherlands, Norway, Poland, Portugal, Romania, Russian Federation, Serbia, Slovakia, Slovenia, Spain, Sweden, Switzerland, Turkey, United

## NON COST MEMBERS

National Drought Mitigation Centre, University of Nebraska–Lincoln USA; Lincoln University, Canterbury New Zealand; Joint Research Centre Ispra, Agriculture Unit (ex-Agrifish) Italy; WMO – Agricultural Meteorology Division

## WHAT IS COST?

COST is an intergovernmental framework for European Cooperation in Science and Technology, funded by its member countries through the EU Framework Programme. The objective of COST is to coordinate, integrate and synthesise results from ongoing national research within and between COST member countries to add value to research investment. COST Actions aim to deliver scientific syntheses and analyses of best available practice to aid problem identification, risk assessment, public utilities and policy development.

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COST

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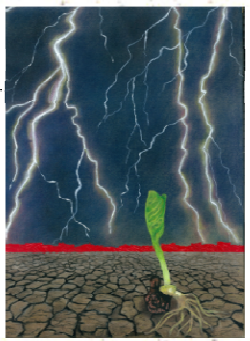

fenyegető égbolt
truende skyer
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**COST Action 734**

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hroziace nebo
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# CLIVAGRI
## IMPACTS OF CLIMATE CHANGE AND VARIABILITY ON EUROPEAN AGRICULTURE

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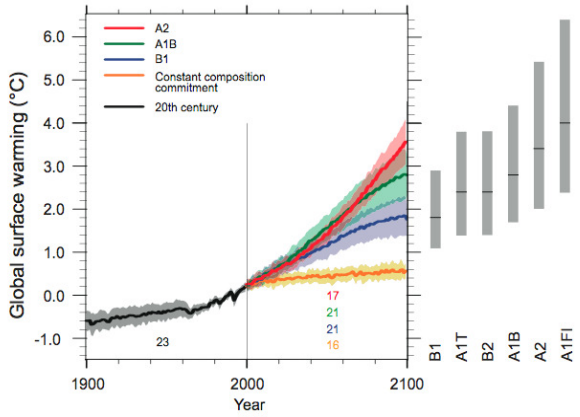
## WORKING GROUP 1

### AGROCLIMATIC INDICES AND SIMULATION MODELS

1. Review and assessment of agroclimatic indices and simulation models relevant to various European agricultural activities

2. Collection of agroclimatic indices and simulation models and their relationships with specific crop responses

3. Identification of model outputs and index thresholds relevant to the evaluation of responses of crops to climate change and variability




## WORKING GROUP 2

### EVALUATION OF THE CURRENT TRENDS OF AGROCLIMATIC INDICES AND SIMULATION MODEL OUTPUTS DESCRIBING AGRICULTURAL IMPACTS AND HAZARD LEVELS

1. Collection of climatic data for several European regions according to agroclimatic indices, simulation models and hazards
2. Verification of data and solving problems arising from missing, non-homogeneous and erroneous data
3. Assessment of required resolution for practical agroclimatological applications as a function of variables, areas and agricultural aspects
4. Definition of statistical protocols to analyse climatic series, in order to evaluate means and variability patterns
5. Determination of current trend of agroclimatic indices, simulation model outputs and hazards
6. Determination of inter-annual variability of agroclimatic conditions

## WORKING GROUP 2.1

### REMOTE SENSING

1. Evaluation and assessment of the use of satellite data for agro-climate research, and in particular their integration into high-quality, globally-integrated climate products

## WORKING GROUP 3

### DEVELOPING AND ASSESSING FUTURE REGIONAL AND LOCAL SCENARIOS OF AGROCLIMATIC CONDITIONS

1. Collection of future climate scenarios for various European regions according to agroclimatic index and simulation model characteristics
2. Assessment of future trends of climatic conditions and hazards
3. Evaluation of climate scenario reliability according to the current situation

## WORKING GROUP 4

### RISK ASSESSMENT AND FORESEEN IMPACTS ON AGRICULTURE

1. Standardisation and harmonisation of criteria to evaluate the impact of climate change and variability on agricultural activity
2. Determination of current and future impacts on various European agricultural areas
3. Determination of critical thresholds
4. Formulation of specific recommendations and assessments for policy makers, extension services, farmers and other end-users
5. Definition of warning systems