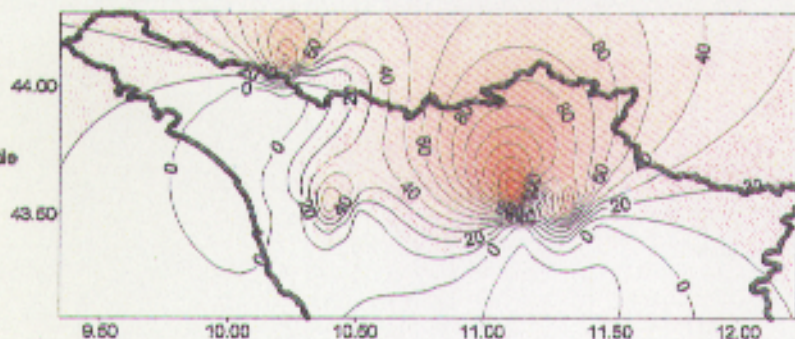


# COST 79

# THE INTEGRATION OF DATA AND METHODS IN AGROCLIMATOLOGY



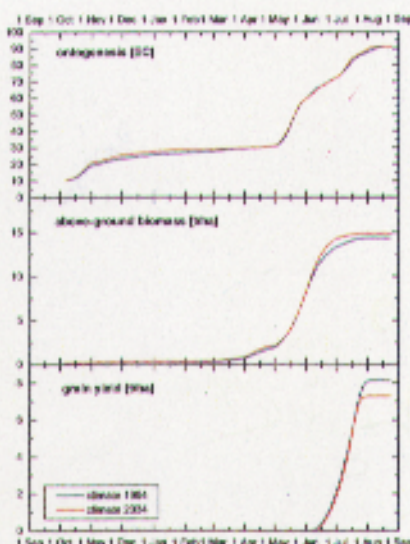
## Spatial and temporal interpolation of data

Downscaling and upscaling of meteorological processes as tools for reliable methodologies to interpolate and extrapolate meteorological data at variable temporal and spatial scales.

Rainfall spatialization.

## Agroclimatological data

Definition of agroclimatic indices and organization of an agroclimatic database. Data identification and querying and current data via Internet. Data processing software applied to agroclimatology.



Comparison of climate scenario effects 1954 vs. 2034.

## Ancillary environmental data

Acquisition and organization of ancillary information on soils, land use, crops, natural and agricultural ecosystems as inputs to agroclimatic models using geographical information systems (GIS).

## Agroclimatic potential

Agroclimatic classification for crop suitability, major hazards and pollution risks, land degradation, quality of products, natural resources and agricultural planning. Modelling the impact of climate change on agriculture.

## Agroclimatic cartography

Definition of standard procedures to compute and visualize agroclimatic information as maps and other graphical formats using advanced computer technologies mainly for agricultural statistics.



Climatic classification of Tuscany. (Courtesy of IATA, Florence).

