

# Climate Change and Agriculture

Province of Flevoland, The Netherlands

## Main Idea

Climate proof flood risk management needs climate proof spatial and economical development.

## Approach

In the Netherlands, the risk of flooding is increasing due to climate change and subsidence. Flevoland wants to anticipate on this process in long term spatial policies and water management. The province has regulations for both fluvial and pluvial flooding, with separate standards for both. The policy and the standards depend among others on land use and economic value. In the project "climate and agriculture in Flevoland", we have tried to make predictions on the long term land use, taking climate change into account. These predictions serve as a basis for flood risk management plans.

## Results

- » Agriculture in Flevoland has a bright future
- » Economic strength improves with climate change...
- » ...provided protection against flooding and fresh water availability are kept up to the present standard
- » Increased flood risk, prolonged draught and increased pressure of pests and diseases are main climate change impacts
- » Key factors are healthy soil structure and fresh water availability
- » Farmers and government need each other.

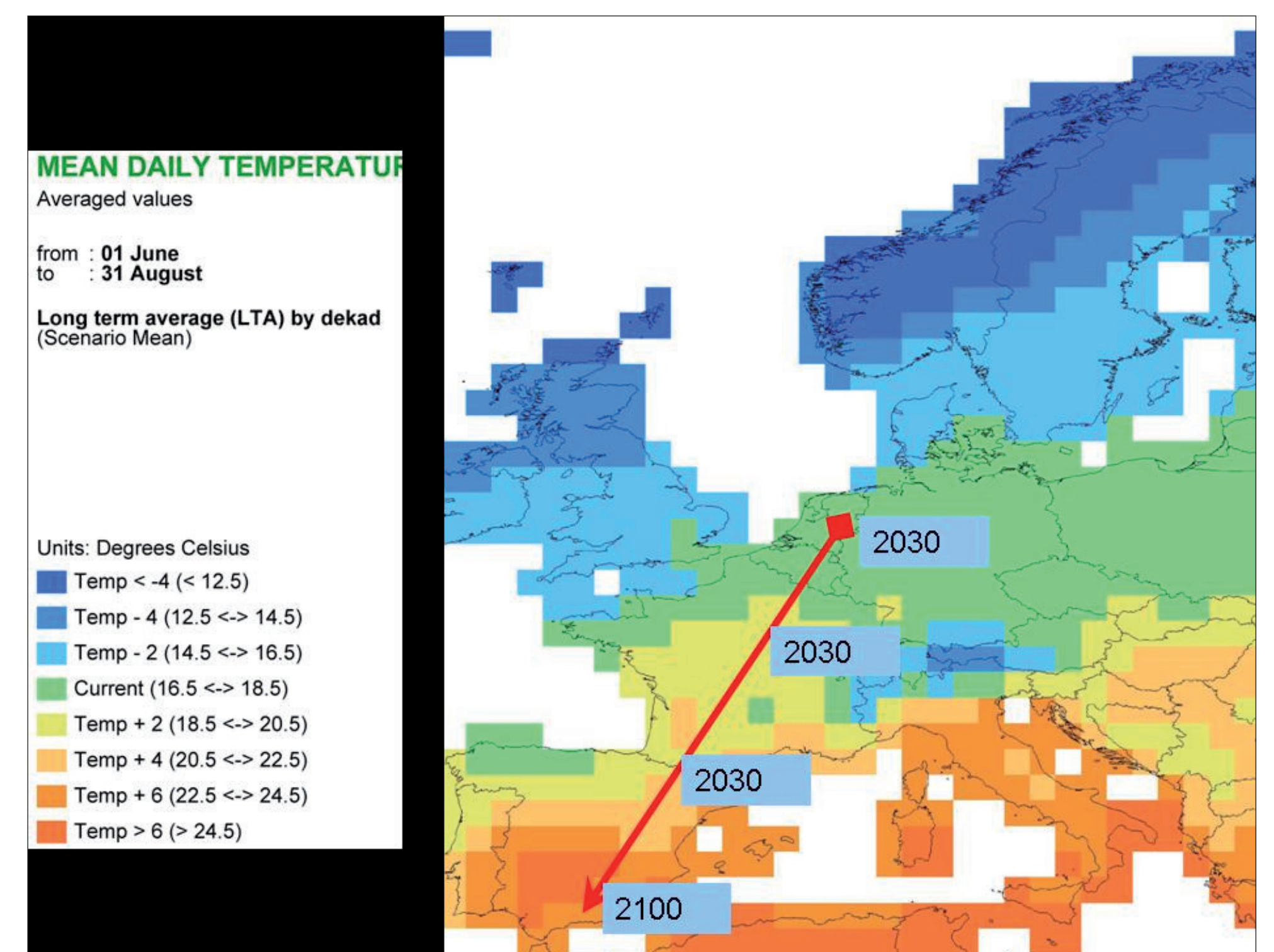
### Link to further information:

<http://climatechangesspatialplanning.climate-research-netherlands.nl/themes/adaptation>

## Contribution to SAWA

Climate change impacts need to be addressed in Flood Risk Management Plans, not only at the level of water related impacts, but also at the level of economic and spatial impacts. This project shows a way of incorporating climate change.

## Partners



Source: H. Meinke, J. Verhagen, D. van Kraalingen and J. Neeteson, unpublished



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"I don't have any cash flow problems.  
It all washed away in the flood."