

PROJECT INFORMATION

Project title: IKSMAPS: Providing precalculated future distribution maps for the main French forestry species through IKS model - Part 2: development of a silvoclimate service based on the IKS model

Project ID: 133

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PROJECT DESCRIPTION

The research project IKSMAPS aims providing precalculated future distribution maps for the main French forestry species through by an approach of limiting climatic factors (IKS model). We are currently working on the 2nd part of this project (IKSMAPS2) that is the development of a silvoclimate service allowing the projection of the climate envelopes of species under a set of future climate scenarios. This silvoclimate service targets forest management planning experts. It is based on the IKS model and on IKSMAPS1 achievements.

The 1st part of the project evaluated the robustness of the IKS model. We have collected data from much of Europe, among them, in May 2016, the levels I and II ICP plots for these species: *Abies alba*; *Castanea sativa*; *Cedrus libani*; *Cedrus atlantica*; *Fagus sylvatica*; *Picea abies*; *Pinus sylvestris*; *Pinus pinaster*; *Pinus nigra nigra*; *Pseudotsuga menziesii*; *Quercus ilex*; *Quercus pubescens*; *Quercus petraea*; *Quercus robur*; *Robinia pseudacacia*.

The levels I and II allowed to obtain the geolocalized data (XY) and tree species names mentioned to establish the distribution over Europe.

IKSMAPS2 involve the treatment of modelling issues raised by IKSMAPS1 and the development of the silvoclimate service in itself.

These task involves the extension of the modelling to a large number of species.