1 Grided climatological database in WEB GIS application

Bele D., Dolinar M.

IGEA d.o.o., Ljubljana; Slovenia

(dominik.bele@igea.si)

The request for spatial continuous climatological database is increasing rapidly. For the purpose of regulation of building energy consumption, extensive climatological information was essential. Energy consumption is usually regulated on the administrative units level, which could lead to high biases due to high variability of climate variables within the administrative unit. To avoid the problem, the grided database of climate variables was established. The database is in 1 km resolution and consists of the following parameters: monthly temperature, beginning and end of heating season, degree-days, minimum construction temperature and solar radiation energy. For a big amount of data and efficient system for selection and distribution of climate information to end-users was needed. Web GIS application was developed for searching and downloading climate data. The application allows the user to search for the data under spatial or administrative criteria, to visualize the data and download the data in the selected form.