

On the way to unique land resources data base of Europe

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Abstract

Last 80th years Russia have been excluded from the world economy and developed separately. Now, when our country try to be incorporated into unique World and European economy, we extremely needed in unification of methods of land resources analysis, which are applied in the World. Only in such way it seems will be possible for Russia to find its own place in the World and European economy. It is known, that Russia occupy near 1/6 of the world territory and near 1/2 of the European territory (in geographical sense). And it seems impossible to create unique land resources Data Base (DB) for Europe without incorporating data from Russia.

The main aim of our investigations is to analyze possibilities of data transfer from Russian land resources DB into mostly known SOTER DB and European Soil DB, which have been created by European Soil Bureau (ESB). Corresponding correlation tables for land resources data transforming have been created. SOTER DB and Soil DB in ESB format have been created for a number of Case Study regions in Russia. Results of investigations can be used as a “key points” for such DB compilation for the hole territory of Russia and for creating of unique European Soil DB. Compilation of SOTER DB and Soil DB in ESB format for Russia opens wide possibilities for modern European land resource assessment technologies transfer to Russia. As an example, land suitability analysis for one of Case Study area have been conducted based on FAO ideology of land evaluation and application of WOFOST crop growth modeling.

The results of investigations could be used for analysis of Russian land resources on the basis of modern western technologies, as well as for analysis of European land resources when based on corresponding Russian approaches. But, of cause, this is only first step on the way to unique land resources DB creating for Europe.