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Forecasting the weather
- ensemble techniques
in probabilistic weather prediction

Efficiency of monthly weather forecast application for agrometeorological purposes

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As a result of joint efforts of interdisciplinary scientific community, with meteorologists in the “leading role”, a many sophisticated meteorological products is now available. Short range weather forecast (with 10 km spatial resolution), ensemble forecast, monthly and seasonal forecasts and climate model simulations are result of continuous work on improvement of all aspects of numerical weather prediction (NWP). Even accuracy of some NWP simulations is not satisfactory yet; their testing and non-operational use offers a wide range of possibilities.
However, short inspection of NWP application-related papers and services suggest that end-users community is not well informed about features, applicability and ways of use of different NWP products. From the point of view of agrometeorological community all, above indicated, kinds of NWP are very important. The main goal of this study is to explore possibility of monthly weather forecast application for different agrometeorological purposes. Historical monthly forecast will be assimilated from ECMWF MARS archive. Crop model SIRIUS and biometeorological model BAHUS will be run using MARS and observed data for the same period in order to estimate efficiency of monthly forecast application.