



## Seasonal Forecasts for the Czech Republic

Jana Pechkova

Czech Republic (pechkova@chmi.cz)

Seasonal forecasts (forecasting the climate months and years ahead) are issued by many meteorological centers in the world. Despite the fact, that the forecasts don't provide a detailed weather forecast but only the statistical summary of the weather events occurring in a given season (or a decade, a month, a year), they can be used for long-term strategic planning in agriculture, forestry, landscape management and others. Seasonal forecasts are not produced in the Czech Republic, but there are efforts to use results from ECMWF (European Centre for Medium-Range Weather Forecasts) and to issue the forecasts in the future.

In the paper, the attention is paid to an application of statistical downscaling methods (PCA -Principal Component Analysis, MLR - Multiple Linear Regression and NN -Neural networks) to the multi-model ensemble datasets of temperature and precipitation from DEMETER (Development of a European Multi-Model Ensemble System for Seasonal to Interannual Prediction) for the area of the Czech Republic, first of all to the datasets from the European forecast model ECMWF. Some skill measures (for example MSES - Mean Squared Error Skill Score) based on results from some meteorological stations in the Czech Republic are presented.