

Dynamical downscaling with ECMWF experimental seasonal forecasts

Mirta Patarcic and C. Brankovic

Croatian Meteorological and Hydrological Service, Gric 3, HR-10000 Zagreb, Croatia

patarcic@cirus.dhz.hr / Fax: +385 1 45 65 630 / Phone: +385 1 45 65 623

cedo.brankovic@cirus.dhz.hr / Fax: +385 1 45 65 757 / Phone: +385 1 45 65 688

Regional Climate Model (RegCM) has been used to dynamically downscale experimental seasonal forecasts from European Centre for Medium-Range Weather Forecasts (ECMWF) produced within ENSEMBLES project.

Downscaling has been done for nine-member ensembles of seasonal integrations for winter (January-March) and summer (July-September) season from 11-year period (1991-2001). The global model resolution was T_L95 , approximately corresponding to 1.875° on the quasi regular grid. RegCM domain covered central and western Europe and Mediterranean and the model horizontal resolution was 50 km.

RegCM results have been compared with global model and ERA-40 data.