



Regional changes of extreme dry conditions from ERA-40 reanalysis data for Northern Eurasia

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Data from the European Centre for Medium-Range Weather Forecasts reanalysis (ERA-40) and observations are used for diagnosis of the drought and forest fire conditions in the Northern Eurasia. In particular, different indices for drought conditions and Nesterov Index for combustibility of forest fires are analyzed for the second half of the 20th century. Relationship between indices of drought and forest fires conditions is studied. Changes in anomalous dry regimes for European and Asian regions in middle latitudes are analyzed with an assessment of effects of quasi-cyclic climate processes like El-Nino phenomena.