



Air circulation types and the severe weather in south-eastern part of Romania during the cold season

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By its geographical position, the south-eastern part of Romania is exposed to several weather hazards with major impact on the environment. The main goal of this study is to identify the severe weather cases during the winter season using the COST733 Catalogues and COST733class software. The datasets used is based on NCEP-NCAR mean daily re-analysis for sea level pressure, precipitation rate, 2m temperature, 500 hPa geopotential height, 995 hPa u-wind component. The time series covered ten years between 1st of January 2000 and 31st of December 2009. The severity of weather phenomena has been assessed applying some threshold to meteorological parameters. The results have been emphasized the domination of air circulation types associated to ridge of East European Anticyclone and low pressure patterns in south and east part of Romania or over Black Sea.