

Climate-induced hazards in Hungary

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In response to climate change, and according to regional climate model projections for the periods of 2021–2050 and 2071–2100 compared with 1961–1990 under the IPCC A1B climate scenario:

- soil erosion hazard is expected to increase;
- drought hazard is expected to become a serious problem in mainly the south-eastern part of the country;
- wind erosion sensitivity is expected to follow the drought sensitivity changes in the spatial distribution of Hungary (south-eastern part), also with an increasing sensitivity, mainly caused by the soil and vegetation cover characteristics;
- flash flood hazard is expected to increase in the Transdanubian Hills and in the Northern Mountains;
- mass movements will show patterns similar to flash floods, but will probably not increase.

The combination of these hazards will probably show the most pronounced increase in the north-west of Hungary; in this region the actual processes are very active.

Source: Mezösi et al., 2012. Regional Environmental Change. Published online 7 July 2012.

Photo: Soil Science NC State (www.flickr.com)