

## ***Interactive comment on “Results of the post flash-flood disaster investigations in the Transylvanian Depression (Romania) during the last decade (2001–2010)” by V. Arghiuș et al.***

**E.G. Petrova (Referee)**

epgeo@mail.ru

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### General comments

The paper by Arghiuș et al. presents a study of flash flood disasters in the Transylvanian Depression that are very rare events there, but have drastic social and economic consequences due to many factors. The three most significant flash floods occurring in the study area during the last decade (Feernic, August 2005, Ilisua, June 2006 and Ciunga, June 2010) are investigated, including the meteorological context, the peak discharge parameters, social and economic negative effects and the main responsible

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factors. The paper deals with a very important topic; it is interesting and well structured. I believe it can be published after a minor revision.

### Specific comments

Geomorphic differences of the study basins should be analyzed in more detail and shown on the corresponding relief maps, because these characteristics are very important for the flash flood occurrences.

The demographic density and land use types of the study areas should be shown.

p.6208, line 25–27 – “During the 2001–2010 period, the damages represented 1.50% of the cumulated value of the entire country (2005 USD69 574 000 as compared to 2005 USD4.678 billion). . .” – The sentence is unclear. Please, rephrase.

Fig.2 – The location of the appropriate flash-flood events should be shown on the figures.

Fig.4 – The figures are too small. The legend on all three maps is the same and can be shown once. The places most affected by the flash flood disasters should be shown.

### Technical corrections

(p.6201, line 4) spelling: “hydro-“ (instead of “hidro-“)

(p.6203, line 3) wording: “economic” (instead of “economical”)

p.6209, line 11 – “The main factor is naturally associated with natural causes.” – Please, rephrase.

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