

Editor Decision: Publish subject to technical corrections (13 Feb 2017) by Dr. Maria-Carmen Llasat

Comments to the Author:

Dear Dr. Romanescu,

It is a pleasure for me telling you that your paper "Exceptional floods in the Prut basin, Romania, in the context of heavy rains in the summer of 2010" by Gheorghe Romanescu, Cristian Constantin Stoleriu, has been accepted subject to technical corrections before its publication. Please take into consideration the comments made by the referee as well as my own comments in the final version of your paper. I include them in the bottom up of my message.

Hoping to receive more contributions from you in the future, to be published in NHES,

Sincerely,

Prof. Maria Carmen Llasat

Technical modifications

Line 163: "with a mitigation level of 550 million.m3 » change with « with a mitigation volume of 550 million m3"

Author's Answer: "with a mitigation level of 550 million.m3 » was replaced with « with a mitigation volume of 550 million m3"

Lines 174-176: change "Mathematical methods were used to reconstitute discharges and terrain measurements using land surveying equipment (Leica Total Station) were used to calculate the surface of the stream cross-section." By "Mathematical methods were used to reconstitute discharges and terrain measurements using land surveying equipment (Leica Total Station) to calculate the surface of the stream cross-section".

Author's Answer: "Mathematical methods were used to reconstitute discharges and terrain measurements using land surveying equipment (Leica Total Station) were used to calculate the surface of the stream cross-section." was replaced with "Mathematical methods were used to reconstitute discharges and terrain measurements using land surveying equipment (Leica Total Station) to calculate the surface of the stream cross-section".

Line 618: you speak about probability flood of 1% but previously in line 164 it was about backwater.

Author's Answer: In both cases It is about 1% probability flood.

Line 644 A brief mention and description of Ezer dam (and this dam objectives in the water system) should be given in the system's description early in the text.

Author's Answer: A brief description of Ezer dam was introduced in line 109.

Lines 203-205. Please, substitute the present sentences "...and unstable air was installed between the topographic surface and 2500 m of altitude. The high quantity of humidity originated from The

Black Sea, situated 500 km away. The warm 205 tropical air is generated by the Russian Plain, overheated by a strong continentality climate” by “...and unstable air was installed between the surface and 2500 m of altitude. The high quantity of humidity was originated from the Black Sea, situated 500 km away. The warm air was generated in the Russian Plain, overheated by a strong continentality climate”.

Author’s Answer: “...and unstable air was installed between the topographic surface and 2500 m of altitude. The high quantity of humidity originated from The Black Sea, situated 500 km away. The warm 205 tropical air is generated by the Russian Plain, overheated by a strong continentality climate” was replaced with “...and unstable air was installed between the surface and 2500 m of altitude. The high quantity of humidity was originated from the Black Sea, situated 500 km away. The warm air was generated in the Russian Plain, overheated by a strong continentality climate”.

In the legend of figure 4 write “Deviation of monthly rainfall amounts (May-July 2010) from the average cumulated precipitation for this period”. I understand that the percentage refers to the comparison with average cumulated precipitation for May-June-July. If you refer to annual precipitation, please, indicate it in the Legend of the figure.

Author’s Answer: Figure 4. “Deviation of monthly rainfall amounts (May-July 2010)...” was replaced with Figure 4. Cumulative precipitation for May-July (2010) interval, divided by normal precipitation-Climate Prediction Center (source data: NOAA)

Lines 222-224. Please, substitute the present sentence “The climate convection was organized as a mesocyclone extended over Northern Moldavia (the departments of Suceava and Botosani) (Hustiu, 2011)” by “The convection was organized by a mesocyclone extended over Northern Moldavia (the departments of Suceava and Botosani) (Hustiu, 2011)”

Author’s Answer: Please, substitute the present sentence “The climate convection was organized as a mesocyclone extended over Northern Moldavia (the departments of Suceava and Botosani) (Hustiu, 2011)” was replaced with “The convection was organized by a mesocyclone extended over Northern Moldavia (the departments of Suceava and Botosani) (Hustiu, 2011)”

Lines 506-507. Please, substitute the present sentence “The greatest damage occurred in, and the most arable area was destroyed in, the middle Prut basin in the Jijia-Bahlui Depression of the Moldavian Plain” by “The greatest damage occurred in the middle Prut basin in the Jijia-Bahlui Depression of the Moldavian Plain, where the most arable area was destroyed”.

Author’s Answer: Please, substitute the present sentence “The greatest damage occurred in, and the most arable area was destroyed in, the middle Prut basin in the Jijia-Bahlui Depression of the Moldavian Plain” was replaced with “The greatest damage occurred in the middle Prut basin in the Jijia-Bahlui Depression of the Moldavian Plain, where the most arable area was destroyed”.