

Manuscript prepared for Hydrol. Earth Syst. Sci. Discuss.
with version 2014/05/30 6.91 Copernicus papers of the L^AT_EX class copernicus.cls.
Date: 26 September 2014

Authors' final response

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We thank Juraj Parajka and Monica Pepe for the second reviews to our manuscript. Referee's minor comments have been addressed. Here some exceptions:

Parajka's comment 6: *Figures: Please consider to remove axes labels (coordinates) in Figure 6. I'm also wondering why not to use the same years in Figures 8 and 9. And I would suggest to use the space more efficiently (make the maps larger) in Figures 10 and 11.*

Authors' response: thanks for this note. In Fig. 6 we prefer to keep axes labels and coordinates. This is an additional information that maybe can be useful for finding a location with high cloud amounts, for readers that do not know well the Po river basin.

In Figures 8 and 9 the snow line is drawn with different aims. In one case for demonstrating that a snow line altitude calculated as average elevation of snow covered areas is more useful than the highest snow pixel (the same applies for land). In Fig. 9 the target was to show the effects of sunlight exposure at the regional scale. In each Figure we included those years that allow to highlight such concepts. The others are reported as additional material. Moreover, this allows to show the snow line trend for 4 years rather than 2.

In Figures 10 and 11 the layout has been slightly changed, so as to enlarge the pictures.