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Comment

# ***Interactive comment on “Evaluating the importance of surface soil contributions to reservoir sediment in alpine environments: a combined modelling and fingerprinting approach in the Posets-Maladeta Natural Park” by L. Palazón et al.***

**L. Palazón et al.**

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We agree with the referee that the part of the research conducted by Alatorre et al. (2010) for the Axial Pyrenees, where the Benasque catchment is located, should be included in the revised manuscript. Discussion, comparison and citation of some common aspects of the above mentioned research are included in lines: 106; 484; and 530.

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L106: Alatorre et al. (2010) studied soil erosion and sediment delivery using the WATEM/SEDEM model for the Barasona catchment that includes the Benasque catchment.

L484: In addition to differences between the models WATEM/SEDEM and SWAT, dissimilarities in subcatchment configuration, time and land cover units did not enable us to directly compare sediment productions from the study by Alatorre et al. (2010) and our study. However, land uses/land cover specific sediment yields recorded in Alatorre et al. (2010) are of the same order of magnitude as the simulated specific sediment yields produced from the soils in our study.

L530: In the catchment there are intermediate sediment storages in the form of small depressions, perched flat areas and dense vegetation cover that favours sediment retention (Alatorre et al. 2010) and the nature of the material in storage requires investigation.

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Interactive comment on Solid Earth Discuss., 6, 1155, 2014.

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