Interactive comment on "The influence of riparian evapotranspiration on stream hydrology and nitrogen retention in a subhumid Mediterranean catchment" *by* Anna Lupon et al.

Anonymous Referee #1

Comments to Editor: This is a very interesting paper that should be published after only some minor corrections. The paper is straightforward and convincing and will be a valuable contribution to the field.

Comments to Author: Major concern: The only major point is that there is no differentiation between winter and summer type diurnal signal therefore false calculation/interpretation of Q_lost in the dormant season. Q_lost estimation (used in paper) is good only for summer type signal. But in dormant season there is another so called winter type signal, which has a different shape and phase than summer type. The inducing effect of winter type signal is freezing and thawing not ET (see e.g. Lundquist and Cayan 2002, Gribovszki et al. 2010 [see in References]). Lundquist, J.D., Cayan,

D.R., 2002. Seasonal and spatial patterns in diurnal cycles in streamflow in the western United States. Journal of Hydrometeorology 3 (October), 591–1603.

Minor points see in attached manuscript with comments

Please also note the supplement to this comment:
http://www.hydrol-earth-syst-sci-discuss.net/hess-2016-56/hess-2016-56-RC1-supplement.pdf