

1 **The reviewer Massimiliano Zappa makes a very important comment concerning the**  
2 **terminology used in this paper. I fully agree that a distinction between "runoff process**  
3 **types" and the origine of the water actually causing the occurrence of these processes is**  
4 **of prime importance, in particular to avoid any misleading association of one of the**  
5 **water sources (snowmelt, glacier melt, rainfall) with a certain runoff generation process.**  
6 **This also sheds a new light on the parameter identification process: the parameters can**  
7 **be grouped into the ones that influence the water input generation and the ones that**  
8 **encode the runoff processes.**

9 *We agree with the idea that it is necessary to distinct the "runoff process types" between*  
10 *"water source that causing the occurrence of the processes". In our study, hydrograph is*  
11 *separated based on water source for runoff generation which includes snowmelt, glacier melt*  
12 *and storm-rainfall. Rainfall runoff in the wet period and groundwater baseflow out of the wet*  
13 *period are both belong to the storm-rainfall type. On the other hand, the model parameters*  
14 *are grouped by both water input generation mechanism (snowmelt and glacier melt) and*  
15 *runoff processes (groundwater baseflow and storm-rainfall directly runoff).Each parameter*  
16 *group is related to a hydrograph partition and be calibrated in a step-wise way.*