

## ***Interactive comment on “Comment: Getting the Methodology Wrong for Analysing the Hydrological Changes in Watersheds” by Nitin Bassi et al.***

**Nitin Bassi et al.**

nitinbassi@irapindia.org

Received and published: 21 May 2018

First of all, we find comments by Nandita Basu strange as she is clearly indulging in what she is accusing Bassi et al. of doing through the commentary, by calling the scientific argument used by us as fallacy.

As regards the selective point raised by Nandita Basu we would like to clarify that we have highlighted the spatial variation in the catchment and not spatial TREND. Therefore, the argument about the need for doing statistical tests to establish the trend become null and void. Figure 2 clearly shows the spatial and temporal variation in upper, middle and lower part of Arkavathy watershed. Between 1998 and 2013, the aver-

C1

age annual rainfall varied from 377mm-1145mm (mean 794.5mm) in upper, 296mm-1422mm (mean 845mm) in middle and 376mm-1394mm (mean 896mm) in lower part of the watershed. At the micro-scale (e.g. at tanks' catchment) the spatial variation will be even more. However, Penny et al. (2018) has failed to capture this and has made an assertion that 'Variability in tank water extent due to precipitation was fairly similar across clusters' (page 603). It is also hard to understand why Nandita Basu does not want to acknowledge it and instead levels false denunciations on Bassi et al (2018) of poor scholarship.

---

Interactive comment on Hydrol. Earth Syst. Sci. Discuss., <https://doi.org/10.5194/hess-2018-187>, 2018.

C2