

# ***Interactive comment on “Spatial and temporal variability of rainfall in the Nile Basin” by C. Onyutha and P. Willems***

## **Anonymous Referee #1**

Received and published: 29 December 2014

HESD 11-1195-2014 Title: Spatial and temporal variability of rainfall in the Nile Basin  
Authors: C. Onyutha and P. Willems

**GENERAL COMMENT** The paper presents an analysis of the spatio-temporal variability in annual and seasonal rainfall totals at 37 stations of the Nile Basin in Africa using the quantile perturbation method. The paper also identifies the driving forces for the temporal variability in rainfall using correlation analysis between rainfall and global monthly sea level pressure and surface temperature and 10 climate indices for three (3) groups of stations.

The paper is, in general, well organized and written but there are a few minor points that should be clarified and addressed. Overall, the paper merits publication in the

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HESS after the comments are properly addressed.

SPECIFIC COMMENTS 1) Figure 1. The groups of rainfall stations (i.e. A, B, C) should be shown in Figure 1. 2) Figure 2. The name of the station (i.e. station 7) should be mentioned in the caption of the figure. 3) Page 12-Line 3. It is written in the text “The up and down arrows. . .”. However, there are no arrows in figure.

Please also note the supplement to this comment:

<http://www.hydrol-earth-syst-sci-discuss.net/11/C5838/2014/hessd-11-C5838-2014-supplement.pdf>

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