

Reply to the comments of referee 1 for Second Revision of HESS-113

The authors have done a great job with edits and responding to my comments. I found the manuscript much improved from the previous iteration and much easier to follow. My final comments are similar to those from HESS-112 and I suggest minor revisions at this stage.

Minor Comments:

1. Comments:

Line 511, I suggest deleting "In perspectives" from this sentence.

Author's response: Thank you. We removed "In perspectives" from this sentence in the revised manuscript.

Author's changes in manuscript:

Lines 511 to 513: This study will benefit from being performed in a multi-model framework with several RCMs within CORDEX-Africa initiative (Coordinated Regional Downscaling Experiment).

2. Comments:

As in HESS-112, it may be worthwhile to add a brief sentence on how your ensemble members are generated.

Author's response: Thank you for your suggestion. We added a sentence on how the ensemble members are generated in the revised manuscript.

Author's changes in manuscript:

Please see lines 109 to 114: "We designed three experiments (reference, wet, and dry), each with an ensemble of five (5) simulations (2001, 2002, 2003, 2004, and 2005) starting from June 1st to September 30th. The difference between these three experiments is the change in the initial soil moisture condition (reference initial soil moisture condition, wet initial soil moisture condition, and dry initial soil moisture condition) during the first day of the simulation over the West African domain."