

## **Response to the editor for Manuscript: Quantifying the impacts of land cover change on hydrological responses in the Mahanadi river basin in India**

We appreciate the minor technical corrections provided by the editor. We made all changes as suggested and marked in bold are our responses.

replace cumecs with m<sup>3</sup> s<sup>-1</sup>

- check also all tables and figures on correct unit notations (m<sup>3</sup>/s should be m<sup>3</sup> s<sup>-1</sup>, etc)

- I noted LUH2 is 3-4 times written as LUH, check if that is correct or that is always should be LUH

**All LUH in text and figure captions are changed to LUH2.**

- Line 513: "agrees" > "agree"

- Line 512 - 515: sentence somewhat hard to follow, consider simplifying

"The major changes occurring in Mahanadi in the future scenarios as predicted by LUH2 agree with a recent study by Behera et al., (2018) in the same basin, wherein they found a prominent conversion of DBF to croplands in year 2025 relative to year 2005."

**This sentence has been changed as follows.**

**"The major land cover changes in the future scenarios in Mahanadi basin (as predicted by LUH2), agrees with Behera et al., (2018), wherein they reported a prominent conversion of DBF to croplands in year 2025. "**

- Line 529: "this may not have a significant effect the assessments of impacts on runoff" here is a word missing after "effect"

- Line 533: "Our results correlates" > "Our results correlate"

- Line 542: "the impacts on ET and runoff cancels out" > "the impacts on ET and runoff cancel out"

- Line 576: LUH2 instead of LUH

**Thanks. All these changes have been made in the revised version of the manuscript.**