

Geosci. Model Dev. Discuss., referee comment RC2  
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## **Comment on gmd-2022-161**

Anonymous Referee #2

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Referee comment on "Coupling a large-scale hydrological model (CWatM v1.1) with a high-resolution groundwater flow model (MODFLOW 6) to assess the impact of irrigation at regional scale" by Luca Guillaumot et al., Geosci. Model Dev. Discuss., <https://doi.org/10.5194/gmd-2022-161-RC2>, 2022

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This paper presents a relevant model contributions to large-scale hydrological and groundwater modeling. The paper combines CWatm and MODFLOW, and focuses on including irrigation and pumping, and the this at two very different basins (Austria and India). After addressing the following (minor) revisions, the paper seems publishable.

- The first sentence of the short summary is ambiguous. I'd suggest something along the lines of "We develop and test the first large-scale hydrological model at regional scale with a very high spatial resolution that includes a water management and groundwater flow model"
  
- It would help if the short summary had a statement about what these results tell us about this model development. E.g. what can it do, that we could not before.

