Hydrol. Earth Syst. Sci. Discuss., https://doi.org/10.5194/hess-2017-373-RC2, 2017 © Author(s) 2017. This work is distributed under the Creative Commons Attribution 4.0 License.



Interactive comment on "Monitoring small reservoirs storage from satellite remote sensing in inaccessible areas" by Nicolas Avisse et al.

W. Gumindoga (Referee)

w.gumindoga@utwente.nl

Received and published: 26 September 2017

I read with enthusiasm the paper by Nicolas Avisse et al on Monitoring small reservoirs storage from satellite remote sensing in inaccessible areas. The approach to use satellite data (Landsat imagery and Digital Elevation Models (DEM)) to retrieve information on storage variations in ungauged and inaccessible areas is welcome for improved water resource management. A question arises for the Fmask function for distinguishing land and water areas and producing a probability mask for clouds. What specific criteria was used to manually remove images that are almost entirely covered by clouds or with obvious large errors in water bodies detection?

specific quality control measures did the authors take to remain with 245 images per location?

specific the authors can do justice by quantifying the uncertainty in the

C1

Fmask method.

<br/

Interactive comment on Hydrol. Earth Syst. Sci. Discuss., https://doi.org/10.5194/hess-2017-373, 2017.