

Interactive comment on “Using hydraulic head, chloride and electrical conductivity data to distinguish between mountain-front and mountain-block recharge to basin aquifers” by Etienne Bresciani et al.

Anonymous Referee #2

Received and published: 5 October 2017

This manuscript uses chloride concentrations (and electrical conductivity data as a proxy for chloride concentrations) along with hydraulic head data to examine the relative importance of mountain-front recharge vs. mountain-block recharge in aquifers near the Mount Lofty Ranges in Australia. Overall I think that this manuscript is good, and the method they are using is something that can be applied in other basins in a relatively simple, cost-effective manner. However, there are some areas where I feel they need to strengthen some of the foundations – in some cases I am not able to see in the figures what they describe, and there are some alternative views I have expressed.

C1

I hope the authors are able to address these comments, as I think it would result in a very good paper.

Detailed comments are provided in the attached PDF.

Please also note the supplement to this comment:

<https://www.hydrol-earth-syst-sci-discuss.net/hess-2017-328/hess-2017-328-RC2-supplement.pdf>

Interactive comment on Hydrol. Earth Syst. Sci. Discuss., <https://doi.org/10.5194/hess-2017-328>, 2017.

C2