Hydrology and Earth System Sciences Discussions

Hydrol. Earth Syst. Sci. Discuss., referee comment RC2
https://doi.org/10.5194/hess-2021-54-RC2, 2021
© Author(s) 2021. This work is distributed under
the Creative Commons Attribution 4.0 License.

Comment on hess-2021-54

Anonymous Referee #2

Referee comment on "Delineation of dew formation zones in Iran using long-term model simulations and cluster analysis" by Nahid Atashi et al., Hydrol. Earth Syst. Sci. Discuss., https://doi.org/10.5194/hess-2021-54-RC2, 2021

This manuscript “Delineation of Dew Formation Zones in Iran Using Long-Term Model Simulations and Cluster Analysis” by Atashi et al. dealt with dew potential in Iran during 1978-2018. this is an important topic in such an arid and semi-arid region. The results can be of great importance for utilization of dew as an alternate source of water. The manuscript is well written and has a good flow of information that is easy to follow. I, therefore, foresee it suitable for the scope of this esteemed journal and recommend publication in the Print-Form after minor revisions.

I fully agree with the Anonymous Referee #1 (comment posted on 25 Mar 2021) and I share the same recommendation presented in the comment 'Referee Comment on hess-2021-54', Al-Kuisi Mustafa (posted on 24 Mar 2021).

Figure 2 is not needed. It is enough to indicate in the methods the best number of clusters is enough.

Figure 6 can be replotted to by showing the percentiles.

The trend analysis shown in Section "3.2.2. Long-term temporal variation in dew formation zones" requires more discussion and relating the long-term changes to the possible reasons of the climate change. In order to support the discussion, I recommend moving the figures presented in the supplementary material to ba a part of the main text of the manuscript. The authors might have seen them complementary, but I foresee them presenting important information to be presented side-by-side in the results.