

Drink. Water Eng. Sci. Discuss., referee comment RC1  
<https://doi.org/10.5194/dwes-2021-19-RC1>, 2022  
© Author(s) 2022. This work is distributed under  
the Creative Commons Attribution 4.0 License.



## Comment on dwes-2021-19

Anonymous Referee #1

---

Referee comment on "Performance analysis of a basin-type solar still during harmattan"  
by Omololu Ogunseye and Kamar Oladepo, Drink. Water Eng. Sci. Discuss.,  
<https://doi.org/10.5194/dwes-2021-19-RC1>, 2022

---

### Performance analysis of a basin-type solar still during harmattan

The paper is about the performance of a solar still during Harmattan in Nigeria, evaluating the effect of various conditions. The topic is of importance, since decentralised treatment can contribute to the improvement of safe water supply in rural communities. However, the present study is little novel and does not clearly link the characteristics of the Harmattan season to the (prediction of) the performance of the solar still, also related to operational variables.

General comments:

- Language should be checked by a native speaking person
- Redundant and irrelevant information should be avoided
- Introduction starts too general
- Figures 3 and 4 should be combined, and only one example should be given (now all look the same)
- Figures 5,6 and 7 should be combined.

Specific comments:

- Line 6, a "study" does NOT "investigate"
- Line 7-8, delete sentence

- Line 12, "modified" is "influenced"
- Line 14-15, explain which insights are gained
- Line 17-21, delete sentences
- Line 22, delete sentence
- Line 23, "significantly low long-term cost" doubtful if that is really true..
- Line 33, "a passive still" does not "occur"
- Line 35-36, delete sentence
- Line 44-45, delete sentence
- Line 47-48, delete sentence
- Line 49, ambient temperature, solar radiation and wind velocity are already "weather conditions"
- Line 49, "Often investigated operating factors .."
- Line 67-68, delete sentence
- Line 68-69, rephrase sentence. Not clear what is meant..
- Line 77, not clear what is meant by ".. how selected COD parameters may affect productivity and purification efficacy." In addition "COD" is not properly introduced.. (chemical oxygen demand? And why this is relevant for a solar still?)
- Use past tenses for own work, e.g. Lines 87, 93, 207 "is" = "was", Line 182 "reaches" = "reached", Lines 186 and 186 "range" = "ranged".
- Line 126, why these variables were chosen? Temperature and salinity are "disturbance" parameters and not "operating" parameters.. Better is to evaluate what the effect of "operation" is on varying conditions..
- Line 129, delete sentence
- Line 136-137, not clear what is the rationale behind the "fast" and "slow" variation
- Line 141-142, indicate the make and type of equipment that is used
- Line 142-146, delete sentences
- Line 162, discuss in the context of other studies
- Line 243-246, delete sentences
- Line 253, explain figure 8a better and introduce x1, x2, x3..
- Line 255-256, the effect depends on the range that was chosen, so not a fair comparison..
- Line 257, delete sentence
- Line 258-260, delete sentence from "in contrast" onwards..
- Line 269, delete sentence
- Line 272-285, delete entire section (not relevant)
- Line 288, discuss the reason for pH reduction.
- Line 288-289, delete sentence
- Line 299-301, delete sentences
- Line 313-317, delete sentences
- Line 322-324, delete sentence