**Remarks and Suggestions for article MAJ-2021-211**

|  |  |  |
| --- | --- | --- |
| Line Number | Subjet | Remarks |
| 4 | In the abstract, “The correlation value ranges of 0.77, 0.52, and 0.71 for 2015, 2016, and 2017 had performed with respectively” | Does not convey the meaning and hence needs revision |
| 11 | Larson et al. | Has to be replaced as Larson and Peck as per the reference |
| 14 | On the other hand, to overcome the limitations of ground techniques (Pan *et.al*., 2014) | sentence is incomplete |
| 24 | However, for their accuracy assessment, satellite rainfall products need to be validated to uses further applications | needs further revision |
| 25 | Meng et al., 2014 | Missing reference |
| 26-28 | The number of studies has been analyzed in India, for validation and estimations of PERSIANN and other rainfall products were compared with observed rain-gauge data at a different scale (daily, monthly, seasonally, and annual). | Sentence needs to reframed |
| 28 | Prakash et al., (2014b) | Not matching with reference |
| 36 | Hence, it is important to compare the PERSIANN product with rain-gauge observations **for the widest applications of Tamil Nadu.** | Sentence needs to reframed |
| 38 | statistical indexes | Statistical indices |
| 39-40 | The period was selected because of the **high rainfall of annual precipitation receives over Tamil Nadu** during the NEM. | Sentence needs to be reframed |
| 53-54 | Finally, the accuracy of the PERSIANN was assessed using statistical analysis **against rain-gauge observations.** | Sentence needs to be reframed |
| 58 | **available data available** in multi-time scale from 2000 to present. | Sentence needs to be reframed |
| 59 | Hsu *et al*. 1997 | Missing reference |
| 64-69 | Along with PERSIANN data, tipping bucket based rain gauge measurements data were obtained for the same periods of three NEM (2015–17) from automatic weather network of Tamil Nadu Agricultural Weather Network (TAWN) is jointly maintained by Agro Climate Research Centre (ACRC), Tamil Nadu Agricultural University and Department of Agriculture, Tamil Nadu for the location of about 385 rain gauges across Tamil Nadu (<http://tawn.tnau.ac.in/General/HomePublicUI.aspx>). **We have selected** 118 rain gauge stations for the study period after the quality checking of rainfall data. | Lengthier sentences, Whole paragraph has to be reframed  Donot use phrases like “We have selected” |
| 88 | The correlation between the precipitation dataset for 2015, 2016, and 2017 had **performed** a high value of 0.77, 0.52, and 0.71, respectively, | Sentence needs revision |
| 100-101 | Table 1 compares the CC for PERSIANN product based on the different agro-climatic zones **reveals discrete differences with rain-gauge observations.** | Sentence needs revision |
| 110-111 | Estimates of precipitation from different satellites are less reliable because of weather system (Adler et al., 2003). | Discussion is not matching with the result |
| 115-116 | Generally, PERSIANN had overestimated **against to the rain gauge in the rainy seasons over India by Brown (2006**). | Sentence needs revision |
| 116-117 | For the entire study zones, RMSE revealed values in the range of 22.63–222.17 **on for all** the selected three seasons | Sentence needs revision |
| 121-122 | Moreover, the PERSIANN more **accurately capture the rainfall from rain gauge observations for all seasons.** | Sentence needs revision |
| 125-126 | **Therefore, the smallest error and greatest accuracy show during 2015.** | Sentence needs revision |
| 126 | **The stronger NRMSE value observed in all climatic zones** | Sentence needs revision |
| 127-128 | **NRMSE decreased with a temporal scale from 2015 to 2017.** | Sentence needs revision |
| 134-136 | **To determine the accuracy of PERSIANN satellite-based precipitation product was evaluated statistically (CC, RMSE, and NRMSE) by comparing the rain-gauge network data of TAWN at seasonal scale for seven agro-climatic zones in Tamil Nadu** | Sentence needs revision |
| 137-138 | **In particular, most of the agro-climatic zones were the values > 0.5 between 2015 and 2017.** | Sentence needs revision |
| 141-142 | **Overall, the error statistics such as RMSE and NRMSE showed that HAHZ performed better against TAWN gauge data.** | This conclusion is conceptually wrong |
|  |  |  |