Gmail Putu Aryastana <aryastanaputu@gmail.com>

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1 message

cs-author@wiley.com <cs-author@wiley.com> Fri, Sep 9, 2022 at 7:17 AM
To: aryastanaputu@gmail.com

Dear Putu Aryastana,

Your article Assessment of Satellite Precipitation Data Sets for High Variability and Rapid Evolution of Typhoon Precipitation Events in the Philippines in Earth and Space Science has the following publication status: Published Online

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1 message

cs-author@wiley.com <cs-author@wiley.com> Tue, Aug 9, 2022 at 3:56 PM
To: aryastanaputu@gmail.com

Dear Putu Aryastana,

Article ID: ESS21234
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Assessment of satellite precipitation datasets for high variability and rapid evolution typhoon precipitation events in the Philippines

Overall comment:

the manuscript is well-organised and -written, which is easy to follow, along with clear concept and elaboration. The authors assessed the ability three satellite-based precipitation products in estimating/detecting sub-daily heavy rainfall occurred durinh typhoon events. The study also considered in the analysis the influence of altitude and wind (direction and speed). The focus of the analysis is very interesting, especially because this type of evaluation (i.e., considering only typhoon events) has been little studied. In my opinion, the main issue of this manuscript is related to a better identification of the scientific gaps in the introduction section and, consequently the importance of the research to the scientific community, avoiding an extensive and detailed citations of published literature (study cases), detailing the results/findings one by one (e.g., number of gauges, river basin's name, time-period of study…). Therefore, my suggestion is for approval with moderate revison.

Specific comments:

L1: …evolution of typhoon?

L41-42: "…were assessed…"

L43: Obviously? Please, use another word.

L67: "The GSMaP dataset overestimated the gauge observations during…"

L70: "…whereas IMERG…"

L80: …according to certain…

L96: Monitoring the heavy rainfall caused by typhoons with conventional instruments (e.g., rain gauges) is difficult because their diameters range from 100 to 2000 km (Huang et al., 2019).

L110: Sufficiently?

L113: Orbital? Satellite-based?

L122-123: You can use references to support this statement (e.g., Freitas et al., 2020). https://doi.org/10.1016/j.jhydrol.2020.125128

L144: A "previous" study compared to which one? 2017 before 2015? Please, rewrite.

L135-172: Please, avoid extensive and detailed citations of published literature (study cases), detailing the results/findings one by one (e.g., number of gauges, river basin's name, time-period of study…). You could make all this paragraph much more concise to the reader, which gets a little bit lost with so much information (not so important to the main aim of the study, in my opinion).

L173-192: The same as the previous comment.

192-197: You use statements to say that no previous evaluations analysed the effects of terrain and wind velocity in detecting heavy rainfall (from satellite-based precipitation dataset) caused by typhoons. Based on what? You used old references (i.e., 2005 and 2013) to

“support” such statements. From L173 to L192 there is no mentioning/highlighting/linking to the scientific gaps. You need to be more convincing about the need to perform your study.

L212-213: You need to better highlight this information in the introduction section. Also, the heavy rainfall caused by typhoons, and the influence of terrain and wind velocity in the assessment analyses.

L214-220: The same. Avoid describing in the detail study cases and make the introduction section more direct to the point (scientific gaps and importance of your research to the scientific community).

L247-248: Better explain what you mean.

L314: JAXA, which means…?

L355: Provided by?

L361-362: Please, provide references to this statement.

L364: *u* and *v*, which means, respectively? Please, also provide unities.

L372: Which data did you use to anlyse the terrain’s influence? How did you do that? Please, better explain.

L377: was aggregated to...? In this case, you didn’t do any conversion.

L379-380: What you mean data points missing? Please, better explain.

L381-385: Based on some previous study? Please, provide reference(s).

L385-387: I believe that this is not a good idea. For instance, a rain gauge located at 999 m.a.l.s. will be in the same category as a station located at 5 m.a.l.s. but this elevation difference affects precipitation significantly. Conversely, the difference (physically speaking) between a station located at 999 will be no different from that located at 1,000 m. My suggestion is to categorise the elevation in groups, similarly to the analysis performed to divide the intensities and wind speeds.

L385-387: Where did you find the information about elevation?

L397: …, which include…

L422-424: Please, revise.

L438-443: unnecessary, in my opinion.

L452-456: Probably due to the version (5->6) or maybe because the characteristics of the study area? Please, discuss.

L459: …that the three…?

L458-463: Did you expect that the three SPDs presented the same behaviour? Why? This is not what previous studies evaluating more than one SPD show (see the examples below).

10.5194/hess-23-207-2019

10.1016/j.atmosres.2022.106259

10.5194/hess-25-3267-2021

10.1007/978-3-030-35798-6_9

10.1016/j.rse.2018.03.016

L465-466: This information is present in the previous sentence. Suggestion (L464): …, yielding positive and greater than 1 ME...

L466: …also overestimated…

L469: …events, except…

L476: slightly

Figure 4: A very good performance for sub-daily data when compared to other studies (a comment, only).

L546-548: The same result was also lrecently found by Ramos Filho et al. (2022).

10.1016/j.atmosres.2022.106259

L556: …mainly based on infrared data…?

L557: Replace “which” with “that”.

L577-580: It’s not clear to me why. Are you referring to the consideration of this dataset in the product’s algorithm? Please, better explain.

L599: …that was used…

L676-681: You need to be more concise in the introduction section and highlights the novelty of your study, similarly what you did in this part of the conclusion section (i.e., the importance of sub-daily evaluation of SPDs in detecting heavy precipitation caused by typhoon events). Please, see the comment

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AGU journal submission 2022EA002382R

1 message

earthspacescience@agu.org <earthspacescience@agu.org> Fri, Jul 1, 2022 at 12:56 AM
Reply-To: earthspacescience@agu.org
To: aryastanaputu@gmail.com

Dear Dr. Aryastana:

We would like to inform you that you have been listed as an author on manuscript 2022EA002382R, Assessment of satellite precipitation datasets for high variability and rapid evolution typhoon precipitation events in the Philippines, which has been submitted for possible publication in Earth and Space Science.

The corresponding author, Prof. LIU, has indicated that the submission has been made with the consent of all authors. Please note, manuscript communications are sent to the corresponding author. All authors may check the status of the manuscript at any time using this link:
https://earthandspacescience-submit.agu.org/cgi-bin/main.plex?el=A5JI6GhAK6B5HqJH5F3A9ftd5YkTj8s2U74B0VBANQsRwAZ

ORCIDS are required for all corresponding authors and strongly encouraged for coauthors.

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We appreciate your contribution to Earth and Space Science, and we will make every effort to efficiently and fairly handle your submission.

Sincerely,

Earth and Space Science Editorial Office