

History for Manuscript Number: JWC-D-21-00022

Dr.-Ing Suroso (INDONESIA): "DROUGHT DETECTION IN JAVA ISLAND BASED ON STANDARDIZED PRECIPITATION AND EVAPOTRANSPIRATION INDEX (SPEI)"

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Correspondence History

Correspondence Date ▲▼	Letter ▲▼	Recipient ▲▼	Revision ▲▼
22 May 2021	Journal Office Notification - Author Corrections	Production Editor	
18 May 2021	Proof to Author	Dr.-Ing Suroso	
04 May 2021	Journal Office Notification - Licence Agreement	Production Editor	
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29 Apr 2021	Editor Decision - Accept	Dr.-Ing Suroso	2
21 Apr 2021	None	Emma Buckingham	
20 Apr 2021	Author Submits Revision Confirmation	Dr.-Ing Suroso	2
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20 Apr 2021	PDF Built and Requires Approval	Dr.-Ing Suroso	2
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Date: 19 Jan 2021
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From: "Journal of Water and Climate Change" jwc@iwap.co.uk
Subject: Your PDF DROUGHT DETECTION IN JAVA ISLAND BASED ON STANDARDIZED PRECIPITATION AND EVAPOTRANSPIRATION INDEX (SPEI) has been built and requires approval

Dear Dr Suroso,

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Subject: Submission Confirmation for DROUGHT DETECTION IN JAVA ISLAND BASED ON STANDARDIZED PRECIPITATION AND EVAPOTRANSPIRATION INDEX (SPEI)

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Dear Dr Suroso,

Your submission "DROUGHT DETECTION IN JAVA ISLAND BASED ON STANDARDIZED PRECIPITATION AND EVAPOTRANSPIRATION INDEX (SPEI)" (JWC-D-21-00022) has now been reviewed. You will see from the reviewers' comments below that they recommend that you revise your submission. If the reviewers have uploaded any extra files for your reference, you can view them by logging in to Editorial Manager, opening the Submissions Needing Revision folder and clicking on 'View Reviewer Attachments'.

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Sincerely yours,

K.W. Chau, Ph.D.
Editor
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Reviewers' comments:

Reviewer #1:

1. Although the language is generally readable, some grammatic errors can be seen. Carefully check the text and correct the errors.
2. Section Study Location contains only one sentence. I suggest adding more information about the hydrological and meteorological characteristics to this part.
3. In the Section Methodology, what do the notations represent in these equations?
4. For the Section Drought Classification: It is a bit weird to have a paragraph with a single sentence.
5. Fig. 4, the figure contains two Points: Point-30 and Point-155, but the caption only includes Point-155.
6. As I understand, the value of SPEI and SPI ranges from -3 to 3. However, in the Section Drought Frequency Values, "it can be seen that at the moderate drought frequency the lowest SPEI value is 8.01%, while the highest is 9.40%. For the highest SPI value was 9.09% and the lowest was 7.66%." The description is very confusing. The same problem can be found in the whole section. I think the 8.01% and 9.4% refers to the drought frequency, but the current description does not mean it. Please make this part clearer. For figure 9, the Y-axis means a percentage, (%) should be added to the name of Y-axis.

Reviewer #2:

- (1) The abstract need to rewrite. The abstract is tedious to clarify the method and data. You should clarify your results in this section, your result parts is well written, you should put some important results in abstract section.
- (2) Line 38-42 in introduction section, the discussion is wrong. The SPI and SPEI research are almost all large spatial and long temporal resolutions. Furthermore, this point is not your contributions, you should clarify your contribution according to your research results. you should focus on how to find the suitable indices in the JAVA island.
- (3) Study location is simple. You should add some descriptions about the climatic situation.

(4) Temporal Variation of SPI and SPEI Value section, only the 1-month time scale SPI and SPEI are compared, what about the 3- 6- 12- month time scale?

(5) Line 170-174. some words need accurately and scientifically clarify. "no significant difference" "significant difference" "at some time", It needs to be proved by accurate numerical value.

(6) Line 192. the results of our research contradict with (Gurrapu et al. 2014), you should discuss the reason.

(7) Format of this paper should modify according to the instructions for authors.

(8) Need thorough wordsmithing and language editing in the manuscript.

Reviewer #3:

1. The Abstract must be revised, when authors say both models what does this mean? The methodology should be mentioned shortly and main results should be elaborated in details.

2. In Introduction section it is not clear why drought analysis should be performed for the said study area? Authors have not discussed any historical drought activities for the study area.

3. The authors used globally free available data for the study area however the better performance of these data sources have not been justified with gauge data and even no literature study has been cited to justify this selection.

4. Abbreviations must be explained at the first use.

5. There are different drought index to evaluate the drought why authors only used two methods?

6. Degree of drought in future can be predicted by using Hurst index value it is suggested to include degree of drought in future. Following literature study can be reviewed in this regard:

Identifying the Annual and Seasonal Trends of Hydrological and Climatic Variables in the Indus Basin Pakistan.

7. Discuss a research agenda that provides new insights into what specifically would need to happen to make studies such as this more suitable for decision makers.

8. Conclusion does not provide any novel findings please elaborate novelty of your work in conclusions.

Reviewer #4:

Major concern:

Please explain more information on Figure 2 such as how drought is defined, what time scale, over how many areas and so on. For example, is it correct that there are 285 drought events in 2018 alone.

It is better to describe the weather and climate of Java island.

It is better to describe how Java island is divided into different regions or cities as shown in Result Table 3.

Please define 'dry month' and how about wet month, hot month and cold month (if any) for Java Island and its cities since temperature is used to correlate SPI and SPEI.

The precipitation data is on scale 50x50 km while the evaporation data is on scale 25x25 km. Please explain how to combine them to calculate SPEI and for each city of Table 3.

The precipitation and evaporation data are on daily scale while the SPEI and SPI is calculated on monthly scale. Please explain how monthly value is derived from daily value.

Please conduct statistical test to check the fitness of data against the probability distribution since the recommended the gamma distribution by Stagge et al. 2015 for SPI might not be suited for the case study of Java Island. This is because the result Table 3 shows that significant difference between DIBI drought events with SPI and SPEI is found in several cities such as Garut and Sumedang.

Minor concern:

X and λ in equation 1 and 2 are not defined

n in equation 2 is not defined

Page 4, line 105: Please explain why 'But this method causes problems because it gives the maximum SPI value'

Page 4, line 106-108: the sentence is not clear for understanding, " Therefore, (Stagge et al. 2015) in their study provided a solution by making the SPI value maintaining statistical interpretability by using zero precipitation based on the "center of mass"

Page 4, line 113-114: the statement does not make sense, "to convert climate water balance accumulation into a standard normal distribution".

Parameters of equation 3 and 4 need to be defined.

Page 5, line 126 PET is not defined.

Page 5, line 129, climate water balance is not defined and the whole sentence is not clear for understanding.

It is not clear if SPEI is calculated using climate water balance D as defined in Equation 5. Please confirm.

Please ensure that parameters of all equations need to be defined.

Page 6, Line 155, the sentence does not make sense.

Reviewer #5:

While the language of the article is overall good, I suggest the article gets reviewed by a native English language person or someone who is proficient. There are some typing and grammar mistakes should be corrected during reviewing the language:

I wonder if there are any criteria for selecting gamma distribution to calculate the SPI. Also, GEV distribution was recommended when calculating SPEI, it is better to explain why?

The abstract and the conclusion are needed to be more informative for the research outcomes, numbers for the comparisons and the significant of the work.

Figure (4), the legend is not clear and the Fig. title includes only one-point ID 155. What about point-30?

Figure (5), the title is not clear, even the figure itself

Reviewer #6:

1. The manuscript presents drought detection in Java Island based on standardized precipitation and

evapotranspiration index, which is interesting. It is relevant and within the scope of the journal.

2. However, the manuscript, in its present form, contains several weaknesses. Appropriate revisions to the following points should be undertaken in order to justify recommendation for publication.
3. Full names should be shown for all abbreviations in their first occurrence in texts. For example, SPI in p.1, BNPB in p.1, GDP in p.2, PUPR in p.2, etc.
4. For readers to quickly catch your contribution, it would be better to highlight major difficulties and challenges, and your original achievements to overcome them, in a clearer way in abstract and introduction.
5. It is shown in the reference list that the authors have several publications in this field. This raises some concerns regarding the potential overlap with their previous works. The authors should explicitly state the novel contribution of this work, the similarities and the differences of this work with their previous publications.
6. p.1 - Standardized Precipitation and Evapotranspiration Index is adopted to determine the spatial and temporal level of drought risk. What are other feasible alternatives? What are the advantages of adopting this approach over others in this case? How will this affect the results? The authors should provide more details on this.
7. p.1 - historical records of 1981 to 2018 are taken. Why are more recent data not included in the study? Is there any difficulty in obtaining more recent data? Are there any changes to situation in recent years? What are its effects on the result?
8. p.1 - SPI is adopted as benchmark for comparison. What are the other feasible alternatives? What are the advantages of adopting this index over others in this case? How will this affect the results? More details should be furnished.
9. p.1 - monthly to yearly are adopted for time scales. What are the other feasible alternatives? What are the advantages of adopting these time scales over others in this case? How will this affect the results? More details should be furnished.
10. p.1 - Pearson correlation is adopted to see how similar both models are. What are other feasible alternatives? What are the advantages of adopting this approach over others in this case? How will this affect the results? The authors should provide more details on this.
11. p.1 - the Coefficient Correlation and the Kolmogorov-Smirnov test are adopted for the similarity test of two kinds of distributions. What are the other feasible alternatives? What are the advantages of adopting these techniques over others in this case? How will this affect the results? More details should be furnished.
12. p.3 - Java Island is adopted as the case study. What are other feasible alternatives? What are the advantages of adopting this case study over others in this case? How will this affect the results? The authors should provide more details on this.
13. p.7 - "...Because SPEI uses these two indicators by reducing rainfall with evaporation while SPI only uses rainfall, it results in SPEI having a lower value than SPI...." More justification should be furnished on this issue.
14. p.7 - "...research contradict with (Gurrapu et al. 2014)... probably due to...." More justification should be furnished on this issue.
15. p.9 - "...it turns out that SPEI has a significantly higher value than the SPI value. The difference in value may be due to...." More justification should be furnished on this issue.
16. Some key parameters are not mentioned. The rationale on the choice of the set of parameters should be explained with more details. Have the authors experimented with other sets of values? What are the sensitivities of these parameters on the results?
17. Some assumptions are stated in various sections. Justifications should be provided on these assumptions. Evaluation on how they will affect the results should be made.
18. The discussion section in the present form is relatively weak and should be strengthened with more details and justifications.
19. Moreover, the manuscript could be substantially improved by relying and citing more on recent literatures about contemporary real-life case studies of modelling techniques in hydrological prediction such as the followings:
Zhao, C.P., et al., "Drought Monitoring of Southwestern China Using Insufficient GRACE Data for the Long-term Mean Reference Frame under Global Change," *Journal of Climate* 31 (17): 6897-6911 2018.
Shamshirband, S., et al., "Predicting Standardized Streamflow Index for Hydrological Drought Using Machine Learning Models," *Engineering Applications of Computational Fluid Mechanics* 14 (1): 339-350 2020.
Ghorbani, M.A., et al., "Forecasting pan evaporation with an integrated Artificial Neural Network Quantum-behaved Particle Swarm Optimization model: a case study in Talesh, Northern Iran," *Engineering Applications of Computational Fluid Mechanics* 12 (1): 724-737 2018.
20. Some inconsistencies and minor errors that needed attention are:
Replace "...the Coefficient Correlation and the Kolmogorov-Smirnov test is used..." with "...the Coefficient Correlation and the Kolmogorov-Smirnov test are used ..." in lines 28-29 of p.1
Replace "...developed by (McKee et al. 1993) and..." with "...developed by McKee et al. (1993) and..." in line 89 of p.4
Replace "...comparisons (Stage et al. 2015) recommends the..." with "...comparisons, Stagge et al. (2015) recommended the..." in lines 118-119 of p.5
Replace "...In the figure 4..." with "...In Figure 4..." in line 170 of p.6
21. In the conclusion section, the limitations of this study, suggested improvements of this work and future directions should be highlighted.

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Journal of Water and Climate Change

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Emma Buckingham
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Dear Madam/Sir,

Yes, I confirm that all emails are correct and all co-authors have verified.

Best regards,
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K.W. Chau, Ph.D.
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Reviewers' comments:

Reviewer #1:

Thanks to the authors for considering most of my suggestions in their revision. However, for my question 6, the answer is not satisfactory. The current clarification is still confusing. It seems that the value of SPI or SPIE only range from -3 to -1, but in figures 4,5,6, they certainly range from -3 to 3. Besides, all the percentage values have been changed, why? Were they wrong in the first submission?

Reviewer #2:

For the revised manuscript, I still have the following 2 concerns:

1/ The authors stated at page 4 lines 117-120 that 'Moreover, the data from Global Precipitation has a grid resolution of $0.5^\circ \times 0.5^\circ$. Since the grid size for precipitation is different from the evaporation grid size ($0.25^\circ \times 0.25^\circ$), the precipitation grid size was converted into the evaporation grid size first.' This statement does not make sense to me since there is no ground to convert large grid scale to smaller grid scale. I think the smaller grid scale can be converted into larger grid scale by taking average value as a simple way. The authors need to explain clearly how two scales are matched.

2/ The fitness test for the gamma distribution of SPI is not conducted with the particular data of their study. Also the fitness test for the GEV distribution of SPEI is not conducted.

I have no problem that the choice of statistical distribution can be based on previous studies such as Stagge et al. 2015 as specified by the authors. However, the fitness test should be conducted for the selected distribution to ensure the validity.

I think there is enough sample data to conduct fitness test for statistical distribution in their study. Without fitness test, the results and conclusions of their study could be in question.

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Date: 29 Mar 2021
To: "K.W. Chau" cekwchau@polyu.edu.hk
From: "Dr.-Ing Suroso" surososipil@gmail.com
Subject: General communication from Dr Suroso

Dear %Dr% %Chau%

re manuscript number: JWC-D-21-00022R1

[I am still preparing the second revision of our manuscript entitles "ROUGH DETECTION IN JAVA ISLAND BASED ON STANDARDIZED PRECIPITATION AND EVAPOTRANSPIRATION INDEX (SPEI)".

I am writing to request a deadline extension on the manuscript revision.

I would be happy if I could submit the second revision on Monday, April 5th of 2021 at the latest.

I apologize for the delay and thank you very much for your great consideration.]

With Best Wishes,

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Date: 20 Apr 2021
To: "Dr.-Ing Suroso" surososipil@gmail.com
From: "Journal of Water and Climate Change" jwc@iwap.co.uk
Subject: Your PDF DROUGHT DETECTION IN JAVA ISLAND BASED ON STANDARDIZED PRECIPITATION AND EVAPOTRANSPIRATION INDEX (SPEI) has been built and requires approval

Dear Dr Suroso,

The PDF for your submission "DROUGHT DETECTION IN JAVA ISLAND BASED ON STANDARDIZED PRECIPITATION AND EVAPOTRANSPIRATION INDEX (SPEI)" is ready for viewing.

This is an automatic e-mail. You may have already viewed and approved your PDF while on-line, in which case you do not need to return to view and approve the submission.

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With Best Wishes,

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Date: 20 Apr 2021
To: "Dr.-Ing Suroso" surososipil@gmail.com
From: "Journal of Water and Climate Change" jwc@iwap.co.uk
Subject: Please confirm that all co-authors have verified for manuscript JWC-D-21-00022R2



Ref.: Ms. No. JWC-D-21-00022R2
DROUGHT DETECTION IN JAVA ISLAND BASED ON STANDARDIZED PRECIPITATION AND EVAPOTRANSPIRATION INDEX (SPEI)
Journal of Water and Climate Change

Dear Dr Suroso,

Thank you for submitting your revised paper back to Journal of Water and Climate Change. Please can you now ensure that all of your co-authors have verified that they worked on this paper. Your listed co-authors have been sent an automated message using the email addresses that you included during the submission process which contains a link for them to click on to confirm that they are a co-author.

Please log in <https://www.editorialmanager.com/jwc/> to ensure that they have completed their verification. You can find your paper via the Author Main Menu in the "**Revisions Being Processed Folder**". From there please click on the Action Link: "**Author Status**", a new screen will open up detailing which authors have verified and whether any have yet to respond.

1. If all co-authors have completed the co-author verification, then please then go to the "**Current Task folder**" and confirm that all authors have confirmed.
2. If any co-authors have not yet completed the co-author verification, please contact them now to ask them to do so. If they did not receive our initial message **reply directly to this email** so that we can resend the link to them. When they have received and responded to the verification request, please follow step 1 above.

Please ensure all co-authors have verified their co-authorship now to avoid publication delays should you paper be accepted. If you have any questions regarding the verification process, please reply to this email.

With kind regards

Emma Buckingham
IWAP Admin
Journal of Water and Climate Change

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Date: 20 Apr 2021
To: "Dr.-Ing Suroso" surososipil@gmail.com
From: "K.W. Chau" cekwchau@polyu.edu.hk
Subject: Submission Confirmation for JWC-D-21-00022R2

Dear Dr Suroso,

Journal of Water and Climate Change has received the revised version of your submission, "DROUGHT DETECTION IN JAVA ISLAND BASED ON STANDARDIZED PRECIPITATION AND EVAPOTRANSPIRATION INDEX (SPEI)" (ref: JWC-D-21-00022R2).

You may check the status of your submission by logging into Editorial Manager as an author.

The URL is:
<https://www.editorialmanager.com/jwc/>.

Sincerely yours,

Journal of Water and Climate Change
IWA Publishing

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Date: 21 Apr 2021
To: "Emma Buckingham" ebuckingham@iwap.co.uk
From: "Dr.-Ing Suroso" surososipil@gmail.com
Subject: Co-author verification

Dear Ms. Emma Buckingham,

I would like to confirm that all emails are correct and all co-authors have verified.

Best regards,
Suroso

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Date: 29 Apr 2021
To: "Dr.-Ing Suroso" surososipil@gmail.com
From: "K.W. Chau" cekwchau@polyu.edu.hk
Subject: Your Submission JWC-D-21-00022R2 has been accepted for publication

Dear Dr Dr.-Ing Suroso,

I am pleased to tell you that your submission "DROUGHT DETECTION IN JAVA ISLAND BASED ON STANDARDIZED PRECIPITATION AND EVAPOTRANSPIRATION INDEX (SPEI)" (JWC-D-21-00022R2) has now been accepted for publication in Journal of Water and Climate Change.

It was accepted on 29 Apr 2021.

You will hear from IWA Publishing soon regarding the publication of your paper.

Thank you for submitting your work to Journal of Water and Climate Change.

Sincerely yours,

K.W. Chau, Ph.D.
Editor
Journal of Water and Climate Change
IWA Publishing

In compliance with data protection regulations, you may request that we remove your personal registration details at any time. (Use the following URL: <https://www.editorialmanager.com/jwc/login.asp?a=r>). Please contact the publication office if you have any questions.

Date: 30 Apr 2021
To: "K.W. Chau" cekwchau@polyu.edu.hk
From: "Dr.-Ing Suroso" surososipil@gmail.com
Subject: General communication from Dr.-Ing Suroso

Dear Prof K.W. Chau, Ph.D,

re manuscript number: JWC-D-21-00022R2

I am very happy to hear that our manuscript has been accepted for publication in the Journal of water and climate change. I know that there is a Processing Charge for the publication in the amount of 1859 USD. I would like to know whether I am eligible to apply for the waiver or the discounts. Thank you very much for your great consideration.

Best regards,
Suroso

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Date: 04 May 2021
To: "Dr.-Ing Suroso" surososipil@gmail.com
From: "Journal of Water and Climate Change" jwc@iwap.co.uk
Subject: Your accepted submission JWC-D-21-00022R2

MS: JWC-D-21-00022R2

Title: "DROUGHT DETECTION IN JAVA ISLAND BASED ON STANDARDIZED PRECIPITATION AND EVAPOTRANSPIRATION INDEX (SPEI)"

Dear Dr Suroso,

I am pleased to inform you that I have received your accepted paper into the Journal of Water and Climate Change production system.

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Yours sincerely

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Date: 04 May 2021
To: "Dr.-Ing Suroso" surososipil@gmail.com
From: "Journal of Water and Climate Change" jwccpm@iwap.co.uk
Subject: Author Notification of Production Tasks for JWC-D-21-00022R2

Dear Dr Suroso,

Your paper DROUGHT DETECTION IN JAVA ISLAND BASED ON STANDARDIZED PRECIPITATION AND EVAPOTRANSPIRATION INDEX (SPEI), ref: JWC-D-21-00022R2 was recently accepted by Journal of Water and Climate Change.

We are now processing your paper for publication, and need you to log in using this link: *****

This will take you to your Current Task Assignment where you should use the action link "[Submit Task](#)" to provide the following information:

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3) Please ensure that the Co-Author Verification Task has been completed, if not already in order to prevent delays to the production process.

You must complete this task within two days in order for the production process to proceed. Please complete the task in the system, there is no need to email files to the Production Team. Please contact us directly only if you are having a problem with using the system.

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Date: 04 May 2021
To: "Production Editor" journalproduction@iwap.co.uk
From: "Journal of Water and Climate Change" jwc@iwap.co.uk
Subject: Author has submitted their Licence Agreement JWC-D-21-00022R2

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Dear Journals Editor,

The authors have submitted the Licence Agreement task for the paper DROUGHT DETECTION IN JAVA ISLAND BASED ON STANDARDIZED PRECIPITATION AND EVAPOTRANSPIRATION INDEX (SPEI), accepted by Journal of Water and Climate Change.

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Date: 18 May 2021
To: "Dr.-Ing Suroso" surososipil@gmail.com
From: "Journal of Water and Climate Change" jwccpm@iwap.co.uk
Subject: Proof of your paper JWC-D-21-00022R2

MS: JWC-D-21-00022R2

Title: "DROUGHT DETECTION IN JAVA ISLAND BASED ON STANDARDIZED PRECIPITATION AND EVAPOTRANSPIRATION INDEX (SPEI)"

Dear Dr Suroso,

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