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to masyanto79

Manuscript Number: SDATA-16-00186

Manuscript Title: Development of A Gridded Meteorological Data Set over the Java Island, Indonesia 1985 - 2014

Corresponding Author: Dr Yanto

Dear Dr Yanto,

Thank you for submitting your Data Descriptor entitled "Development of A Gridded Meteorological Data Set over the Java Island, Indonesia 1985 - 2014".

Your submission has been assigned a tracking number of SDATA-16-00186. Please quote this tracking number in all correspondence.

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and/or background rainfall estimates. The accuracy of these new estimates can be compared to the IDW-only data use

of an appropriate background can help overcome sampling bias, such as when high elevation areas are undersampled, leading to an overestimate of precipitation or temperature. Also, since the station network varies substantially over time (Fig. 1), when interpolating without a background.

There are different interpolation techniques that use other predictors such as elevation, latitude, etc that help in the interpolation. One seminal reference on this approach is Willmott and Matsuura (1995). Worldclim provides suitable high resolution precipitation.

The authors might also consider the use of time-varying precipitation estimates as background fields. The MSWEP support hydrologic simulation, might be suitable background fields. These could be resampled to a 0.125 degree resolution and CHIRPS+IDW would be interesting, and help assure the reader that the resulting selected approach was the ‘

See below:

Willmott, C. J. & Matsuura, K. Smart interpolation of annually averaged air temperature in the United States. Journal of Climate, 2002, 15, 1302–1317.  
Beck et al. 2016, MSWEP: 3-hourly 0.25 degree global gridded precipitation, HESSD.

Funk, C. et al. (2015) A global satellite assisted precipitation climatology. Earth Syst. Sci. Data Discuss 7, 1–13 (2015).  
Funk, C et al. (2015) The Climate Hazards Group Infrared Precipitation with Stations, Scientific Data

2) The validation procedure needs to be more robust. The comparison to the closest interpolated grid cell does not provide a good baseline. Also, take-one-away validation will tend to overstate the accuracy of the interpolation process, because stations tend to be more informative to take a random sample (15%?), or samples, of the stations out beforehand, then estimate the parameter. The relative skill of IDW-plus-different backgrounds could be evaluated. As opposed to the current approach, at these held-out locations could be provided. Maps and error statistics for different IDW+background combination

3) It would be good to see a more complete and expanded discussion of the streamflow-rainfall comparisons – although the figure really helps the paper. Specifically, it would be great to see the basin boundaries overlain on a high resolution precipitation map figure or two. Again, contrasting results for IDW-only and IDW+background might prove informative. Does inclusion of elevation help? The authors please discuss what happened in CT basin in 1994 and 1995? Why is streamflow so much lower than P in



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Manuscript Number: SDATA-16-00186

Manuscript Title: Development of A Gridded Meteorological Data Set over the Java Island, Indonesia 1985 - 2014

Corresponding Author: Dr Yanto

Dear Dr Yanto,

Your manuscript entitled "Development of A Gridded Meteorological Data Set over the Java Island, Indonesia 1985 - 2014" has been accepted for publication. Your comments are appended below. As you will see, the referees find your Data Descriptor of interest, but they raise some concerns before this work would be appropriate for publication at Scientific Data.

Based on the recommendation of the handling Editorial Board member, we therefore invite you to revise and resubmit your manuscript. Please supply a detailed point-by-point response to the referees' comments, describing how you have addressed the concerns raised.

As a matter of course, we ask that you ensure your manuscript complies with our format requirements explained in our <http://www.nature.com/scientificdata/for-authors/submission-guidelines/>.

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- Please ensure that each figure legend begins with a short title, which does not include panel references.

- Please ensure that your Data Citations comply to our formatting guidelines, explained in detail in our latest manuscript dataset in the text as "(Data Citation 1)" and remove reviewer links from the text.

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to me

Manuscript Number: SDATA-16-00186A

Manuscript Title: Development of A Gridded Meteorological Dataset over the Java Island, Indonesia 1985 - 2014

Corresponding Author: Dr Yanto

Dear Dr Yanto,

Thank you for submitting your revised manuscript to Scientific Data. Before proceeding with the review process you need to ensure compliance with journal style. We ask that you please address the following issues that were identified before we can accept your manuscript for publication.

1. Please ensure that your references are in Nature format. See our submission guidelines for examples: <http://www.nature.com/scientificdata/submit>
2. Please ensure that all figures have a title and legend included at the end of the manuscript. The title should not exceed 100 characters.
3. In the Code Availability and Data Records sections please replace the Dryad URL given in each case with a reference to any of our previously published data descriptors.
4. In line with journal policy on the matter we ask that you remove mention of the editor and reviewers from the Acknowledgements section.
5. Please remove the template sentence from the beginning of the Data Citations section.
6. Data Citation 1 should be formatted according to the guidelines given at <http://www.nature.com/scientificdata/publishing>. The Dryad should be included here.
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Dear Dr Yanto,

Thank you again for submitting your Data Descriptor, "Development of A Gridded Meteorological Dataset over the consideration at Scientific Data. Your manuscript is now entering the final evaluation stage, and in anticipation that we have performed a series of final checks to ensure that the production process may proceed as rapidly as possible address the following formatting issues:

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Please submit your finalised files by email to the editorial office at [scientificdata@nature.com](mailto:scientificdata@nature.com), clearly stating the m the subject header. We hope to be able to render a decision on your paper in the very near future.

We look forward to hearing from you and if you have any queries please do not hesitate to contact us.

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to me, Scientific

Dear Yanto,

Many thanks for returning this revised manuscript. I will update your submission with the new version and we l

Best regards,

Joe

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**Joe Salter**

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Joe Salter (on behalf of Andrew Hufton)

Senior Publishing Assistant

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The Editorial Board Member for this manuscript was Chris Funk.

Comments from the Editorial Board Member:

The authors have done a thorough job of addressing the reviewers' comments, and should be commended for their making a compelling case that their approach is well-justified. I recommend that this revised paper be accepted for publication.

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**Scientific Data** [scientificdata@nature.com](mailto:scientificdata@nature.com) [via](#) hermes2-dord.springernature.com

to me, Scientific

Dear Yanto,

I am writing just to check in regarding the waiver that you have applied for. Do you have any further updates?

Many thanks,



**Mas Yanto** <[yanto@unsoed.ac.id](mailto:yanto@unsoed.ac.id)>

to Scientific

Dear Joe,

I have not heard any update from them. Give me one more week to decide whether I will continue with the waiver

Thanks,

Yanto



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Dear Dr Yanto,

In addition, please could you provide a DOI for reference 8, as I would like to include this as an associated article ' that your Journal of Hydrology article will appear in the right hand side of the published Data Descriptor as Associ

Many thanks,  
Varsha

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Dear Dr Yanto,

As you may know, Scientific Data provides full structured metadata records to document the provenance, manner the datasets linked to our Data Descriptors. In order to begin creation of these metadata records, please could you included in the study and depicted in Figure 1. The table headings should be:

- Station Name or Number (i.e. the unique identifier for each station)
- Regional Location (i.e. East Java, Central Java, West Java, etc)
- Latitude (in degrees)
- Longitude (in degrees)
- Type of data collected (precipitation, temperature)
- Source of each station (as per the sources declared in Table 2)
- Time period included in the study (the data collection time frame, of the data that has been included in the study)

I hope this is all clear and straightforward, but please let me know if you have any concerns.

Kind regards,

Varsha

\*\*\*\*\*

Varsha Khodiyar, PhD  
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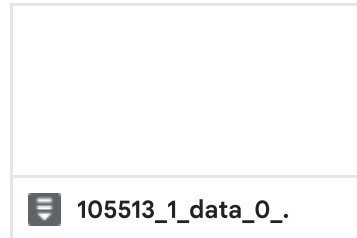
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**Mas Yanto** <yanto@unsoed.ac.id>

to Scientific, Varsha

Dear Varsha,

Thank you for finishing my metadata promptly. I have no more concern on the metadata.

Kind Regards,

Yanto

--

Yanto, Ph.D

Assistant Professor

Civil Engineering Department

Jenderal Soedirman University

Jl. Mayjen Soengkono KM. 5 Blater Purbalingga, Jawa Tengah, Indonesia, 53371





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Thank you.

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Assistant Professor

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Yanto Yanto <yanto@unicef.org>  
to Sam,, JProd1, scidata\_production

Dear Sam,

Thank you for reconfirming this. I believe that I have no further corrections on the main article.

Thank you.  
Kind regards,  
Yanto

On 5/8/17, Davis, Sam, Macmillan <[Sam.Davis@nature.com](mailto:Sam.Davis@nature.com)> wrote:

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>

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> Please let me know if you have any questions. I look forward to hearing from  
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Dear Dr Yanto,

We are pleased to announce that your Data Descriptor has been scheduled for online publication in Scientific Data. Your data will be freely available online at <http://www.nature.com/scientificdata>.

Please let us know as soon as possible if you or your institution is planning any publicity for your research so that we can help you reach a wider audience. We will also notify you in the unlikely event of any changes to the publication date.

We encourage you to take some simple steps that can help extend the reach and impact of your paper. Learn how to promote your paper through the use of social media and online communities by visiting our [Facebook page](#) and you can follow us on Twitter.

Thank you once again for your support of Scientific Data.

Best wishes,

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