



Shazlyn Milleana Shaharudin <shazlyn@fsmt.upsi.edu.my>

Reviewer Invitation for Identification of trend and changes point of wet and dry events in Mamminasa region of South Sulawesi, Indonesia

1 message

K.W. Chau <em@editorialmanager.com>

Mon, Nov 18, 2019 at 2:03 PM

Reply-To: "K.W. Chau" <cekwchau@polyu.edu.hk>

To: Shazlyn Milleana Shaharudin <shazlyn@fsmt.upsi.edu.my>

Dear DR Shaharudin,

I invite you to review a submission for Journal of Water and Climate Change. The submission is entitled "Identification of trend and changes point of wet and dry events in Mamminasa region of South Sulawesi, Indonesia" (manuscript number: JWC-D-19-00245). Your due date, should you accept the review, will be 30 days from your confirmation. I hope that you can review this manuscript for me.

This is the abstract:

This study objectives are to investigate trend and change point year of very wet/dry frequency (FVW, FVD) and the maximum very wet/dry duration (DVW, DVD) in Mamminasa region of the period 1988-2017. Determining both very wet/dry conditions based on the standardized precipitation index. Data are collected from 16 rain gauge stations. The trend in time series of four indicators was detected with the Mann-Kendall test. Moreover, the trend free pre-whitening approach was also used to remove the influence of serial correlation. The CUSUM test was applied to identify the existence of the mean change point. The study results revealed that every indicator shown decreasing significant trends for all stations except at G2, G4, G5 and G6 stations for the FVW indicator as well as at G2 and G6 stations for the DVW indicator. Results also found that significant change points of the FVW and DVW indicators were investigated in 2009 at Maros regency, while 2007 to 2009 at Gowa regency.

Meanwhile, significant change points of the FVD and DVD indicators were found in 1998 and 2006 at Makassar city and around 1998 and 2000-2001 at Gowa regency. This study results could be valuable information for planning and managing water resources.

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Sincerely yours,

K.W. Chau, Ph.D.

Editor

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