

Recap

In Section 2 the author wants to give a quick description of the data she is using, clarifying some of the assumptions she made. In Section 3 the author wants to describe the models she used for performing the analysis. She starts with a small introduction for all the methods and then she further discuss each one in its subsection.

Comments

I think the paper is well structured: nice idea to give a subsection to each method.

I made a lot of comments on the paper because I don't have any interactive app to modify the pdf. Some of them are more specific of the language, some others are more structural, but all of them are based on my level of understanding so please consider only those you find valueble.

Other comments:

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I would suggest a slightly different structure for defining the SIR model. You define it by the three differential equations and you start by describing them one by one. I would display all of equations with numbers so that you can recall the numbers when you put the set of equations together. It's easier to recall them saying something like "Combining eq (1)-(2)-(3) the SIR model can be defined by the set of differential equations...".

Also, about the first equation you specify the proportionality constant β and I would probably rewrite the equation as equality.

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I don't know what to suggest about the model that models mosquito population. It seems that you don't have enough data and you won't provide results for that, so it might be worth mentioning but not giving many details.