

## ***Interactive comment on “Consideration of NDVI Thematic Changes on Density Analysis and Floristic Composition of Wadi Yalamlam, Saudi Arabia” by Amal Y. Aldhebiani et al.***

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Dear Authors, I am sending you my comments regarding the submitted manuscript.

General comments The topic of the manuscript Consideration of NDVI Thematic Changes on 1 Density Analysis and Floristic Composition of Wadi Yalamlam, Saudi Arabia is within the scope of the journal. The title clearly reflects the content of the paper. The aim of the research is to study the vegetation cover in Wadi Yalamlam, Saudi Arabia, using different aspects like species richness, life form and biodiversity in relation to the habitat change in the study area. The paper describes the implementation of Normalized Difference Vegetation Index for assessing the status of the vegetation

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cover. The introduction provides a generalized background of the topic concerning the investigation of the vegetation during the years. The abstract summarizes the described work and gives accurate information about the article. The chapter Materials and methods describes the work methodology in detail as it is supported with figures and formulas. Obtained results are well discussed as species richness and species diversity are also presented in figures and images. In the conclusion part authors point out high species diversity in different plant growth forms and significant variation in term of Normalized Difference Vegetation Index and the species richness indices. On this basis they gave recommendations like restoration, rehabilitation and monitoring of the area in order to maintain the species diversity. The article is well structured with all the necessary parts for such kind of a scientific work. It gives also an opportunity for developing the topic with further investigations and analyses which can enrich the data with more information. Specific comments 1. The first paragraph in the introduction section could be replaced because it fits more for the part of the study area. 2. The role of NDVI in the current research should be explained in detail. 3. In order to clarify the process you could draw a working flow or analysis chart should. 4. In page 20 lines 30-31 could be moved to the end of the conclusion as it is a recommendation for a future work. 5. The caption of Figure 1 please write Location of Wadi Yalmlam instead of (study area). Technical corrections 1. Please revise all the references according to the journal rules. As it will be easier for you I am sending the manuscript as an attached file with all the references that have to be corrected.

As a final opinion, I highly recommend this article for publishing, after taking into consideration the above mentioned comments.

Yours sincerely, Silvena Boteva

Please also note the supplement to this comment:

<https://www.geosci-instrum-method-data-syst-discuss.net/gi-2018-30/gi-2018-30-RC5-supplement.pdf>

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