Solid Earth

Discussions

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Interactive comment on "Vegetation Cover Change Detection and Assessment in Arid Environment Using Multi-temporal Remote Sensing images and Ecosystem Management Approach" *by* Anwar Abdelrahman Aly et al.

Anonymous Referee #2

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Dear respective authors

Thank you for your discussions about the NDVI image.

After deep reviewing of the literature for NDVI calculation I suggest the following modifications for the remote sensing part. Since NDVI is a calculated index, you do not need to prove the accuracy of the results you get. This will increase the scientific value of your good research.

Remove the last sentence of section 2.4, and replace it with the following: âĂć The NDVI images could be classified into three classes, namely dense vegetation cover

(NDVI > 0.5), moderate vegetation cover (NDVI 0.25 − 0.5), and sparse vegetation cover (NDVI < 0.25), as shown in Fig (4).

Section 2.5 should be removed completely

Section 2.6 becomes 2.5

N.B. you can choose different threshold values other than these values, according to the literature you have.

N.B. you can add the area of each vegetation class, for each satellite image date in a table to show the changes in the vegetation cover (you do not need to convert the NDVI data into vector format for further analysis).

âĂć Regarding table 1, the title of the table should be renamed to "spatio-temporal characteristics of Al-Kharj ecosystem", which will have the areas of the agroecosystem corresponding to each satellite date. I hope these suggestions will of acknowledged by the authors.

Best Wishes

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Interactive comment on Solid Earth Discuss., doi:10.5194/se-2016-31, 2016.