Review of: "Algal bloom monitoring in Koka Reservoir, Ethiopia: Application of satellite remote sensing algorithms"

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Potential competing interests: No potential competing interests to declare.

Query 1: Elaborate the starting statement of the 3rd paragraph in Introduction section. Give the formula for FAI. Also provide the formula for NDCI.

Query 2: Provide correlation graph(s) between satellite derived indices and field values.

What is the use of incorporating L-8 in this analysis? S-2 is better in terms of spatial as well as temporal resolution? Is it because field values have been plotted with L-8 images only?
Moreover, authors are themselves mentioning that it is impossible to estimate NDCI using OLI sensor. Explain properly in the manuscript why L-8 has been considered?

Query 3: Draw the flowchart of methodology.

Query 4: What is the NDWI threshold value for your study area. These indices varies their threshold from region to region. Is it a single threshold for all the considered images or different threshold values for different images under consideration. Explain it properly by giving the threshold values.

Query 5: The resolutions of both the satellites (S-2 and L-8) is different so the index calculated by both them will be varied. It will not be limited for this index only. All the indices (e.g. NDVI, NDWI, IBI etc.) will show the variation. Authors need to explain that, what is the purpose of writing these kind of statements?

Query 6: Relationship (filed value vs satellite value) also needs to be given with S-2 satellite data also if logistically possible.

In the introduction section authors are mentioning that NDCI is impossible to be estimated from L-8 then how this graph has been generated? Contradicting statements. Authors must clarify it properly.