

Ocean Sci. Discuss., referee comment RC1  
<https://doi.org/10.5194/os-2021-81-RC1>, 2021  
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## Comment on os-2021-81

Anonymous Referee #1

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Referee comment on "The capabilities of Sentinel-MSI (2A/2B) and Landsat-OLI (8/9) in seagrass and algae species differentiation using spectral reflectance" by Abderrazak Bannari et al., Ocean Sci. Discuss., <https://doi.org/10.5194/os-2021-81-RC1>, 2021

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Spatial mapping for marine habitats is becoming a priority for conservation efforts globally. This paper is applying remote sensing techniques to differentiate between seagrass and algae species in the shallow marine environment of the Arabian Gulf. This paper is technically oriented toward remote sensing approaches and instruments and can contribute to the debate about the usage of such techniques in environmental applications.

Specific comments:

Abstract: page/line 1/19 (*uninebell.netrvis* = *uninervis*); 1/34 remove 'it'.

Section 2: 4/142: the section is considered as a mini review within the paper. Typically, reviewing the literature will lead to the formulation of the aims and objectives of the study. This part can act as a basis for a more comprehensive review that can be published as a review paper. However, the current mini review is within the context of the current study and can provide useful information for the readers.

Citation and references: Page 3/87 and 28/994: Humood, 2011 = (Naser, 2011). Refence: Naser, H.

Figure 3: The legend indicates [Study site (Kingdom of Bahrain)] which may give the impetration that the rectangle reelects the whole territorial waters of Bahrain. Therefore, there might be a need to extend the rectangle to include Hawar Islands.

Overall, the paper can form an initial step toward characterizing different marine habitats in shallow environments, and can stimulate the debate about the effectiveness of remote sensing in conservation and management.