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re. manuscript acceptance: Cook et al. (2019) Glacier algae accelerate the melting of the south-western Greenland Ice Sheet

Dear Editor,

thank you for accepting our manuscript for publication. I am pleased to make the amends you requested and hope that we can now finalise this without further delays. Please see the responses to your comments below:

1) " I would still like to see a comparison between ASD, UAV and remote sensing data in the manuscript"

We added three figures to Supplementary Info 6 to show the inter-sensor comparisons and have now amended the manuscript as follows to make it completely clear:

L387: "Comparisons between the directional reflectance spectra gathered using the ASD field spectrometer and those measured using the UAV and Sentinel-2 are provided in Supp Info 6."

2) "... how the ASD data has been reduced to the discrete bands? Was the spectral response of the sensors considered?"

This was already explained in the manuscript but we now explain this explicitly as follows:

L391: "Directional reflectance data gathered using the ASD field spectrometer was reduced to only those nine wavelengths coincident with the centre wavelengths measured by Sentinel-2 at 20m ground resolution (0.480, 0.560, 0.665, 0.705, 0.740, 0.788, 0.865, 1.610 2.190 μm)."

3) "Other details"

We have provided the totality of our underlying datasets, codes, trained models, metadata, images and methodological details in our repository. We have put considerable effort into curating this to make it easily navigable by other users. We have now minted digital object identifiers for our repositories and clearly cited it in the manuscript, in alignment with the TC guidelines.

Kind regards



Joseph Cook and co-authors