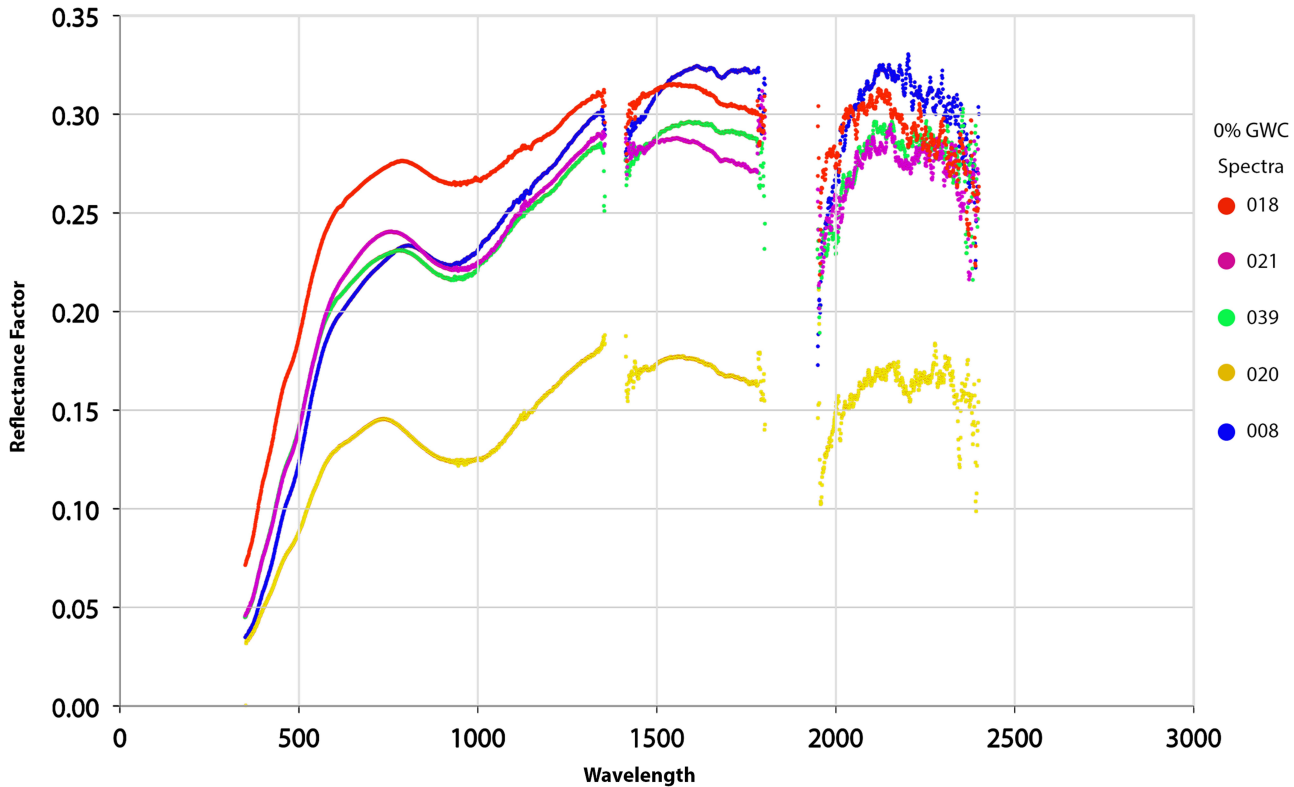
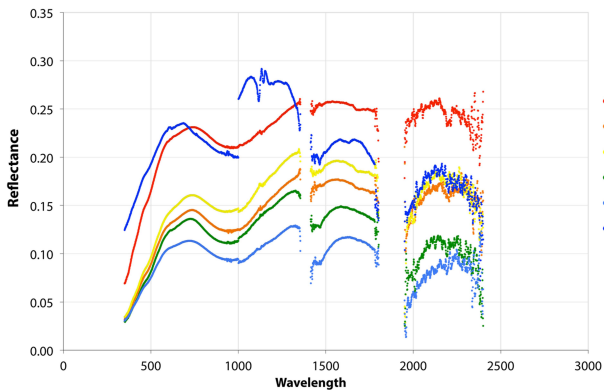
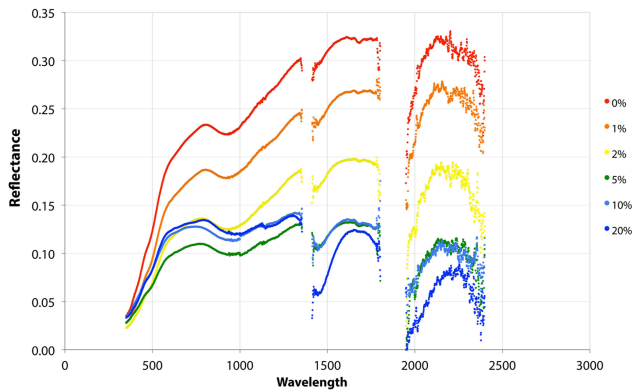
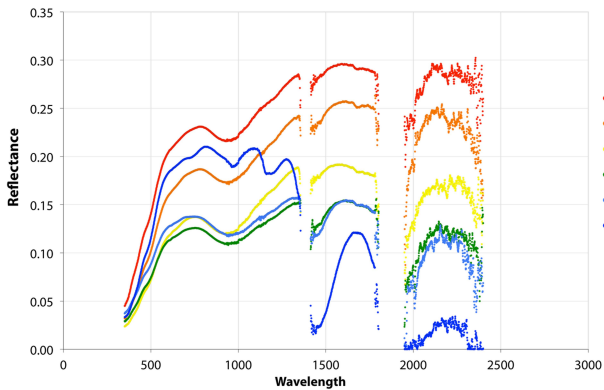


Supplement 1. 0% GWC reflectance spectra of all samples in this study. Some samples are brighter (higher reflectance) while others are darker (lower reflectance), indicating a need to use a metric other than raw relative reflectance at a given wavelength to determine soil moisture content.

Supplement 2. Reflectance spectra of all samples used in this study as a function of GWC. Higher reflectance for 20% GWC samples at short wavelengths are likely a result of specular reflection and scattering from exposed water in the sample tray.



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