## M14: Calibrating an electromagnetic ground conductance meter for mapping stored soil moisture

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Electromagnetic surveys have been utilised for years to map soil variability across various landscapes/fields. Establishing a relationship between soil conductivity and soil chemical properties can prove difficult. The masterclass will investigate one attribute, profile water content, and the relationship that has been developed with soil conductivity. The procedure to develop a calibration using an EM38-Mk II (Geonics) with profile water content from soil cores across a field will be taught producing variability maps. The masterclass will provide a hands-on experience learning the process of using an EM38-Mk II to build a calibration with profile water content including data logging (geo-referencing) and mapping field variability.

