 Estimates of carbon in soil across Northern Ireland and the bordering counties of the Republic of Ireland (RoI) have been revised integrating airborne geophysical (radiometric) data with ground-based measurements of peat depth and Soil Organic Carbon (SOC).

Ground measured data corroborate the mapped outputs. The method involves minimal impact to delicate peat environments.

The results provide revised mapped estimates of soil organic carbon for individual peat bog case studies and offer a regional (NI) and county (RoI) assessment of soil carbon. The outcomes of this research contribute to current EU policy developments on soil organic matter management.