

# Tellus Survey Periodic Table



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# Inorganic geochemistry of shallow topsoil in Ireland

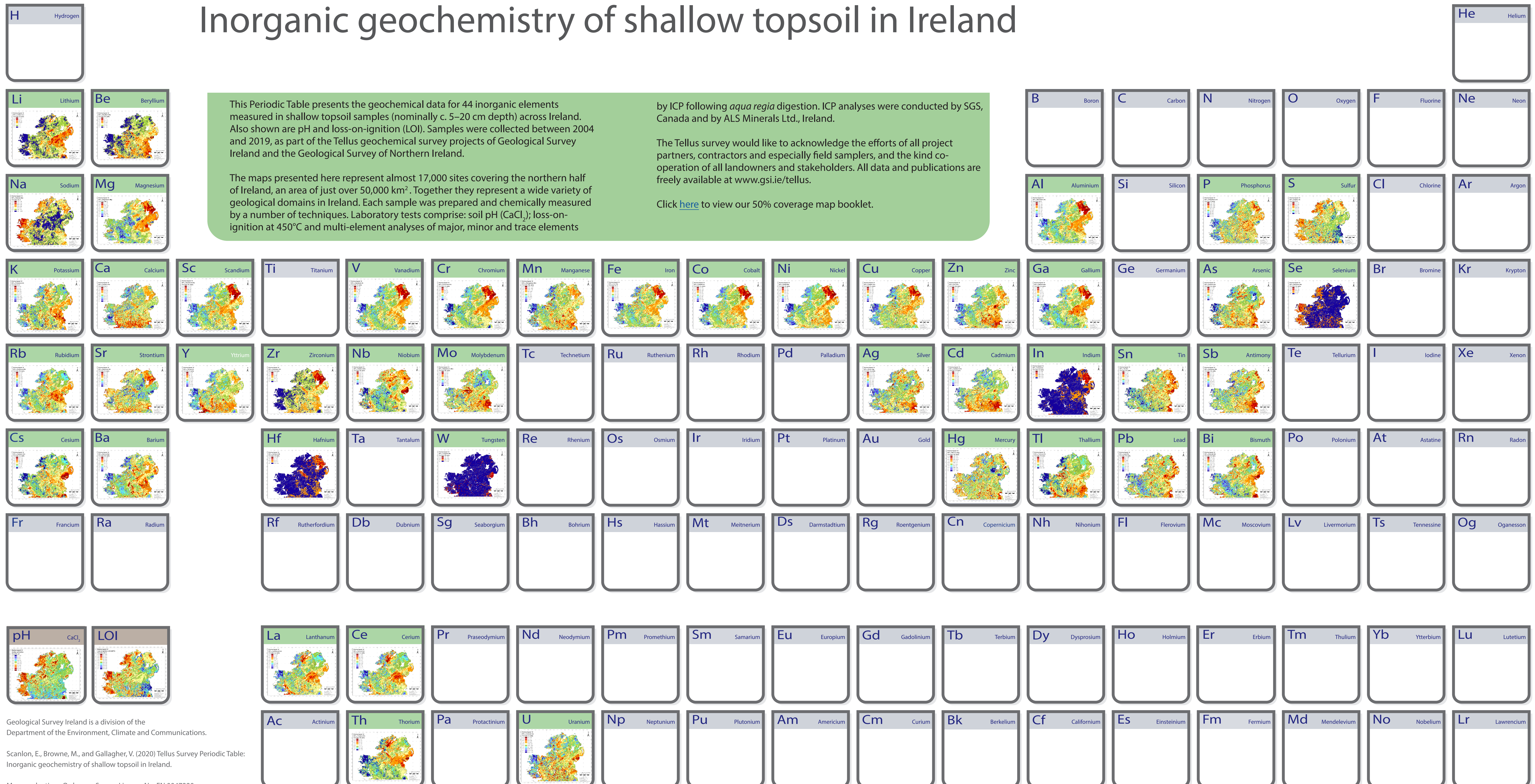
This Periodic Table presents the geochemical data for 44 inorganic elements measured in shallow topsoil samples (nominally c. 5–20 cm depth) across Ireland. Also shown are pH and loss-on-ignition (LOI). Samples were collected between 2004 and 2019, as part of the Tellus geochemical survey projects of Geological Survey Ireland and the Geological Survey of Northern Ireland.

The maps presented here represent almost 17,000 sites covering the northern half of Ireland, an area of just over 50,000 km<sup>2</sup>. Together they represent a wide variety of geological domains in Ireland. Each sample was prepared and chemically measured by a number of techniques. Laboratory tests comprise: soil pH (CaCl<sub>2</sub>); loss-on-ignition at 450°C and multi-element analyses of major, minor and trace elements

by ICP following *aqua regia* digestion. ICP analyses were conducted by SGS, Canada and by ALS Minerals Ltd., Ireland.

The Tellus survey would like to acknowledge the efforts of all project partners, contractors and especially field samplers, and the kind co-operation of all landowners and stakeholders. All data and publications are freely available at [www.gsi.ie/tellus](http://www.gsi.ie/tellus).

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Geological Survey Ireland is a division of the  
Department of the Environment, Climate and Communications.

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