Tellus Survey Periodic Table





Inorganic geochemistry of stream water in Ireland

This Periodic Table presents the inorganic geochemical data for 61 analytes measured in stream water samples across Ireland. Samples were collected from low-order streams between 2011 and 2017, as part of the Tellus geochemical survey project of Geological Survey Ireland.

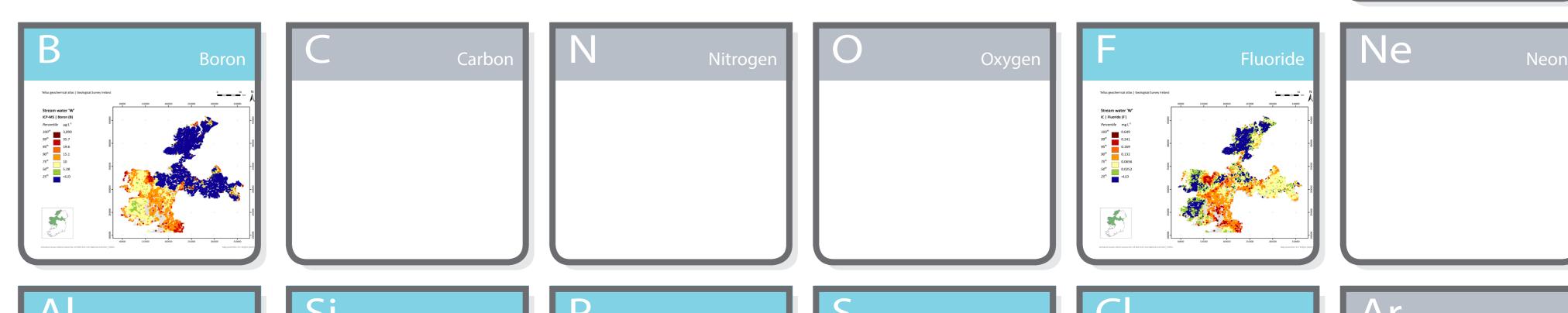
Data here are shown for 6836 sites across the northern and western regions of Ireland. Sample sites are distributed at a typical density of at least one site per 4 km², and together they represent a variety of geological domains in Ireland, covering an area of over 24,000 km² (35% of the country).

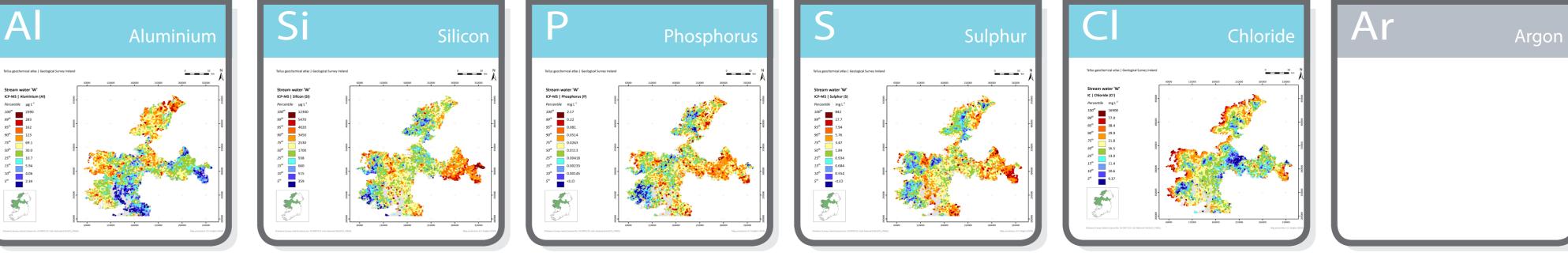
Each sample was chemically measured by a number of techniques. Field determinations are of pH, specific electrical conductance, and total alkalinity to assess bicarbonate concentration. Laboratory tests are for anions by ion chromatography (IC); multi-element major, minor and trace elements

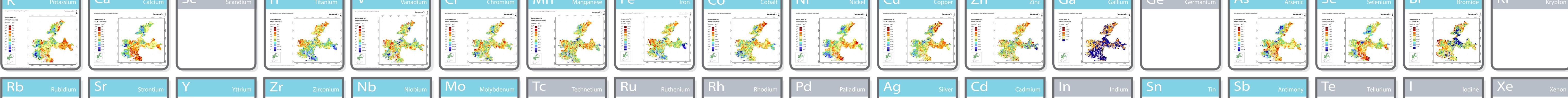
by inductively coupled plasma mass spectrometry (ICP-MS); and non-purgeable organic carbon (NPOC). Analyses were conducted by the Inorganic Geochemistry Facility at the Centre for Environmental Geochemistry, Keyworth, UK.

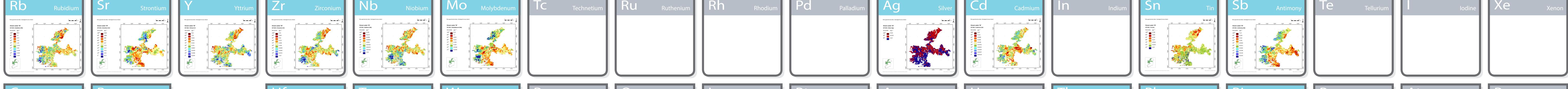
The Tellus survey would like to acknowledge the efforts of all project partners, contractors and especially field samplers, and the kind co-operation of all landowners and stakeholders.

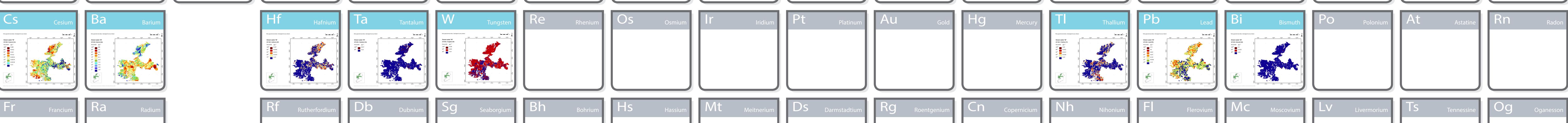
All data and publications are freely available at www.gsi.ie/tellus.











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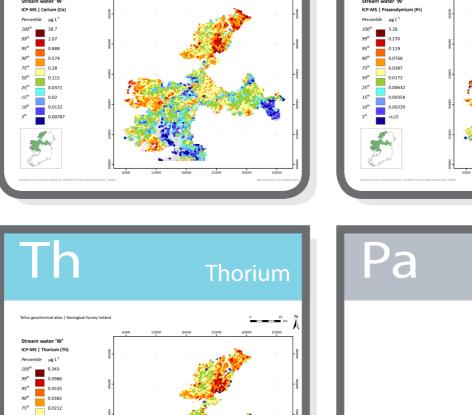
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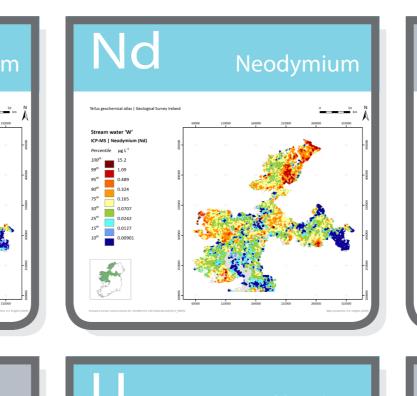
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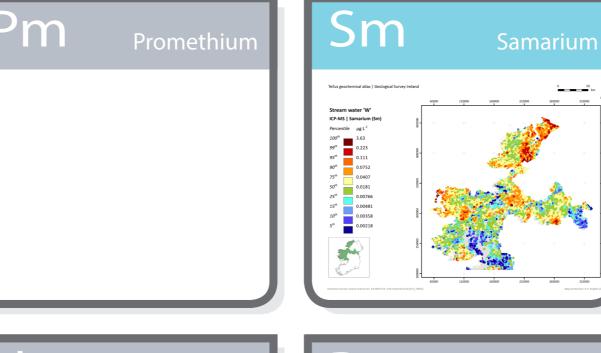
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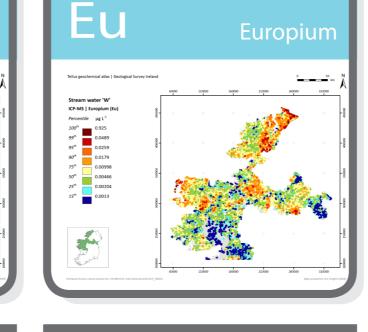
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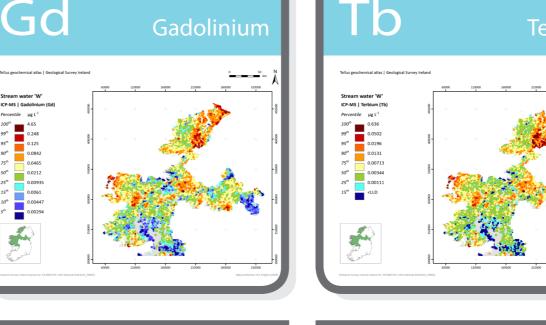


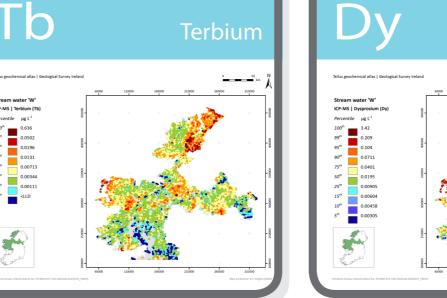


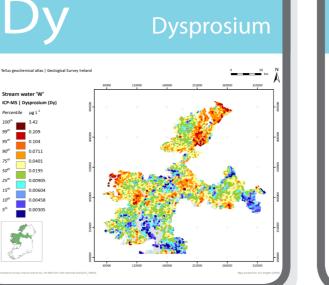
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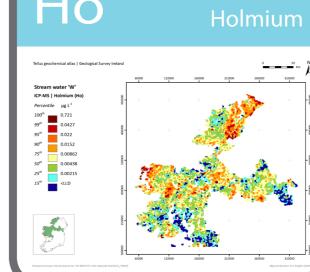


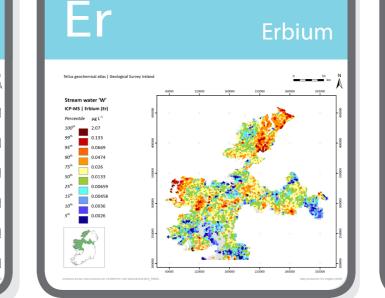


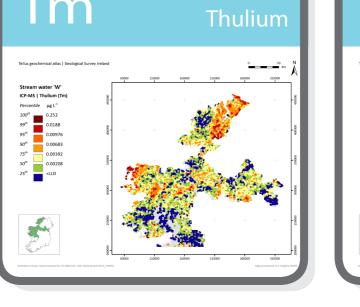


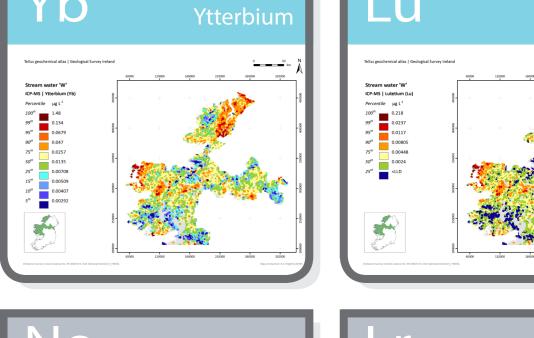












Geological Survey Ireland is a division of the Department of Communications, Climate Action and Environment.

Knights, K. V. & Scanlon, E. M. 2019. Tellus Survey Periodic Table: Inorganic geochemistry of stream water in Ireland.