S-map - a new soil spatial information system for New Zealand

Title

smap_sept_2012

Creator

Landcare Research

Description

<DIV STYLE="text-align:Left;"><DIV><DIV><P STYLE="text-align:Justify;margin:8 0 8 0;"><SPAN><SPAN>S-map's primary map layer is soil classes, i.e. delineated areas that are labelled with the soil family name. Each soil family is defined as a unique combination of attributes (NZSC classification, parent material, rock type, dominant texture and permeability class). Soil classes are further characterised as siblings according to their depth to rock class, stoniness, land type, drainage, texture (more detailed), functional horizons and miscellaneous variant information. The uncertainty of each of these family and sibling attribute classes is specified</SPAN></SPAN></P><P STYLE="text-align:Justify;margin:8 0 8 0;"><SPAN><SPAN>Associated with the soil class layer will be additional map layers of fundamental and derived soil properties. The fundamental soil properties are depth (diggability), depth to slowly permeable layer, rooting depth, rooting barrier, horizon thickness, stoniness, clay and sand content. They are developed from sample information and expert knowledge. The derived soil layers are each based on a model (or pedo-transfer function). Some models are simple lookup tables that depend only on the soil class. Others combine various soil, land use, vegetation, climate or topographic attributes in a mathematical formula. Derived layers will include available water (mm), macroporosity, water retention, bulk density, total carbon, total nitrogen, phosphorus, calcium, cation exchange capacity, pH, and phosphorus retention.</SPAN></SPAN></P><P><SPAN /></P><P><SPAN /></P><P><SPAN /></P></DIV></DIV></DIV>

Source

S-map builds on previous soil mapping by filling gaps with new mapping, and upgrading the information content and associated database to meet a new national standard.

Rights

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Coverage

-46.0939225919 168.57219335 -35.7313344241 178.09972373

Identifier

http://lris.scinfo.org.nz/layer/295/

Identifier

http://lris.scinfo.org.nz/layer/301/

Language

eng

Subject

farming

Subject

environment