Supporting Information

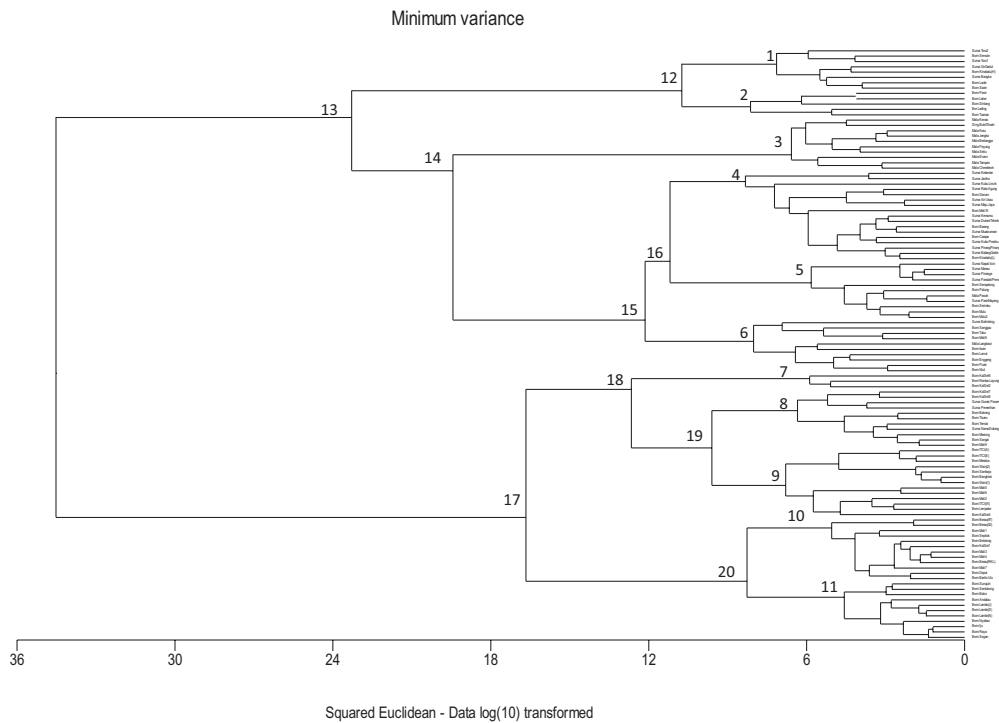## Slik et al. 10.1073/pnas.1103353108

Fig. S1. Final cluster results of all 111 locations. Nodes are numbered, with the first 11 representing the terminal clusters mentioned in the main text and Fig. 2.
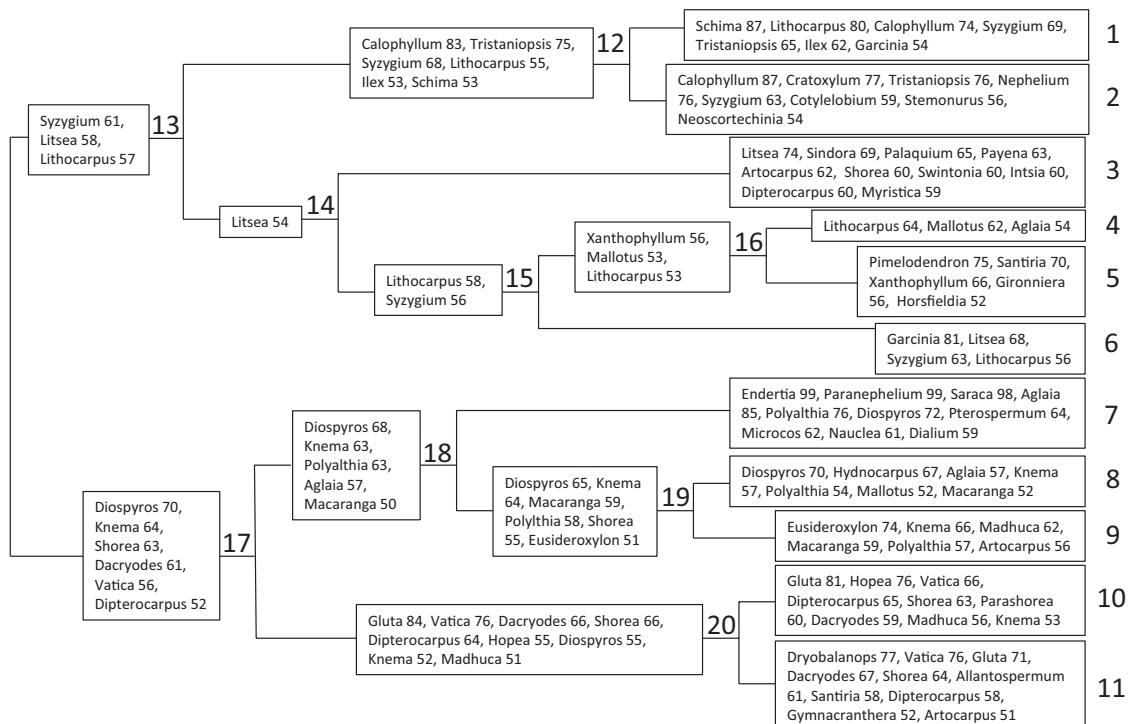

Fig. S2. The significant indicator genera for each node (as indicated in Fig. S1) in the cluster dendrogram. The values behind each genus name are the indicator value (IV), which ranges between 0 and 100 (0 means no association with the cluster, and 100 means maximum association with the cluster).
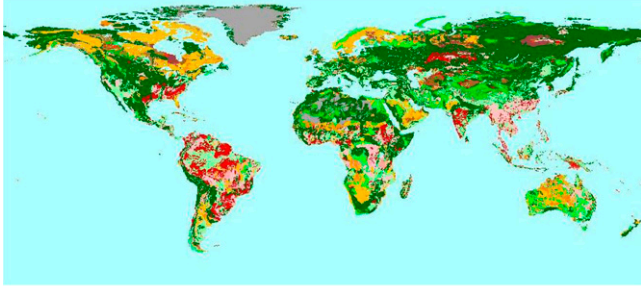
Map 26	Textural class - Subsoil

ArcInfo Grid file *Der_soil_prop*	

Textural class - Subsoil (Dominant soils || Associated soils)

ArcView Legend file *Texture.avl* Field Displayed *Txw_s*	10 = Organic Soils || 12 = Organic Soils || coarse textured soils (sandy) 13 = Organic Soils || medium textured soils (loamy) 14 = Organic Soils || fine textured soils (clay) 20 = Course Texture Soils (sandy) || 21 = Course Texture Soils (sandy) || organic soils 23 = Course Texture Soils (sandy) || medium textured soils (loamy) 24 = Course Texture Soils (sandy) || fine textured soils (clay) 30 = Medium Texturd Soils (loamy) || 31 = Medium Texturd Soils (loamy) || organic soils 32 = Medium Texturd Soils (loamy) || coarse textured soils (sandy) 34 = Medium Texturd Soils (loamy) || fine textured soils (clay) 40 = Fine Textured Soils (clay) || 41 = Fine Textured Soils (clay) || organic soils 42 = Fine Textured Soils (clay) || coarse textured soils (sandy) 43 = Fine Textured Soils (clay) || medium textured soils (loamy) 99 = Glaciers, Rocks, Shifting Sand, No data 97 = Water

Description Grid VAT table (Value Attribute Table)	``` COLUMN ITEM NAME WIDTH OUTPUT TYPE 1 VALUE 4 10 B 5 COUNT 4 10 B . ... 73 TXW_S 4 16 B . ... 81 CNTCODE 4 16 B 85 VALUE_AREA 4 16 B 89 AREAX10000 16 16 I TXW_S = values field displayed CNTCODE = FAO country code VALUE_AREA = area SqKm of each cell multiplied x 10000 AREAX10000 = area SqKm of the cells (COUNT * VALUE_AREA) ```

Note about the indicator	The textural class is an indicator for soil fertility and soil physical conditions (moisture storage, internal drainage). Because only three classes are used on the Soil Map of the World, the information does not allow detailed interpretations.

Fig. S3. Food and Agriculture Organization of the United Nations' subsoil texture classification as used in our study (1).

1. Food and Agriculture Organization of the United Nations (2002) *TERRASTAT: Global Land Resources GIS Models and Databases for Poverty and Food Insecurity Mapping,* Land and Water Digital Media Series 20 (Food and Agriculture Organization of the United Nations, Rome).

Other Supporting Information Files

Dataset S1 (XLSX)
Dataset S2 (XLSX)