Towards a global map of historically degraded areas

S-world

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N.H. Batjes, B. ten Brink

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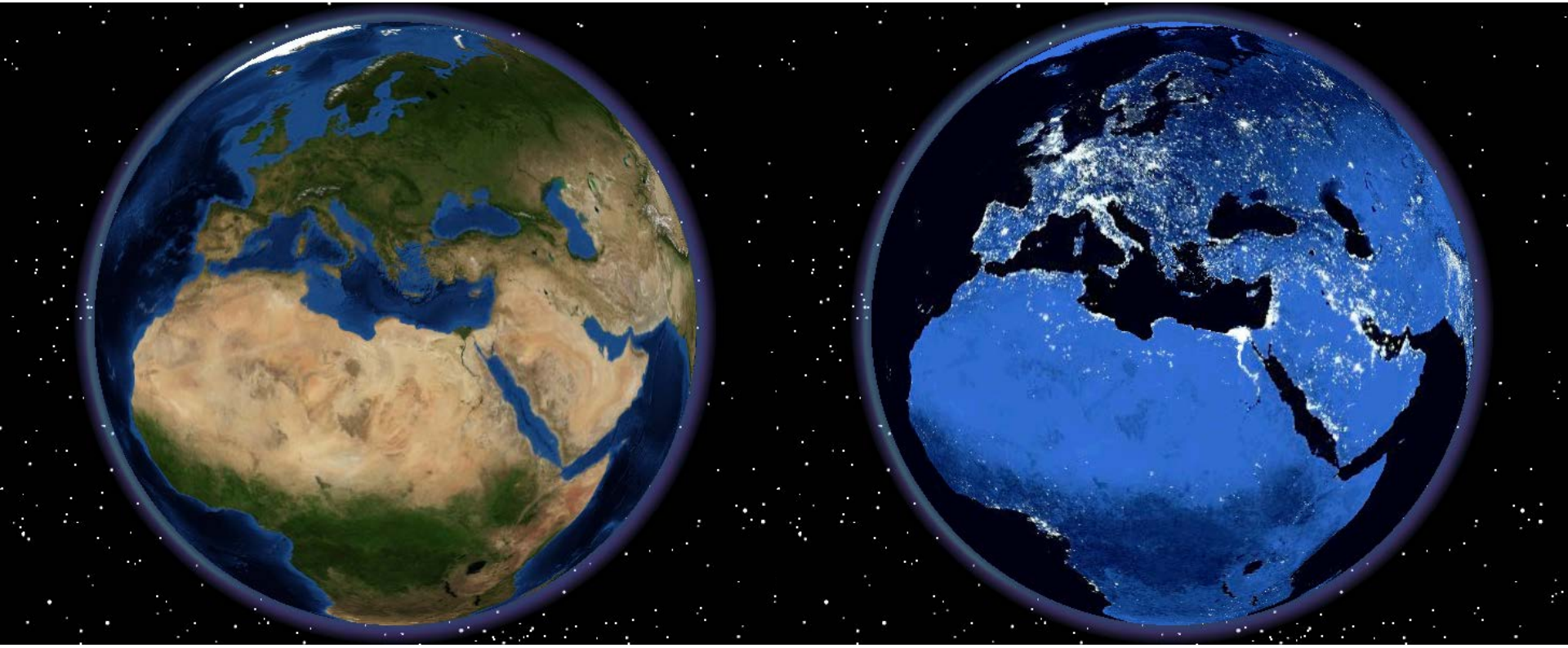
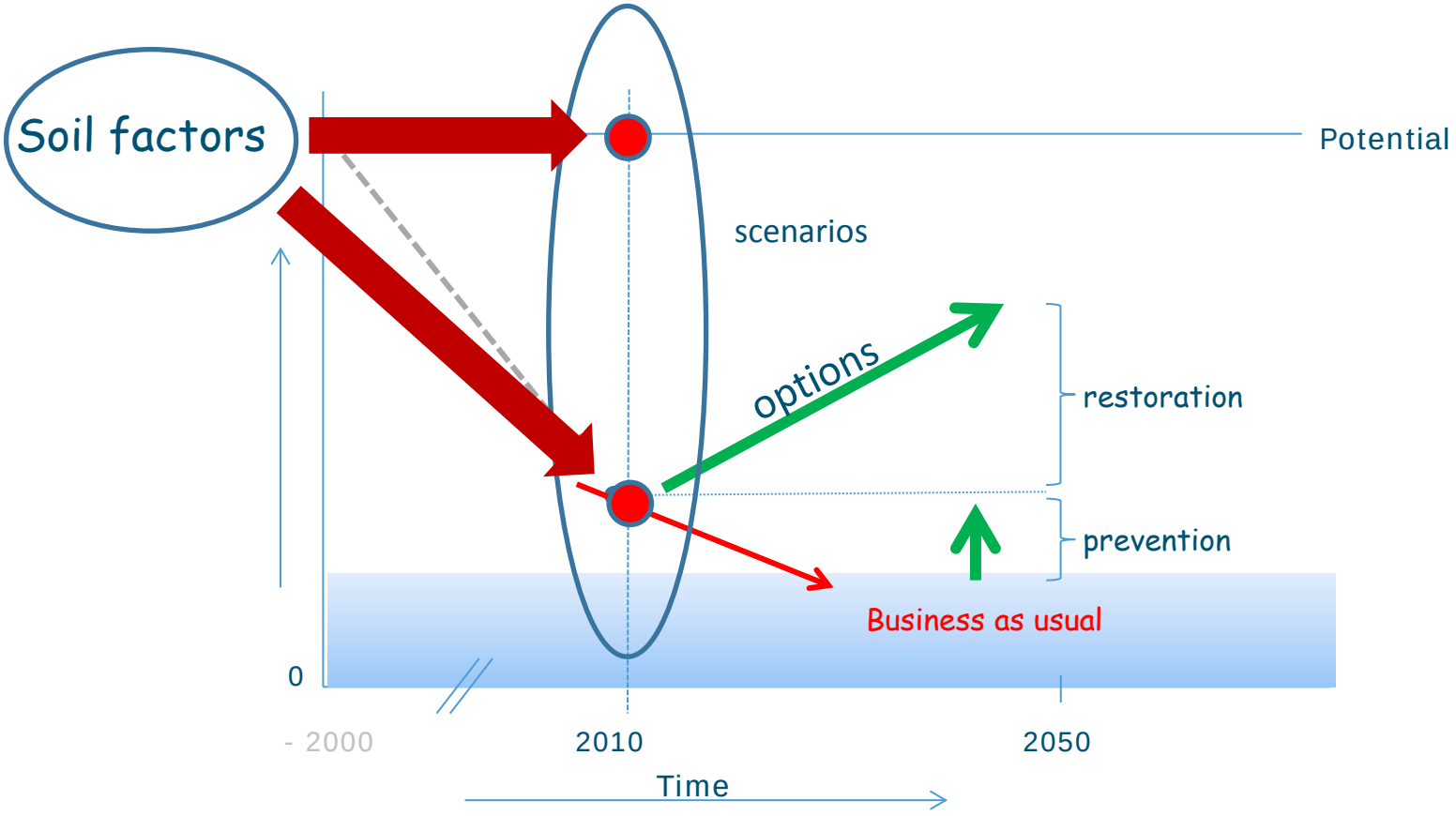
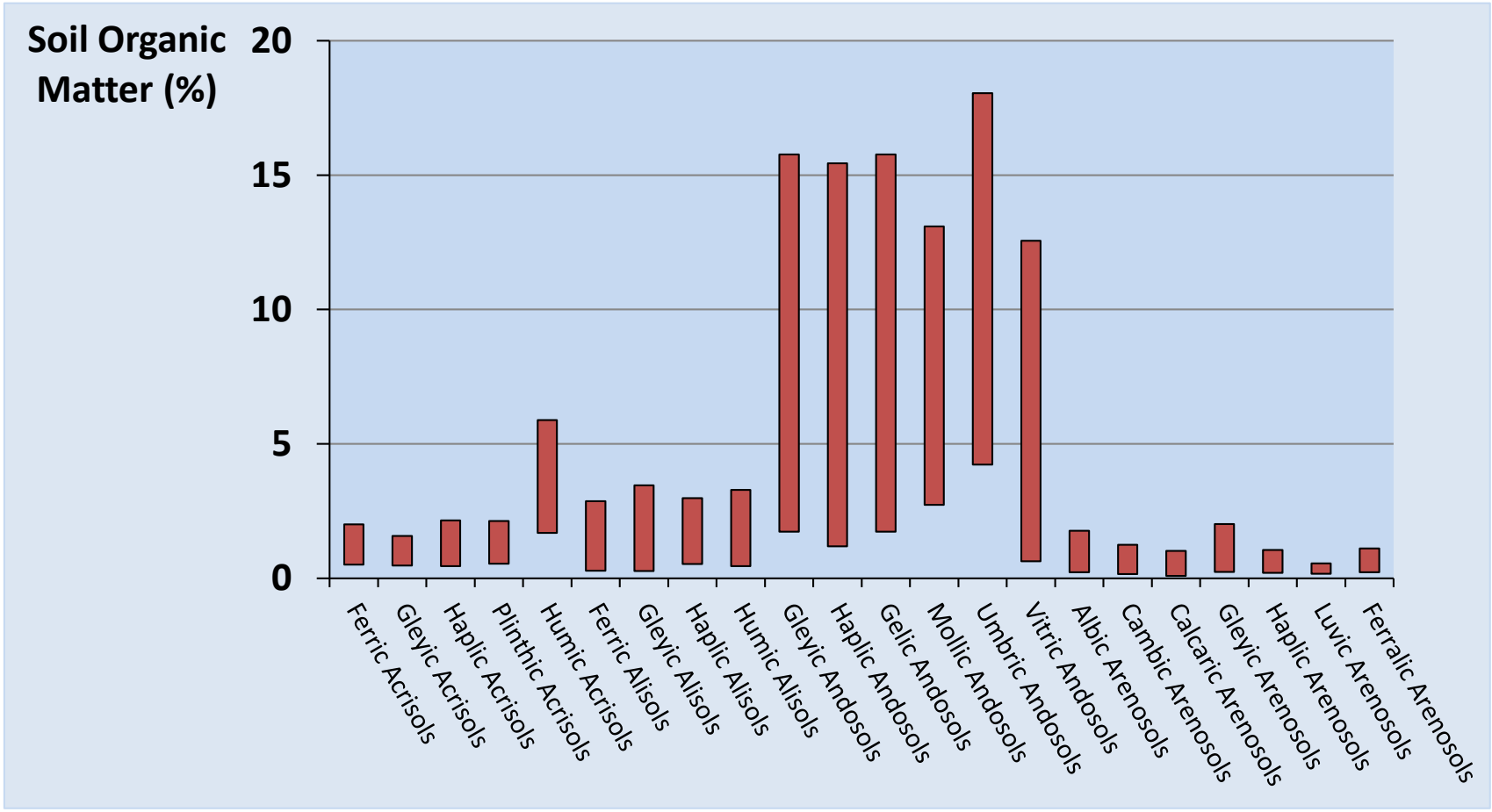
Global change



The key question

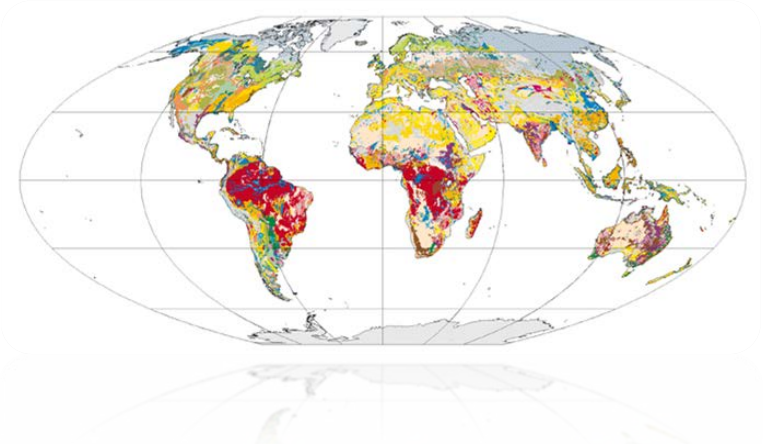


Current soil conditions



Starting point

Harmonized World Soil Database



WISE database

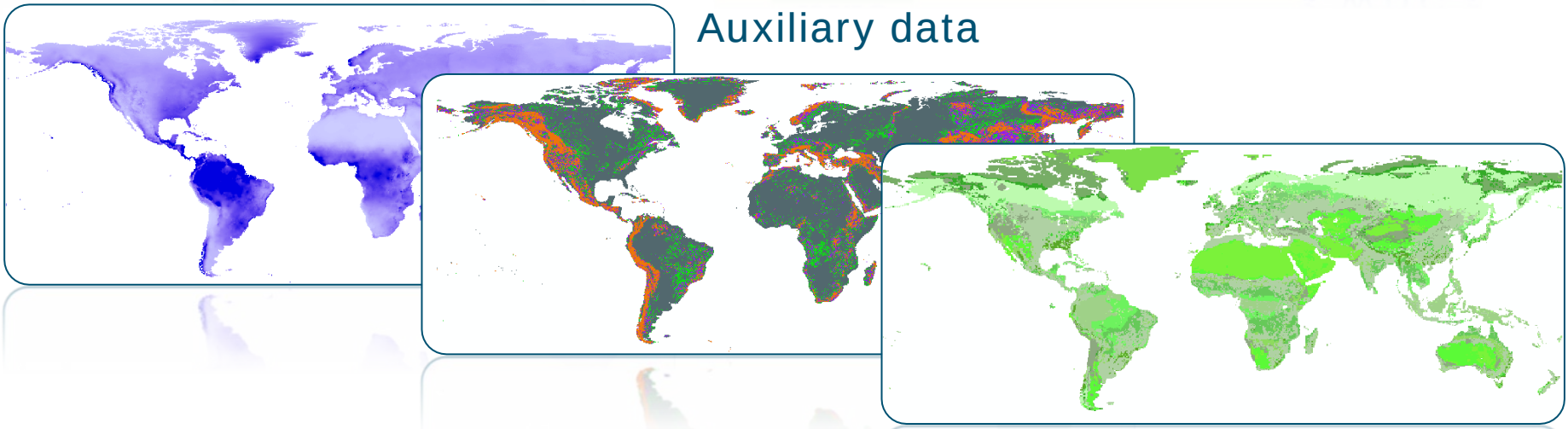
ISRIC-WISE Harmonized Global Soil Profile Dataset

(Ver. 3.1)

ISRIC

World Data Center for Soils WDC Wageningen

Auxiliary data



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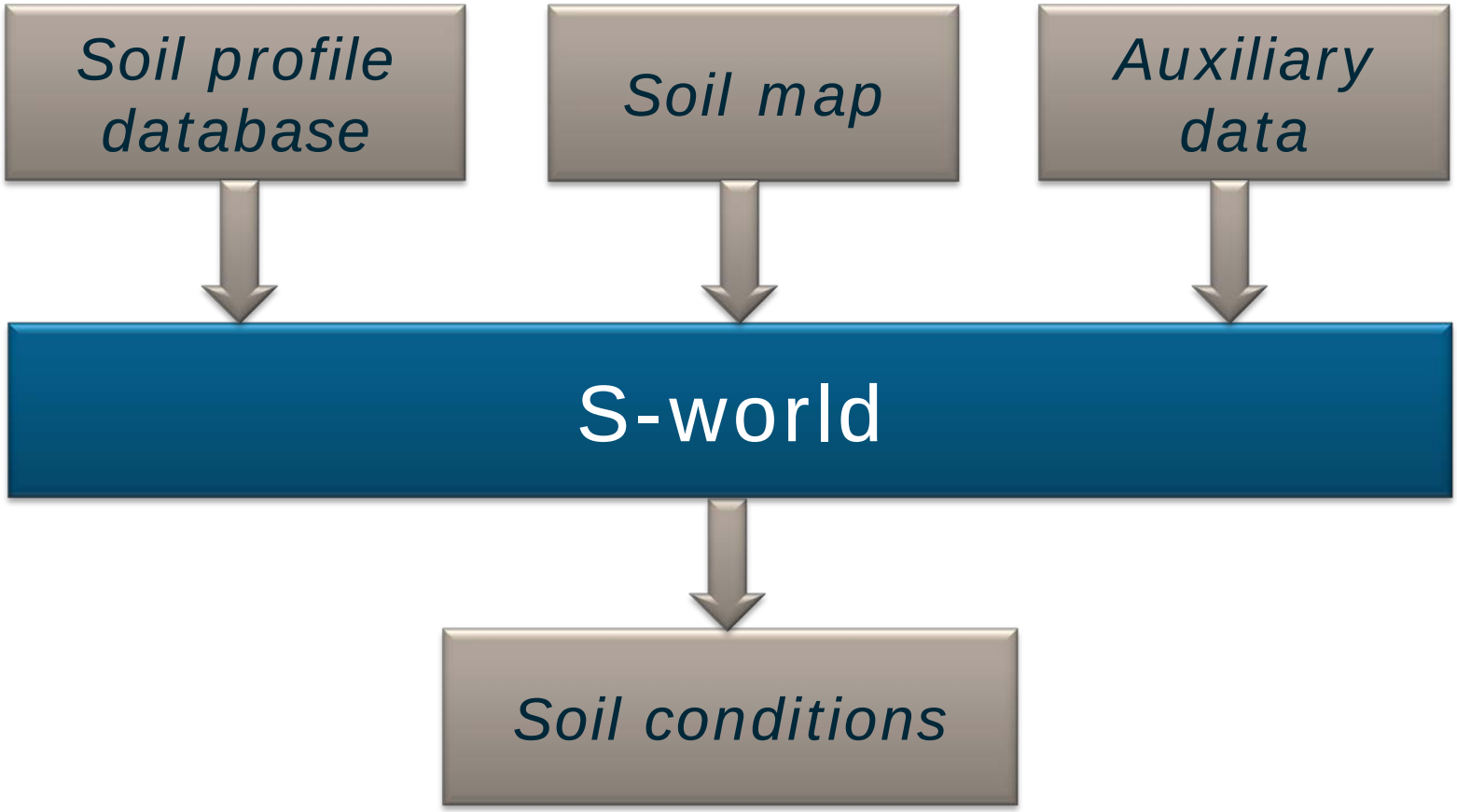
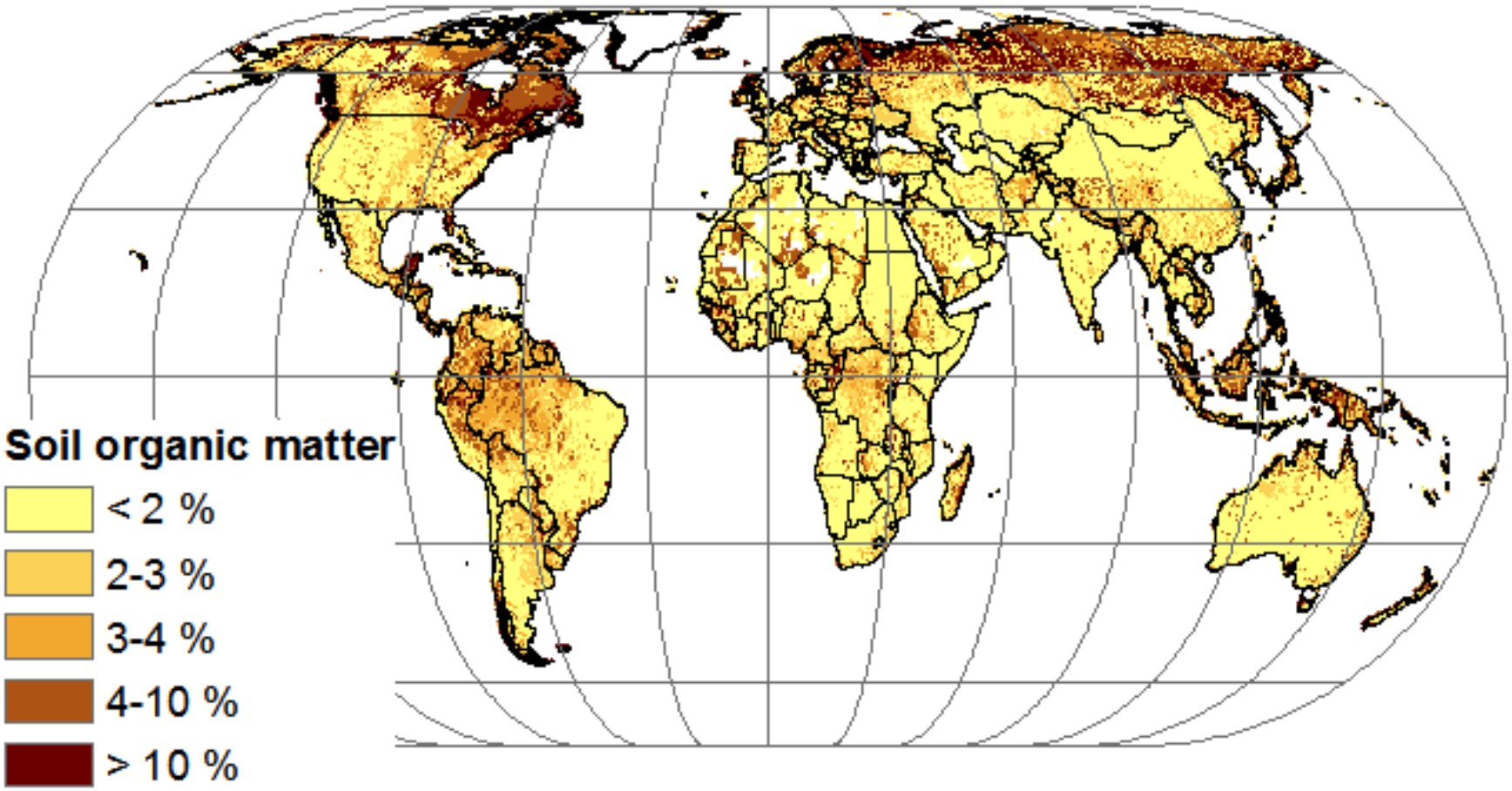
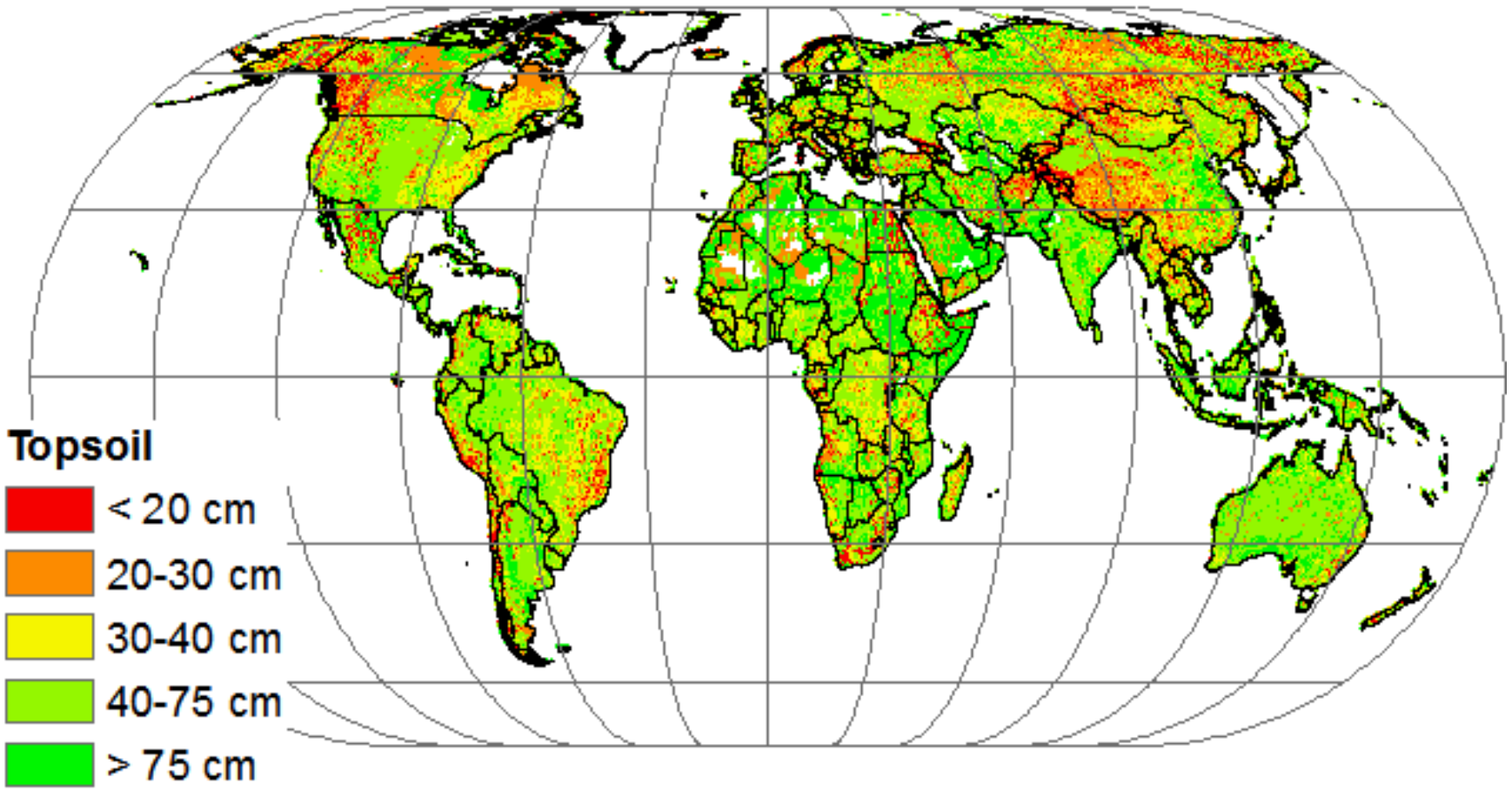

Soil profile database
Soil map
Auxiliary data
S-world
Soil conditions

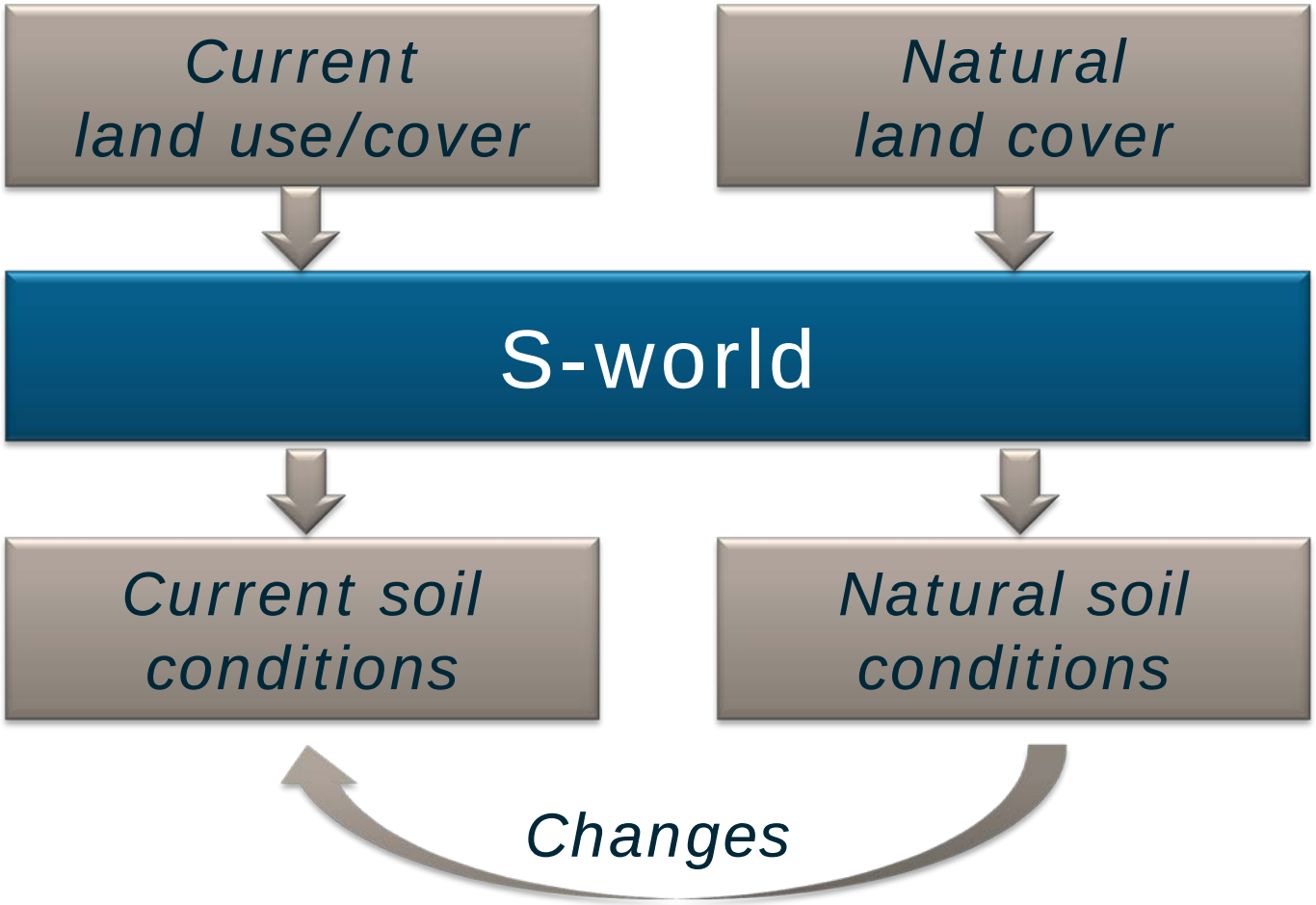
Global soil property maps



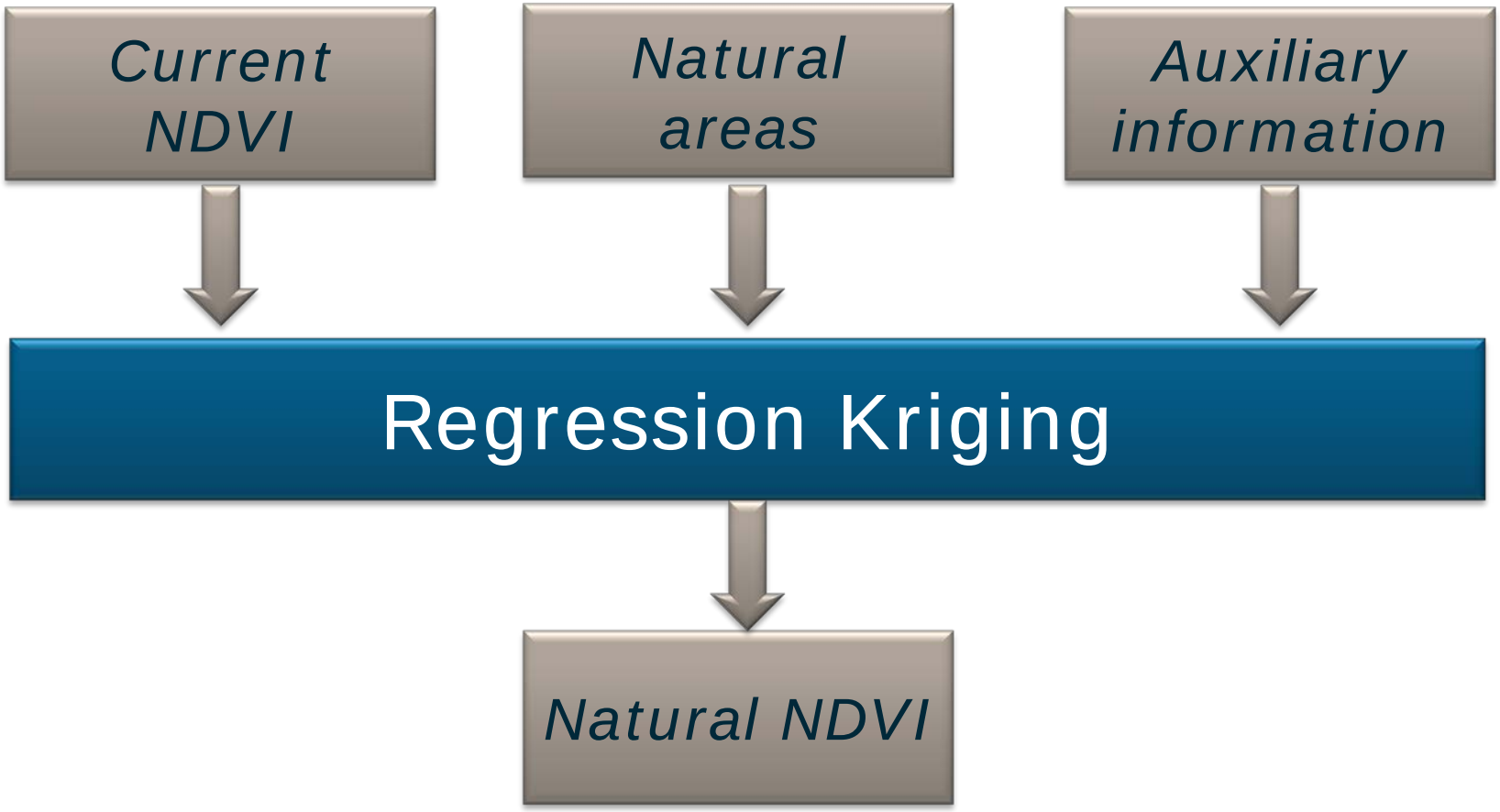
Global soil property maps



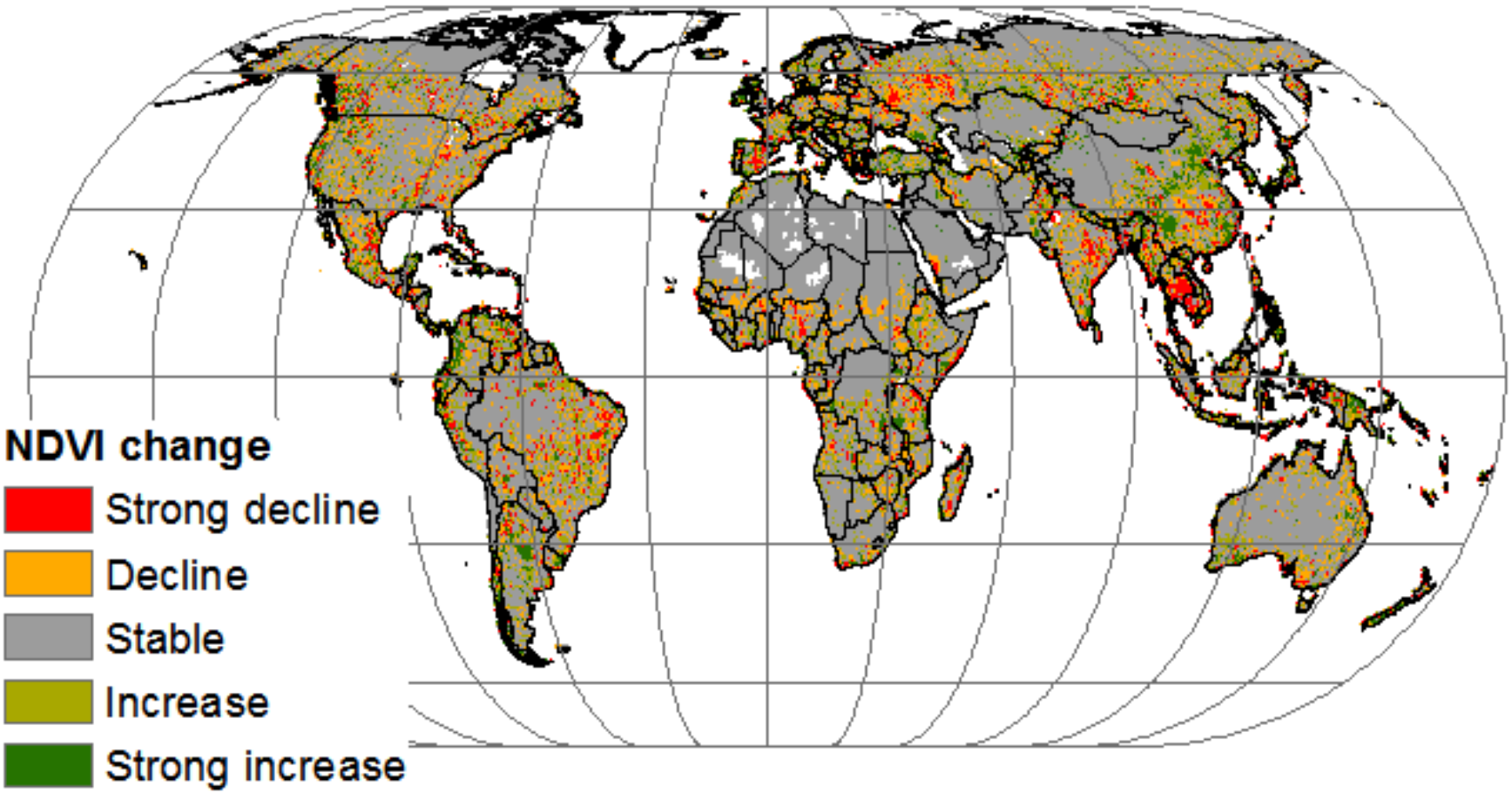
Human induced soil changes



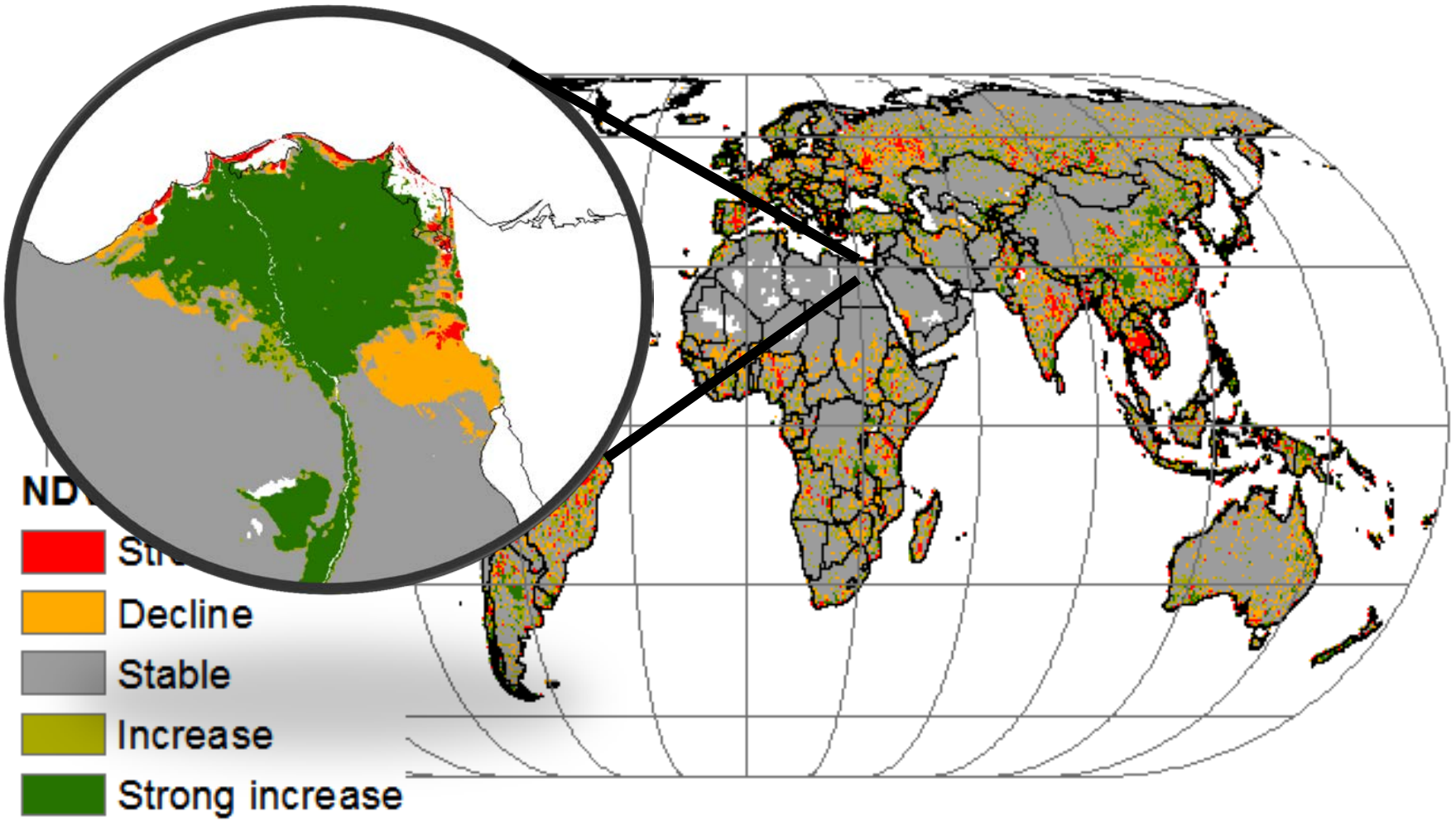
“Natural” NDVI



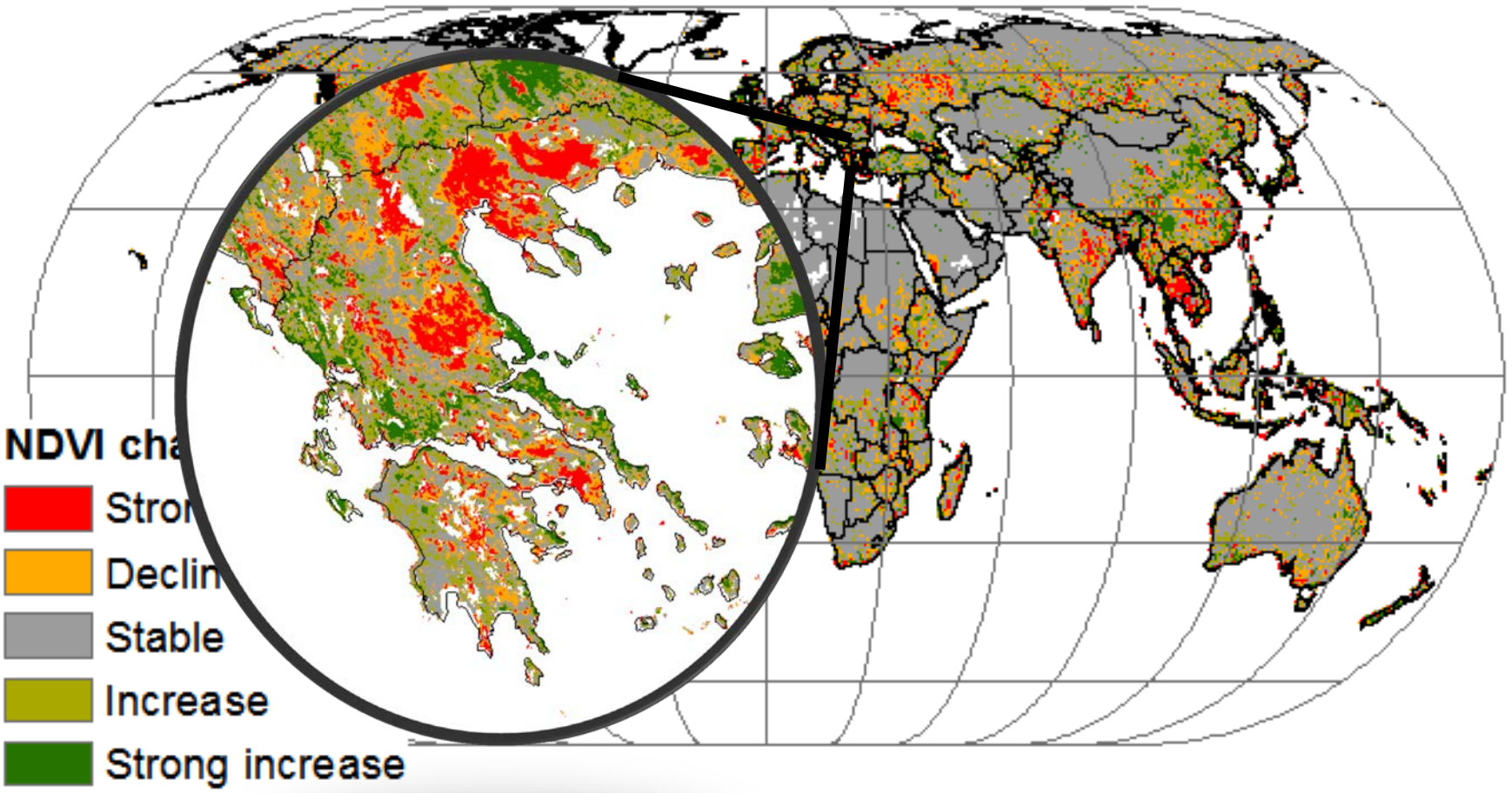
Current versus natural NDVI



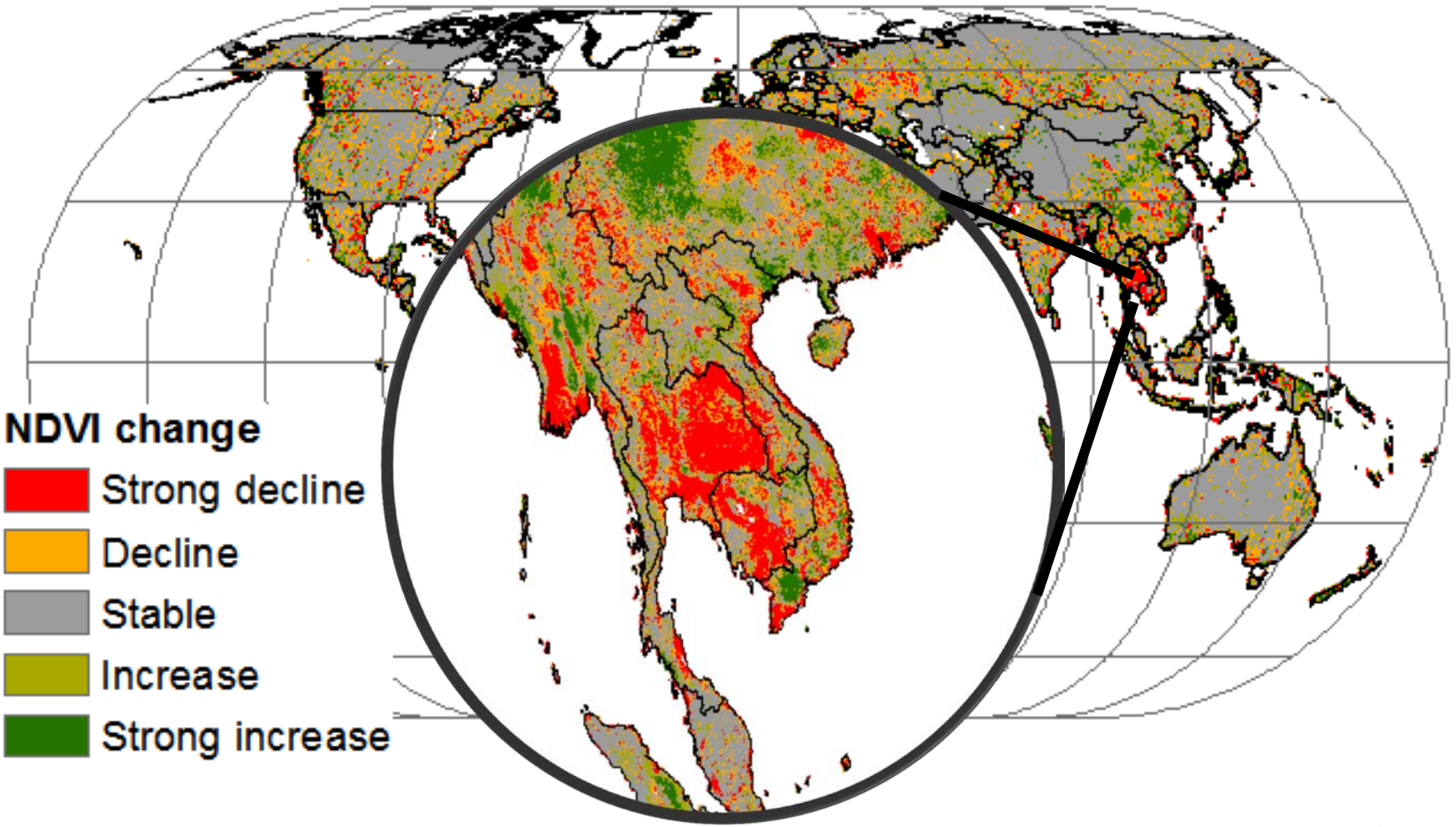
Current versus natural NDVI



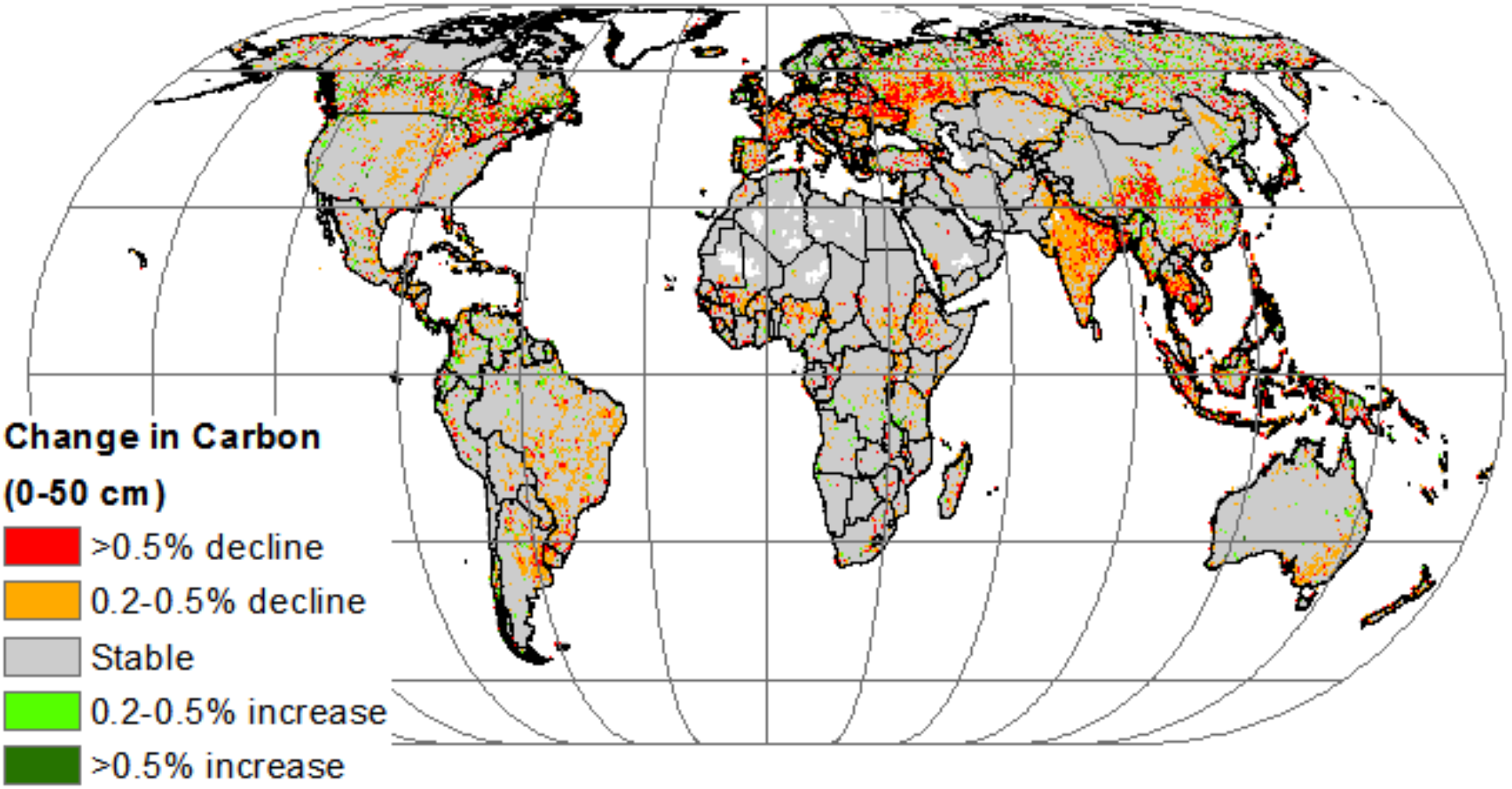
Current versus natural NDVI



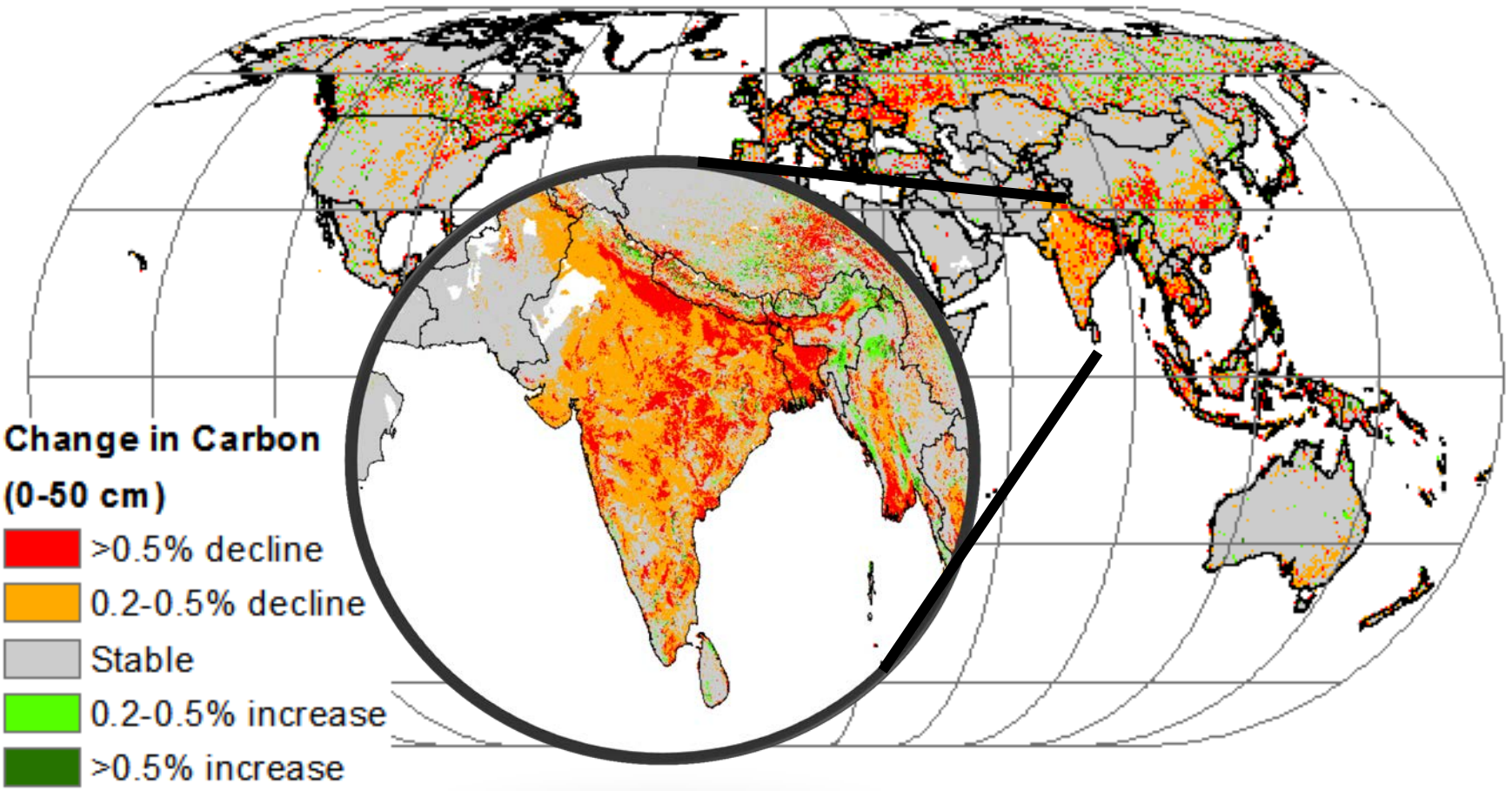
Current versus natural NDVI



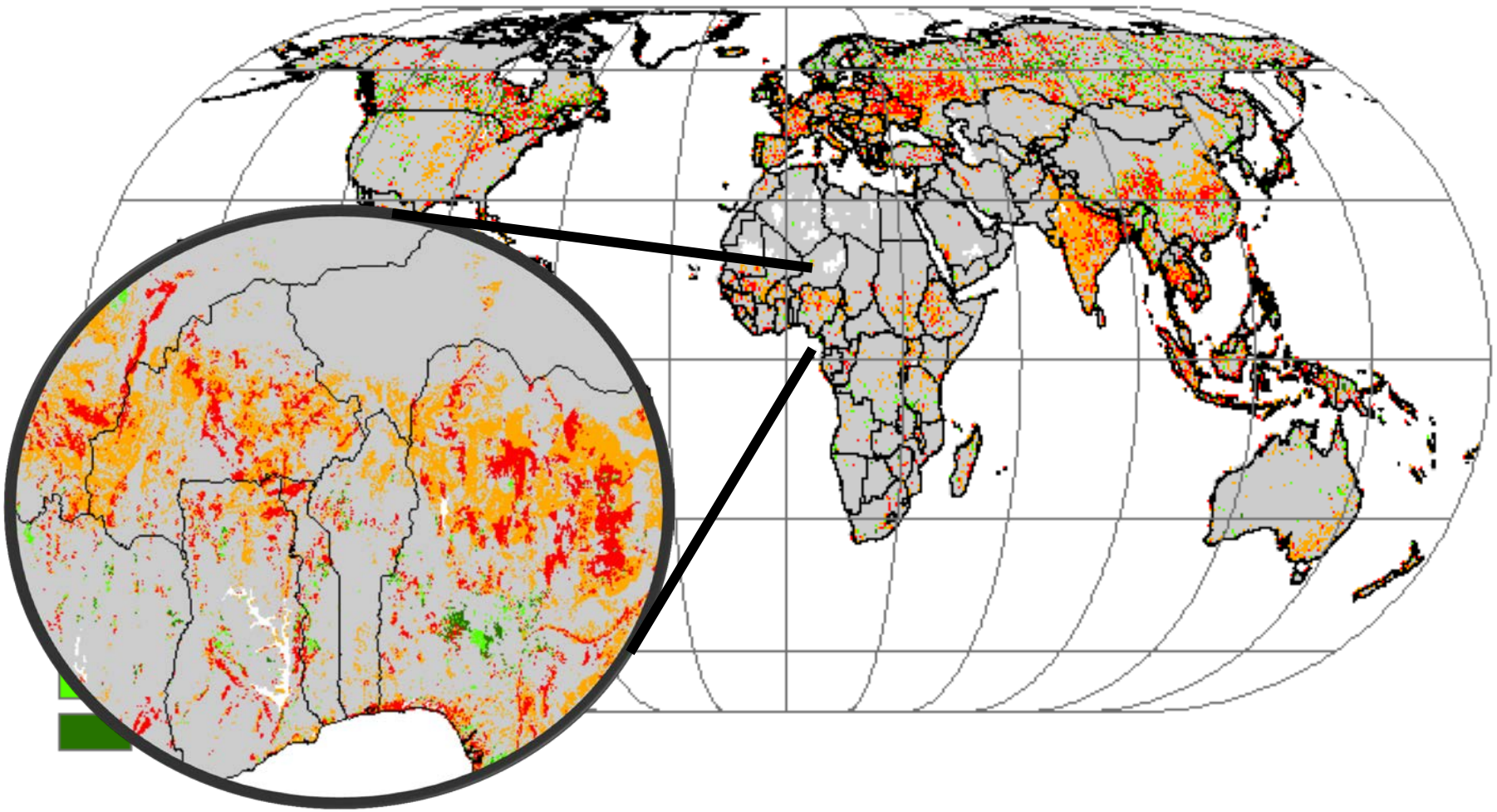
Soil organic carbon: current versus natural



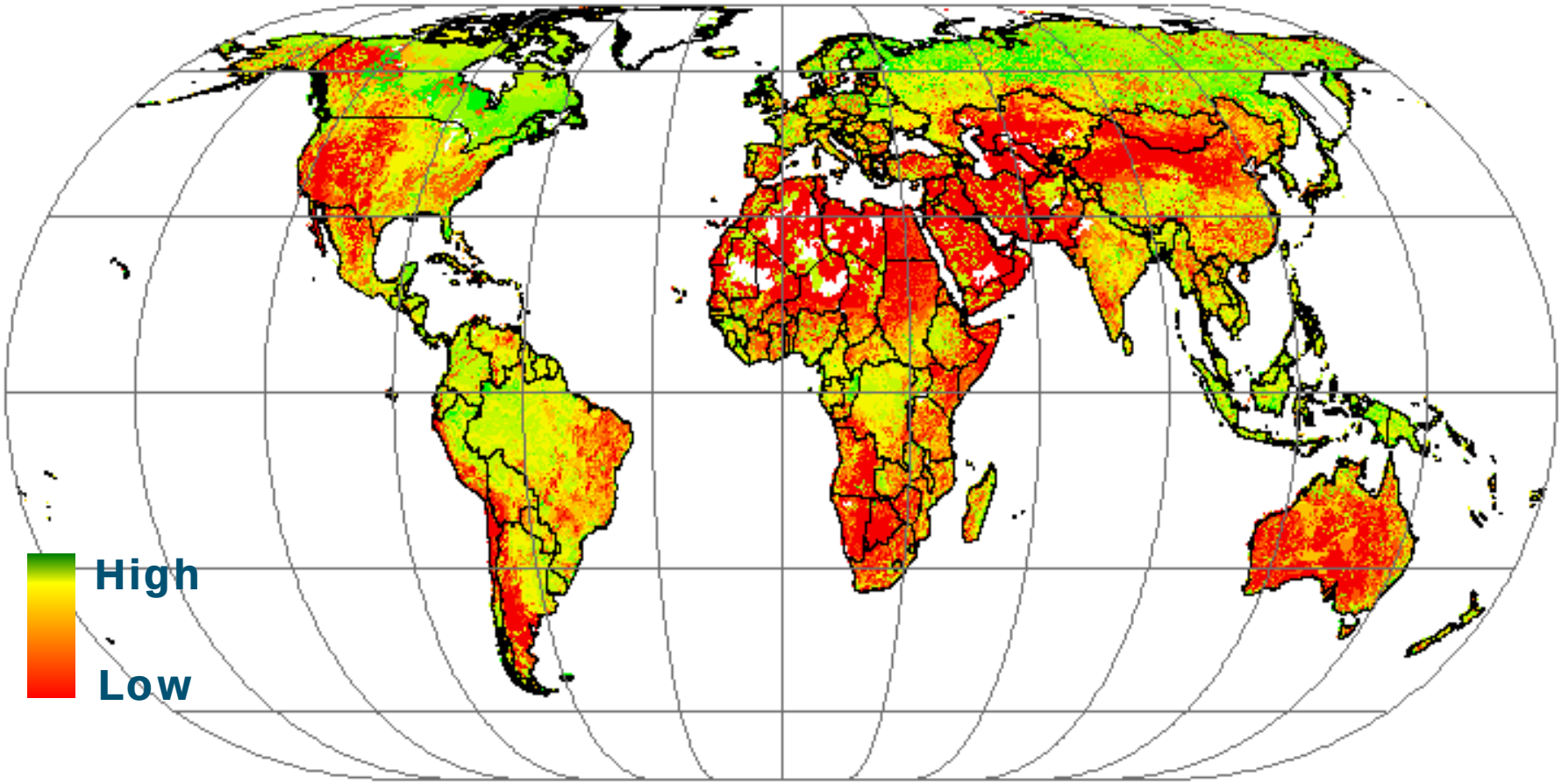
Soil organic carbon: current versus natural



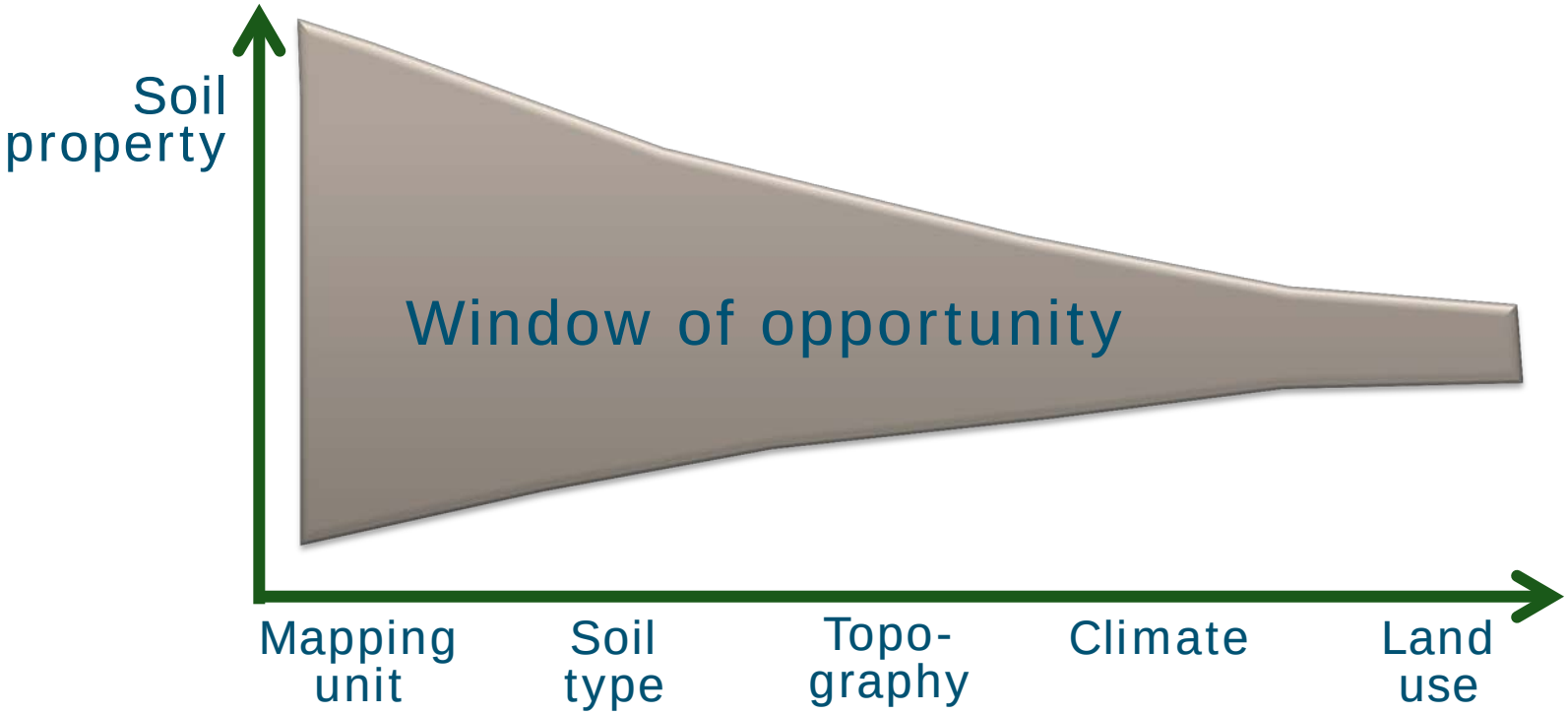
Soil organic carbon: current versus natural



Potential for carbon sequestration

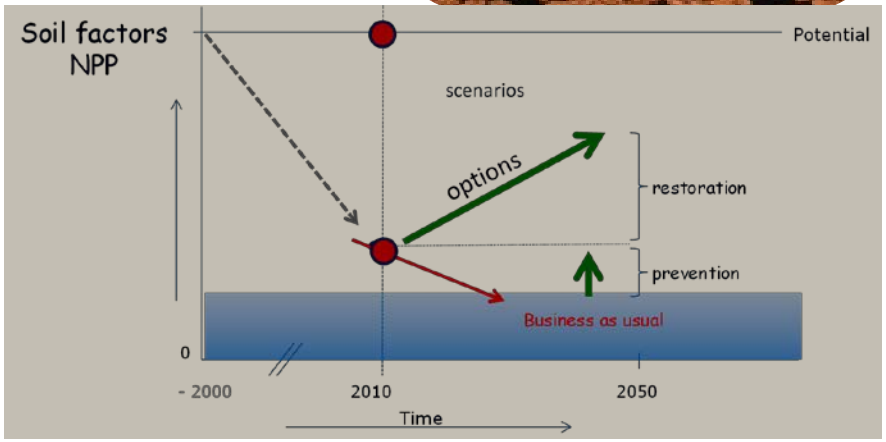


In conclusion



Understanding global soil changes

- A global 30-arc second soil property database
- A global assessment of human induced soil changes.
- Translation into soil functions



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