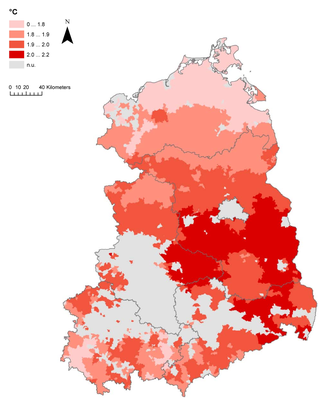
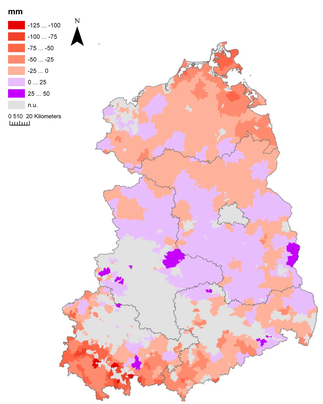
Potsdam Institute for Climate Impact Research –
Research Domain II: Climate Impacts & Vulnerabilities

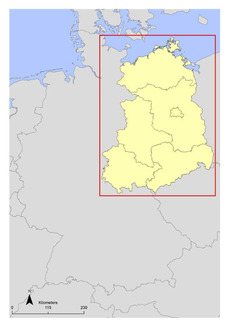
AGRI TECHNICA
The World's No.1

Aspen (Populus tremula) Short Rotation Coppice under Climate Change

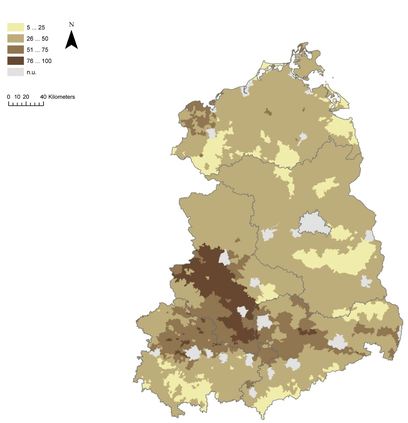
Climate Scenario







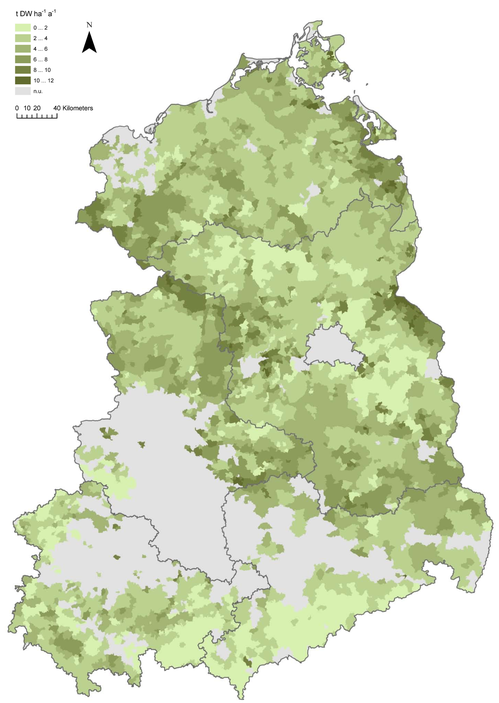
Soil index



above
Spatial changes of mean yearly temperature and precipitation conditions of the used climate scenario compared with current climate:
Temperature: + 1.9 ° C
Precipitation: - 8 mm

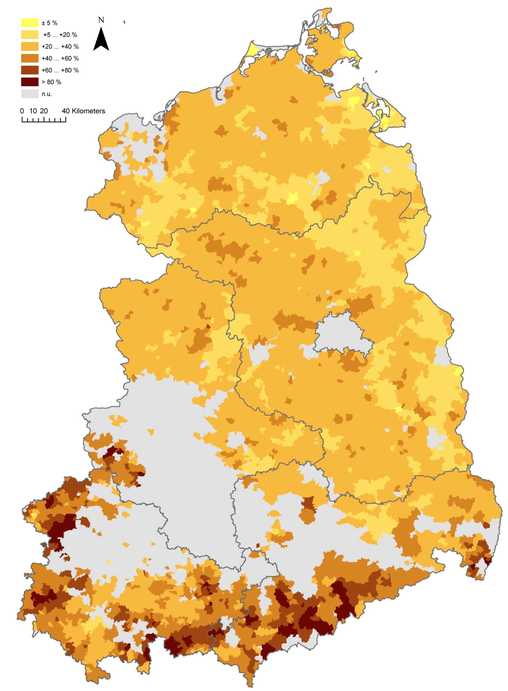
left
Soil index map of the five Federal States of Eastern Germany.
Sites with a high yield potential (e.g. Magdeburger Börde) are not used for short rotation coppice

Timber yields under current climate



Mean annual timber yield of short rotation coppices on agricultural land with a site index < 50 under current climate (1983-2003), aggregated for communities
(n.u. – soil index > 50 or no agricultural land)

Change of timber yields under a climate change scenario



Percental change of the mean annual timber yield of short rotation coppices on agricultural land under a climate change scenario 2035 -2055 compared with the yield under current climate (left), aggregated for communities.
The CO_2 fertilization effect is not taken into account.

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