

UK critical load maps

Acidity critical load maps: include updates made in 2008 and 2009

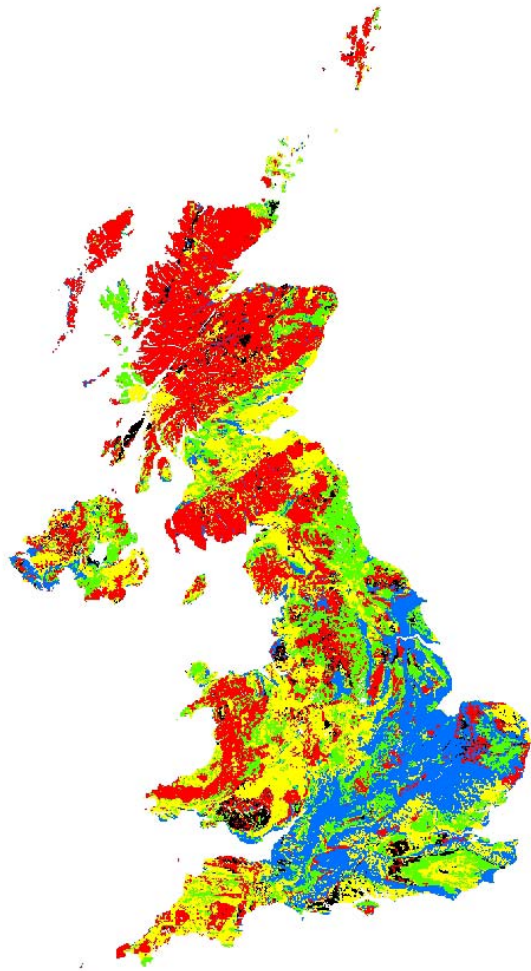
Nutrient nitrogen critical load maps: updated May 2011

For further information refer to [UK Status Reports](#)

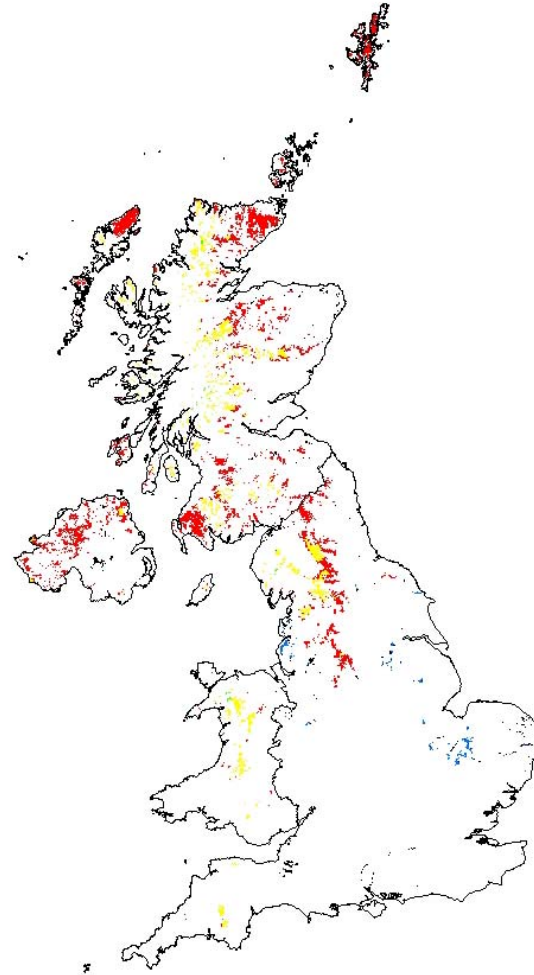
ACIDITY CRITICAL LOADS

Acidity critical loads for soils

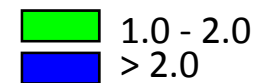
For dominant soil in each 1x1 km square



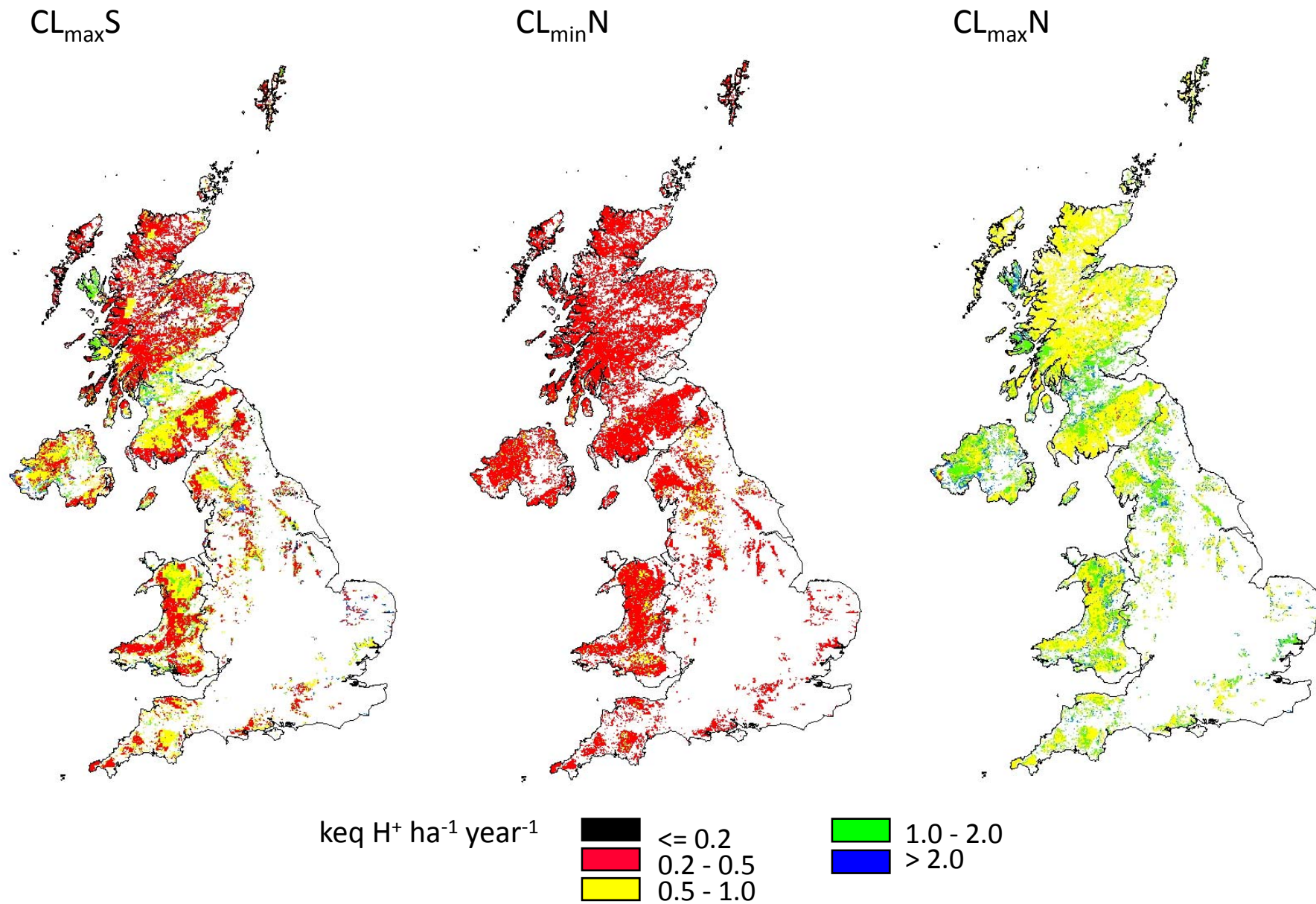
For squares dominated by peat soils



keq H^+ ha⁻¹ year⁻¹



Acidity critical loads: Acid grassland

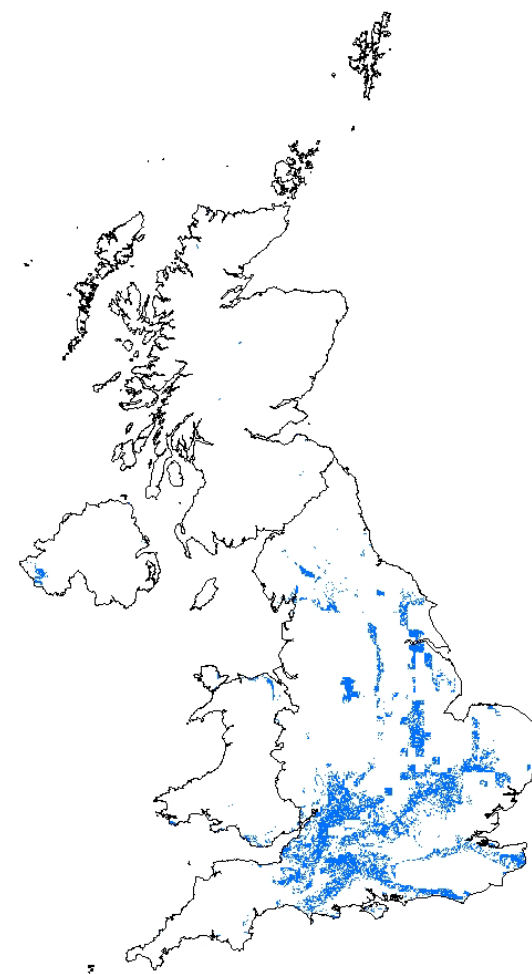
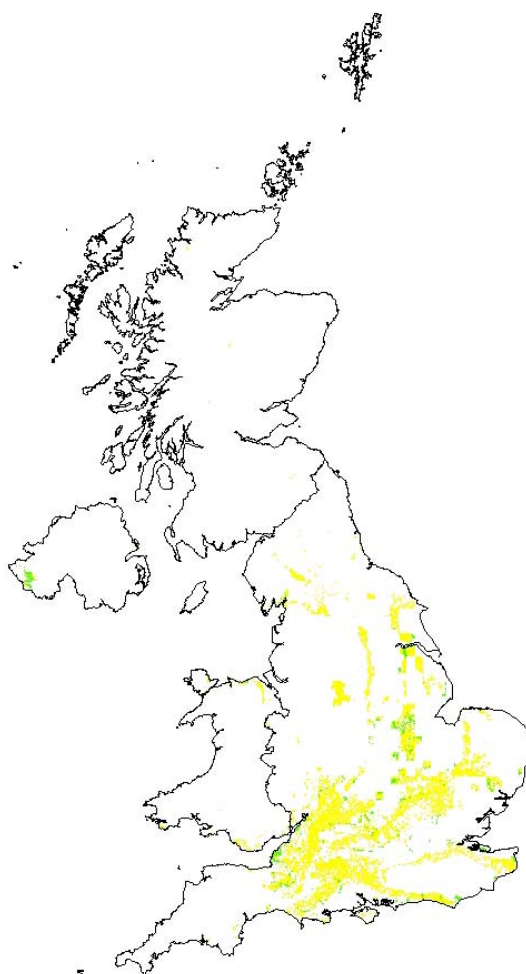
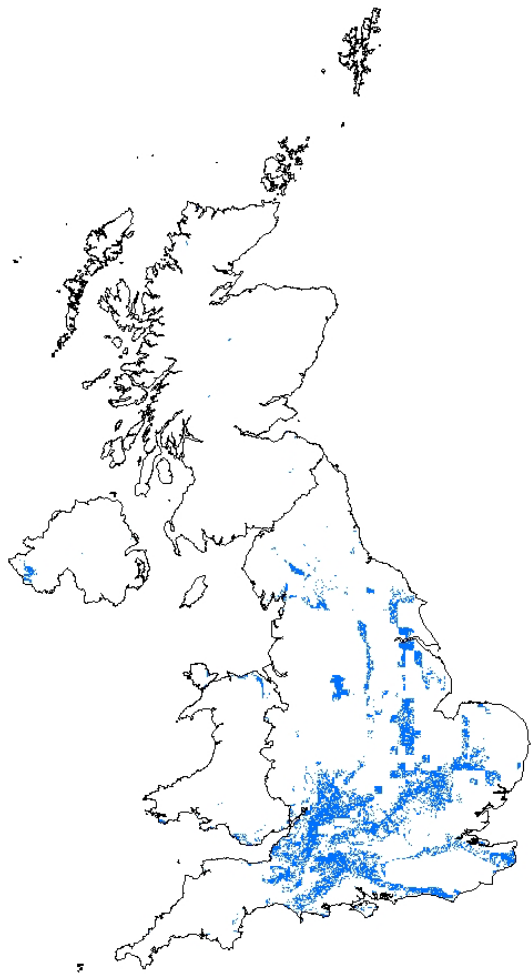


Acidity critical loads: Calcareous grassland

$CL_{\max}^S$

$CL_{\min}^N$

$CL_{\max}^N$



keq H^+ ha⁻¹ year⁻¹



≤ 0.2
0.2 - 0.5
0.5 - 1.0



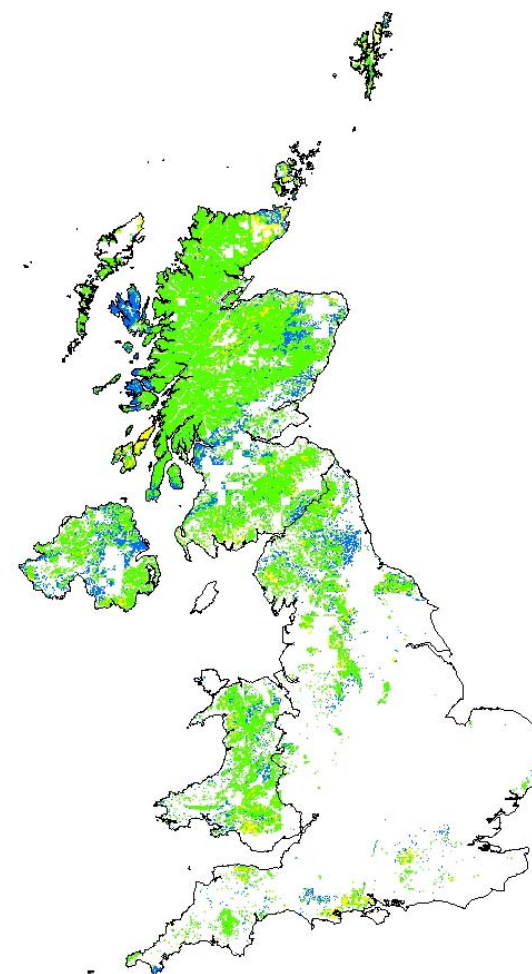
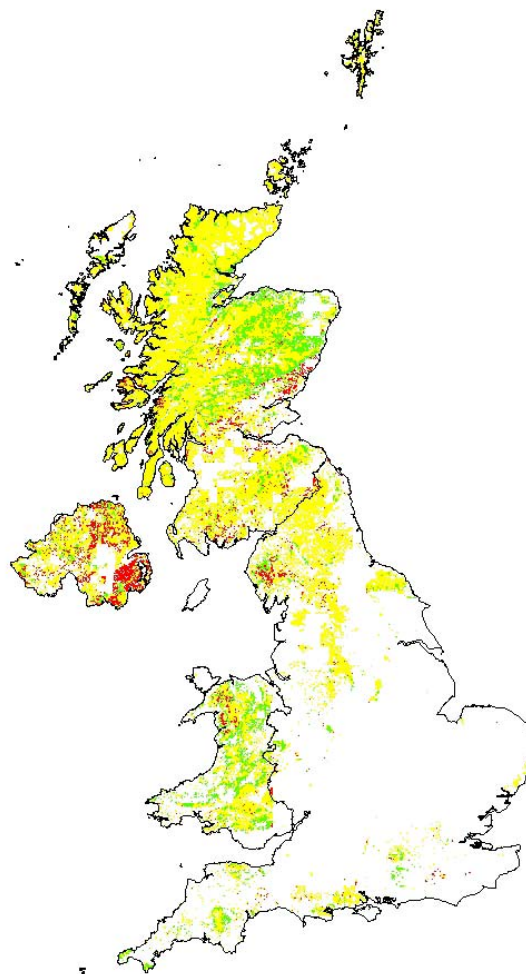
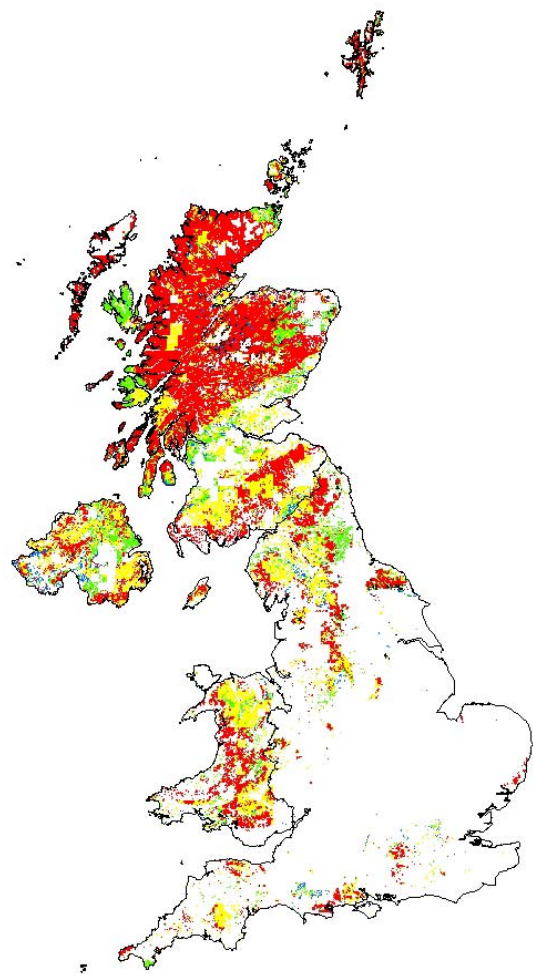
1.0 - 2.0
> 2.0

Acidity critical loads: Dwarf shrub heath

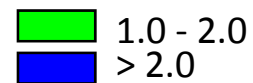
$CL_{\max}S$

$CL_{\min}N$

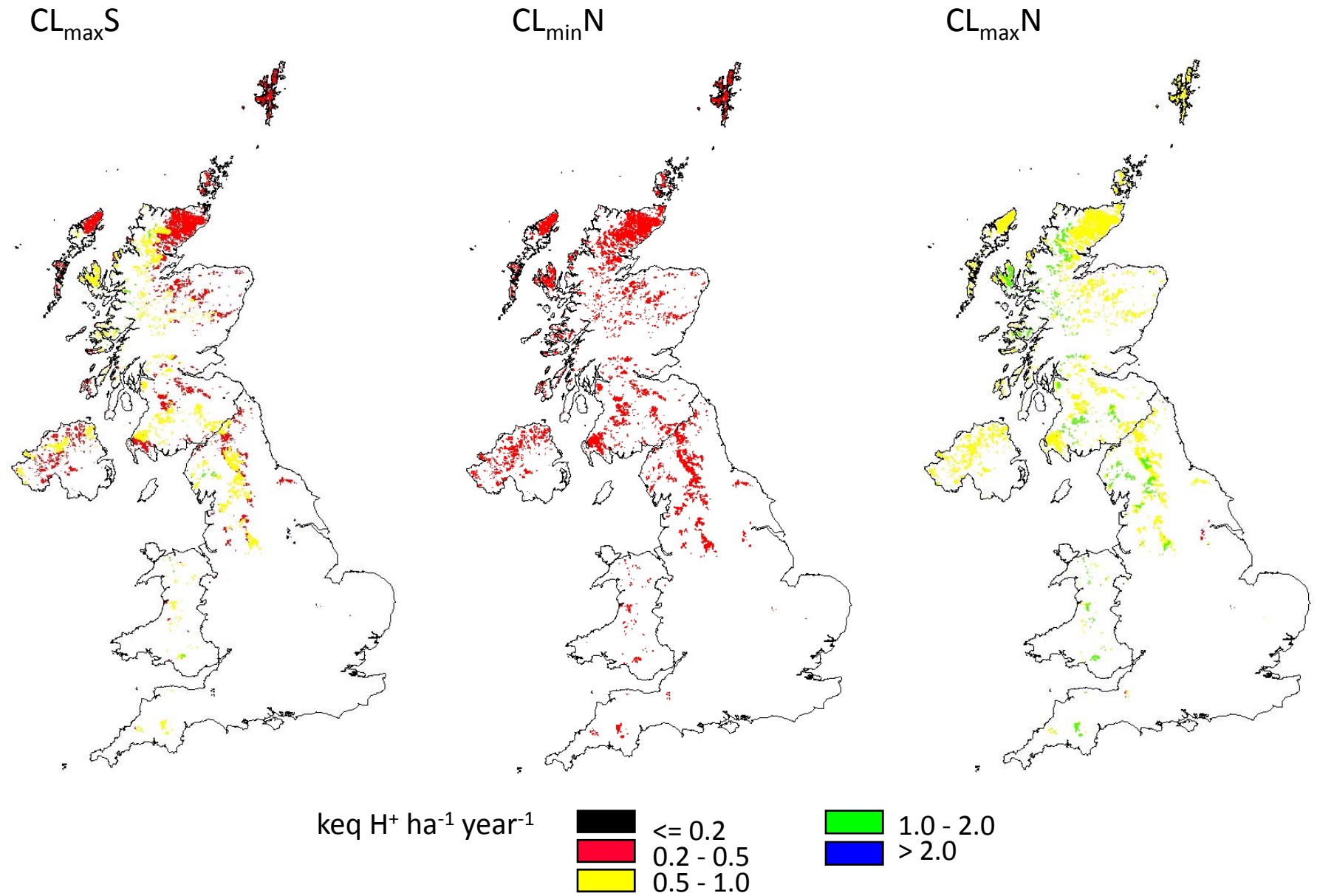
$CL_{\max}N$



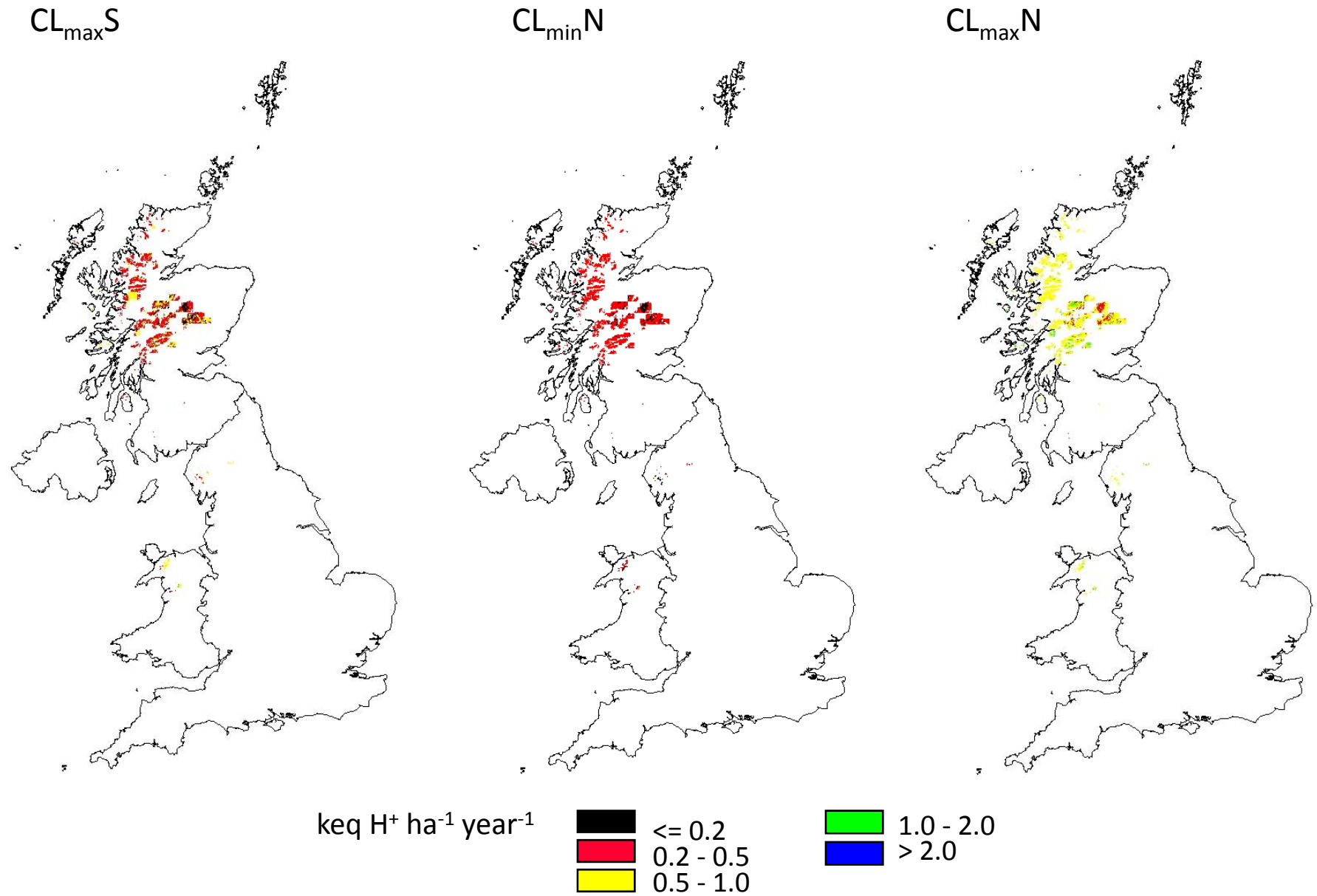
$\text{keq H}^+ \text{ha}^{-1} \text{year}^{-1}$



Acidity critical loads: Bog



Acidity critical loads: Montane

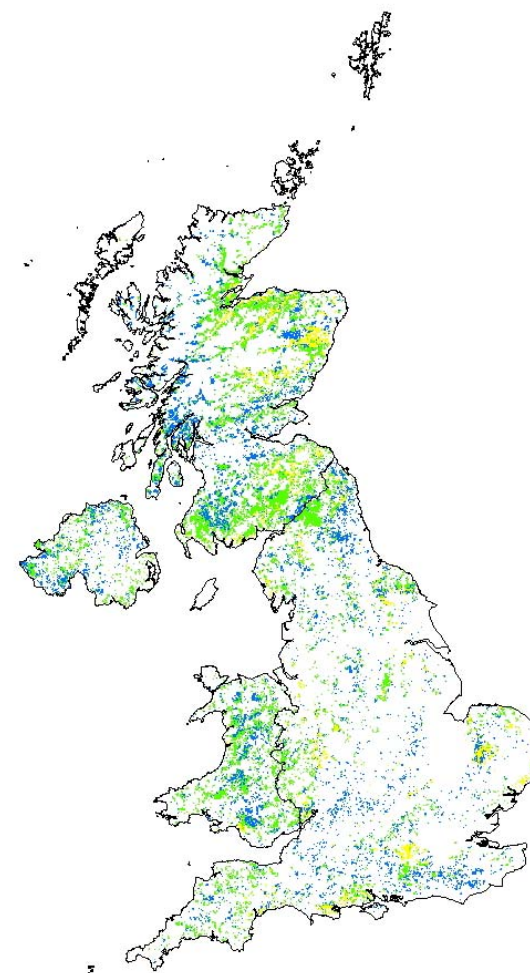
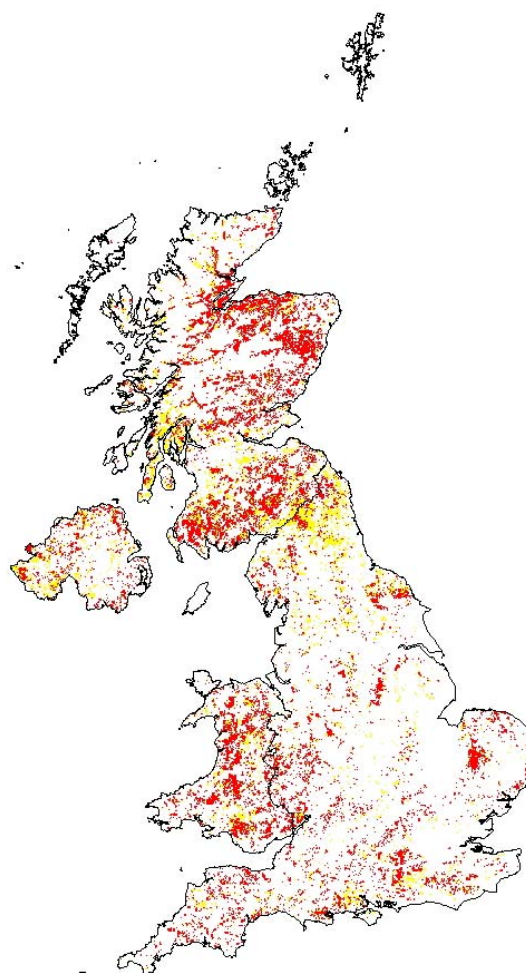
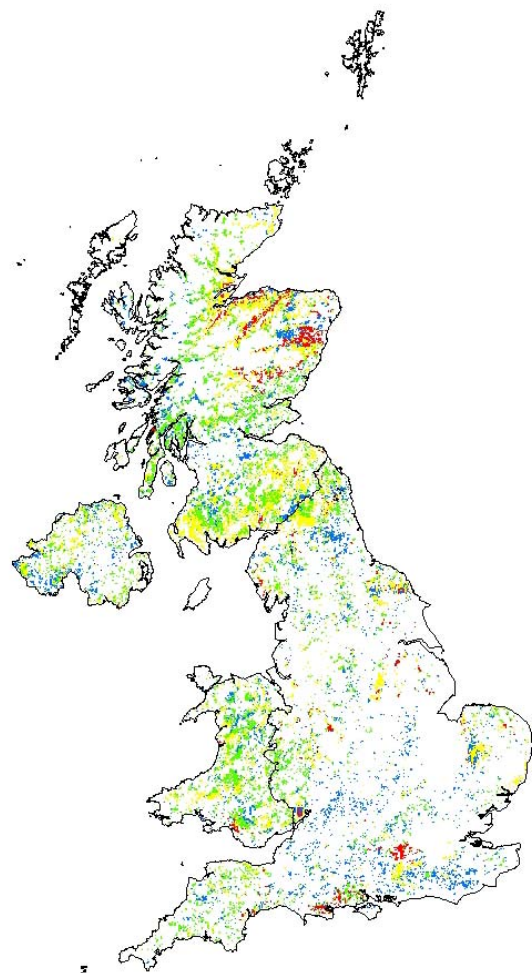


Acidity critical loads: Managed (productive) coniferous woodland

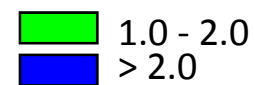
$CL_{\max}S$

$CL_{\min}N$

$CL_{\max}N$



keq H^+ ha $^{-1}$ year $^{-1}$

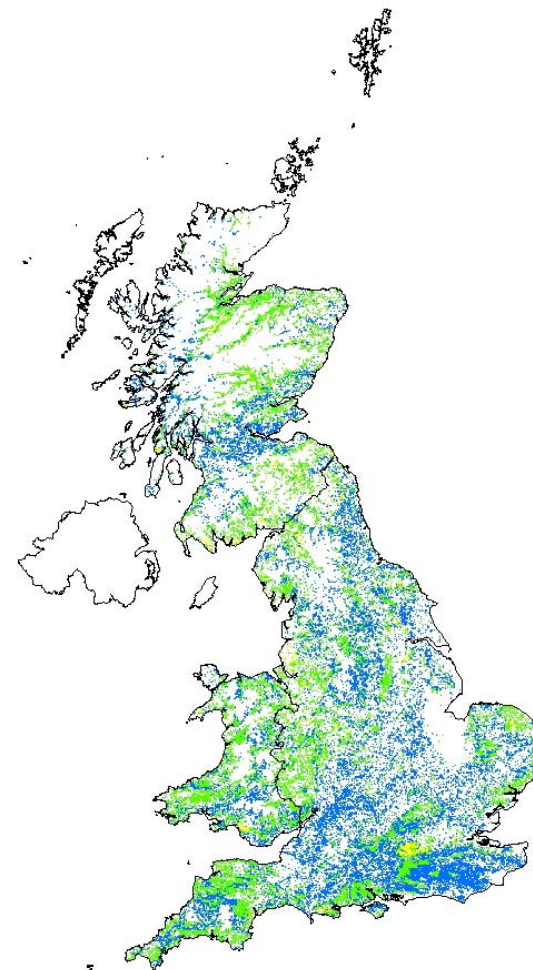
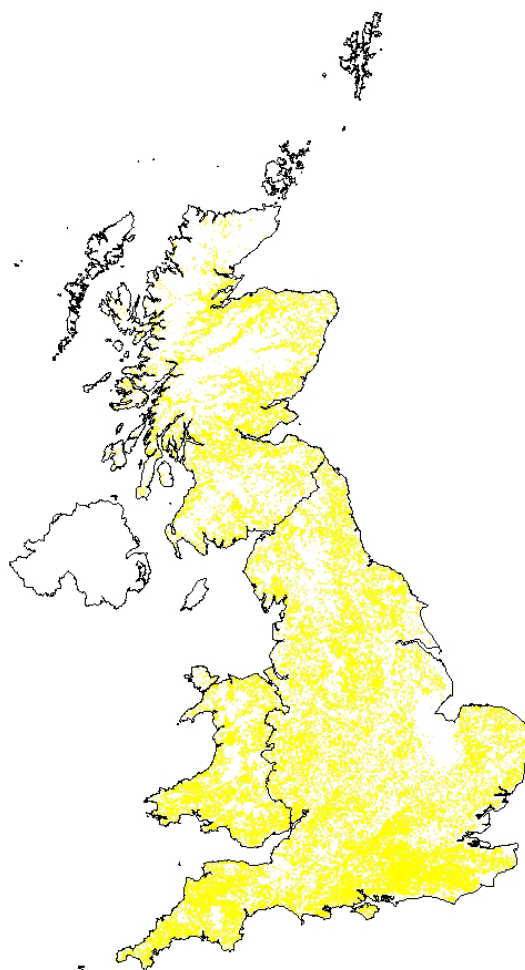
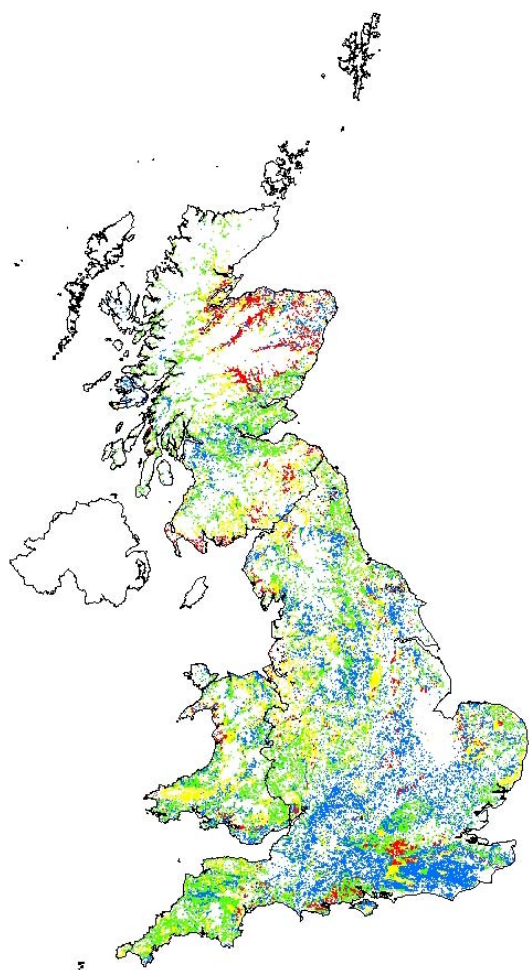


Acidity critical loads: Managed (productive) broadleaved woodland

$CL_{\max}S$

$CL_{\min}N$

$CL_{\max}N$



keq H^+ ha^{-1} $year^{-1}$

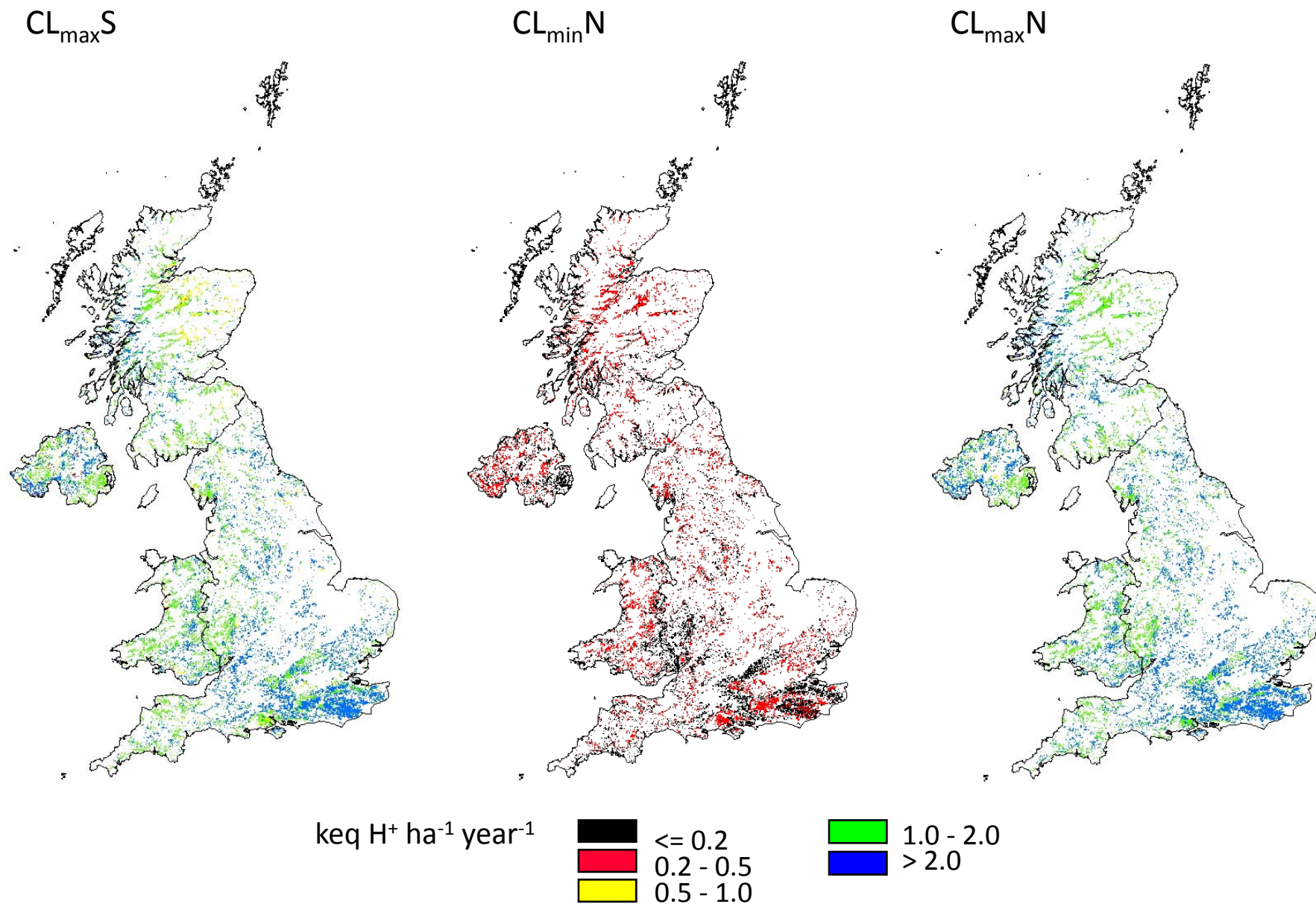


≤ 0.2
 $0.2 - 0.5$
 $0.5 - 1.0$

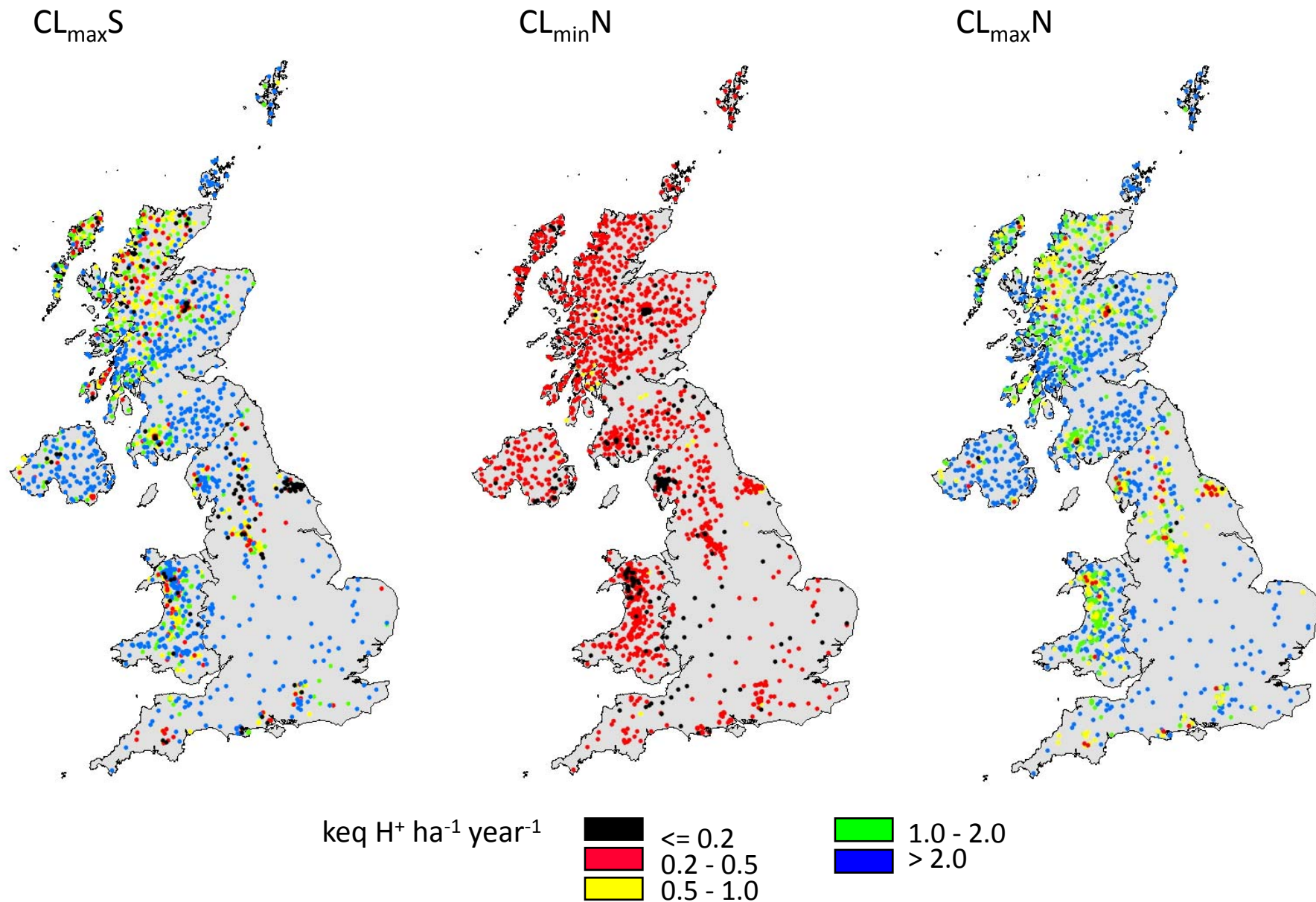


$1.0 - 2.0$
 > 2.0

Acidity critical loads: Unmanaged coniferous and broadleaved woodland



Acidity critical loads: surface waters (1752 sites sampled across the UK)



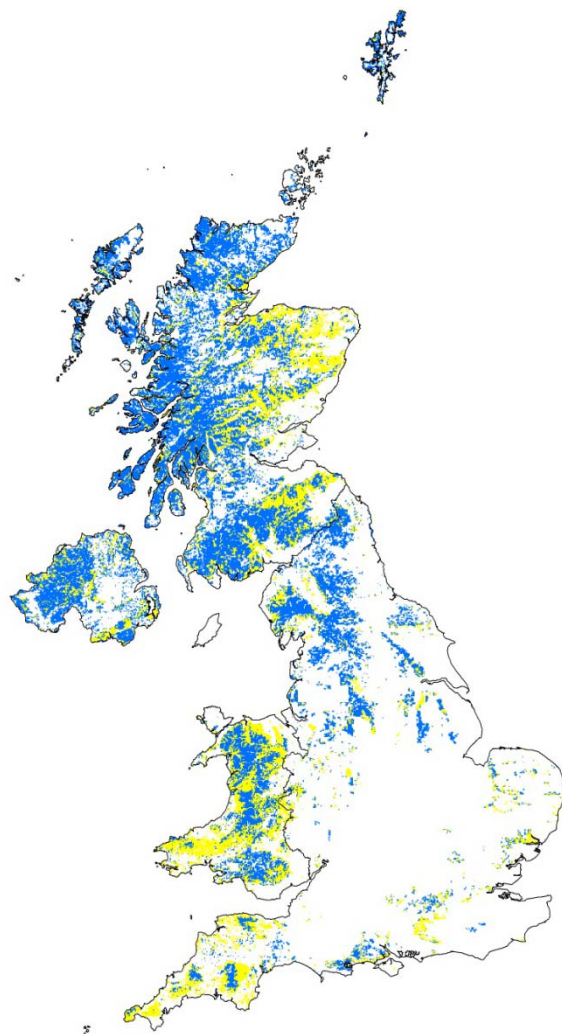
NUTRIENT NITROGEN CRITICAL LOADS

Mapped in $\text{kg N ha}^{-1} \text{ year}^{-1}$

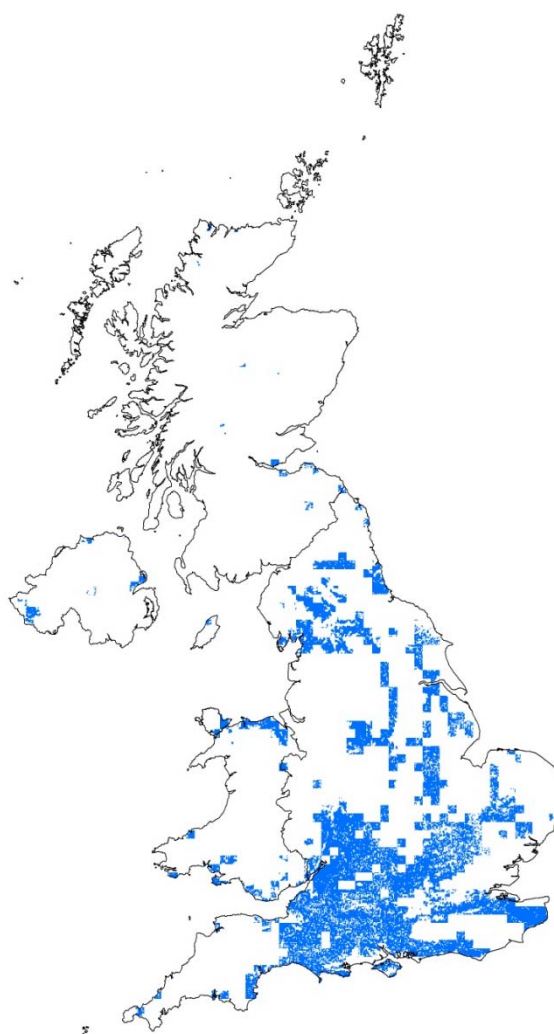
To convert to $\text{keq ha}^{-1} \text{ year}^{-1}$ divide by 14

Nutrient nitrogen critical loads ($CL_{nut}N$):

Acid grassland



Calcareous grassland



Dune grassland



kg N ha⁻¹ year⁻¹

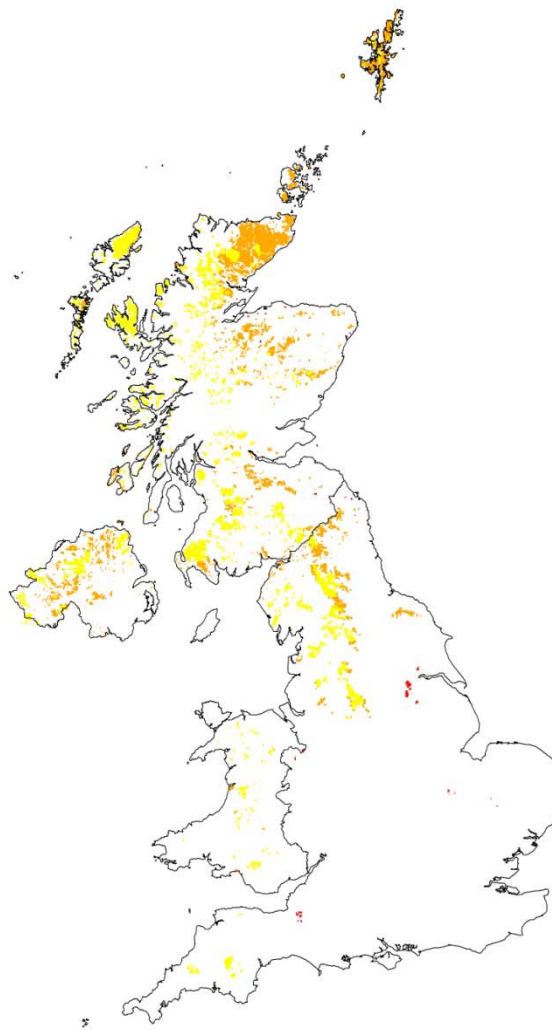
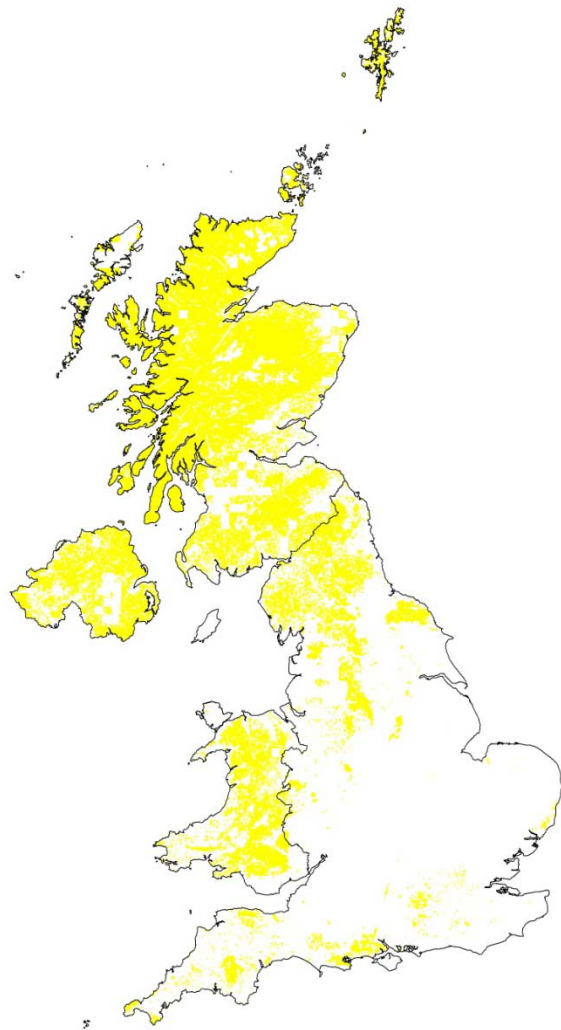


Nutrient nitrogen critical loads ($CL_{nut}N$):

Dwarf shrub heath

Bog

Montane



kg N ha⁻¹ year⁻¹



7



8



9



10



12



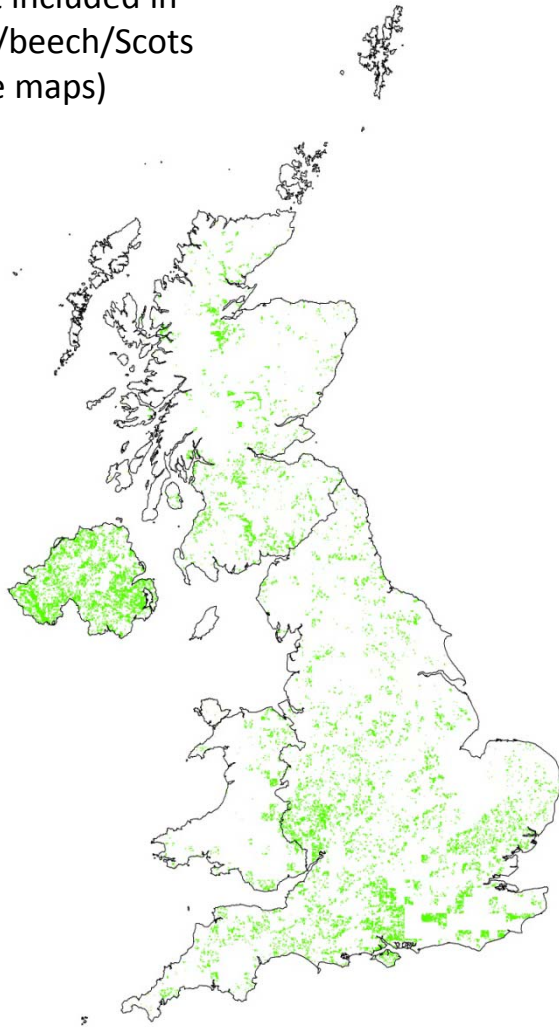
15



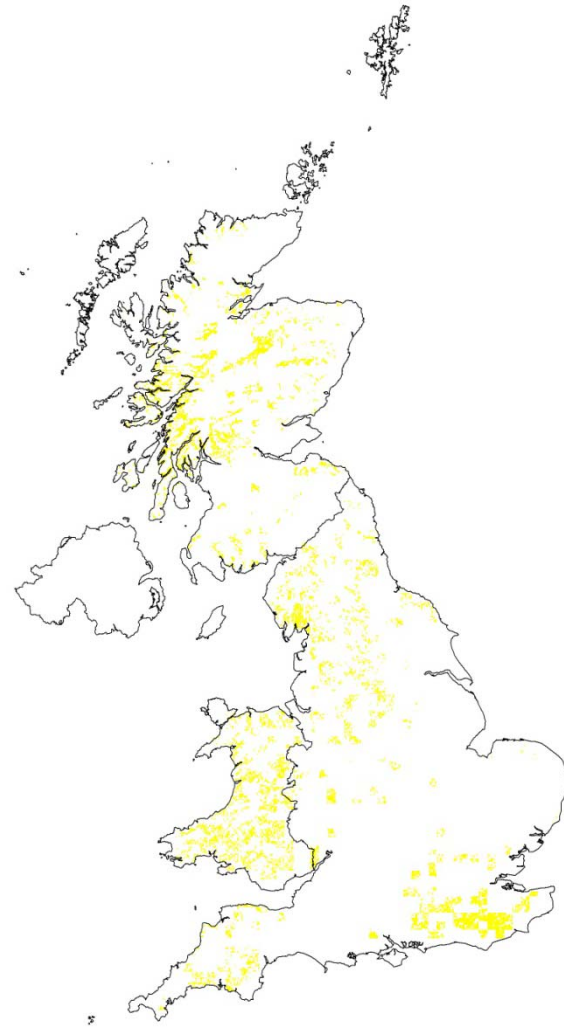
25

Nutrient nitrogen critical loads ($CL_{nut}N$):

Unmanaged coniferous & broadleaved woodland
(not included in
oak/beech/Scots
pine maps)



Acidophilous oak woodland

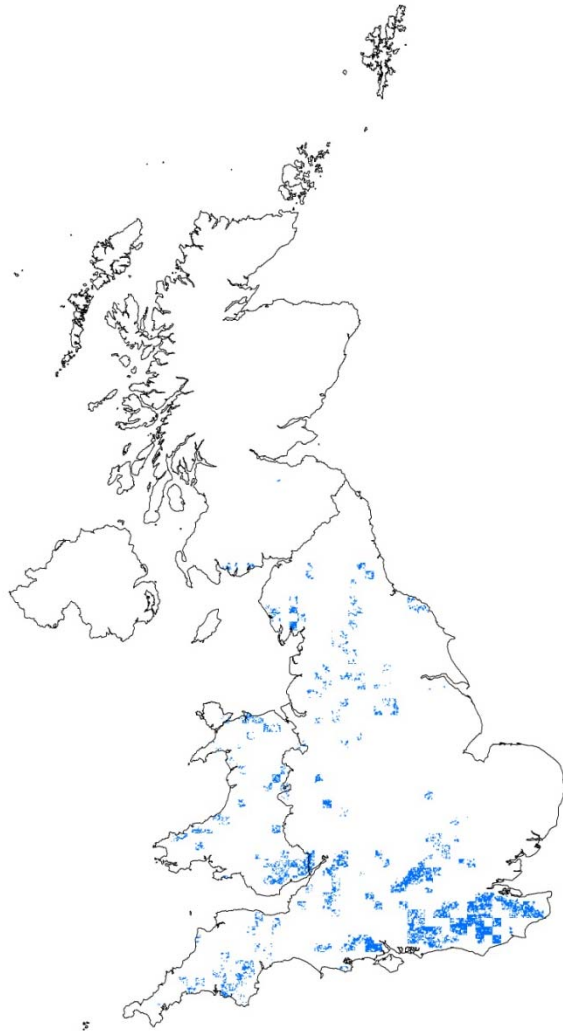


kg N ha⁻¹ year⁻¹

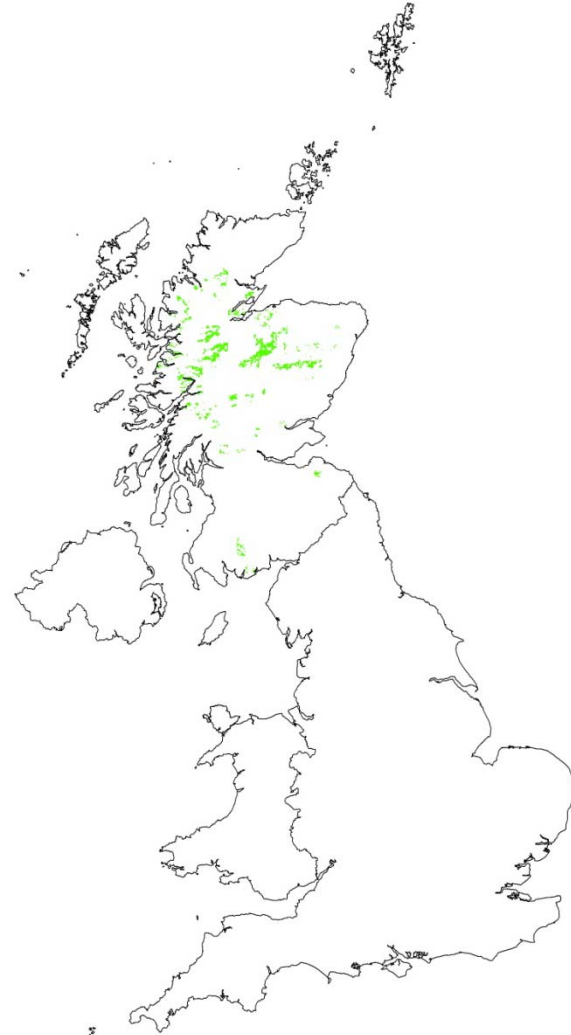


Nutrient nitrogen critical loads ($CL_{nut}N$):

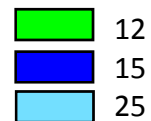
Beech woodland



Scots pine woodland



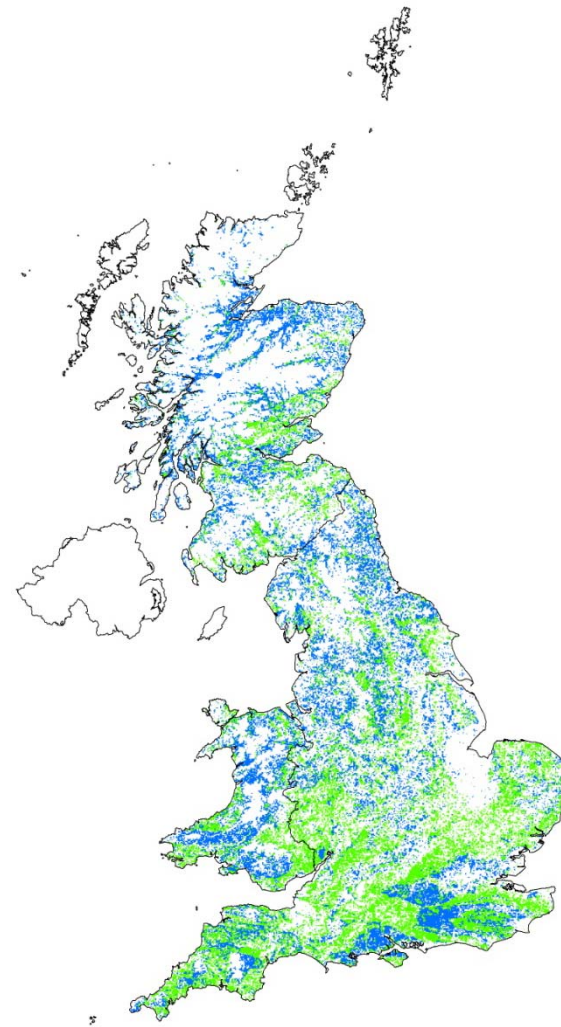
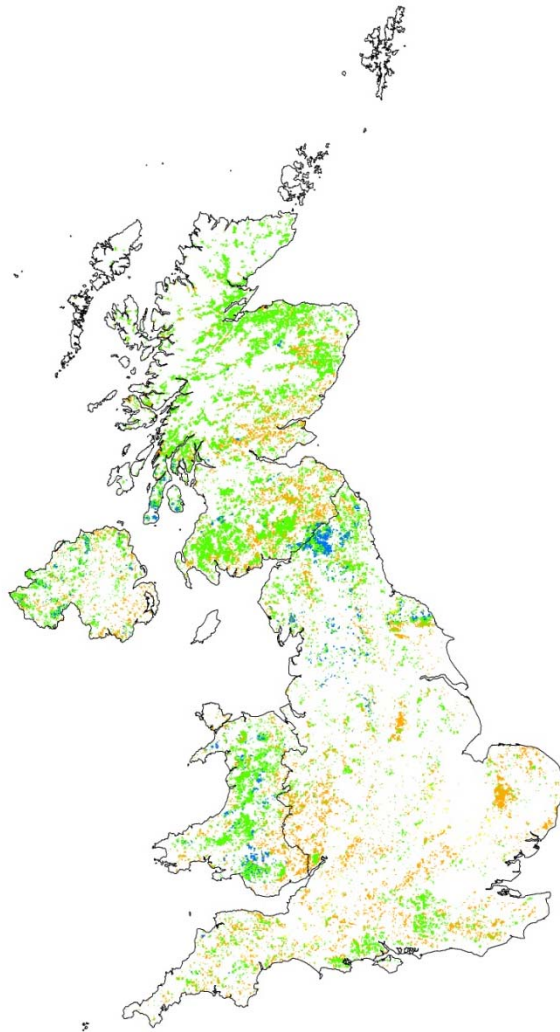
kg N ha⁻¹ year⁻¹



Nutrient nitrogen critical loads ($CL_{nut}N$ based on mass balance equation):

Managed (productive) coniferous woodland

Managed (productive) broadleaved woodland



kg N ha⁻¹ year⁻¹

