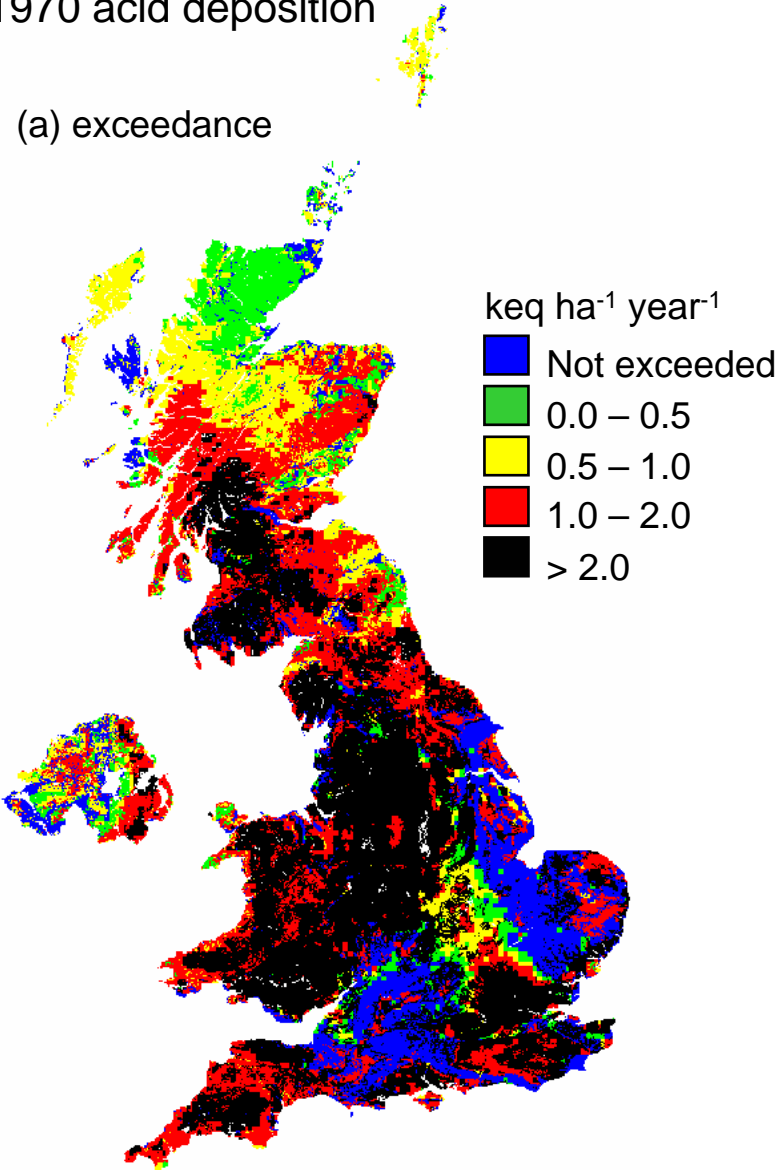


Figure 4.1

Exceedance of empirical critical loads for soils by FRAME calibrated 1970 acid deposition

(a) exceedance



(b) exceedance ratio

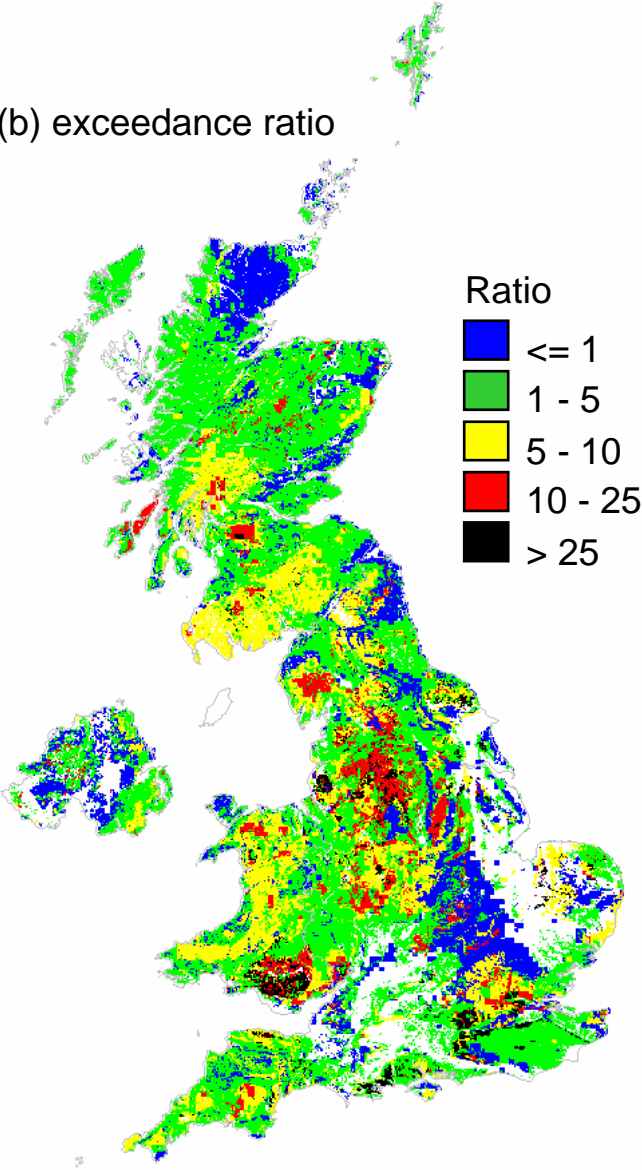


Figure 4.2

Empirical critical loads of acidity for soils (February 2003)

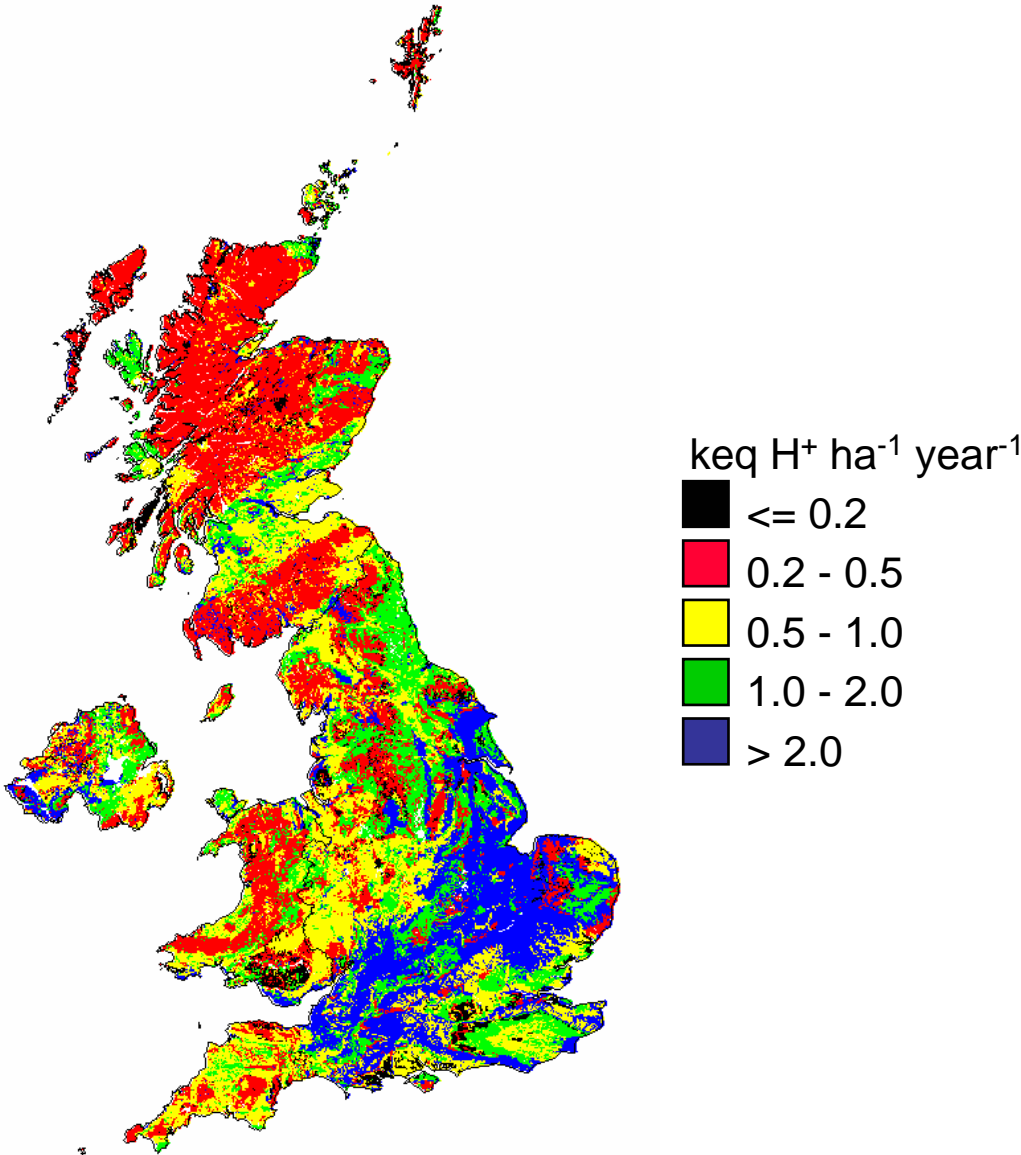


Figure 4.3

FRAME calibrated 1970 deposition

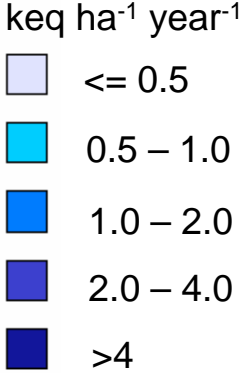
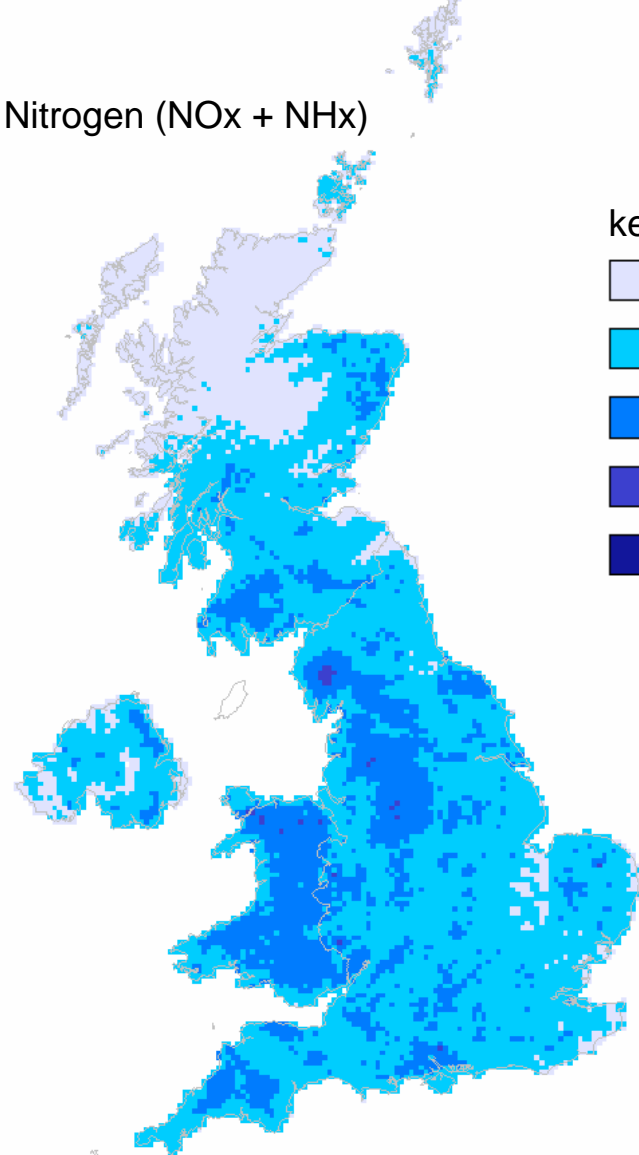
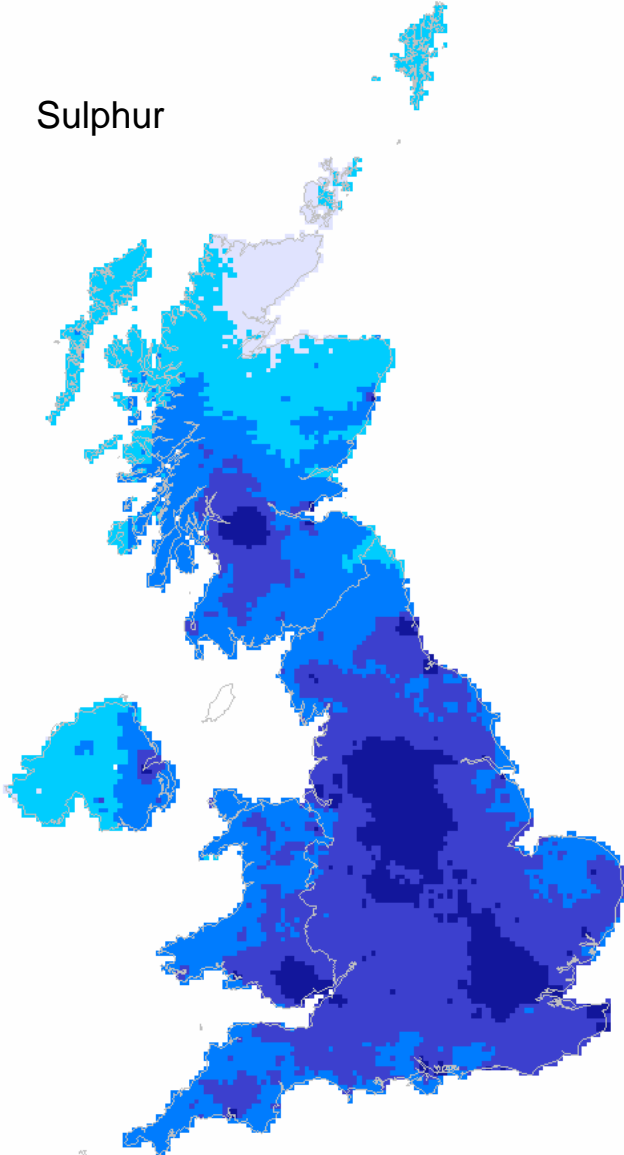


Figure 4.4

Dominant soil types for 1km squares
(selected soil associations) where
critical loads habitat is dwarf shrub
heath and empirical acidity critical
loads are exceeded by FRAME
1970 acid deposition

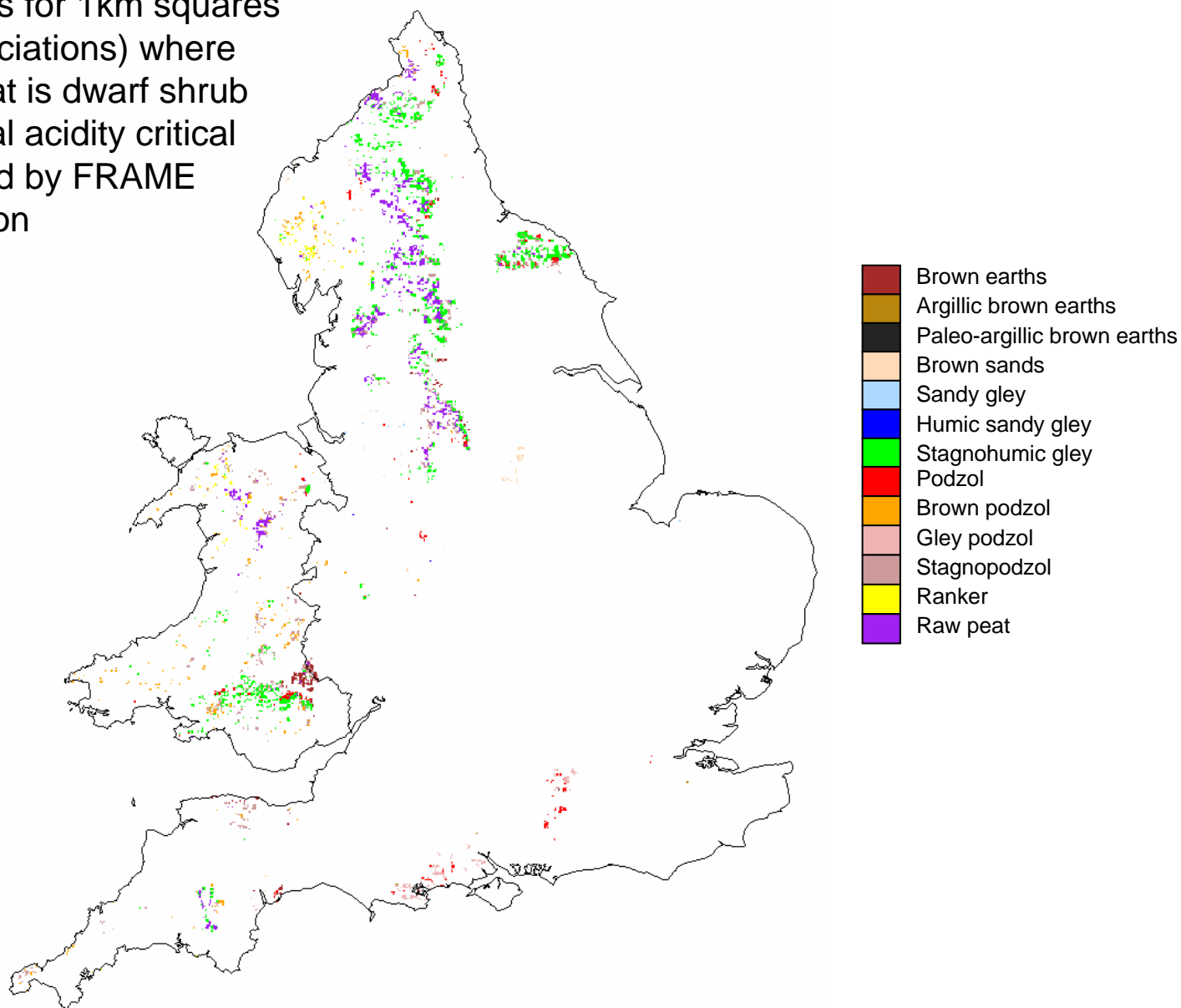


Figure 5.1

Accumulated exceedance (acidity) for 1995-97 by habitat and deposition model

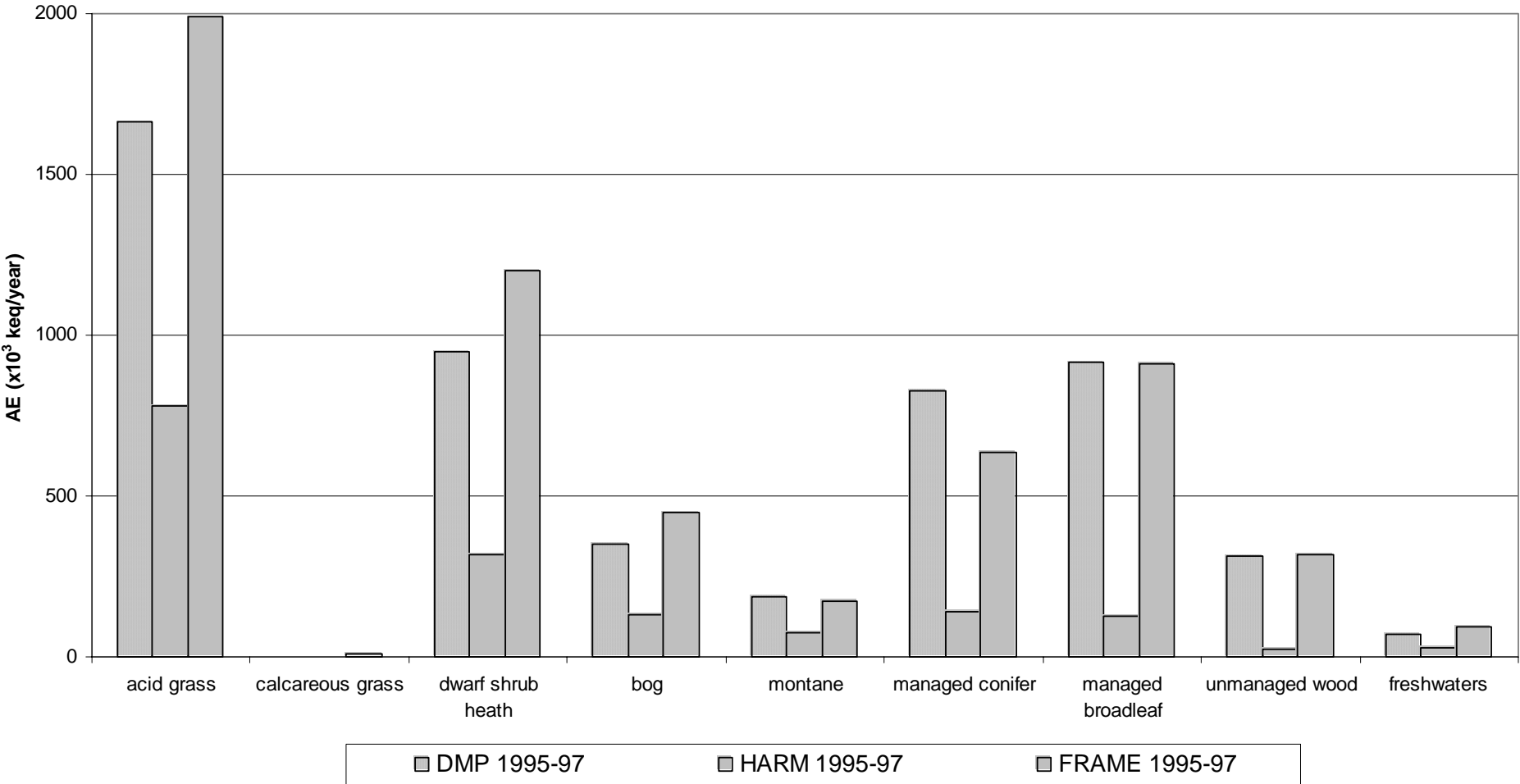


Figure 5.2

Accumulated exceedance (acidity) for 1990 by habitat and deposition model

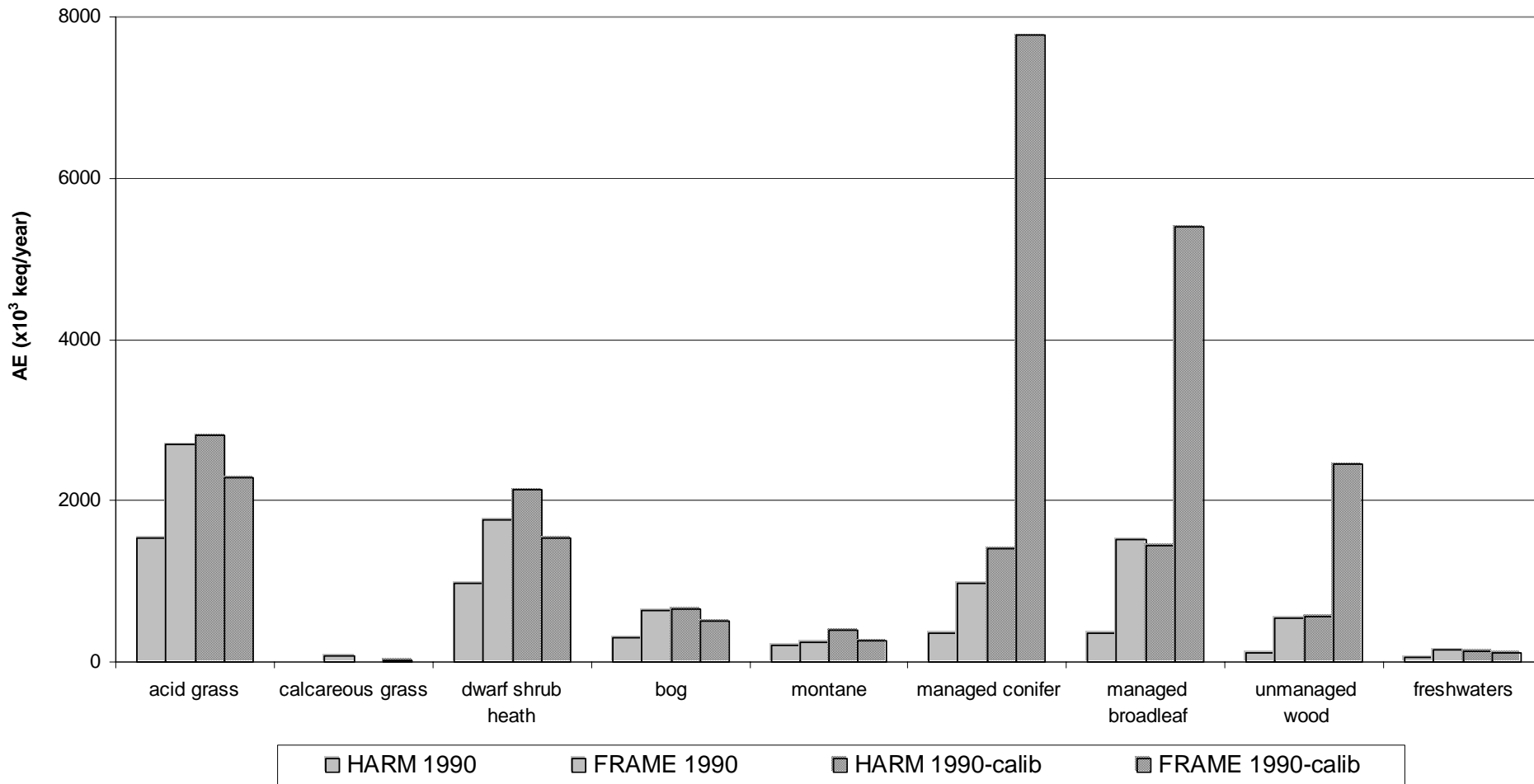


Figure 5.3

Accumulated exceedance (acidity) for 2010 (NECD) by habitat and deposition model

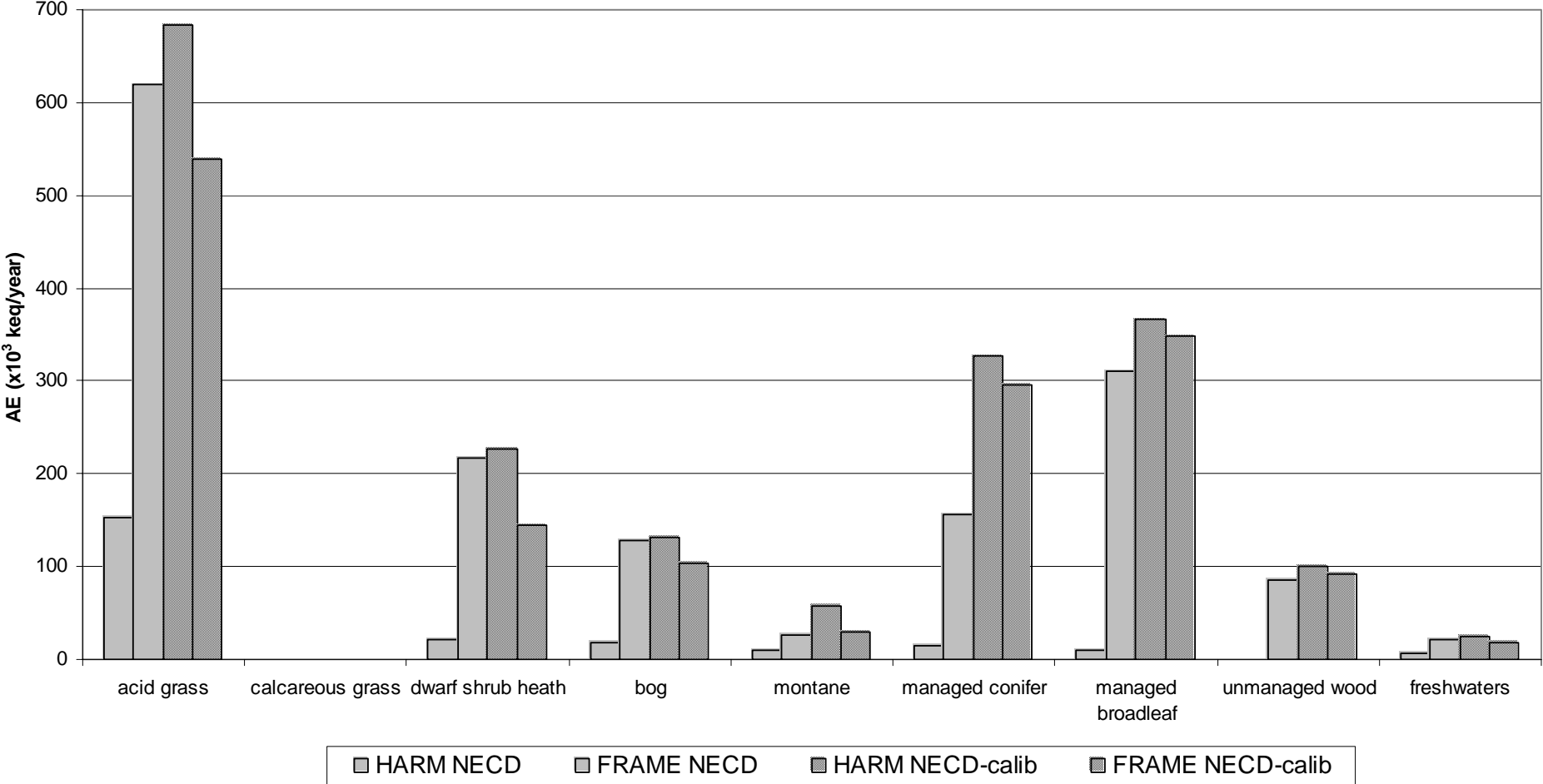


Figure 5.4

Accumulated exceedance (nitrogen) for 1995-97 by habitat and deposition model

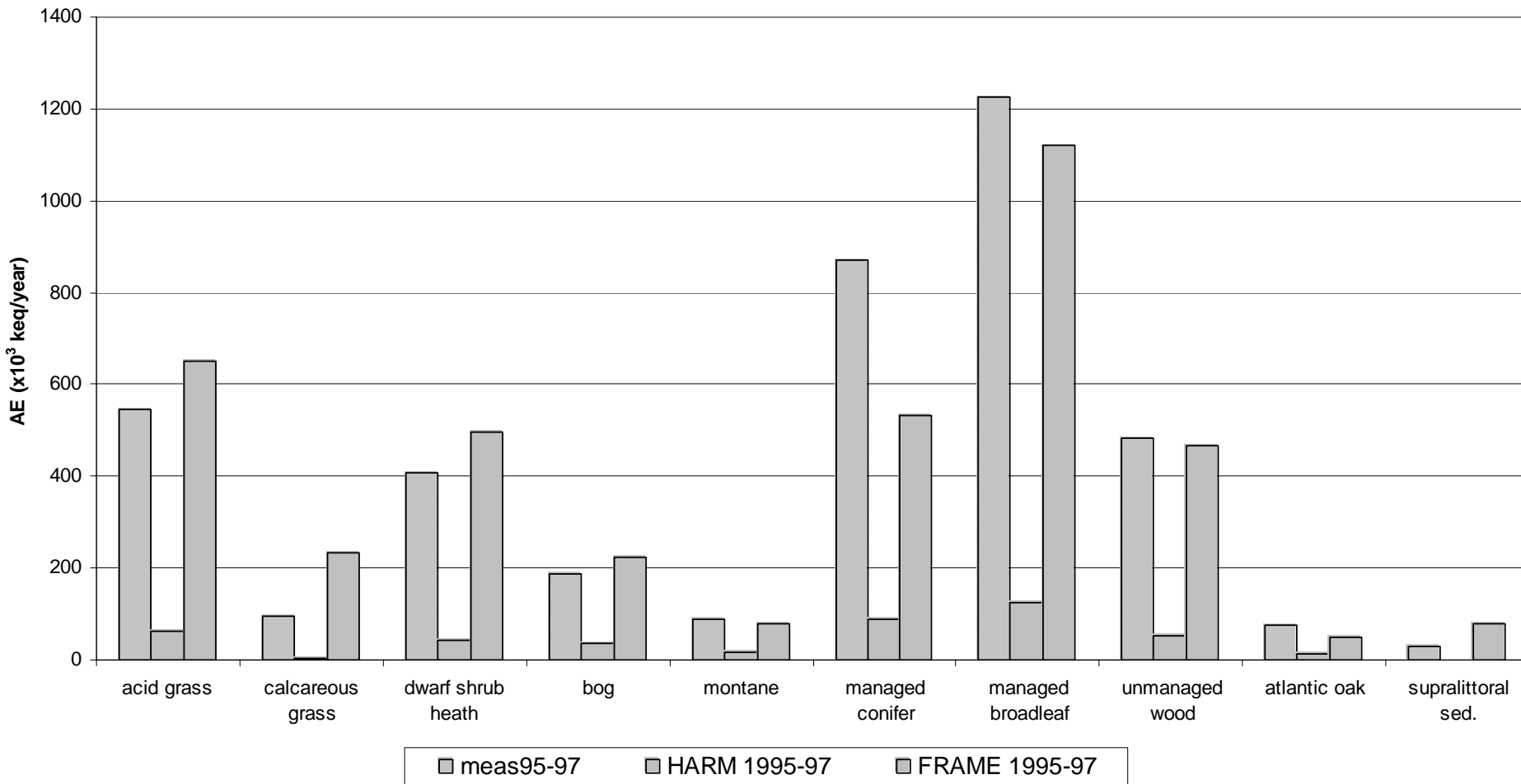


Figure 5.5

Accumulated exceedance (nitrogen) for 1990 by habitat and deposition model

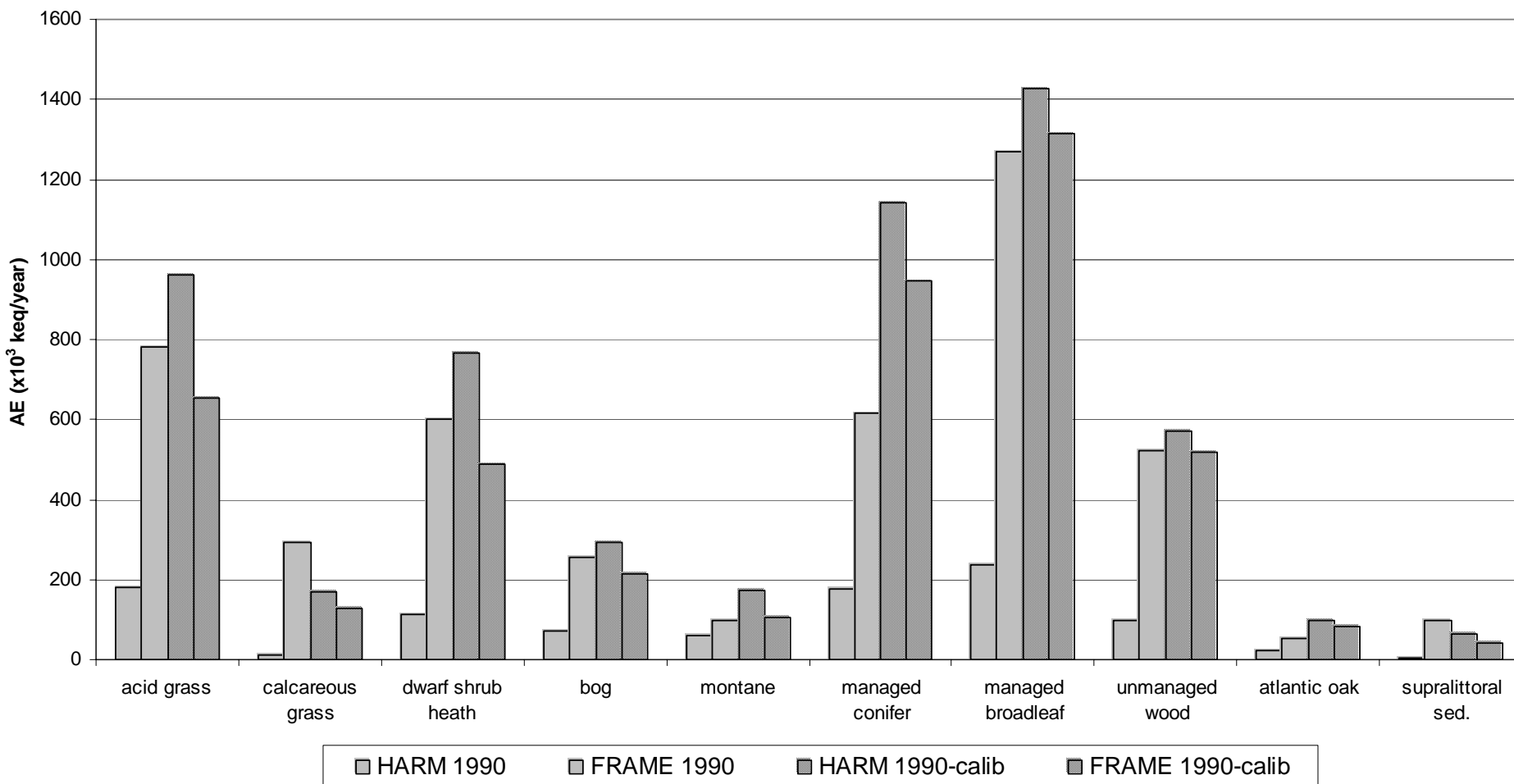


Figure 5.6

Accumulated exceedance (nitrogen) for 2010 (NECD) by habitat and deposition model

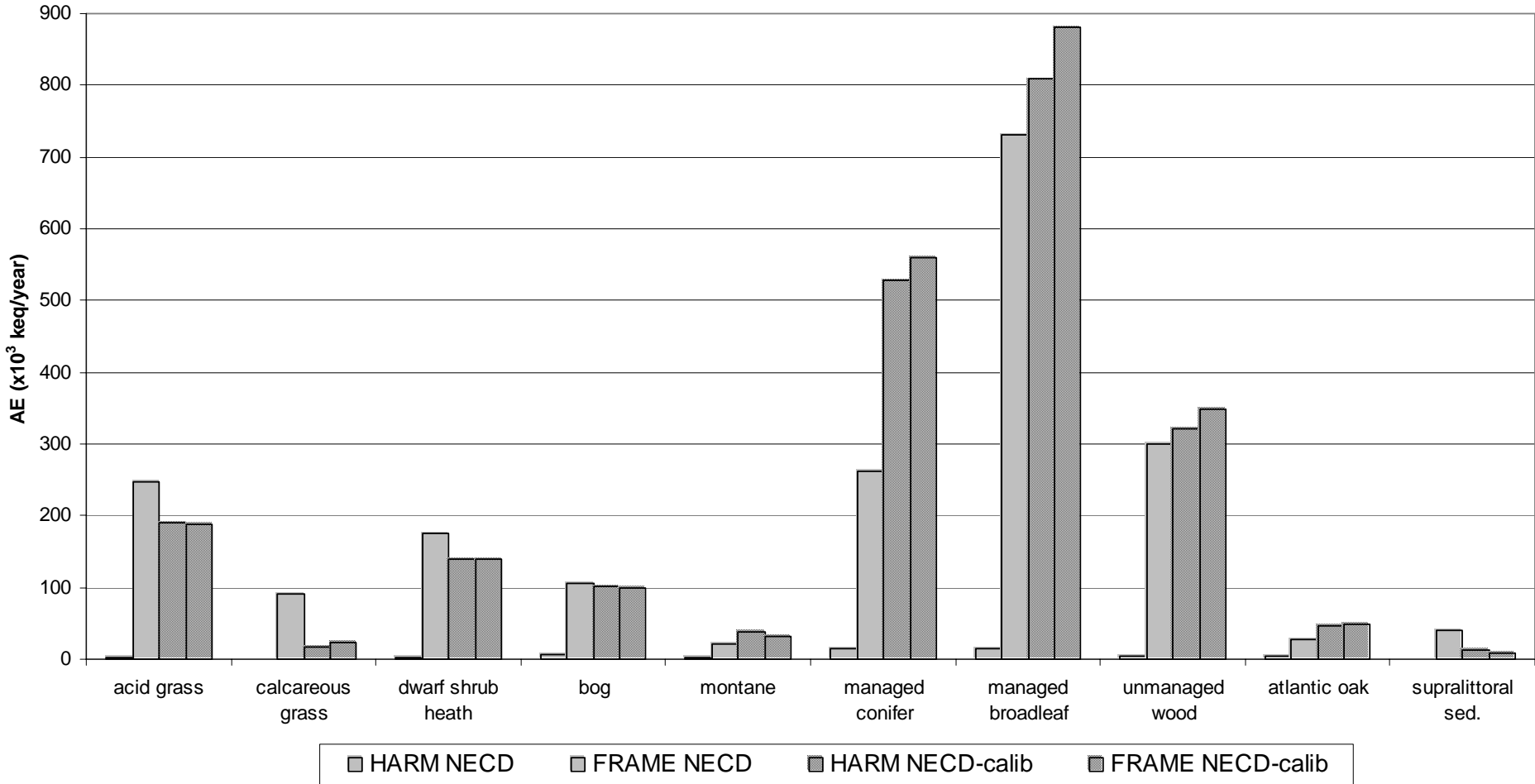


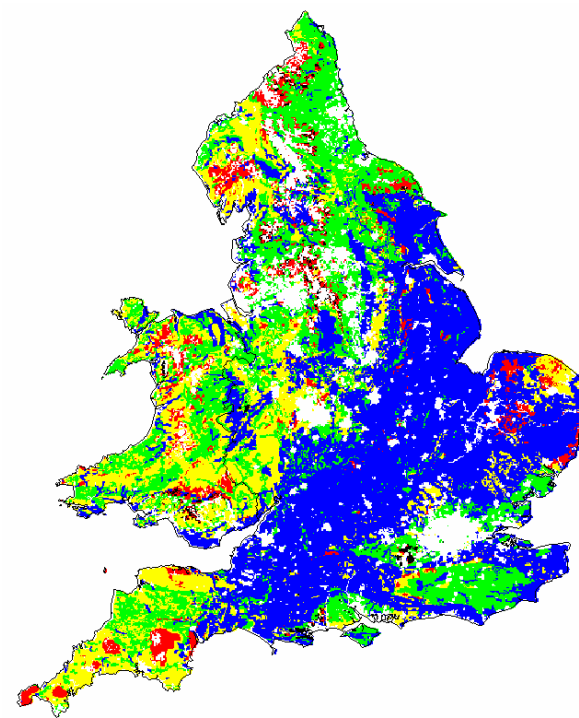
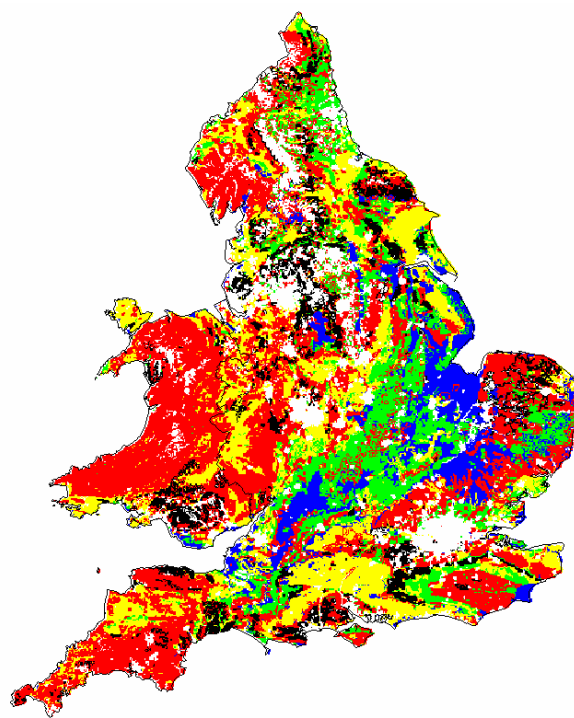
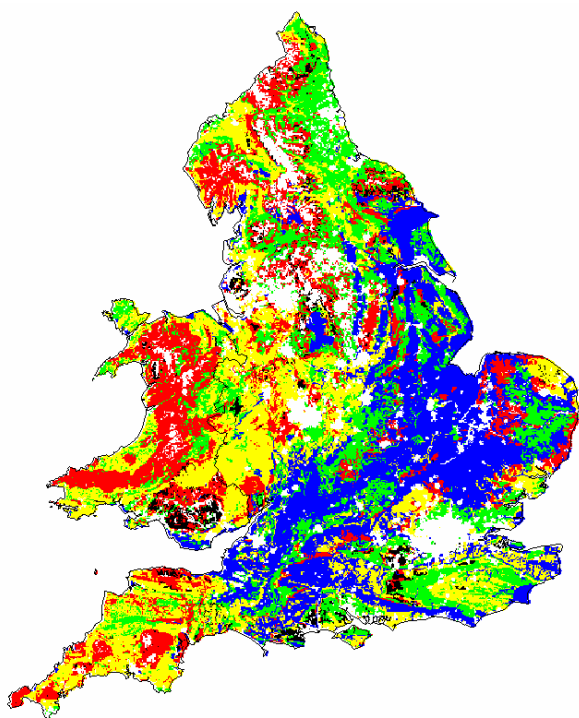
Figure 6.1

Empirical maps of critical loads for acidity based on:

(a) Dominant soil

(b) Most sensitive soil

(c) Least sensitive soil



NB. Dominant map differs from both February 2001 and February 2003 data

Probability of exceedance curves for modelled 2010 deposition data

(a) Area exceeded

(b) Accumulated Exceedance

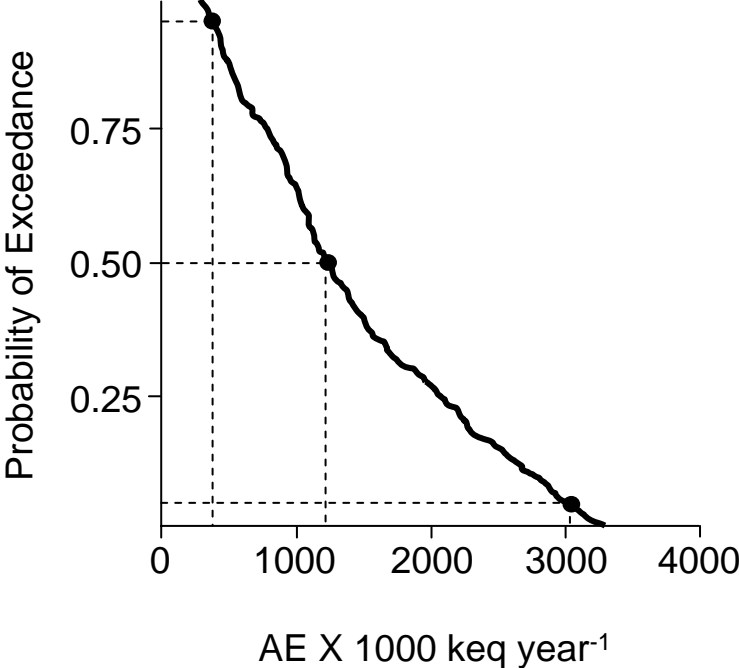
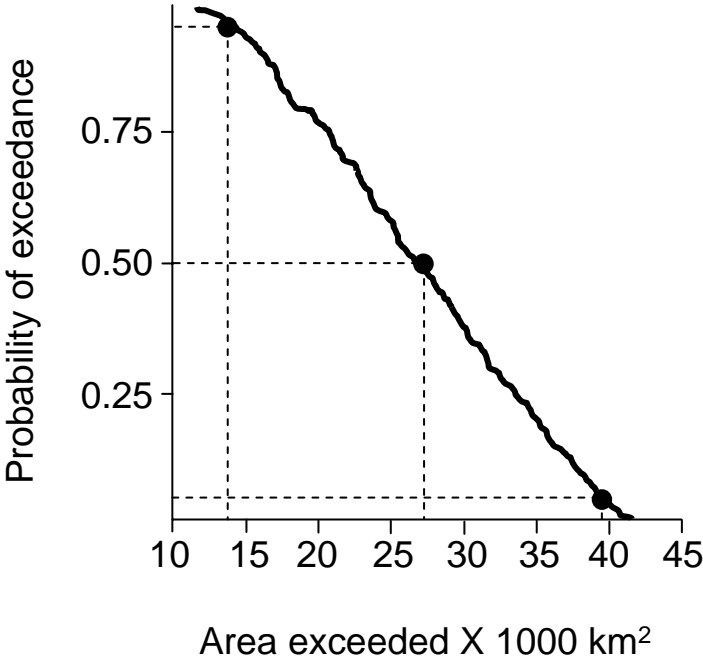


Figure 6.3

10km maps of area of ecosystems where acidity critical loads are exceeded by:

(a) 5th percentile deposition
ie, 95% probability of exceedance

(b) 50th percentile deposition (deterministic
case), i.e. 50% probability of exceedance

(c) 95th percentile deposition
ie, 5% probability of exceedance

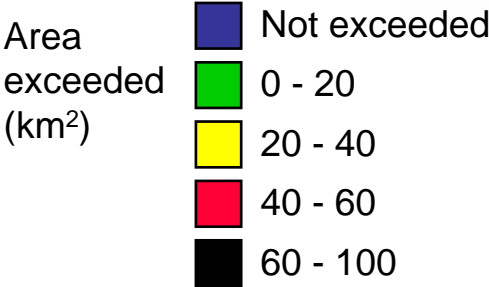
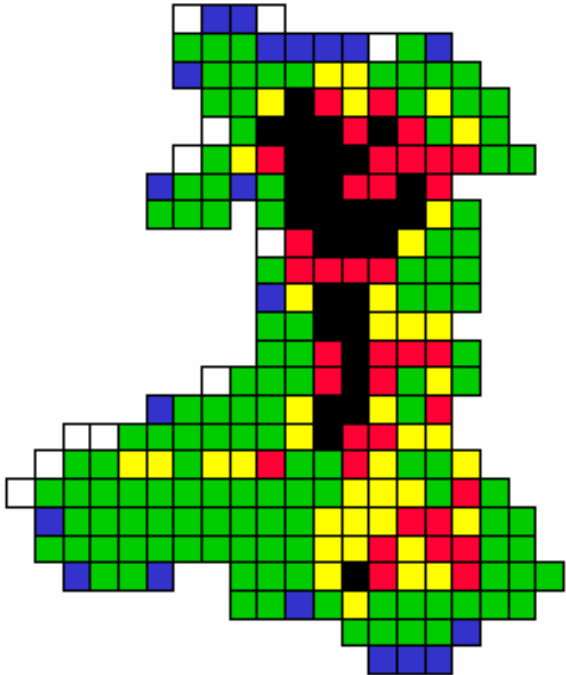
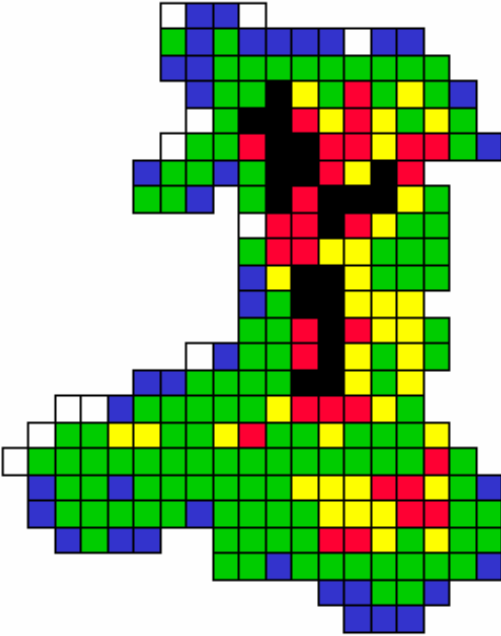
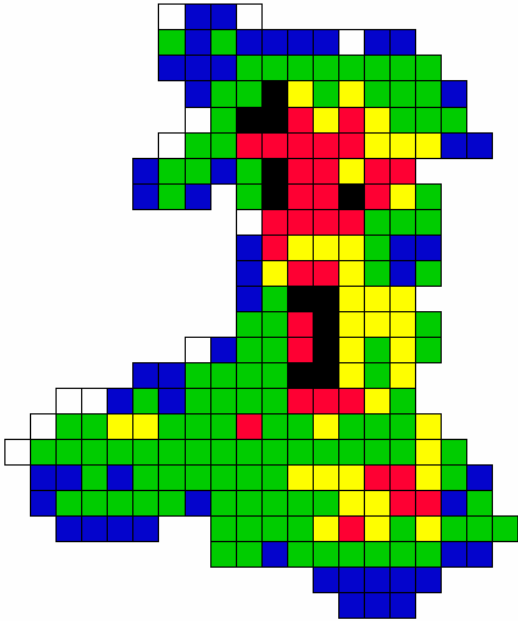


Figure 6.4

10km maps of accumulated exceedance where acidity critical loads exceeded by:

(a) 5th percentile deposition
ie, 95% probability exceedance

(b) 50th percentile deposition (deterministic case), i.e. 50% probability of exceedance

(c) 95th percentile deposition
ie, 5% probability of exceedance

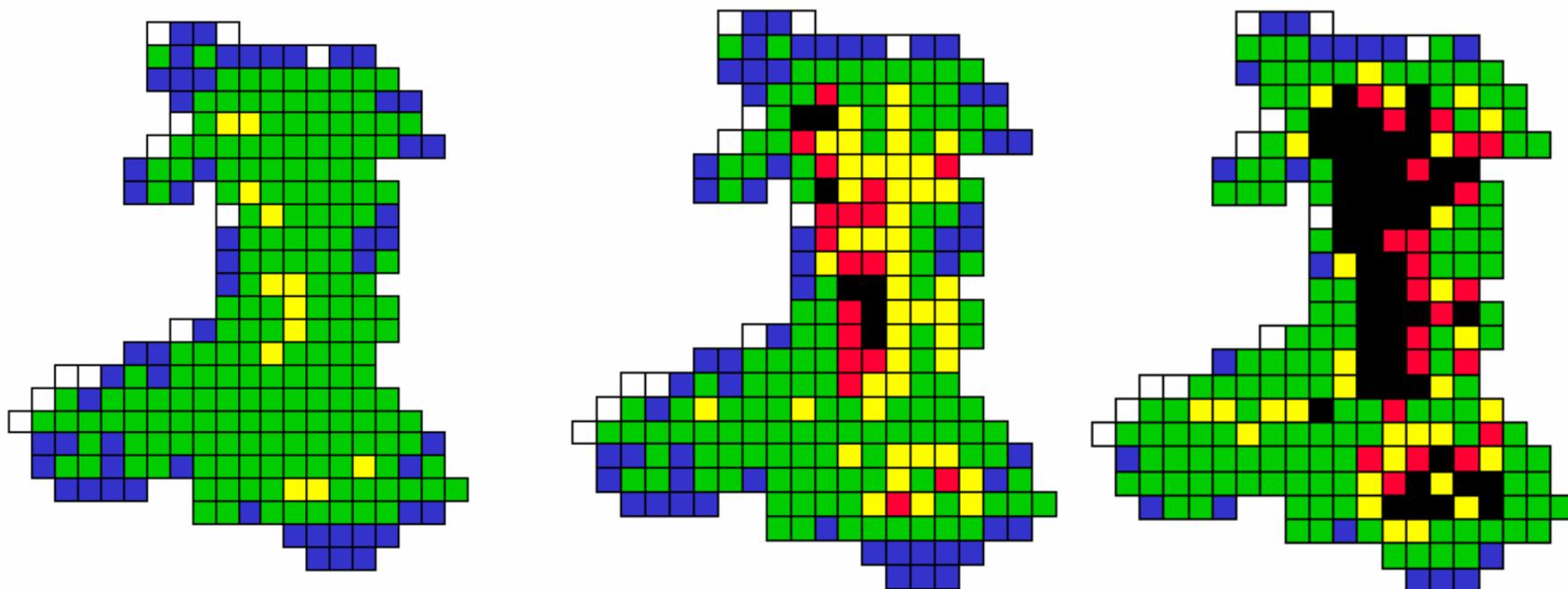
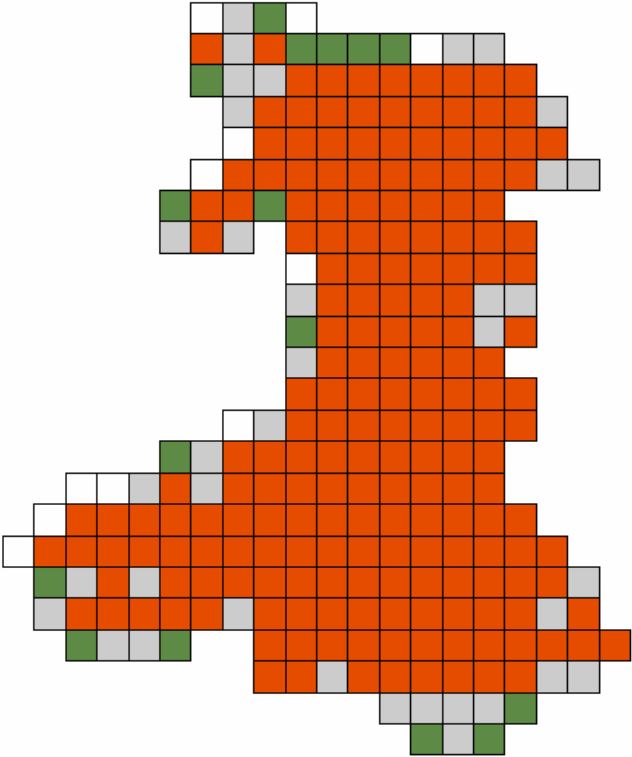


Figure 6.5

10km map of Wales showing three categories of acidity exceedance risk for 1995

Level of exceedance risk

- Not exceeded (19 squares)
- Uncertain (34 squares)
- Exceeded (197 squares)






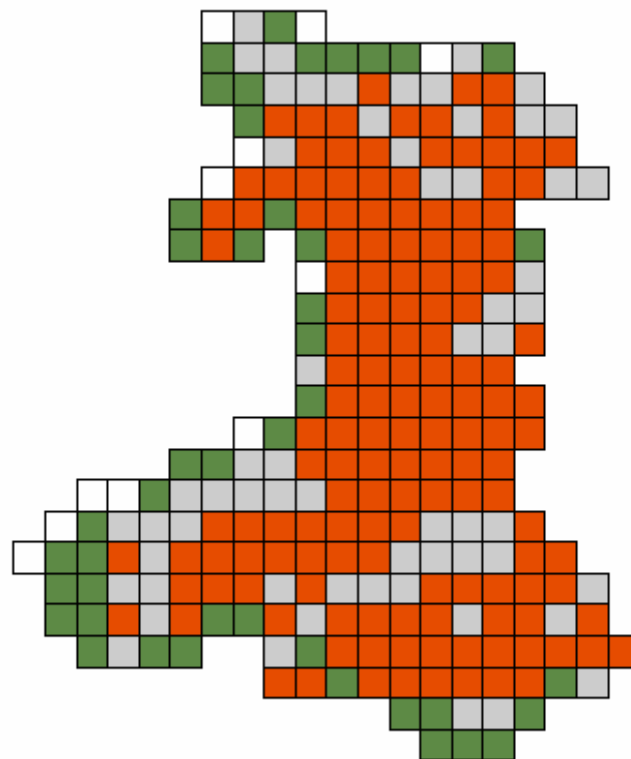
White areas denote (coastal) squares that do not contain habitats sensitive to acidification

Figure 6.6

10km map of Wales showing three categories of acidity exceedance risk for 1995 for managed coniferous woodland only

Level of exceedance risk

-  Not exceeded (44 squares)
-  Uncertain (60 squares)
-  Exceeded (146 squares)






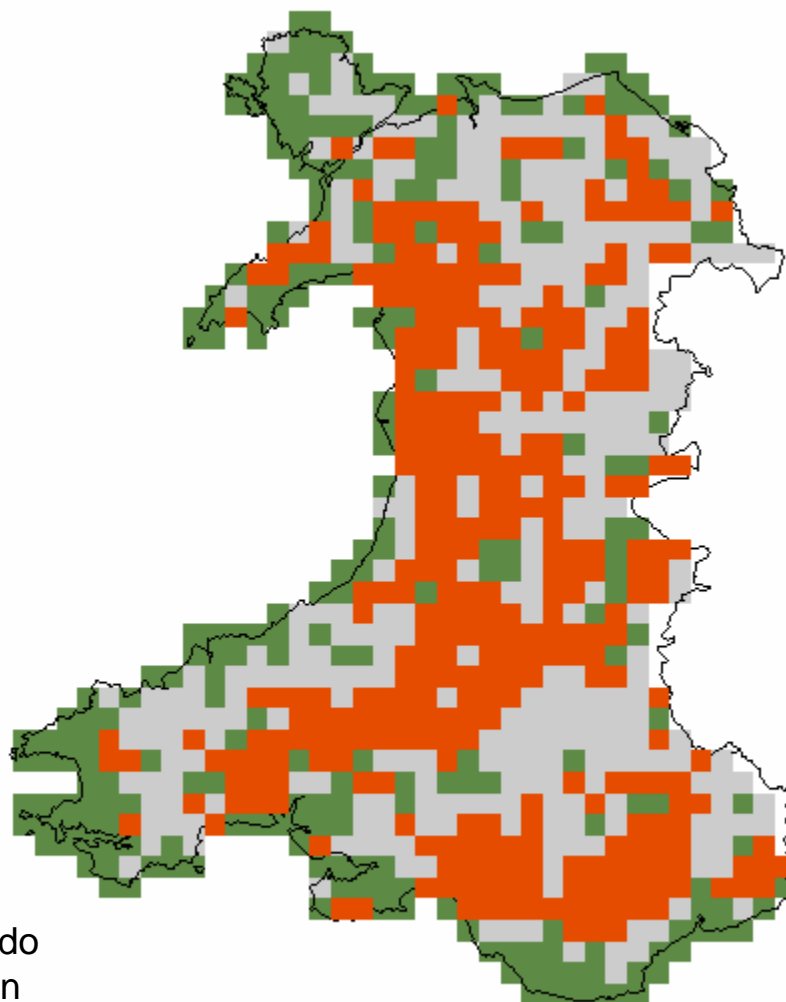
White areas denote (coastal) squares that do not contain habitats sensitive to acidification

Figure 6.7

5km map of Wales showing three categories of acidity exceedance risk for 1995 for managed coniferous woodland only

Level of exceedance risk

-  Not exceeded (225 squares)
-  Uncertain (312 squares)
-  Exceeded (335 squares)



White areas denote (coastal) squares that do not contain habitats sensitive to acidification

Figure 6.8

Cumulative probability distribution of acidity exceedance for a 1km grid square of managed coniferous woodland

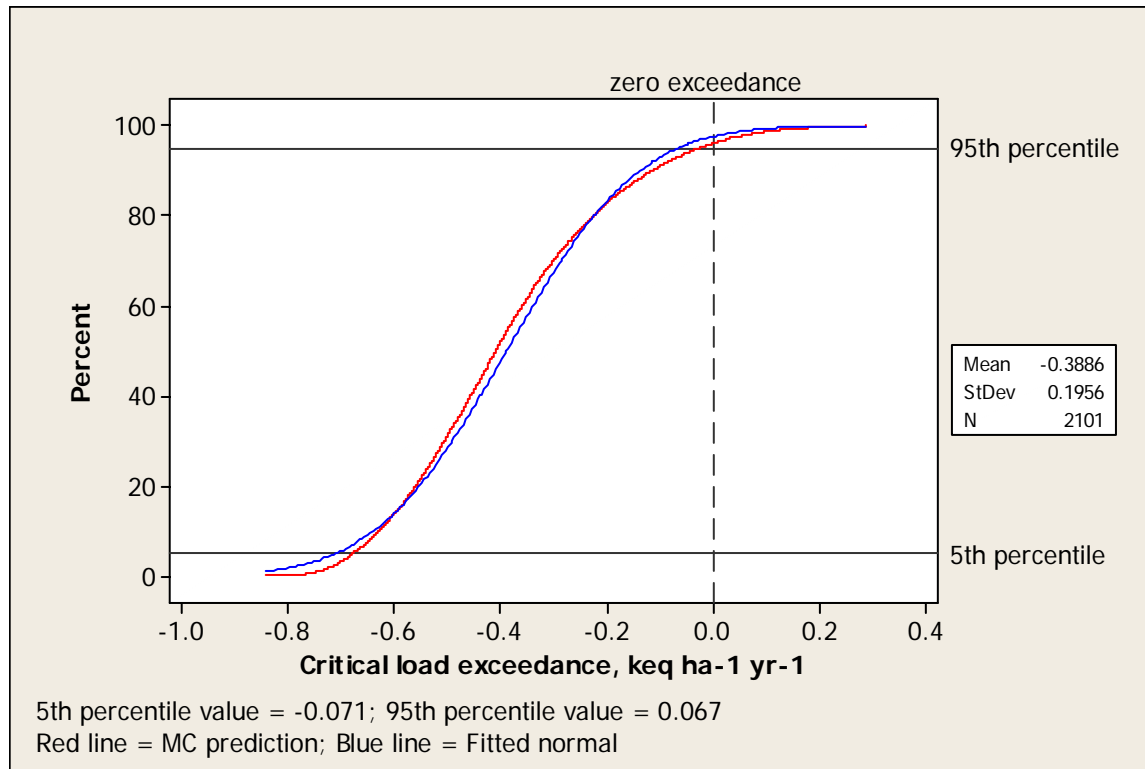



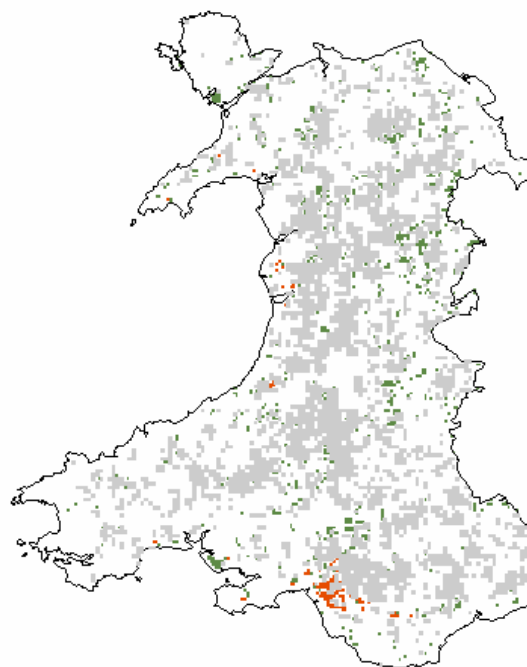


Figure 6.9

1km map of Wales showing three categories of acidity exceedance risk for 1995 for managed coniferous woodland

Level of exceedance risk






-  Not exceeded
-  Uncertain
-  Exceeded

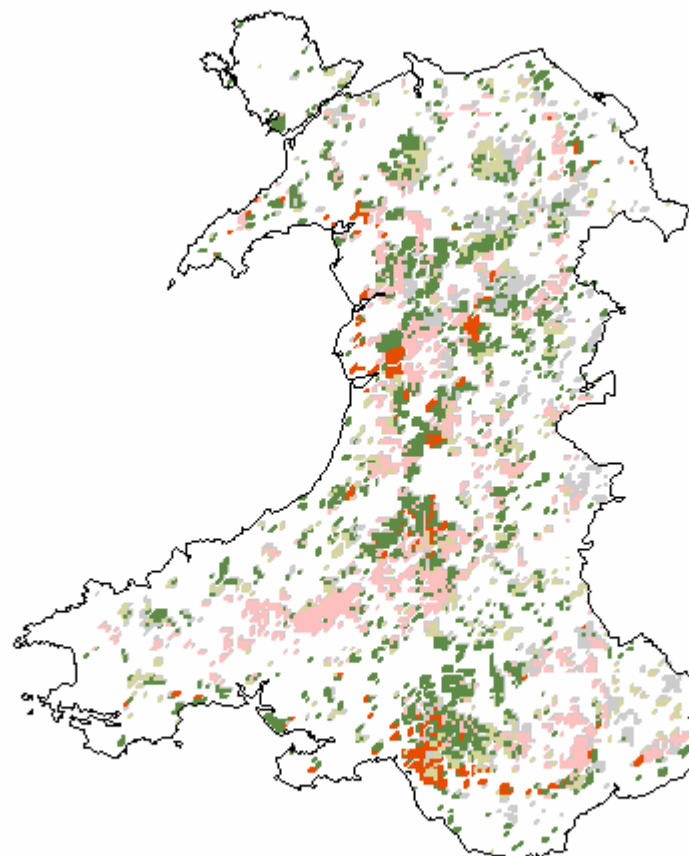


White areas denote squares that do not contain habitats sensitive to acidification

Figure 6.10

1km maps of Wales showing the probability of acidity exceedance for 1995 for managed coniferous woodland






Probability of Exceedance	Area (km ²)
 < 5%	130
 5 – 25%	280
 25 – 75%	258
 75 – 95%	275
 > 95%	86

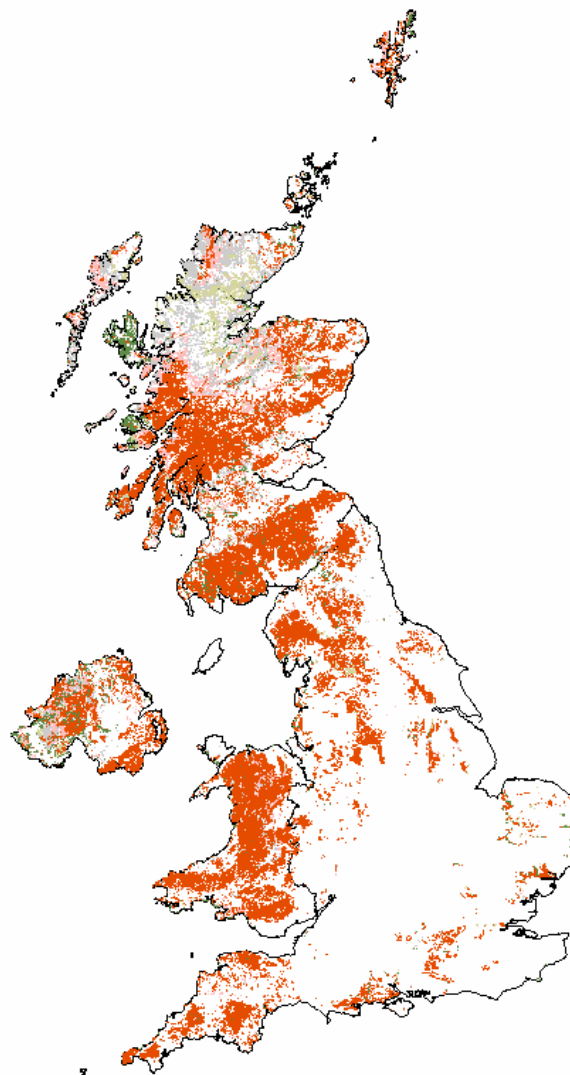


White areas denote squares that do not contain habitats sensitive to acidification

Figure 6.11

1km map showing the probability of acidity exceedance for 1995 for acid grassland






Probability of Exceedance	Area (km ²)
 < 5%	653
 5 – 25%	606
 25 – 75%	1376
 75 – 95%	1203
 > 95%	11450

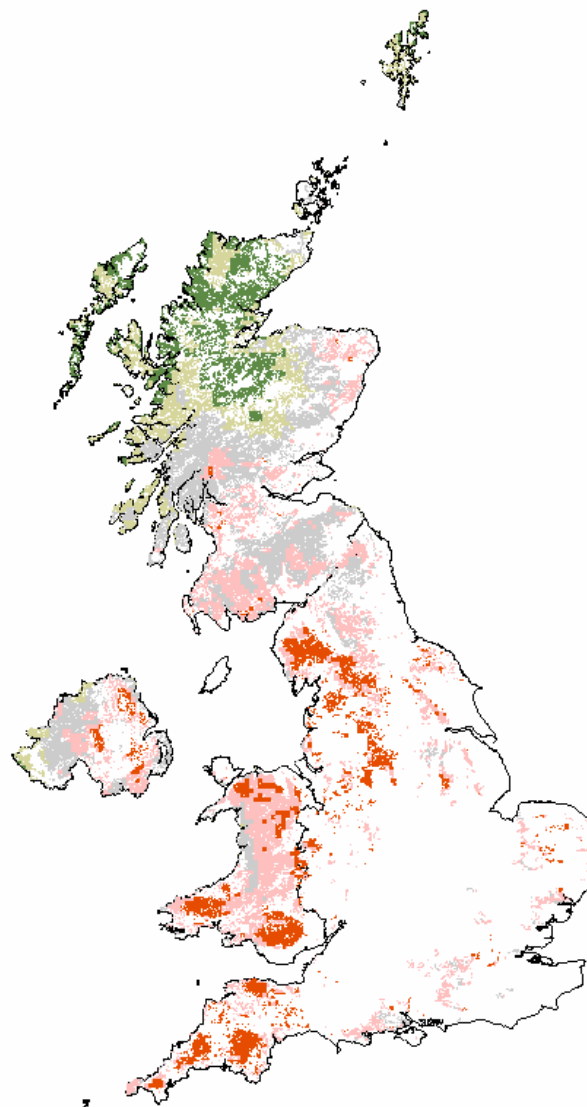


White areas denote squares that do not contain habitats sensitive to acidification

Figure 6.12

1km map showing the probability of nutrient nitrogen exceedance for 1995 for acid grassland






Probability of Exceedance	Area (km ²)
 < 5%	1728
 5 – 25%	2081
 25 – 75%	4458
 75 – 95%	4764
 > 95%	2205

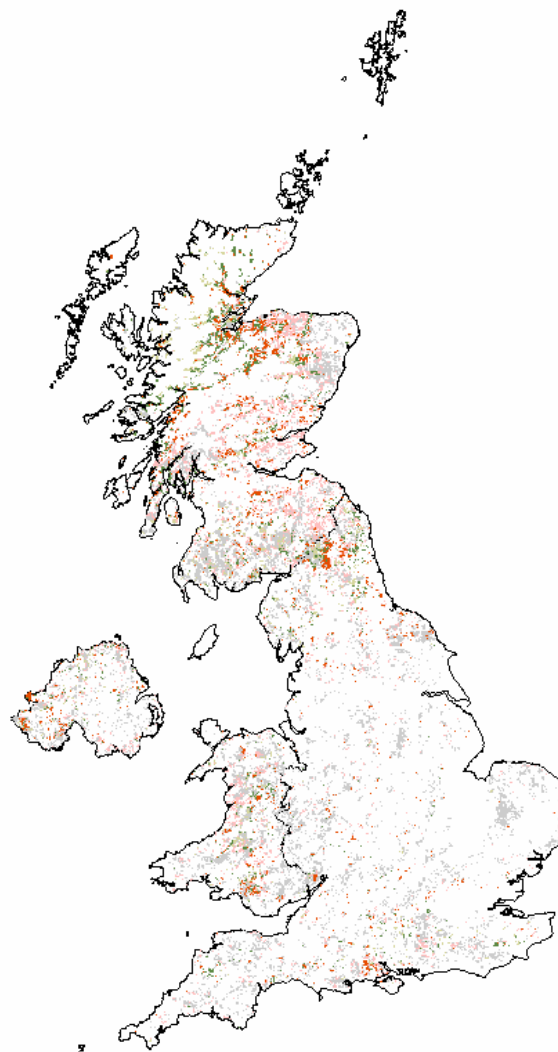


White areas denote squares that do not contain habitats sensitive to acidification

Figure 6.13

1km map showing the probability of acidity exceedance for 1995 for managed coniferous woodland






Probability of Exceedance	Area (km ²)
 < 5%	887
 5 – 25%	729
 25 – 75%	3817
 75 – 95%	1582
 > 95%	957

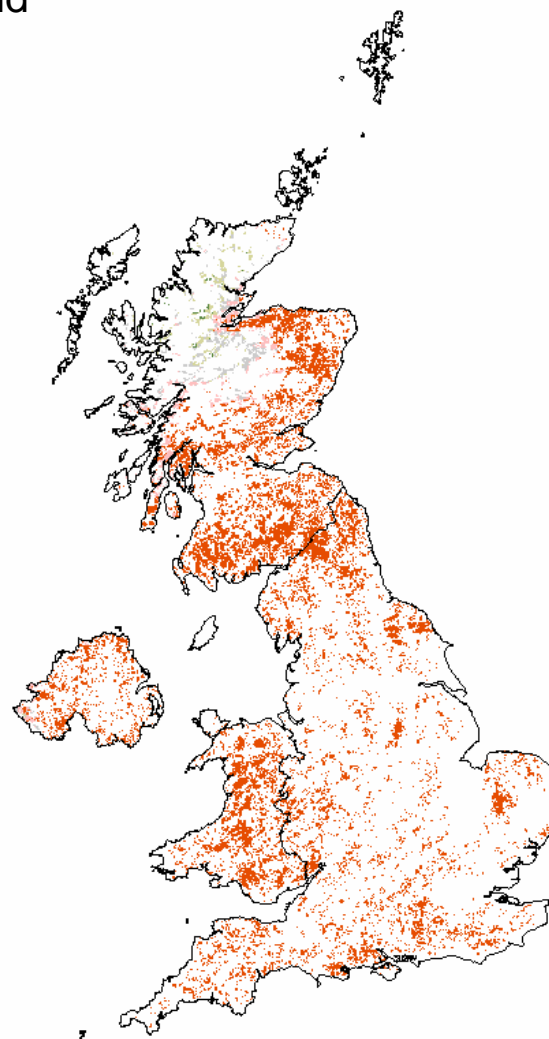


White areas denote squares that do not contain habitats sensitive to acidification

Figure 6.14

1km map showing the probability of nutrient nitrogen exceedance for 1995 for managed coniferous woodland

Probability of Exceedance	Area (km ²)
 < 5%	31
 5 – 25%	242
 25 – 75%	445
 75 – 95%	685
 > 95%	6562



White areas denote squares that do not contain habitats sensitive to acidification

Figure 6.15

5th-percentile maximum critical loads of sulphur ($CL_{\max}S$):

(a) 1km resolution

(b) 5km resolution

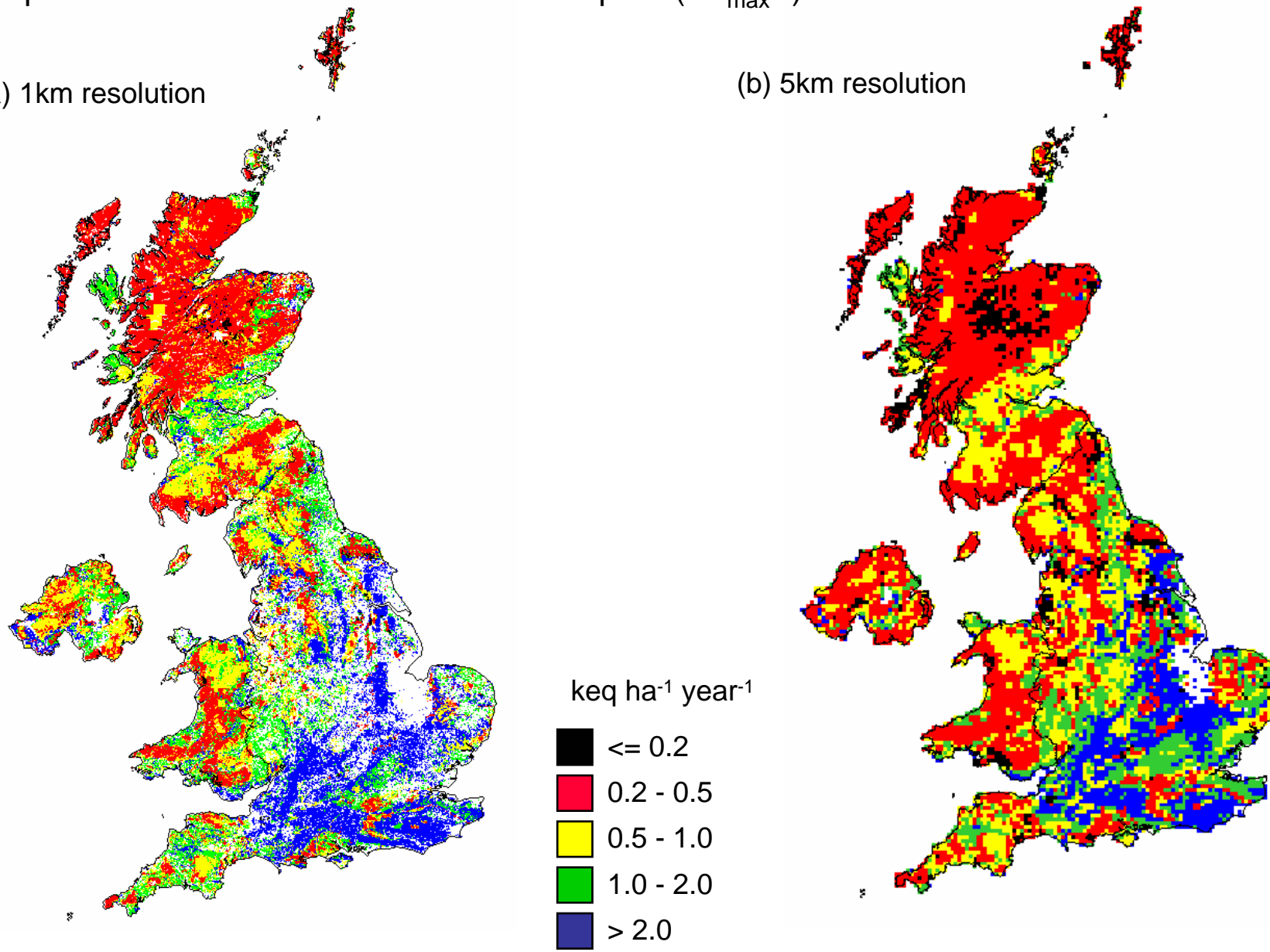


Figure 6.16

Exceedance of 5th-percentile acidity critical loads by acid deposition for 1995-97

