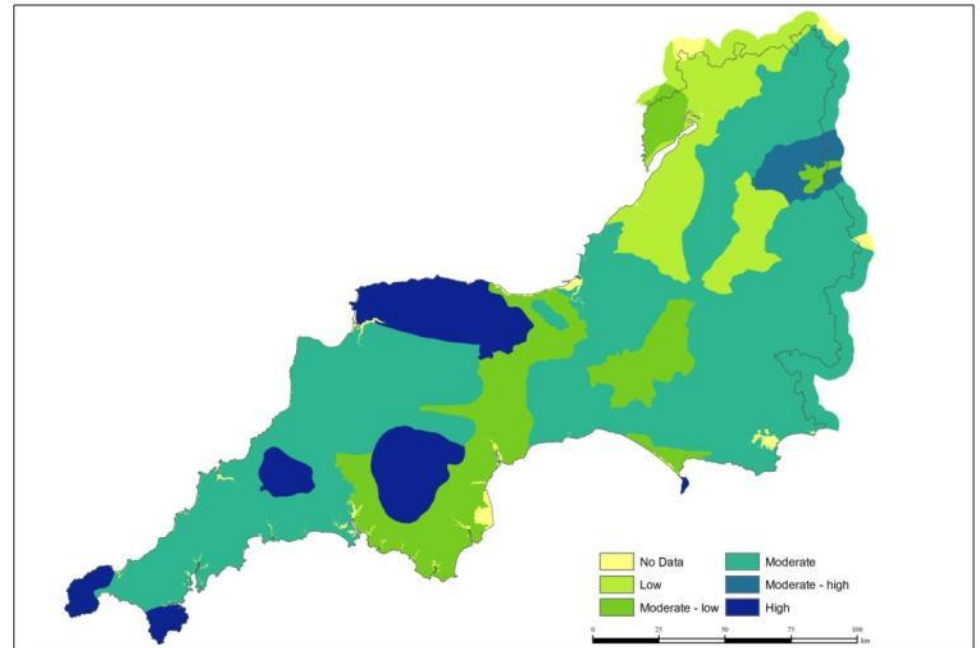
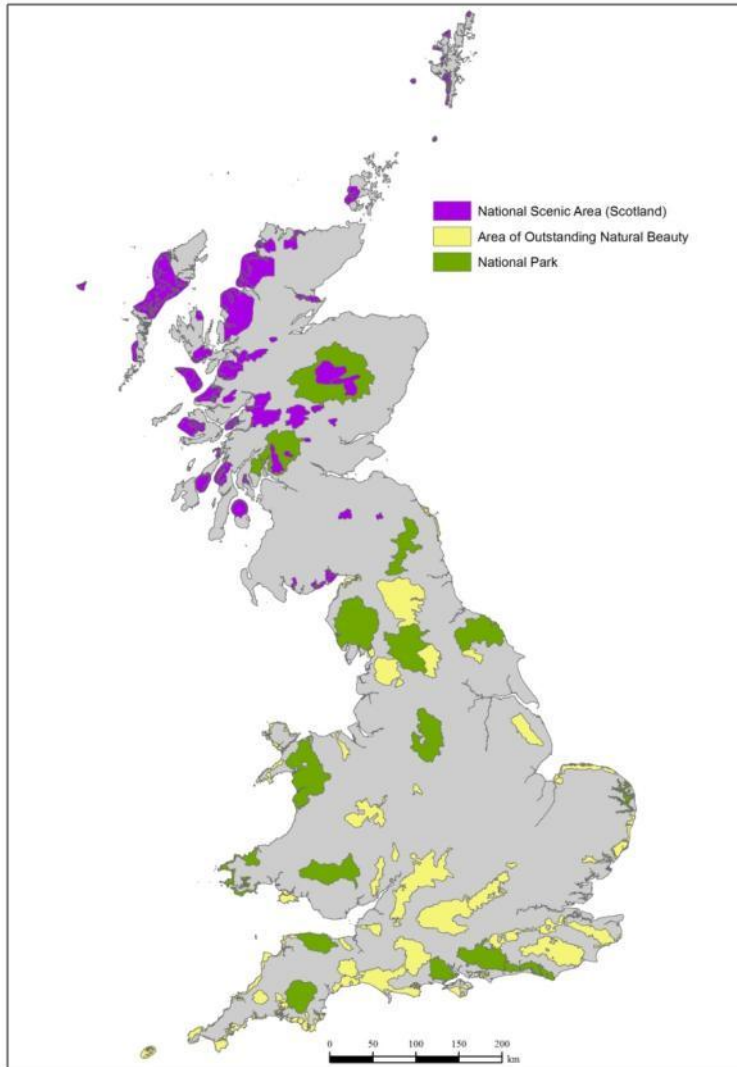


Incorporating Landscape Considerations into Assessments of the Potential Second Generation Bioenergy Resource

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Defining Sensitive Landscapes



Classification based on description of Joint Character Areas (JCAs)

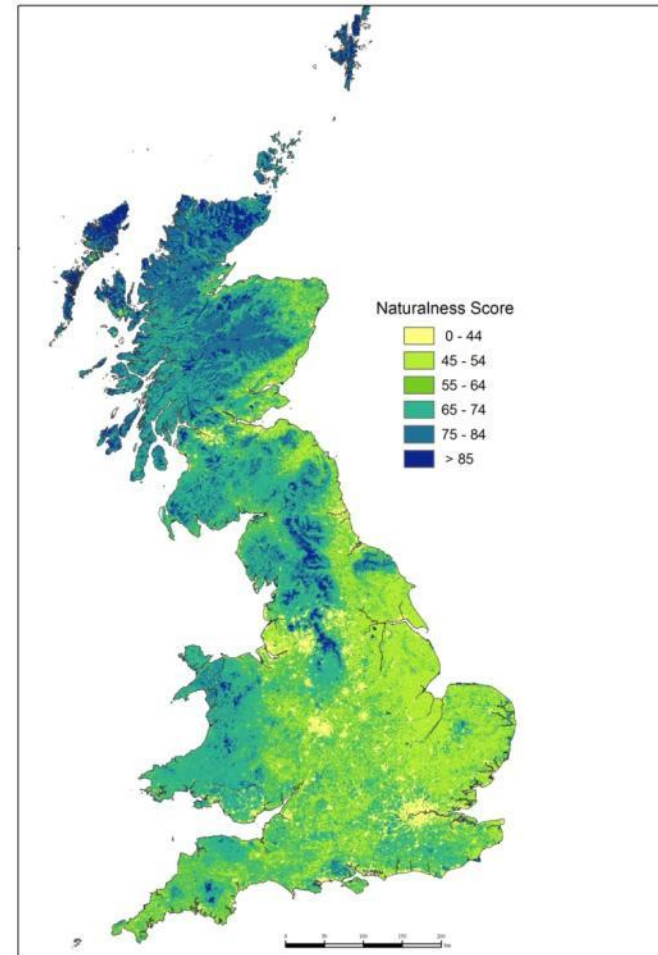
Exclusion of defined scenic areas

Both approaches have some limitations

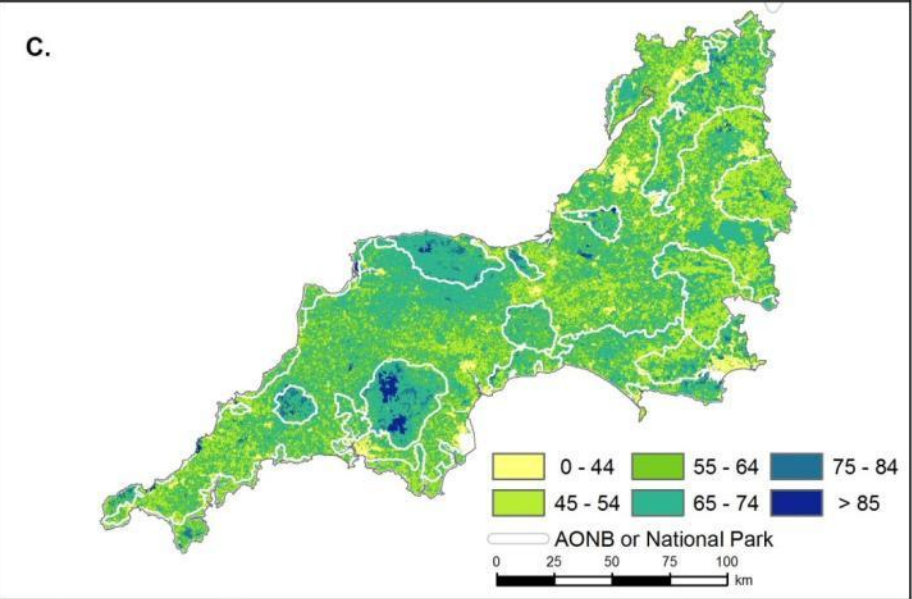
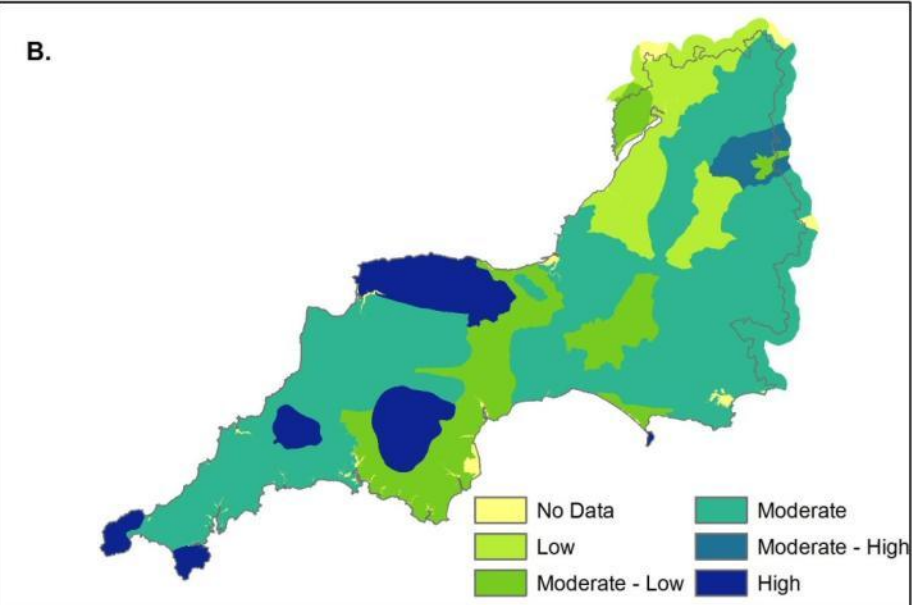
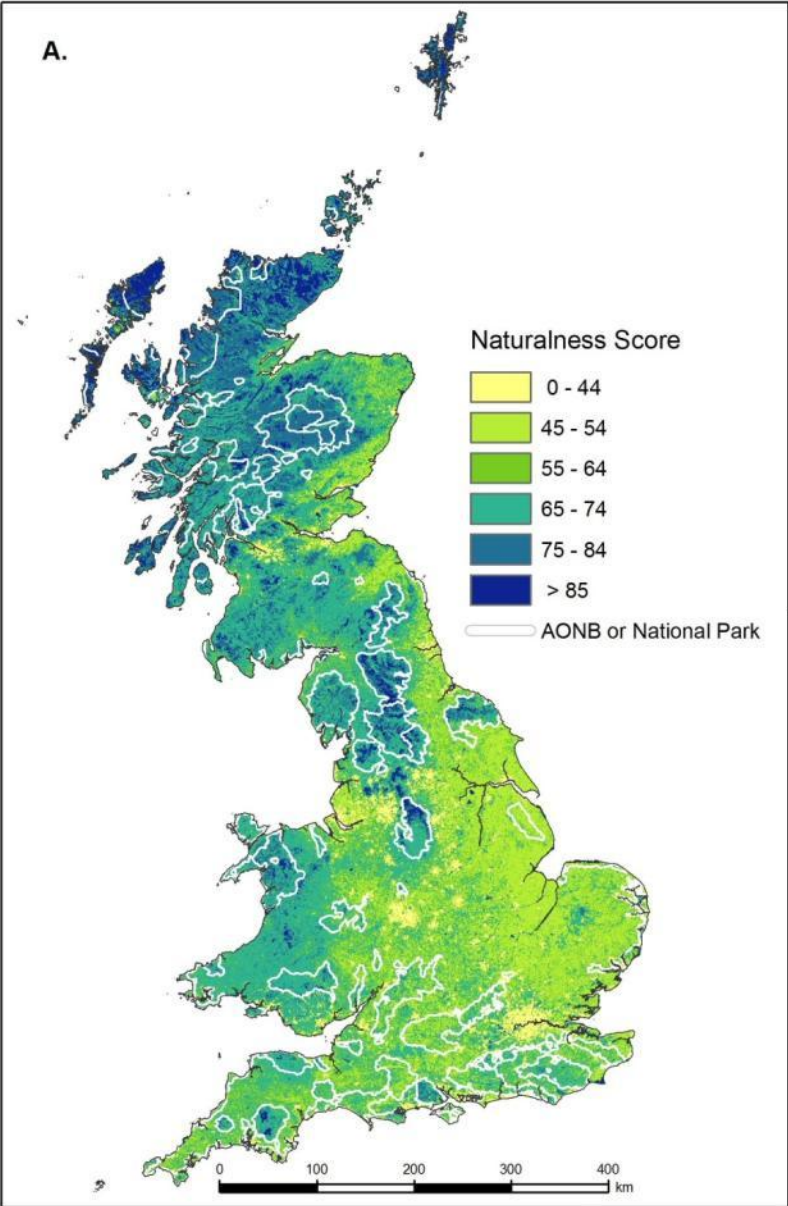
Landscape Naturalness

Introduced in research on tranquillity mapping.
Can be defined using CEH Land Cover Map 2007.

| Class No. | LCM2007 Class | Score |
|-----------|---------------------------------|-------|
| 9 | Fen, Marsh and Swamp | 90 |
| 12 | Bog | 90 |
| 15 | Saltwater | 90 |
| 16 | Freshwater | 90 |
| 17 | Supra littoral rocks | 90 |
| 18 | Supra-littoral sediment | 90 |
| 19 | Littoral rock | 90 |
| 20 | Littoral sediment | 90 |
| 21 | Saltmarsh | 90 |
| 5 | Rough Grassland | 80 |
| 10 | Heather | 80 |
| 11 | Heather grassland | 80 |
| 13 | Montane Habitats | 80 |
| 1 | Broad-leaved and mixed woodland | 75 |
| 2 | Coniferous woodland | 70 |
| 4 | Improved grassland | 70 |
| 6 | Neutral grassland | 70 |
| 7 | Calcareous grassland | 70 |
| 8 | Acid grassland | 70 |
| 14 | Inland rock | 50 |
| 3 | Arable and horticulture | 50 |
| 23 | Suburban | 33 |
| 22 | Urban | 16 |



Comparison with Previous Approaches



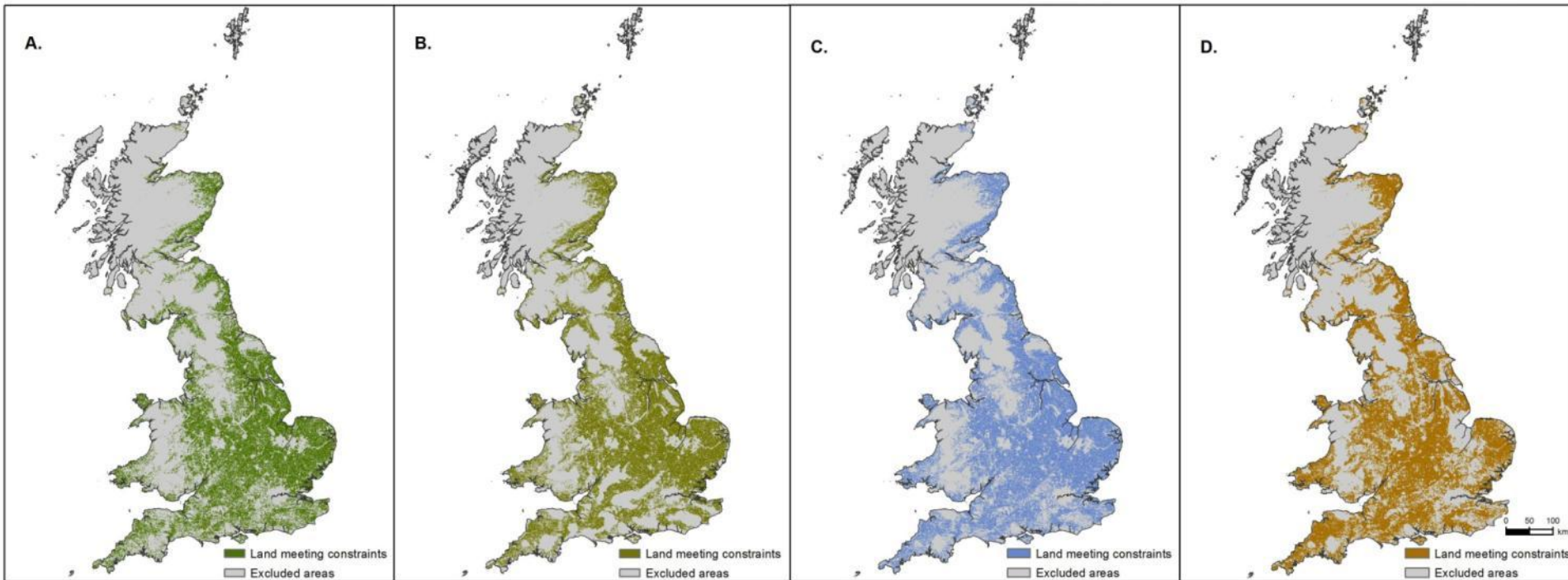
Land Resource Implications

Seven constraints

Seven constraints plus NPs & AONBs

Seven constraints plus all naturalness scores ≥ 75 and ≥ 65 inside NPs & AONBs

Map C with further restriction to Grades 3 & 4 agricultural land.



40% available

34% available

37% available

24% available
6.3 m hectares