

Ellis, E.C, Antill, E.C. and H. Kreft (in review):
All is Not Lost: Plant Biodiversity in the Anthropocene
PLoSone

Appendix S3: Maps and spatial data.

Spatial Data

For GIS analysis, in ESRI Shapefile format, downloadable at:
<http://ecotope.org/anthromes/biodiversity/plants/data>

Supplemental Maps (separate pages below)

All maps are Level 8 DGG grids (Appendix 1) in Eckert IV global equal area projection.

Figure 1: Biomes (Olson *et al.* 2001)

Figure 2: Biogeographic Realms (Olson *et al.* 2001)

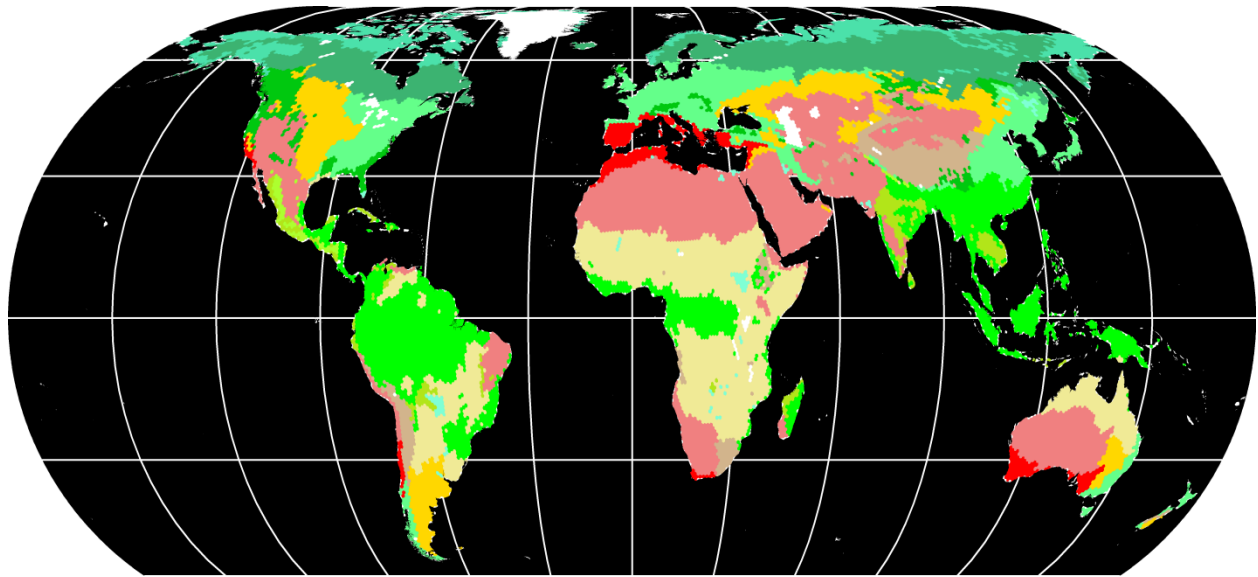
Figure 3: Biodiversity Hotspots (Mittermeier *et al.* 2005)

Figure 4: Anthromes (v2; Ellis *et al.* 2010)

Figure 5: Crop Species Richness (CS; based on Monfreda *et al.* 2008; Appendix 1).

Figure 6: Ornamental Species Richness (OS; prepared as detailed in Appendix 1).

Figure 1. Biomes (Olson *et al.* 2001)
















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|--|--|
|  Tropical & subtropical moist broadleaf forests |  Temperate grasslands, savannas & shrublands |
|  Tropical & subtropical coniferous forests |  Flooded grasslands & savannas |
|  Tropical & subtropical dry broadleaf forests |  Montane grasslands & shrublands |
|  Temperate broadleaf & mixed forests |  Tundra |
|  Temperate coniferous forests |  Mediterranean forests, woodlands & shrublands |
|  Boreal forests |  Deserts & xeric shrublands |
|  Tropical & subtropical grasslands, savannas & shrublands | |

Figure 2: Biogeographic Realms (Olson *et al.* 2001)

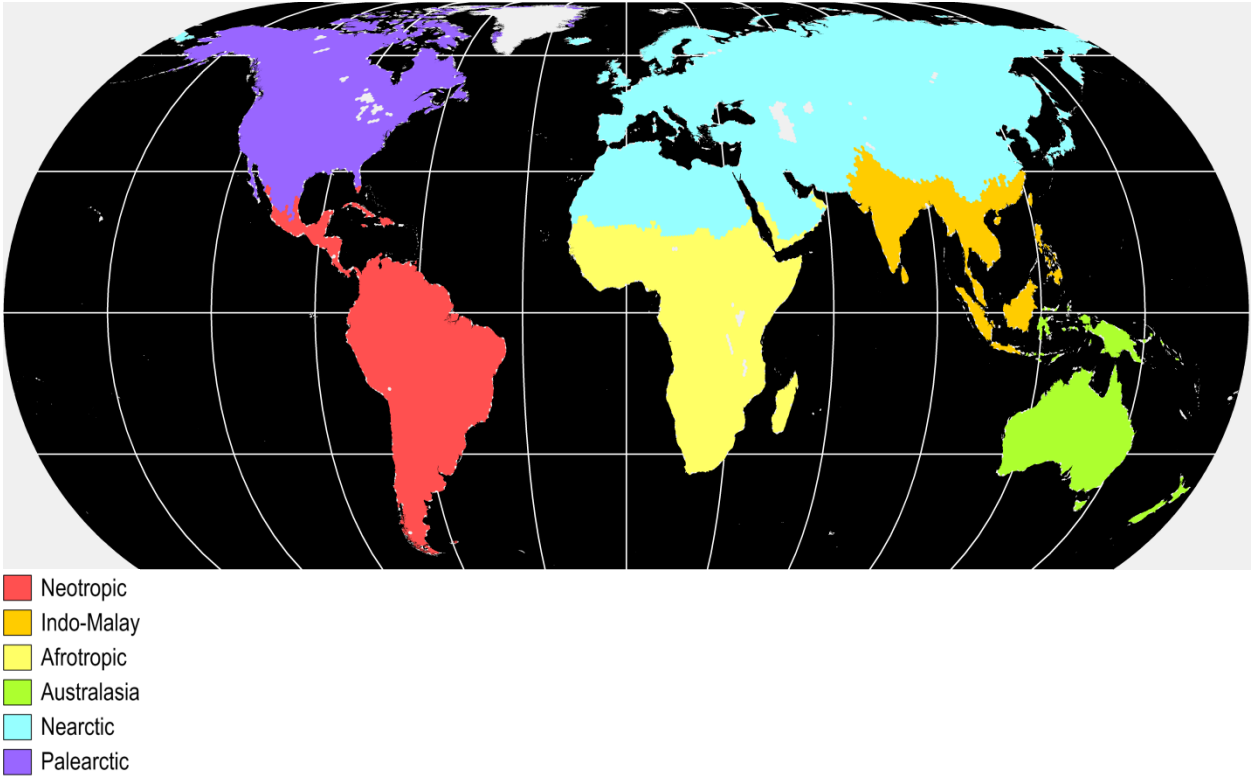
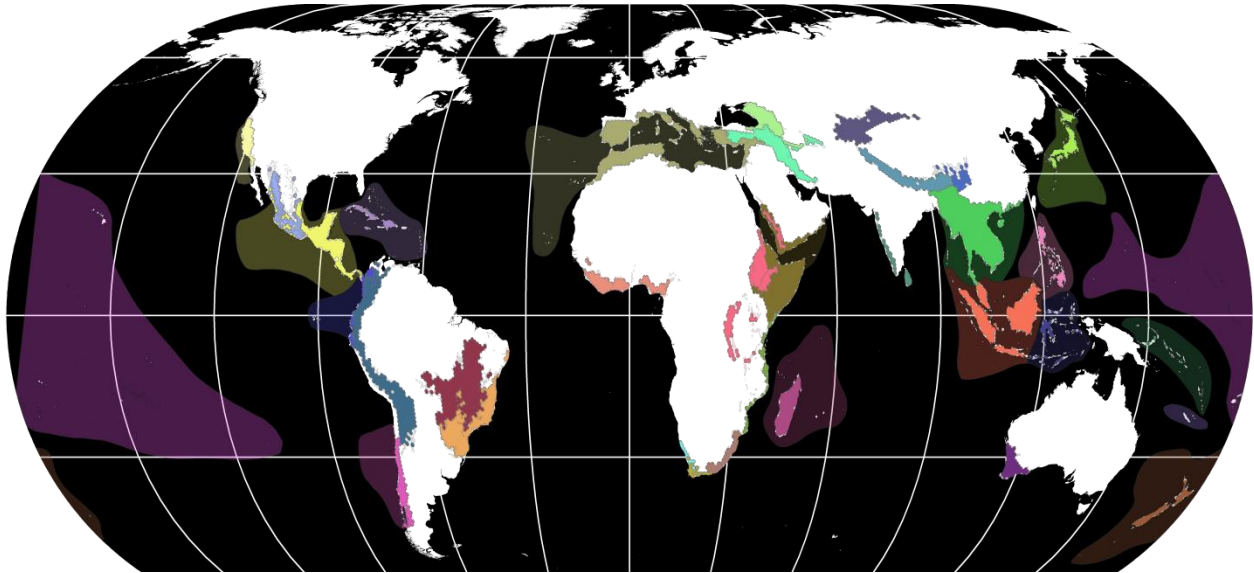
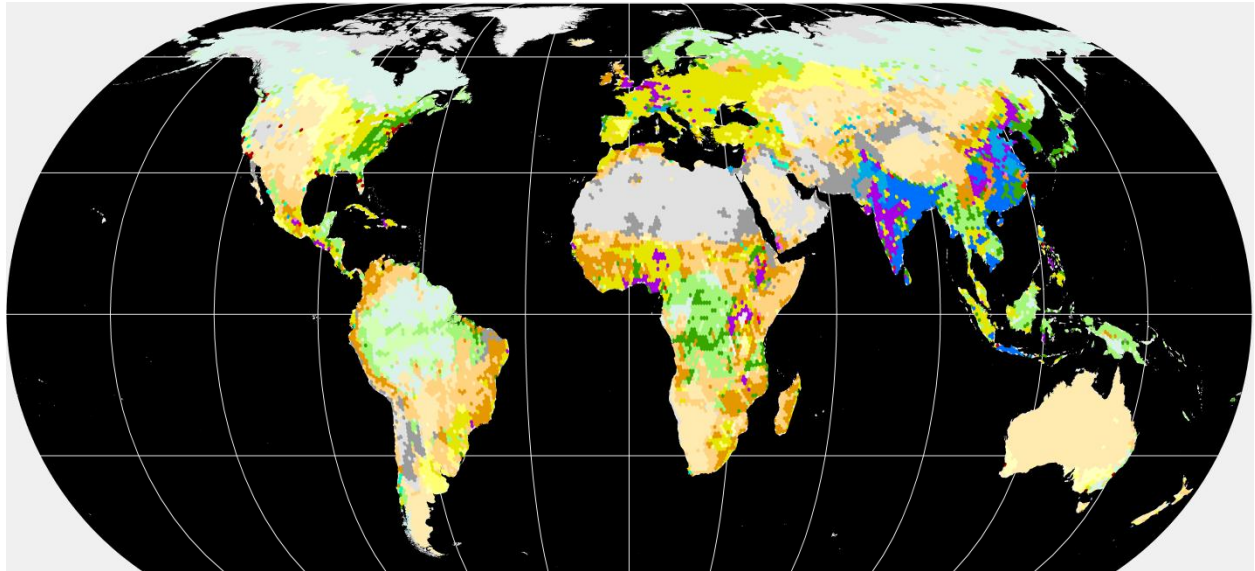


Figure 3: Biodiversity Hotspots (Mittermeier *et al.* 2005)



- | | | |
|---|---|-----------------------------|
| Atlantic Forest | Horn of Africa | New Zealand |
| California Floristic Province | Indo-Burma | Philippines |
| Cape Floristic Region | Irano-Anatolian | Polynesia-Micronesia |
| Caribbean Islands | Japan | Southwest Australia |
| Caucasus | Madagascar and the Indian Ocean Islands | Succulent Karoo |
| Cerrado | Madrean Pine-Oak Woodlands | Sundaland |
| Chilean Winter Rainfall and Valdivian Forests | Maputaland-Pondoland-Albany | Tropical Andes |
| Coastal Forests of Eastern Africa | Mediterranean Basin | Tumbes-Choco-Magdalena |
| East Melanesian Islands | Mesoamerica | Wallacea |
| Eastern Afrotropical | Mountains of Central Asia | Western Ghats and Sri Lanka |
| Guinean Forests of West Africa | Mountains of Southwest China | |
| Himalaya | New Caledonia | |

Figure 4: Anthromes (v2; Ellis *et al.* 2010)



Dense Settlements

- Urban
- Mixed settlements

Villages

- Rice villages
- Irrigated villages
- Rainfed villages
- Pastoral villages

Croplands

- Residential irrigated croplands
- Residential rainfed croplands
- Populated croplands
- Remote croplands

Rangelands

- Residential rangelands
- Populated rangelands
- Remote rangelands

Seminatural

- Residential woodlands
- Populated woodlands
- Remote woodlands
- Inhabited treeless & barren

Wildlands

- Wild woodlands
- Wild treeless & barren

Figure 5: Crop Species Richness (CS; based on Monfreda *et al.* 2008; Appendix 1).

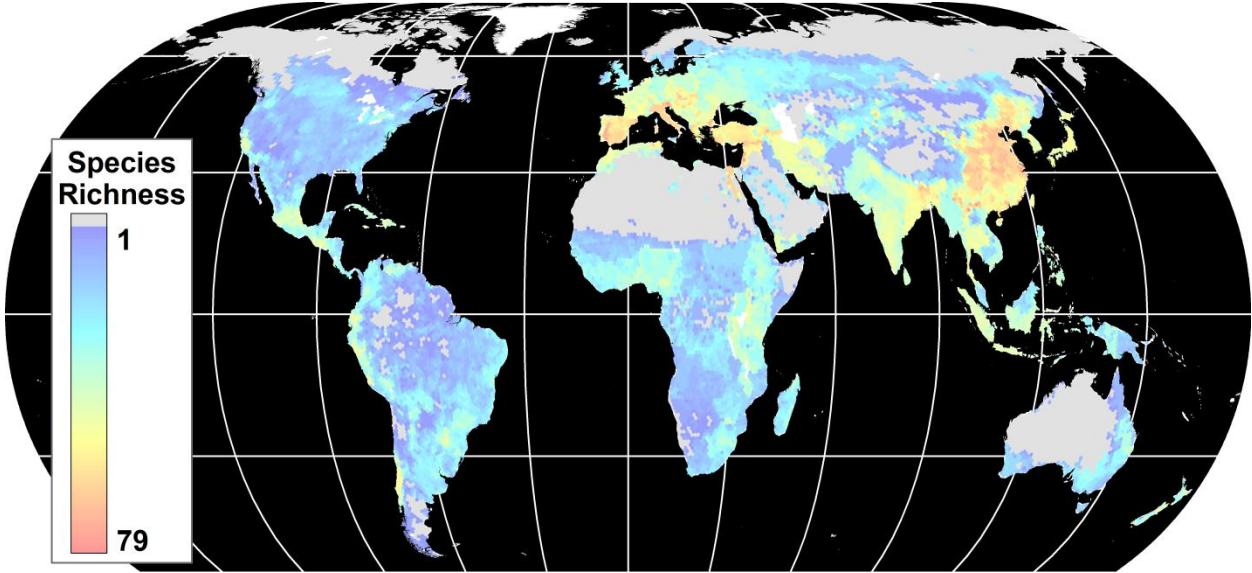
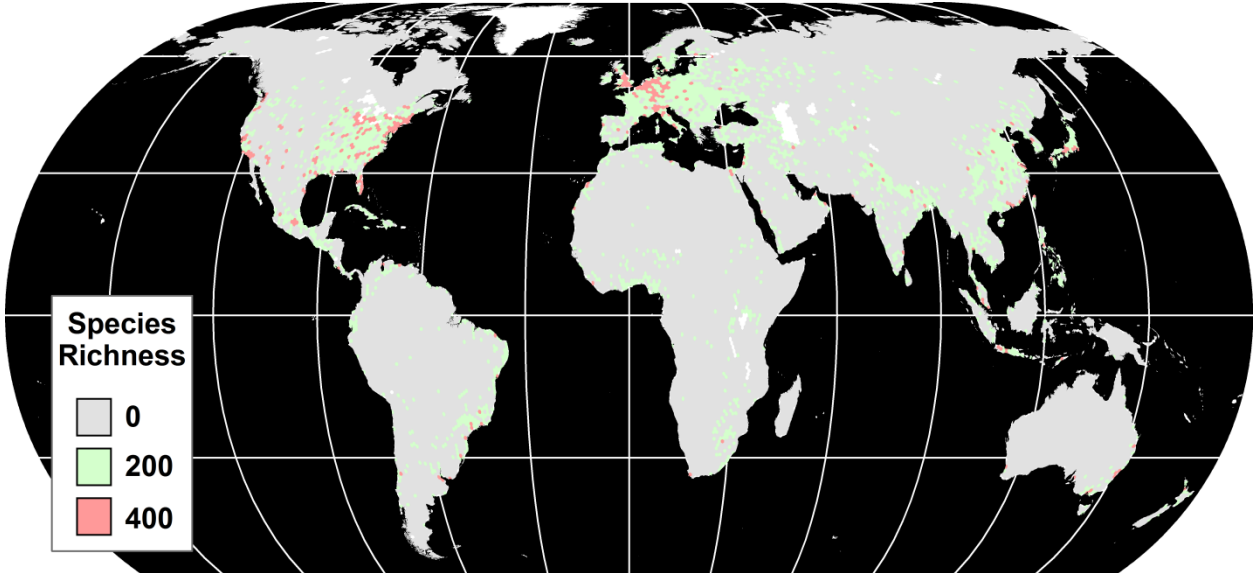


Figure 6: Ornamental Species Richness (OS; prepared as detailed in Appendix 1).



References Cited

- Ellis EC, Klein Goldewijk K, Siebert S, Lightman D, Ramankutty N (2010) Anthropogenic transformation of the biomes, 1700 to 2000. *Global Ecology and Biogeography*, **19**, 589-606.
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- Monfreda C, Ramankutty N, Foley JA (2008) Farming the planet: 2. Geographic distribution of crop areas, yields, physiological types, and net primary production in the year 2000. *Global Biogeochemical Cycles*, **22**, GB1022.
- Olson DM, Dinerstein E, Wikramanayake ED *et al.* (2001) Terrestrial ecoregions of the world: a new map of life on Earth. *BioScience*, **51**, 933-938.