Impacts of Global Climate Change on Central African Ecosystems

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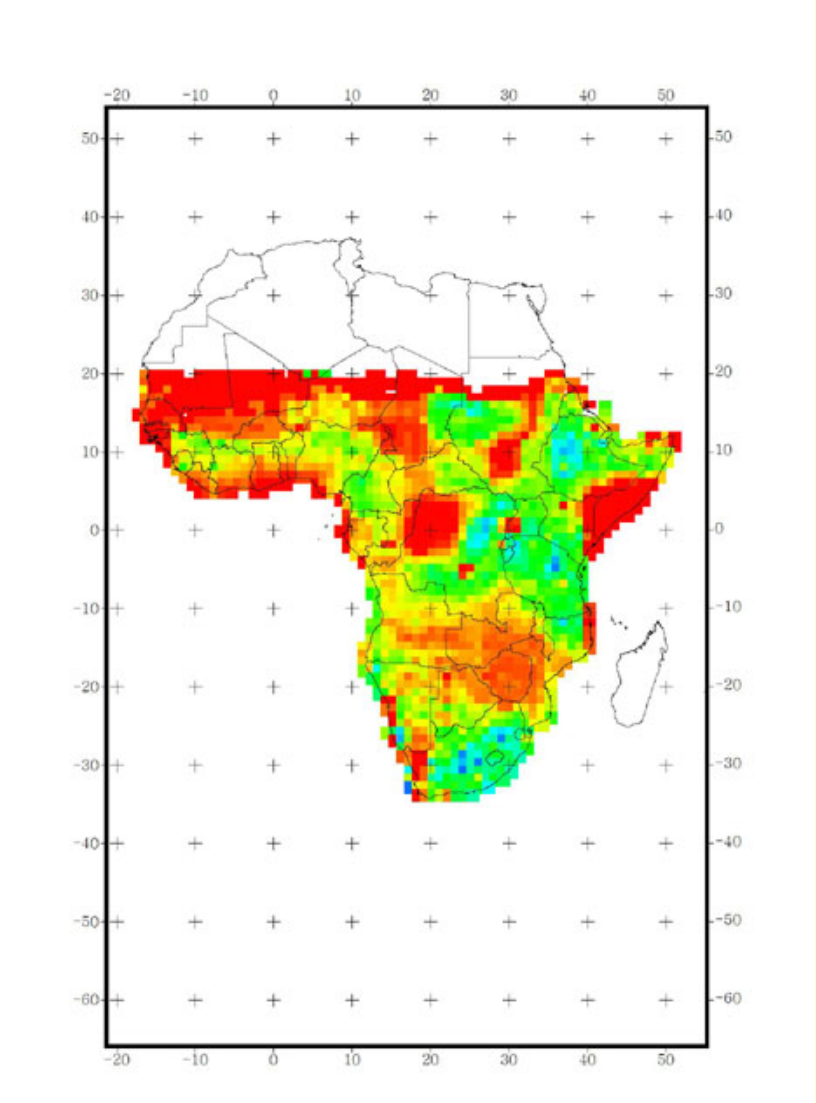
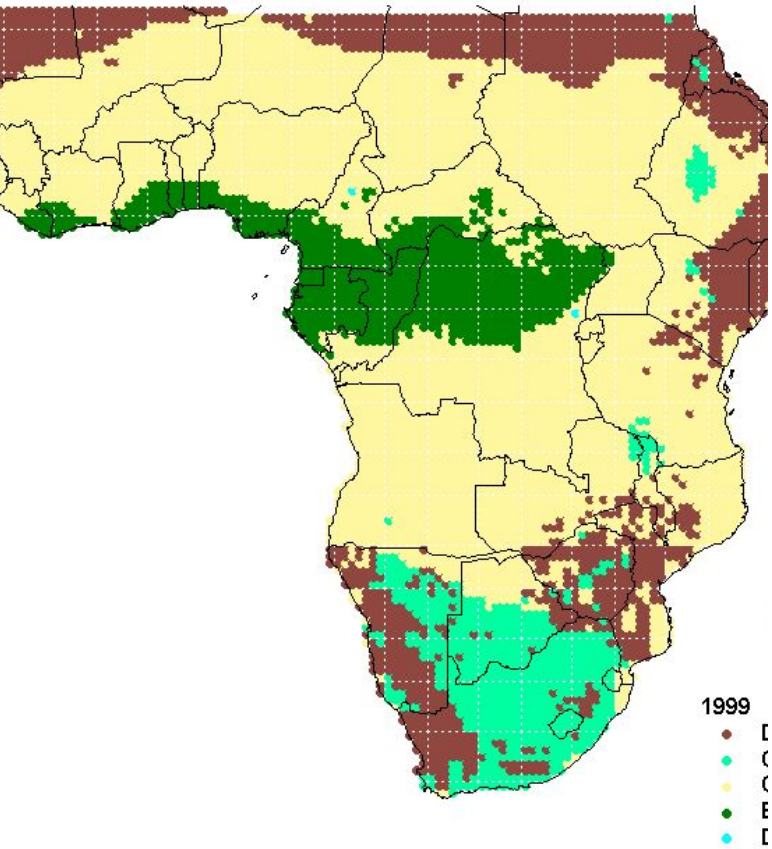
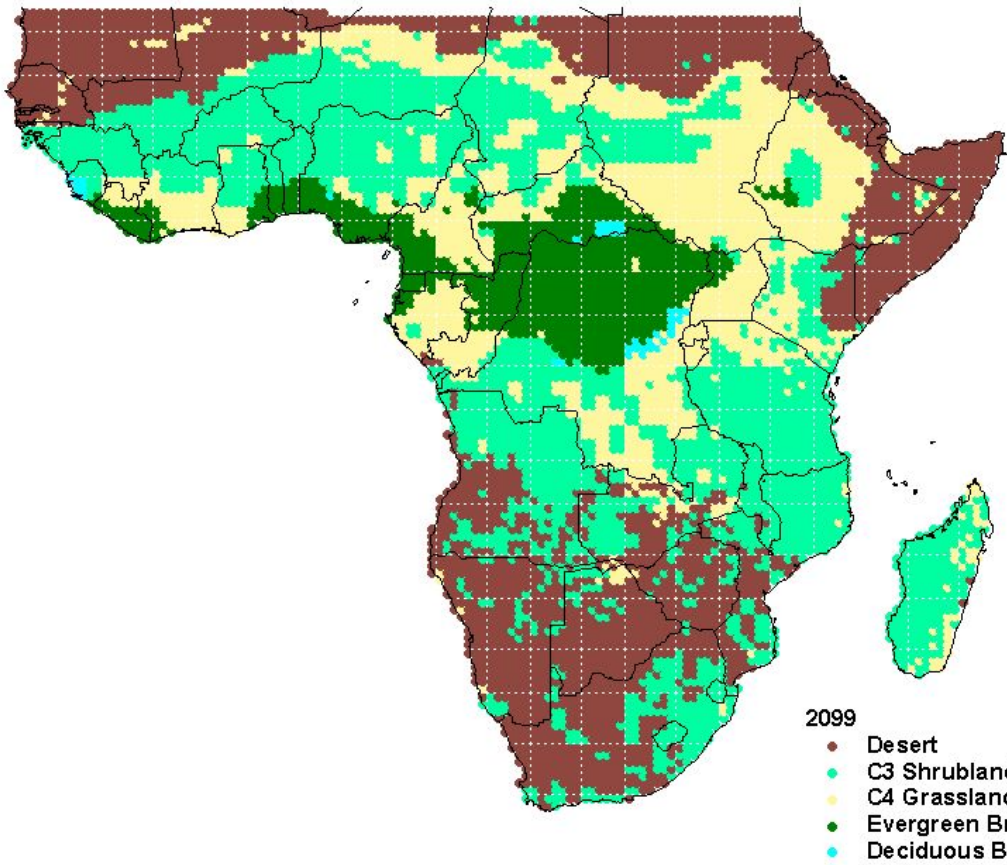
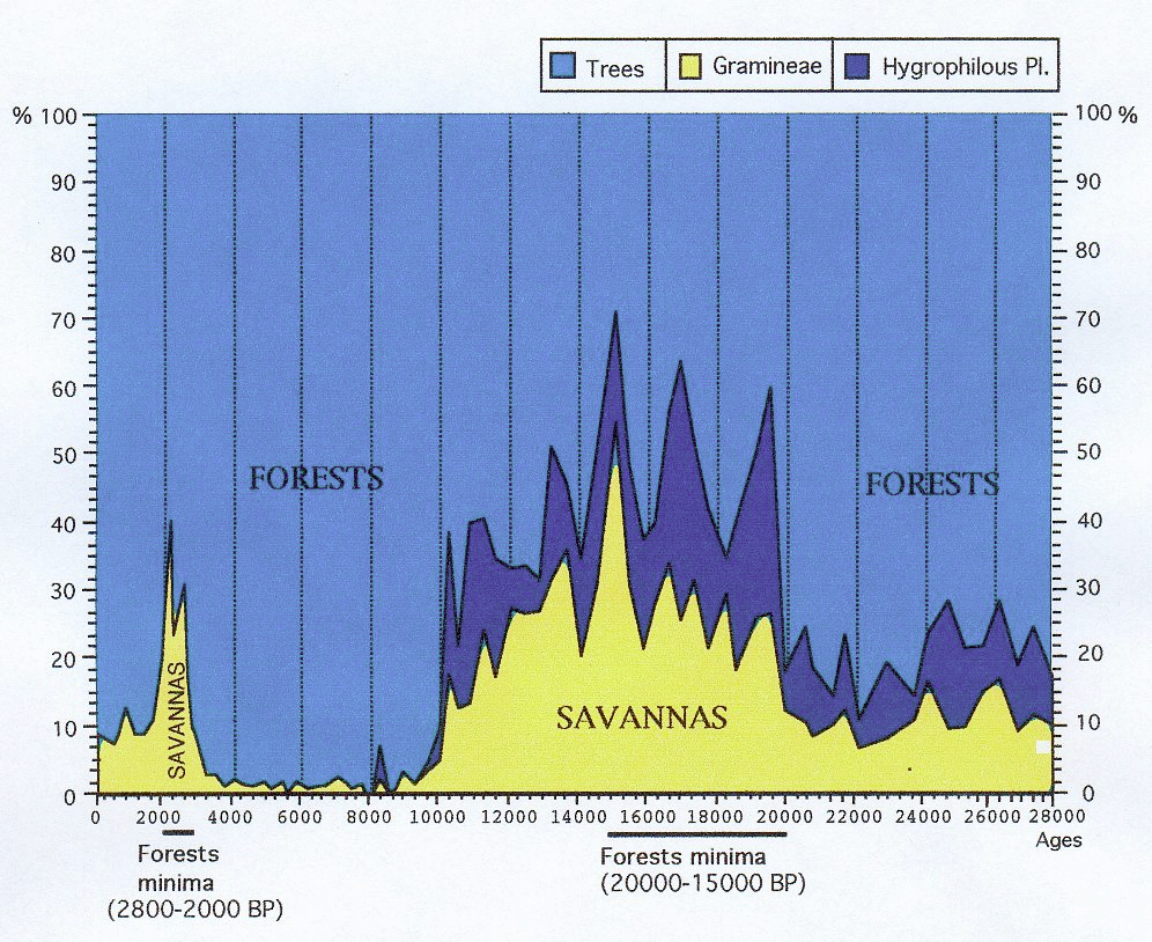


Figure 1. Modelled loss of species in 2085. Red indicates 1x1 degree grid cells that are projected to lose over 75% of local species, yellow 50-74% of local species. These values represent grid cell extirpations, not global extinctions. Note area of high loss in west Central Africa





SDGVM Hadley A2 present/2099


Trees
Gramineae
Hygrophilous Pl.
% 100
90
80
70
60
50
40
30
20
10
0
100 %
FORESTS
SAVANNAS
FORESTS
SAVANNAS
0
2000
4000
6000
8000
10000
12000
14000
16000
18000
20000
22000
24000
26000
28000
Ages
Forests minima (2800-2000 BP)
Forests minima (20000-15000 BP)

Prospects for the (near) Future

- Bioinformatics providing species distributions
- Desktop Regional Climate Models
- Desktop Species Models
- Tools for dynamic reserve selection and landscape design