

Plateau v1

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R code in support of the paper

Brewer M.J., O’Hara R.B., Anderson B.J. & Ohlemüller R. (). Climate envelopes for species distribution models. *Methods in Ecology and Evolution* [Hopefully].

This code will reproduce the examples and figures from the paper, and hopefully help in understanding the related R package “plateau”, also available on GitHub, as the following code suggests:

```
# Install the plateau package from GitHub - need devtools for this
library(devtools)
install_github("MarkJBrewer/plateau")
```

```
## Skipping install for github remote, the SHA1 (b9d96bf6) has not changed since last install.
## Use `force = TRUE` to force installation
```

```
library(plateau)
```

```
## Loading required package: R2WinBUGS
```

```
## Loading required package: coda
```

```
## Loading required package: boot
```

```
## Loading required package: mgcv
```

```
## Loading required package: nlme
```

```
## This is mgcv 1.8-12. For overview type 'help("mgcv-package")'.
```

```
## Loading required package: mapproj
```

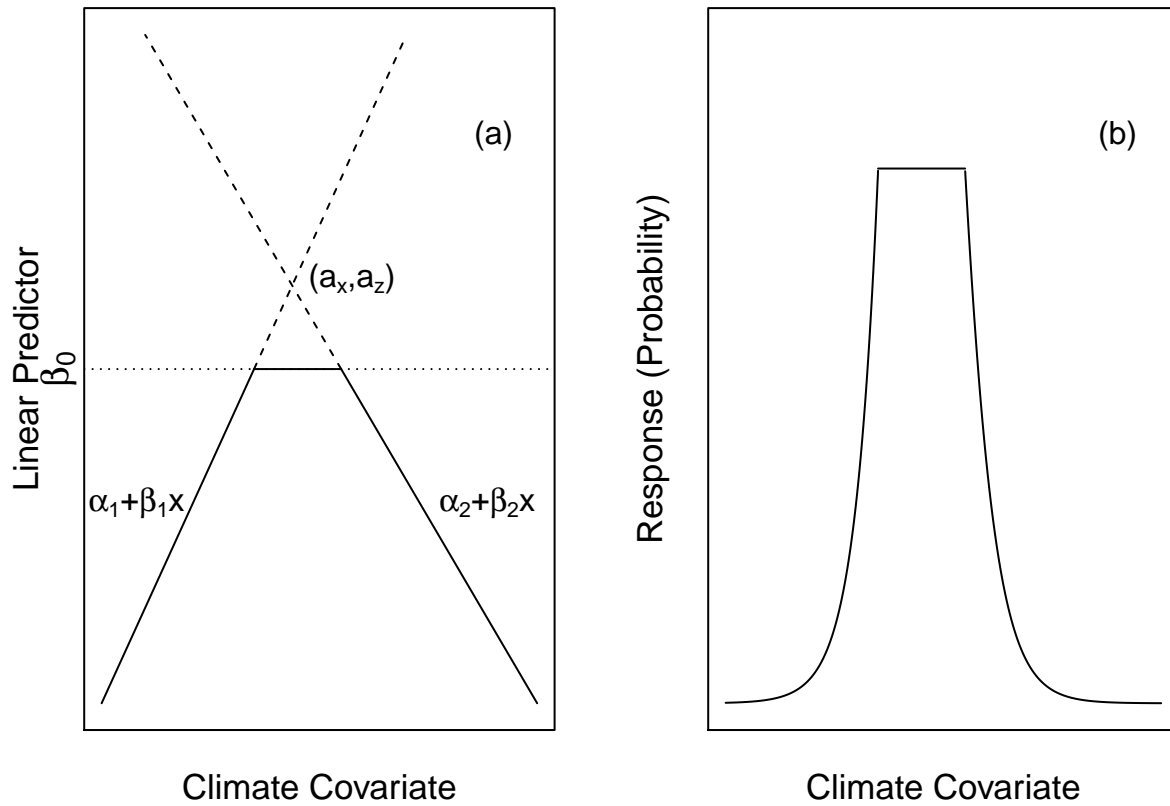
```
## Loading required package: maps
```

```
##
```

```
## # maps v3.1: updated 'world': all lakes moved to separate new #
```

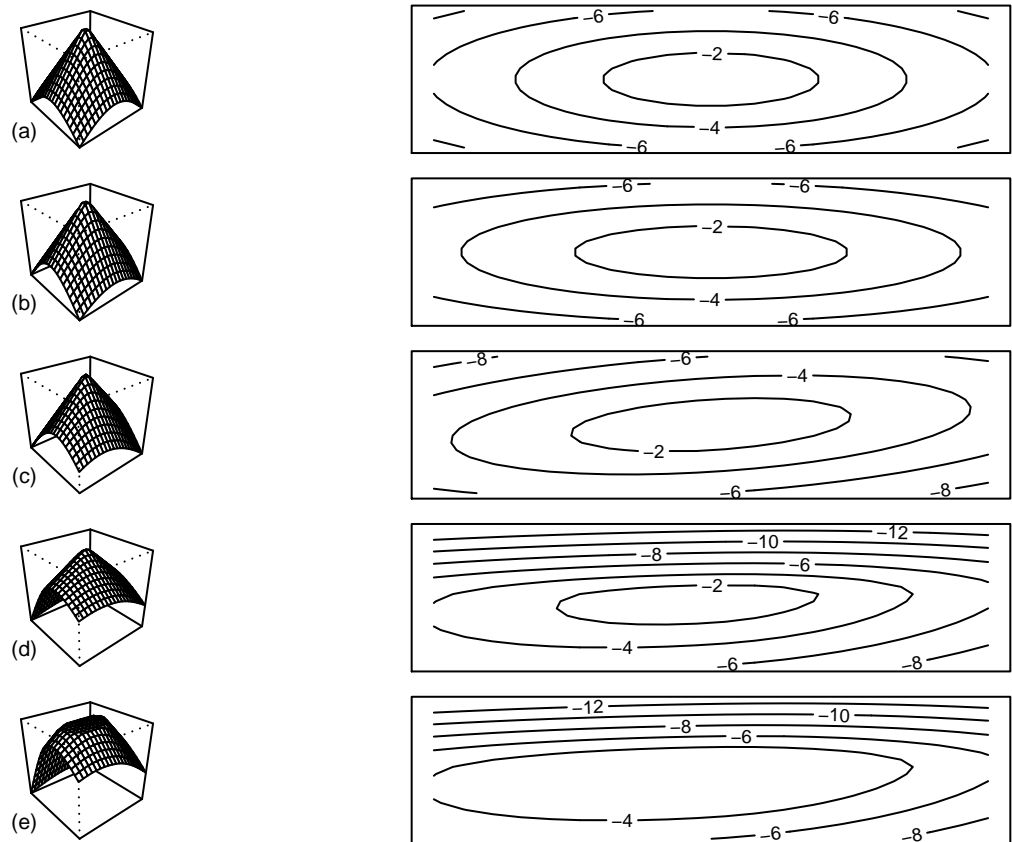
```
## # 'lakes' database. Type '?world' or 'news(package="maps")'. #
```

Figure 1



```
## Warning in par(op): graphical parameter "cin" cannot be set
## Warning in par(op): graphical parameter "cra" cannot be set
## Warning in par(op): graphical parameter "csi" cannot be set
## Warning in par(op): graphical parameter "cxy" cannot be set
## Warning in par(op): graphical parameter "din" cannot be set
## Warning in par(op): graphical parameter "page" cannot be set
```

Figure 2

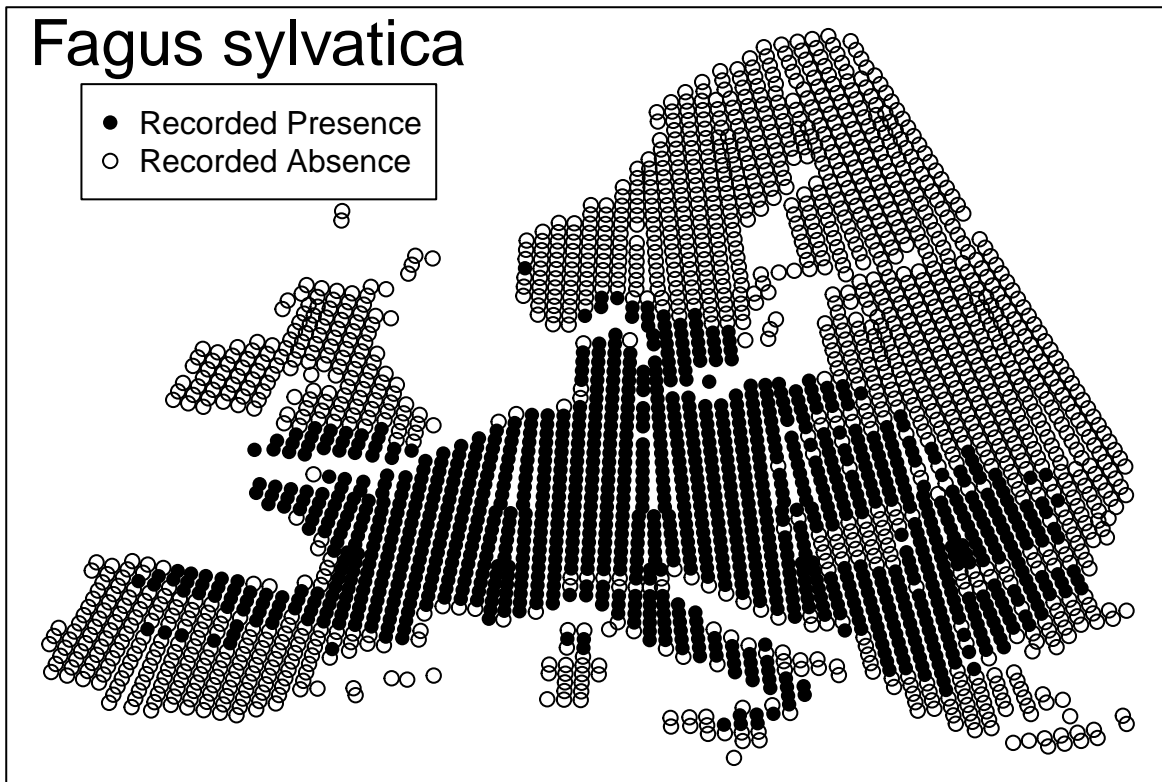


```
## Warning in par(op): graphical parameter "cin" cannot be set
## Warning in par(op): graphical parameter "cra" cannot be set
## Warning in par(op): graphical parameter "csi" cannot be set
## Warning in par(op): graphical parameter "cxy" cannot be set
## Warning in par(op): graphical parameter "din" cannot be set
## Warning in par(op): graphical parameter "page" cannot be set
```

Figure 3

```
## Read AFE data, 2611 observations.
## Read climate data, 30519 observations.

## Loading required package: gsw
```



```
## Read AFE data, 2611 observations.  
## Read climate data, 30519 observations.
```

Quercus coccifera

- Recorded Presence
- Recorded Absence

