photobiologyFilters Version 0.1.11 Catalogue of filters

Pedro J. Aphalo July 22, 2014

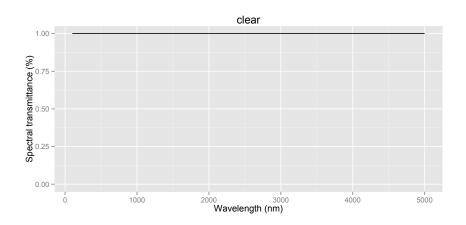
1 Introduction

```
library(ggplot2)
library(photobiologyFilters)
library(photobiologygg)
```

2 Dummy filters

2.1 Perfectly clear filter

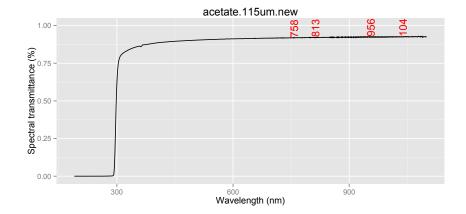
filter.plotter("clear")

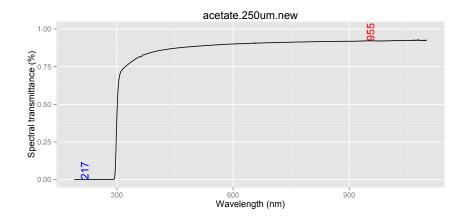


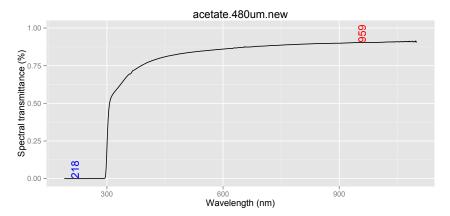
3 Plastic films

3.1 Cellulose diacetate

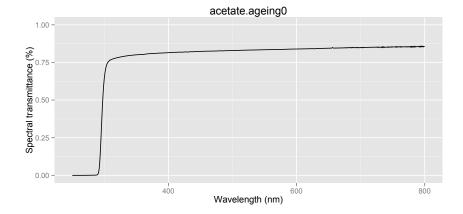
```
for (filter in c("acetate.115um.new", "acetate.250um.new", "acetate.480um.new")) {
   filter.plotter(filter)
}
```

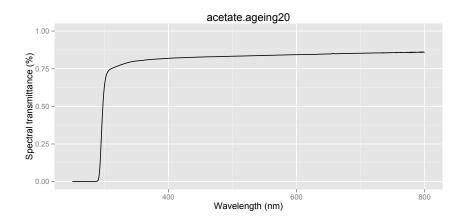


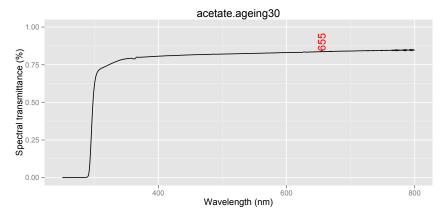


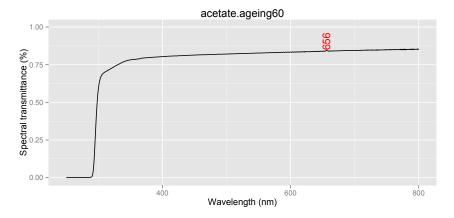


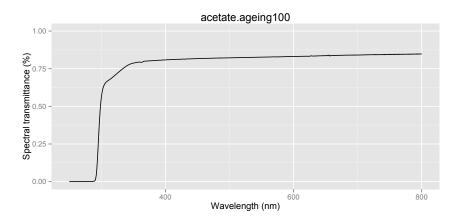
```
for (filter in c("acetate.ageing0", "acetate.ageing20", "acetate.ageing30", "acetate.ageing60", "acetate.ageing10
    filter.plotter(filter)
}
```

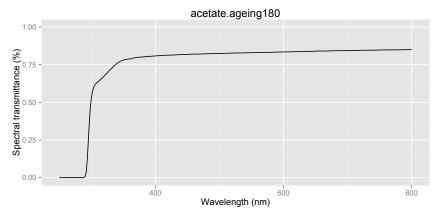


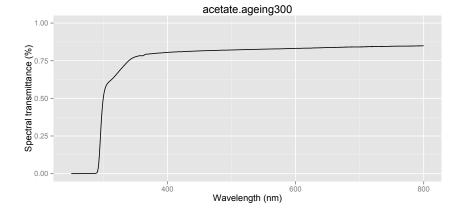






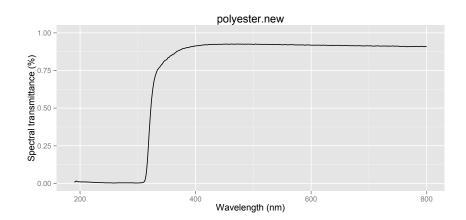






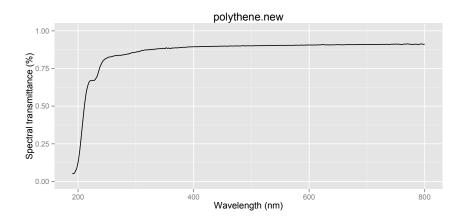
3.2 Polyester

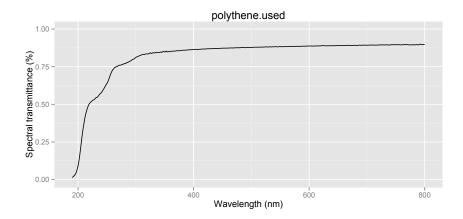
filter.plotter("polyester.new")



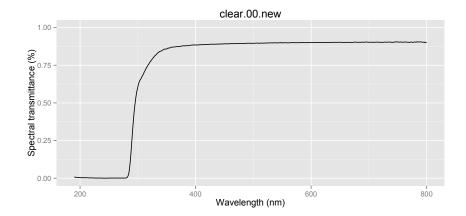
3.3 Polythene

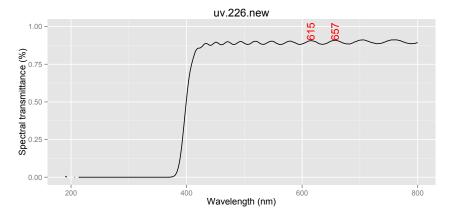
```
filter.plotter("polythene.new")
filter.plotter("polythene.used")
```

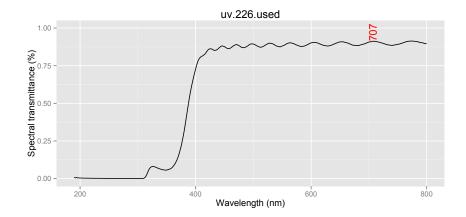


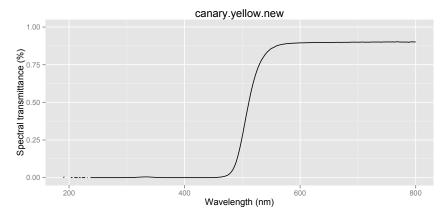


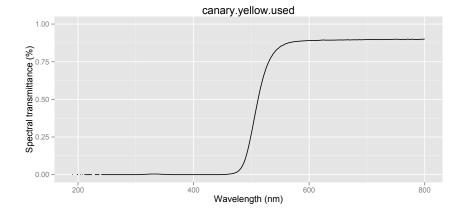
3.4 Rosco theatrical filters

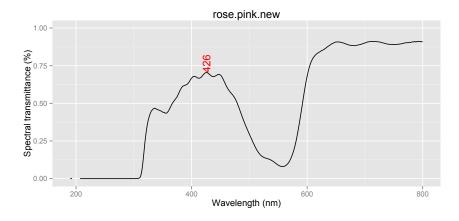


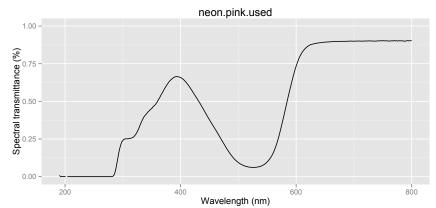


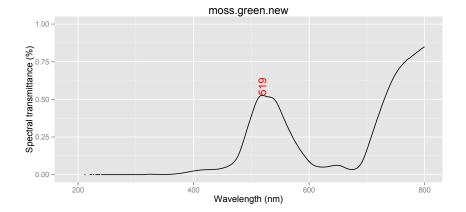


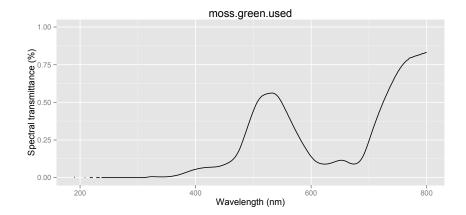






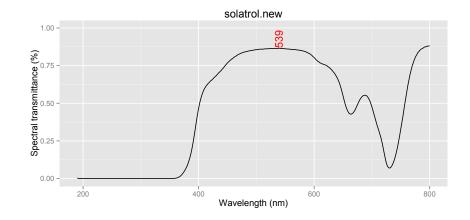


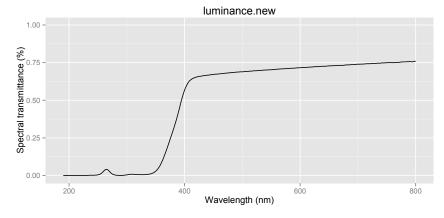




3.5 Commercial greenhouse films from BPI Agri Visqueen

```
for (filter in c("solatrol.new", "luminance.new")) {
  filter.plotter(filter)
}
```

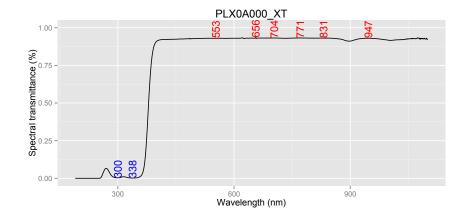


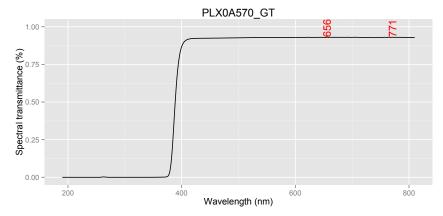


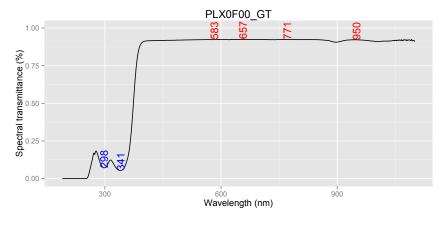
4 Plastic sheets

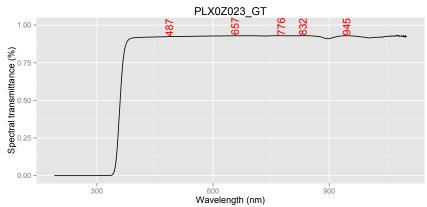
4.1 Plexiglas

```
for (filter in c("PLXOA000_XT", "PLXOA570_GT", "PLXOF00_GT", "PLXOZ023_GT")) {
   filter.plotter(filter)
}
```

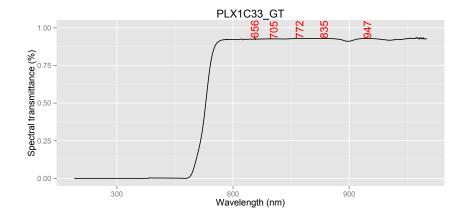


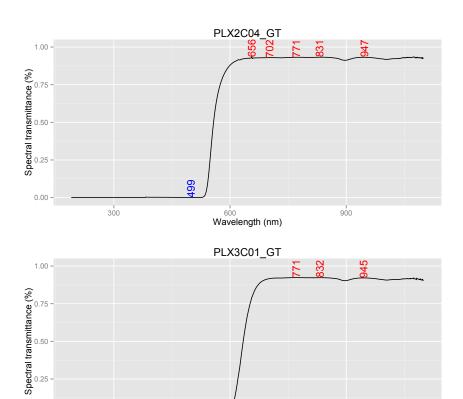


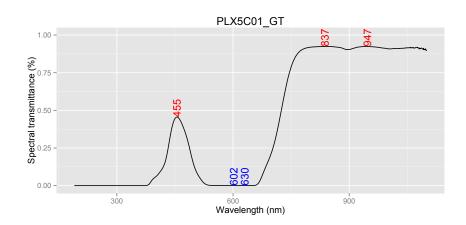




```
for (filter in c("PLX1C33_GT", "PLX2C04_GT", "PLX3C01_GT", "PLX5C01_GT")) {
   filter.plotter(filter)
}
```







Wavelength (nm)

900

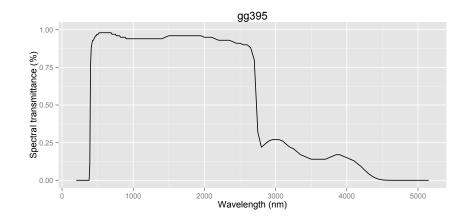
0.00 -

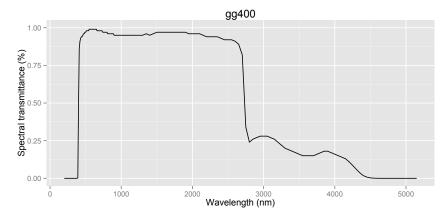
300

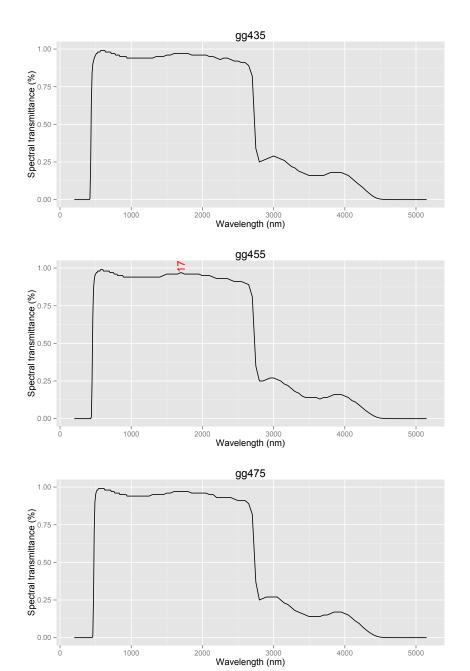
5 Optical glass filters

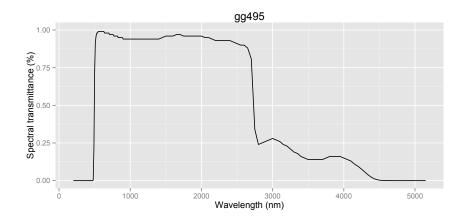
5.1 Schott long-pass filters

```
for (filter in c("gg395", "gg400", "gg435", "gg455", "gg475", "gg495")) {
   filter.plotter(filter)
}
```

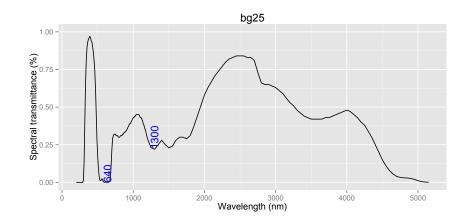


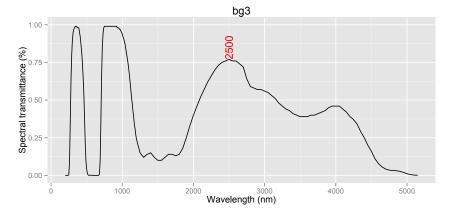


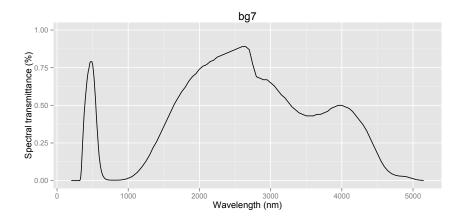




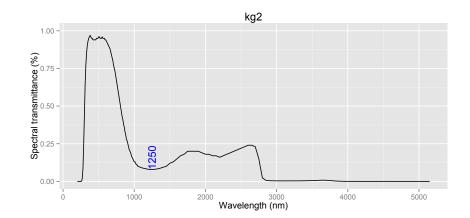
```
for (filter in c("bg25", "bg3", "bg7")) {
   filter.plotter(filter)
}
```

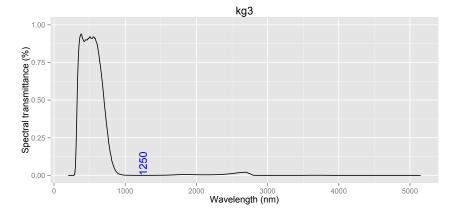


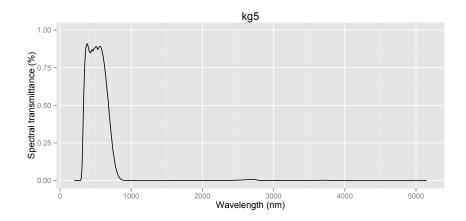




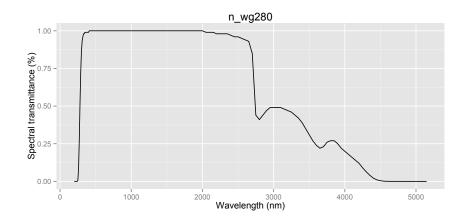
```
for (filter in c("kg2", "kg3", "kg5")) {
  filter.plotter(filter)
}
```

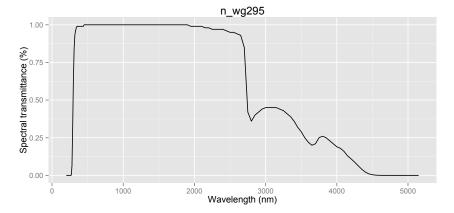


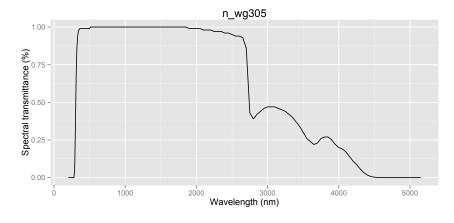


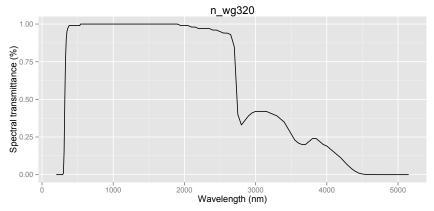


```
for (filter in c("n_wg280", "n_wg295", "n_wg305", "n_wg320")) {
   filter.plotter(filter)
}
```

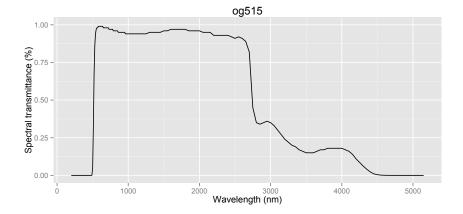


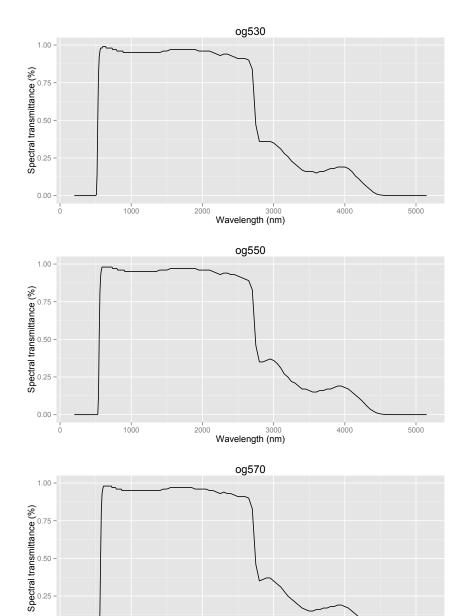






```
for (filter in c("og515", "og530", "og550", "og570", "og590")) {
   filter.plotter(filter)
}
```



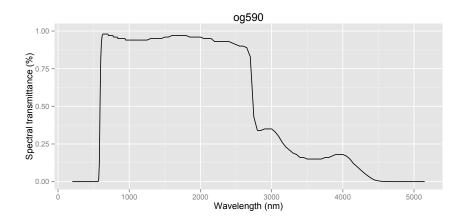


2000 3000 Wavelength (nm) 5000

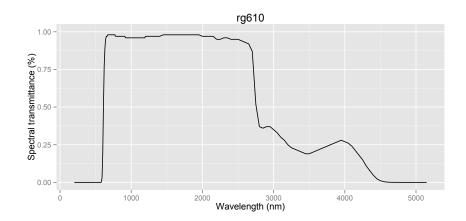
4000

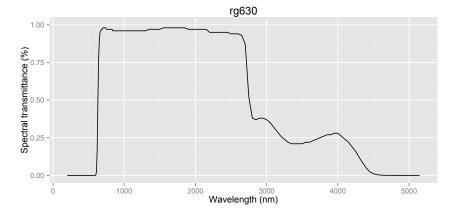
0.00 -

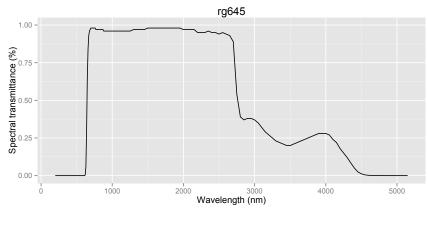
1000

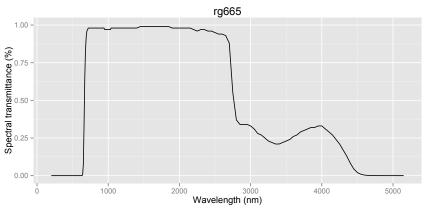


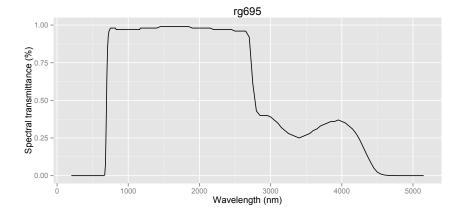
```
for (filter in c("rg610", "rg630", "rg645", "rg665", "rg695", "rg715", "rg780", "rg830", "rg850", "rg9")) {
   filter.plotter(filter)
}
```

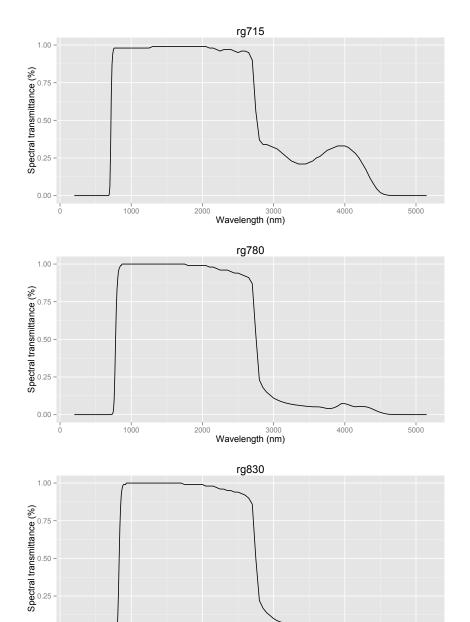










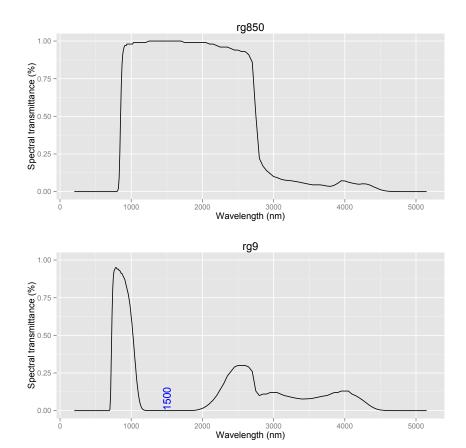


2000 3000 Wavelength (nm) 5000

4000

0.00 -

1000



5.2 Schott band-pass filters

```
for (filter in c("ug1", "ug5", "ug11")) {
  filter.plotter(filter)
}
```

