# photobiologySun Version 0.2.0 Catalogue of Solar Spectra

Pedro J. Aphalo

January 23, 2015

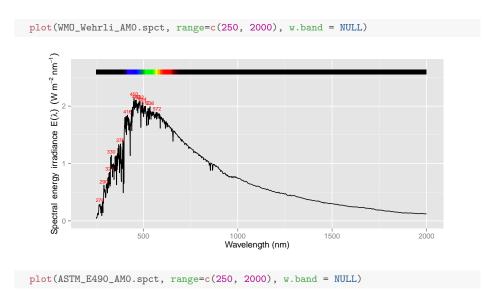
#### 1 Introduction

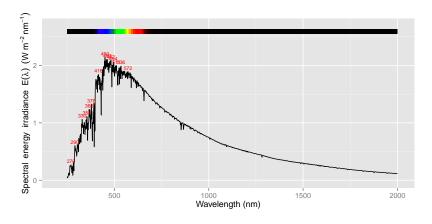
The plots show the solar spectral irradiance data included in the package.

```
library(ggplot2)
library(photobiology)
library(photobiologySun)
library(photobiologygg)
```

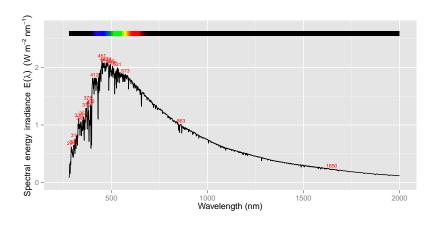
We define a function to do the actual plotting so as to not repeat code, and to make changes easier in the future.

### 2 Extraterrestrial solar spectra



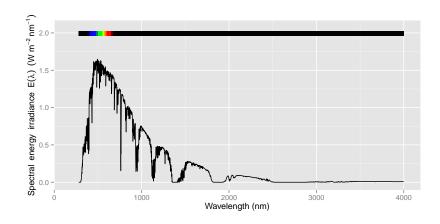


plot(Gueymard\_AMO.spct, range=c(250, 2000), w.band = NULL)

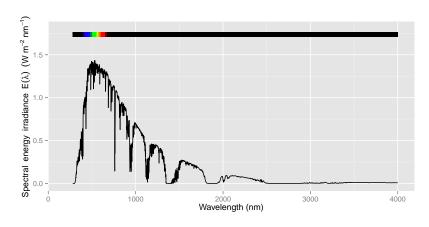


## 3 Standard terrestrial solar spectra

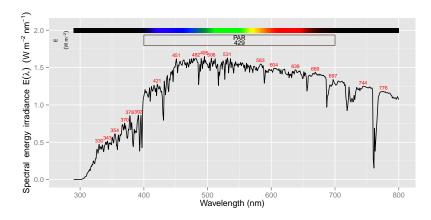
plot(ASTM\_G173\_direct.spct, annotations="colour.guide")



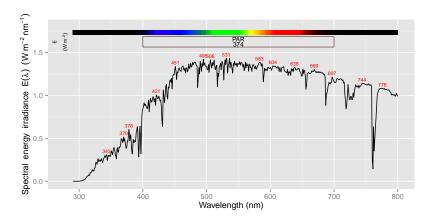
plot(ASTM\_G173\_global.spct, annotations="colour.guide")



plot(ASTM\_G173\_direct.spct, range=c(290, 800), w.band=PAR())



#### plot(ASTM\_G173\_global.spct, range=c(290, 800), w.band=PAR())



## 4 Measured daylight spectra

