

```
#### On selectionne les variables
```

```
variable=c("tmin_means","tmax_means","tmax_days90th","tmin_days90th","tmax_days10th","tmin_days10th","tmin_days0","ppt_days","ppt_days2","ppt_days10","ppt_days90th","ppt_dryspell","ppt_means")
```

```
##on selectionne des pays
```

```
world <- c("FRA","ESP","SWE","CZE","PRT",  
"FIN","NOR","BRA","CHL","PRY","PER","BOL","ARG","USA","CAN","MEX","CRI","HND","JAM","CIV","TGO",  
"CMR","GHA","TUN","ZMB","JPN","CHN","KAZ","MNG","IND","HKG","AUS","NZL","FJI")
```

```
##on leur attribue un continent
```

```
continent=c("EUR","EUR","EUR","EUR","EUR","EUR","EUR","SoAM","SoAM","SoAM","SoAM","SoAM",  
"SoAM","NoAM","NoAM","NoAM","NoAM","NoAM","NoAM","AFR","AFR","AFR","AFR","AFR",  
"AFR","ASI","ASI","ASI","ASI","ASI","ASI","OCE","OCE","OCE")
```

```
tabacp=NULL
```

```
for (i in 1:length(variable)){##on parcourt les variables
```

```
country.dat <- get_ensemble_stats(world,"mavg",variable[i])
```

```
##on selectionne un scenario
```

```
country.dat.b1 <- subset(country.dat,country.dat$scenario == "b1")
```

```
# on choisit un quantile
```

```
country.dat.b1 <- subset(country.dat.b1,country.dat.b1$percentile== 50)
```

```
# on choisit une periode
```

```
country.dat.b1 <- subset(country.dat.b1,country.dat.b1$fromYear== 2081)
```

```
count2=NULL
```

```
for (j in 1:length(world)){##on parcourt les pays
```

```
count=subset(country.dat.b1,country.dat.b1$locator==world[j])
```

```
count2=c(count2,mean(count$data))##on calcule la moyenne
```

```
}
```

```
tabacp=cbind(tabacp,count2)
```

```
}
```

```
colnames(tabacp)=variable
```

```
rownames(tabacp)=world
```

```
tabacp1=cbind(as.data.frame(tabacp),continent)
```

```
#####AFD
```

```
###pour cela nous recuperons le code de notre professeur Marie Chavent
```

```
source("AFD_procedures.R")
```

```
res<-AFD(tabacp1[,-14],tabacp1[,14])
```