Directory="/Users/benjamingeffroy/Desktop/Cpt/"

J1A=read.table(paste(Directory,"index activite de nage J1A.txt", sep=""), sep="\t", dec=".", header=T, skip=5)

summary(J1A)

plot(vitesse~seconde, data=J1A[J1A$bac==1,], col="blue", cex=0.5, ylim=c(0,max(J1A$vitesse)))

points(vitesse~seconde, data=J1A[J1A$bac==2,], col="green", cex=0.5)

points(vitesse~seconde, data=J1A[J1A$bac==3,], col="red", cex=0.5)

points(vitesse~seconde, data=J1A[J1A$bac==5,], col="orange", cex=0.5)

J1B=read.table(paste(Directory,"index activite de nage J1B.txt", sep=""), sep="\t", dec=".", header=T, skip=5)

summary(J1B)

plot(vitesse~seconde, data=J1B[J1B$bac==1,], col="blue", cex=0.5, ylim=c(0,max(J1B$vitesse)))

points(vitesse~seconde, data=J1B[J1B$bac==2,], col="green", cex=0.5)

points(vitesse~seconde, data=J1B[J1B$bac==3,], col="red", cex=0.5)

points(vitesse~seconde, data=J1B[J1B$bac==5,], col="orange", cex=0.5)

J1C=read.table(paste(Directory,"index activite de nage J1C.txt", sep=""), sep="\t", dec=".", header=T, skip=5)

summary(J1C)

plot(vitesse~seconde, data=J1C[J1C$bac==1,], col="blue", cex=0.5, ylim=c(0,max(J1C$vitesse)))

points(vitesse~seconde, data=J1C[J1C$bac==2,], col="green", cex=0.5)

points(vitesse~seconde, data=J1C[J1C$bac==3,], col="red", cex=0.5)

points(vitesse~seconde, data=J1C[J1C$bac==5,], col="orange", cex=0.5)

J2B=read.table(paste(Directory,"index activite de nage J2B.txt", sep=""), sep="\t", dec=".", header=T, skip=5)

summary(J2B)

plot(vitesse~seconde, data=J2B[J2B$bac==1,], col="blue", cex=0.5, ylim=c(0,max(J2B$vitesse)))

points(vitesse~seconde, data=J2B[J2B$bac==2,], col="green", cex=0.5)

points(vitesse~seconde, data=J2B[J2B$bac==3,], col="red", cex=0.5)

points(vitesse~seconde, data=J2B[J2B$bac==5,], col="orange", cex=0.5)

###############################################   MOYENNE PAR CONDITION

moyJ1B=tapply(J1B$vitesse, J1B$seconde, mean)

moyJ1B=data.frame(seconde=as.numeric(names(moyJ1B)),vitesse=moyJ1B)

plot(vitesse~seconde, data=moyJ1B, col="blue", cex=0.5)

moyJ1C=tapply(J1C$vitesse, J1C$seconde, mean)

moyJ1C=data.frame(seconde=as.numeric(names(moyJ1C)),vitesse=moyJ1C)

points(vitesse~seconde, data=moyJ1C, col="green", cex=0.5)

Pente2=subset(J1C,! J1C$seconde > 3099, )

Pente1B=subset(Pente1,! Pente1$seconde < 3091, )

Pente1=subset(J1B,! J1B$seconde > 3099, )

summary(GLM.2)

library(effects, pos=5)

trellis.device(theme="col.whitebg")

plot(allEffects(GLM.2), ask=FALSE)

T=colMeans(matrix(moyJ5C$seconde, nrow=10))

Package MESS

auc(J1Bx, fitted(J1Bplot), from = 2700, to= 5500,type=c("spline"))

Package gss

J1Cplot=ssanova0(J1Cx~J1Cy)

plot(J1Bx,J1By)

points(J1Bx,fitted(J1Bplot),col="blue")

ModelJ5B0=ssanova(SDX~seconde,data=moyJ5B)

ModelJ2B=ssanova0(SDX~seconde,data=J2B, random=~1|bac)

auc(seconde, fitted(ModJ1C0), from = 2800, to= 5500,type=c("spline"))

[1] 89266.57

> auc(seconde, fitted(ModJ1B0), from = 2800, to= 5500,type=c("spline"))

[1] 81125.66

> auc(seconde, fitted(ModJ2B0), from = 2800, to= 5500,type=c("spline"))

[1] 90139.51

> auc(seconde, fitted(ModJ2C0), from = 2800, to= 5500,type=c("spline"))

[1] 95056.35

auc(seconde, fitted(ModJ3B0), from = 2800, to= 5500,type=c("spline"))

[1] 102510.5

auc(seconde, fitted(ModJ3C0), from = 2800, to= 5500,type=c("spline"))

[1] 87293.39

auc(seconde, fitted(ModJ4B0), from = 2800, to= 5500,type=c("spline"))

[1] 85563.6

auc(seconde, fitted(ModJ4C0), from = 2800, to= 5500,type=c("spline"))

[1] 81535.39

auc(seconde, fitted(ModJ5B0), from = 2800, to= 4500,type=c("spline"))

[1] 67332.93

auc(seconde, fitted(ModJ5C0), from = 2800, to= 4500,type=c("spline"))

[1] 78743.77

moyJ3C=tapply(J3S1C1$Vitaire, J3S1C1$seconde, mean)

moyJ3C=data.frame(seconde=as.numeric(names(moyJ3C)),Vitaire=moyJ3C)

moyJ3B=tapply(J3S1B1$Vitaire, J3S1B1$seconde, mean)

moyJ3B=data.frame(seconde=as.numeric(names(moyJ3B)),Vitaire=moyJ3B)

plot(Vitaire~seconde, data=moyJ3B, col="blue", cex=0.3, ylim=c(0,150))

points(Vitaire~seconde, data=moyJ3C, col="green", cex=0.3)

ModJ3C0=ssanova(Vitaire~seconde,data=moyJ3C)

ModJ3B0=ssanova(Vitaire~seconde,data=moyJ3B)

attach(moyJ3B)