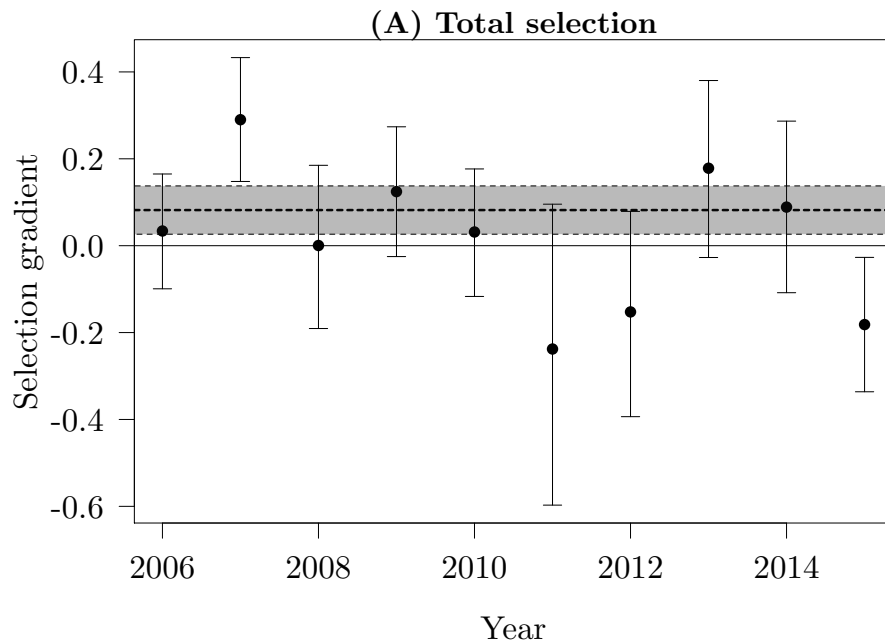


```

setPar()
plot(SelAByYear, x=2006:2015, ylim=c(min( CIselAByYear), max( CIselAByYear)), xlab="Year", y
abline(h=0)
arrows(x0 = 2006:2015,x1 = 2006:2015,code = 3, y0 = CIselAByYear[1,],
       y1 = CIselAByYear[2,], angle = 90,length = 0.1)
abline(h=coefficients(mOall)[2], lty=2, lwd=5)
lowmOall <- coefficients(mOall)[2]+1.96*smOall$coefficients[2,2]
highmOall <- coefficients(mOall)[2]-1.96*smOall$coefficients[2,2]
polygon(x=c(2005,2016,2016,2005),y=c(lowmOall,lowmOall, highmOall, highmOall),
       fillOddEven = TRUE, col=rgb(0.1,0.1,0.1,0.3), lty=2)

```



```

#points(x=2006:2015,y=unlist(coefficients(mmRnoCorfitness)$Year["StMass"]), pch=17)

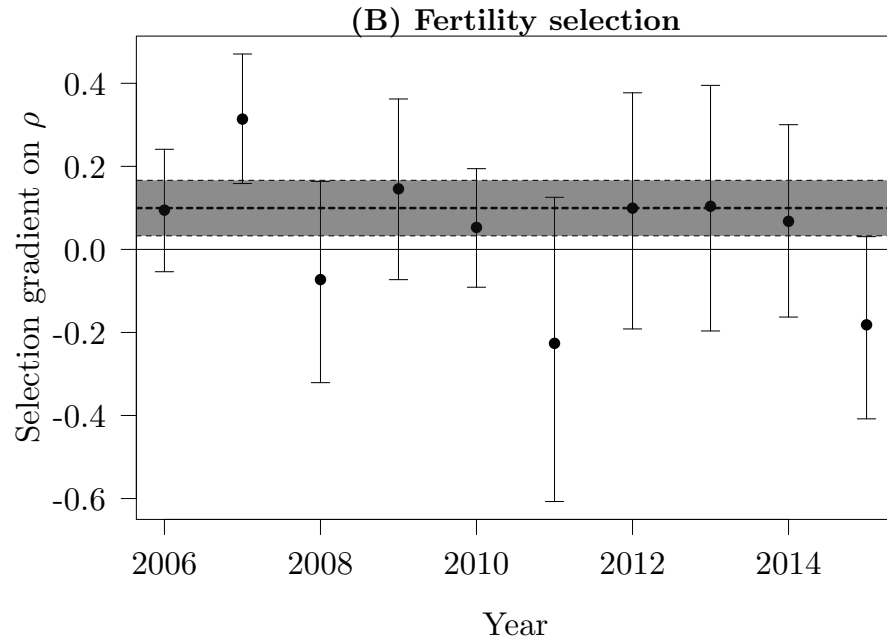
```

```

setPar()
plot(SelAByYearRho, x=2006:2015, ylim=c(min( CIselAByYearRho), max( CIselAByYearRho)), xlab=
abline(h=0)
arrows(x0 = 2006:2015,x1 = 2006:2015,code = 3, y0 = CIselAByYearRho[1,],
       y1 = CIselAByYearRho[2,], angle = 90,length = 0.1)
abline(h=coefficients(mOallRho)[2], lty=2, lwd=5)
smOallRho <- summary(mOallRho)
lowmOallRho <- coefficients(mOallRho)[2]+1.96*smOallRho$coefficients[2,2]
highmOallRho <- coefficients(mOallRho)[2]-1.96*smOallRho$coefficients[2,2]
polygon(x=c(2005,2016,2016,2005),y=c(lowmOallRho,lowmOallRho, highmOallRho, highmOallRho),

```

```
fillOddEven = TRUE, col=rgb(0.1,0.1,0.1,0.5), lty=2)
```



```
setPar()
plot(SelAByYearPhi, x=2006:2015, ylim=c(min( CIselAByYearPhi, na.rm=TRUE), max( CIselAByYearPhi, na.rm=TRUE)),
     abline(h=0)
     arrows(x0 = 2006:2015,x1 = 2006:2015,code = 3, y0 = CIselAByYearPhi[1,],
           y1 = CIselAByYearPhi[2,], angle = 90,length = 0.1)
     abline(h=coefficients(m0allphi)[2], lty=2, lwd=5)
lowm0allphi <- coefficients(m0allphi)[2]+1.96*sm0allphi$coefficients[2,2]
highm0allphi <- coefficients(m0allphi)[2]-1.96*sm0allphi$coefficients[2,2]
polygon(x=c(2005,2016,2016,2005),y=c(lowm0allphi,lowm0allphi, highm0allphi, highm0allphi),
       fillOddEven = TRUE, col=rgb(0.1,0.1,0.1,0.5), lty=2 )
```



```

      paste(round(smmRnoCorrho$coefficients[2,1],rounding),"(",round(smmRnoCorrho$coe
      paste(round(smmRnoCorphi$coefficients[2,1],rounding),"(",round(smmRnoCorphi$coe
SigmaA <- c(sqrt(as.numeric(smmARnoCorfitness$varcor$Year.1)),
      sqrt(as.numeric(smmRnoCorrho$varcor$Year.1)),
sqrt(as.numeric(smmRnoCorphi$varcor$Year.1)))
SigRat <- c(sqrt(as.numeric(smmARnoCorfitness$varcor$Year.1))/smmARnoCorfitness$coefficients
      sqrt(as.numeric(smmRnoCorrho$varcor$Year.1))/smmRnoCorrho$coefficients[2,1],
sqrt(as.numeric(smmRnoCorphi$varcor$Year.1))/smmRnoCorphi$coefficients[2,1])

psigmaA <- c(fitnessAanova$`Pr(>Chisq)`[2]/2, RhoAanova$`Pr(>Chisq)`[2]/2, PhiAanova$`Pr(>Ch
confsigma <- c(paste("(",round(CImmARnoCorfitness[2,1],rounding),";",round(CImmARnoCorfitnes
      paste("(",round(CImmRnoCorrho[2,1],rounding),";",round(CImmRnoCorrho[2,2],rou
      paste("(",round(CImmRnoCorphi[2,1],rounding),";",round(CImmRnoCorphi[2,2],rou

TabSel <- data.frame(BetaGlm = BetaGlm, B=SDyears, C=SEyears , D=BetaGLMM , E=SigmaA, DD =c

```

Table 1:

0.082 (0.028)	0.167	0.097	0.036 (0.044)	0.117	[0.063;0.218]	8.1E-06	3.241
0.1 (0.034)	0.160	0.117	0.052 (0.044)	0.111	[0.053;0.212]	2.5E-04	2.145
-0.248 (0.089)	0.484	0.319	-0.217 (0.098)	0.109	[0;0.425]	3.6E-01	-0.501