

Further notes on comparing indices

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read in stratified estimates from Hugues and Dan

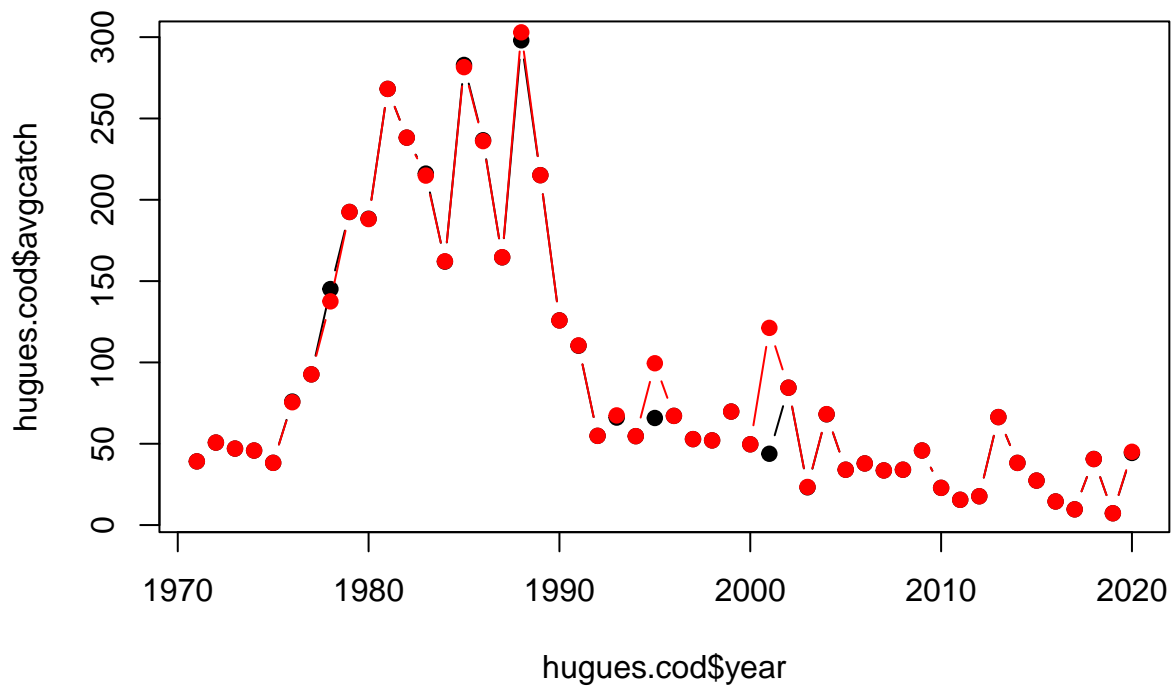
```
csv.fn <- "sGSL RV survey indices_fish_Jan2022.csv"
hugues.df <- read.csv(csv.fn)

## for group of species, use the same species codes
hugues.df[which(hugues.df$species==306), "species"] <- '880'
hugues.df[which(hugues.df$species==500), "species"] <- '503'
hugues.df[which(hugues.df$species==642), "species"] <- '598'
hugues.df[which(hugues.df$species==713), "species"] <- '712'

csv.fn <- "sGSL-RV-data-for-Elise-2021-10-12-C-stratified-matrix.csv"
t.df <- read.csv(csv.fn)
dan.df <- as.data.frame(t(t.df[,2:51]))
names(dan.df) <- as.character(t.df[,1])
dan.df$year <- 1971:2020

## compare cod
hugues.cod <- hugues.df[which(hugues.df$species==10),]
dan.cod <- dan.df[,c(53,11)]

plot(hugues.cod$year, hugues.cod$avgcatch, type='b', pch=19)
lines(dan.cod$year, dan.cod$`10`, type='b', col="red", pch=19)
```

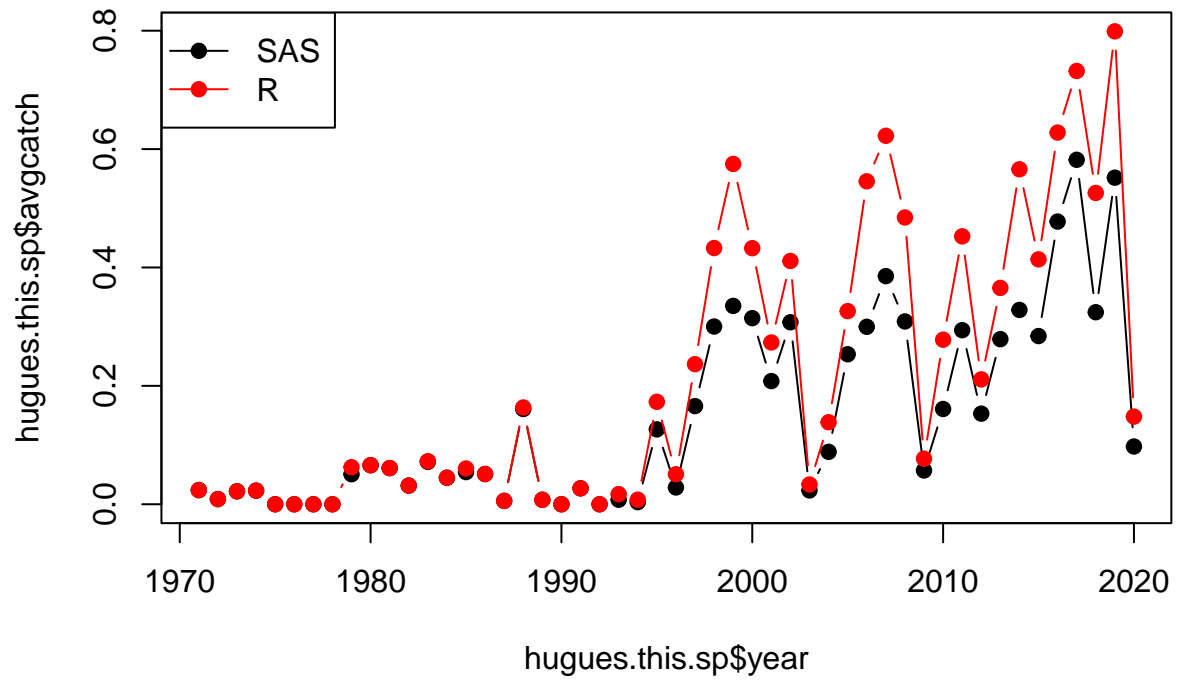


```
## time-series for all species
species <- as.numeric(names(dan.df)[1:52])

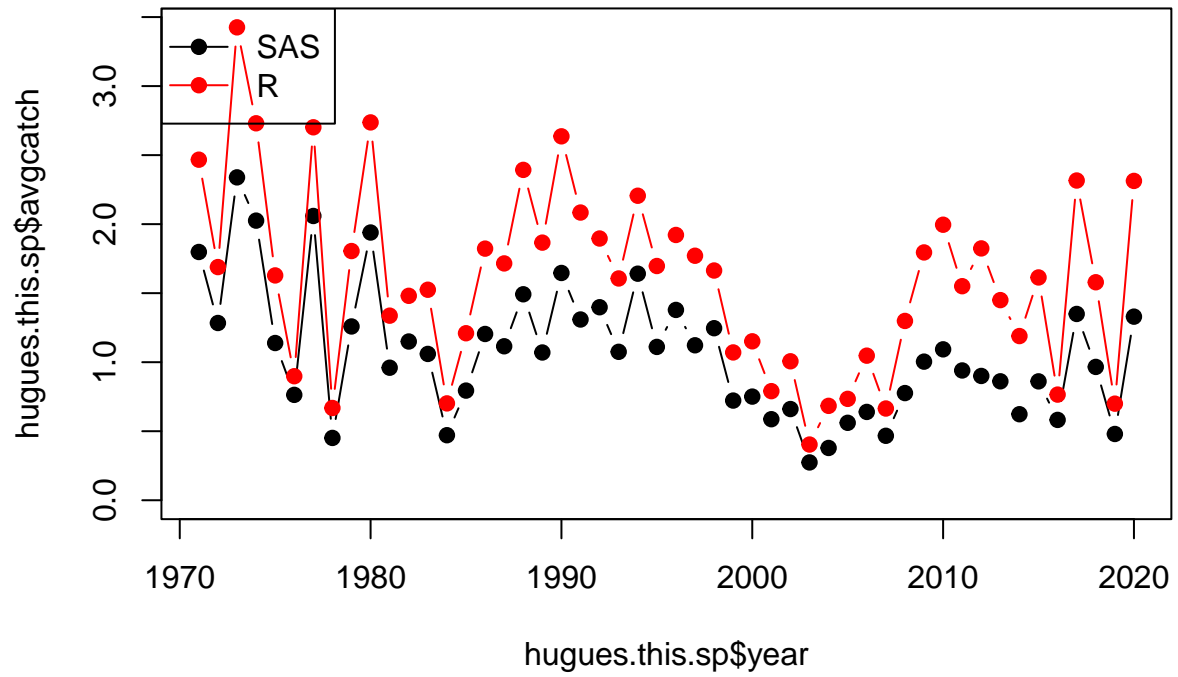
setdiff(species, unique(hugues.df$species))

## numeric(0)
for(i in 1:length(species))
{
  hugues.this.sp <- hugues.df[which(hugues.df$species==species[i]),]
  plot.tit <- paste0(species.str(species[i]), " - species code ", species[i])
  my.ylim <- c(0,max(max(hugues.this.sp$avgcatch), max(dan.df[,i])))
  plot(hugues.this.sp$year, hugues.this.sp$avgcatch, type='b', pch=19, ylim=my.ylim, main=plot.tit)
  lines(dan.df$year, dan.df[,i], type='b', col="red", pch=19)
  legend('topleft', c("SAS", "R"), col=c("black", "red"), lty=1, pch=19)
}
```

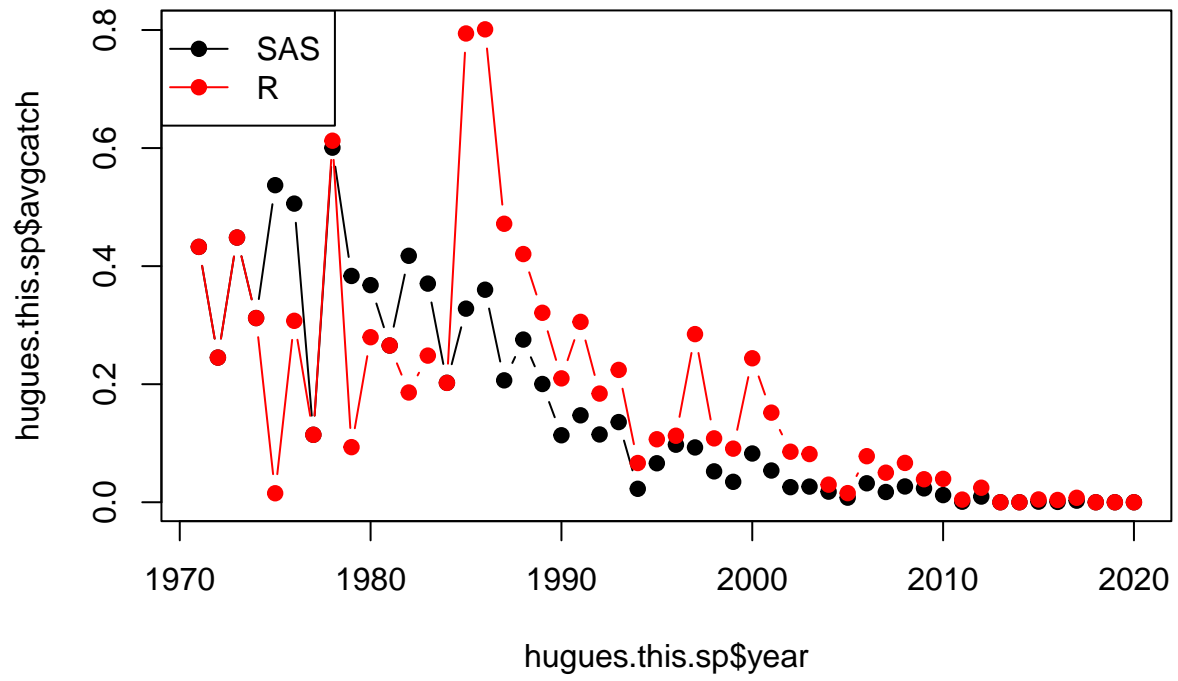
Atlantic hagfish – species code 241



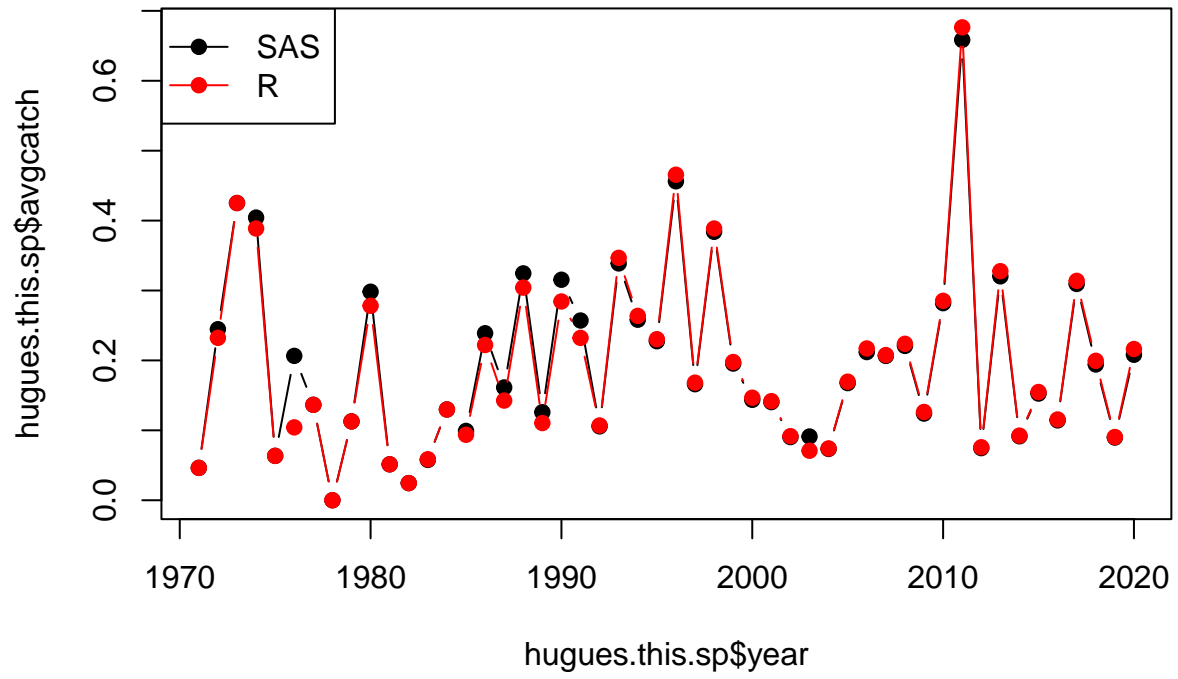
Thorny skate – species code 201



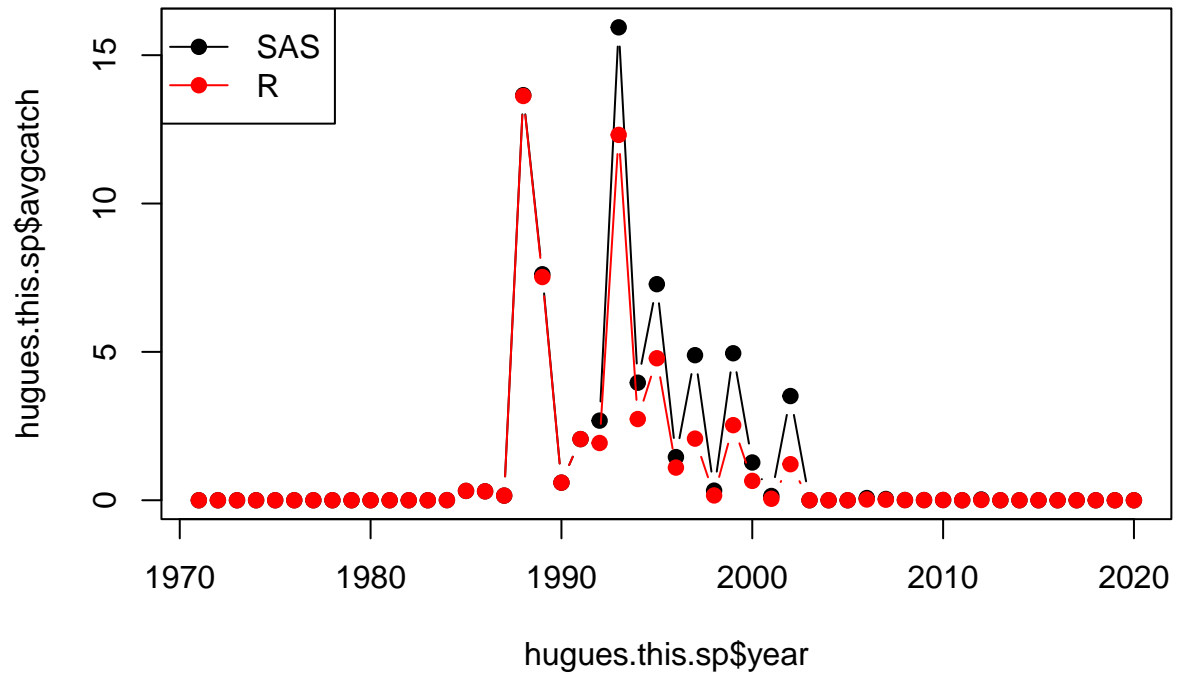
Winter skate – species code 204



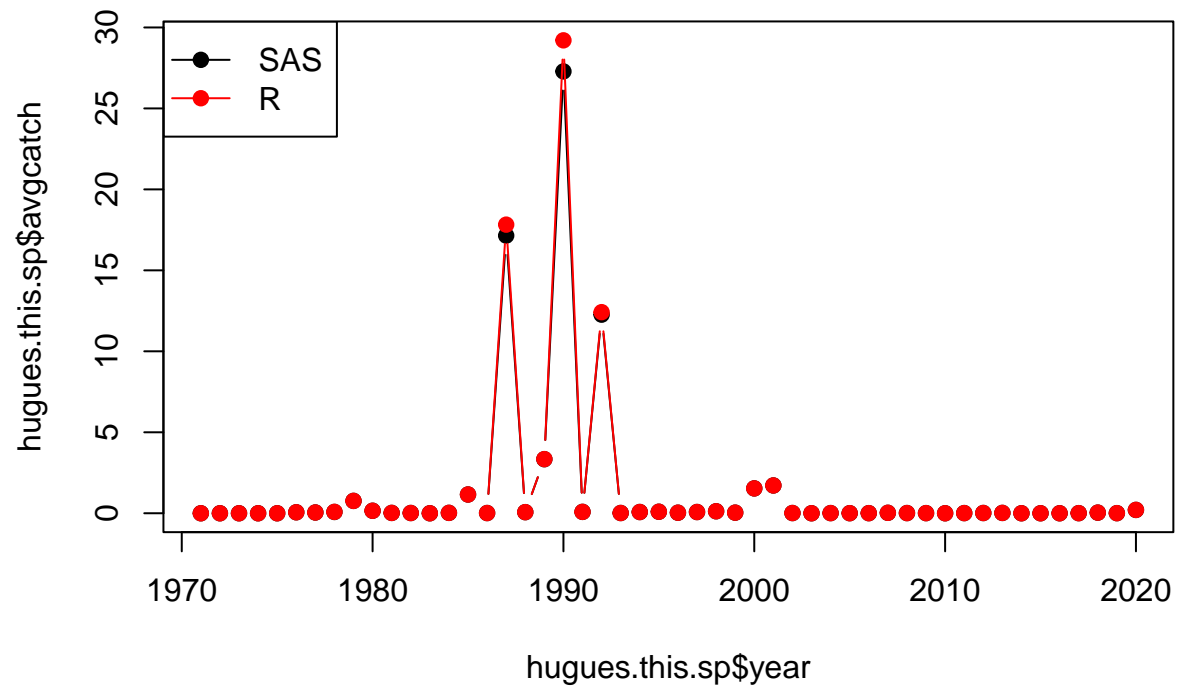
Smooth skate – species code 202



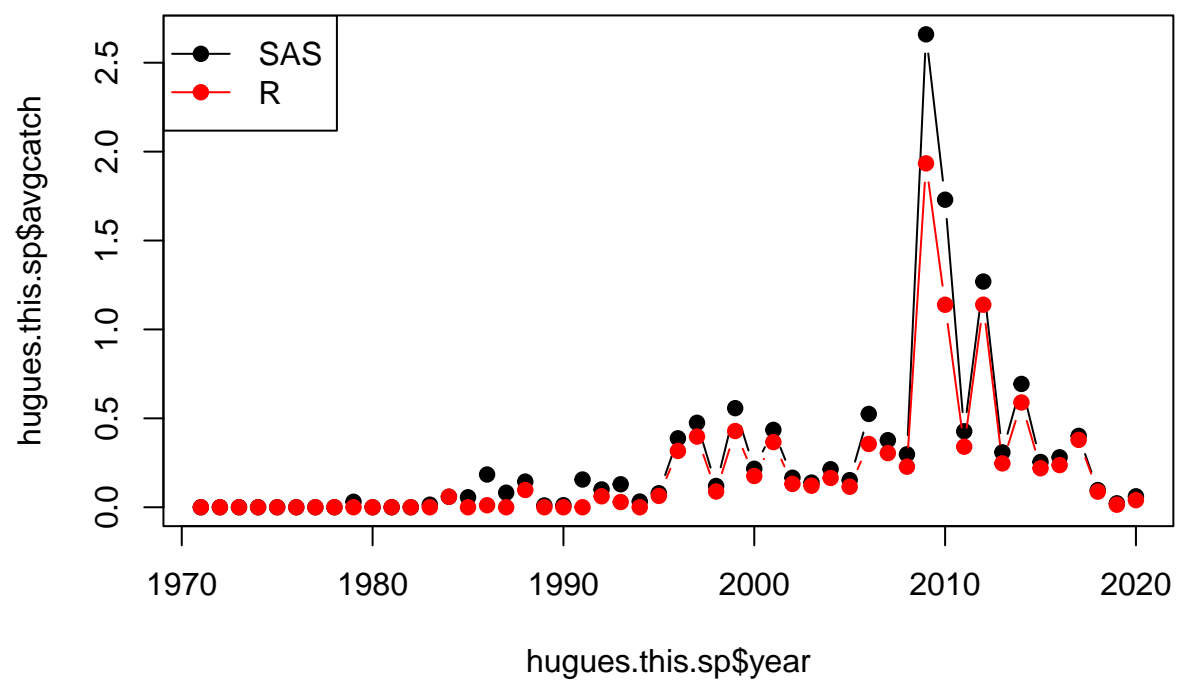
Spiny dogfish – species code 220



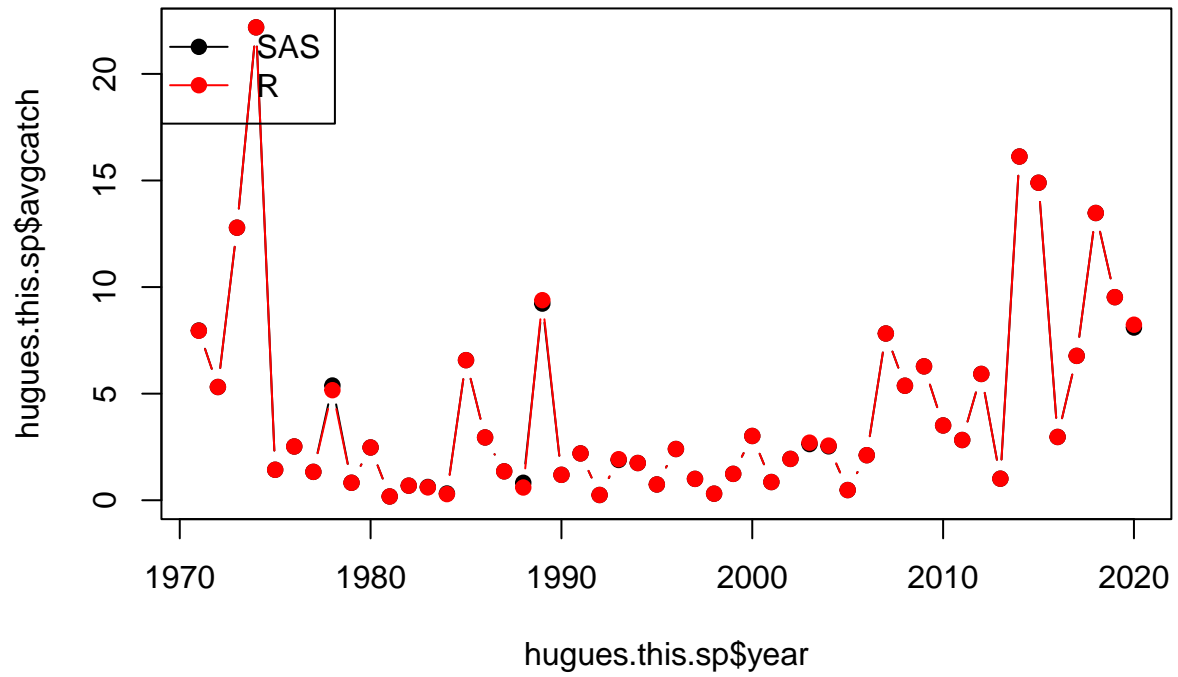
Black dogfish – species code 221



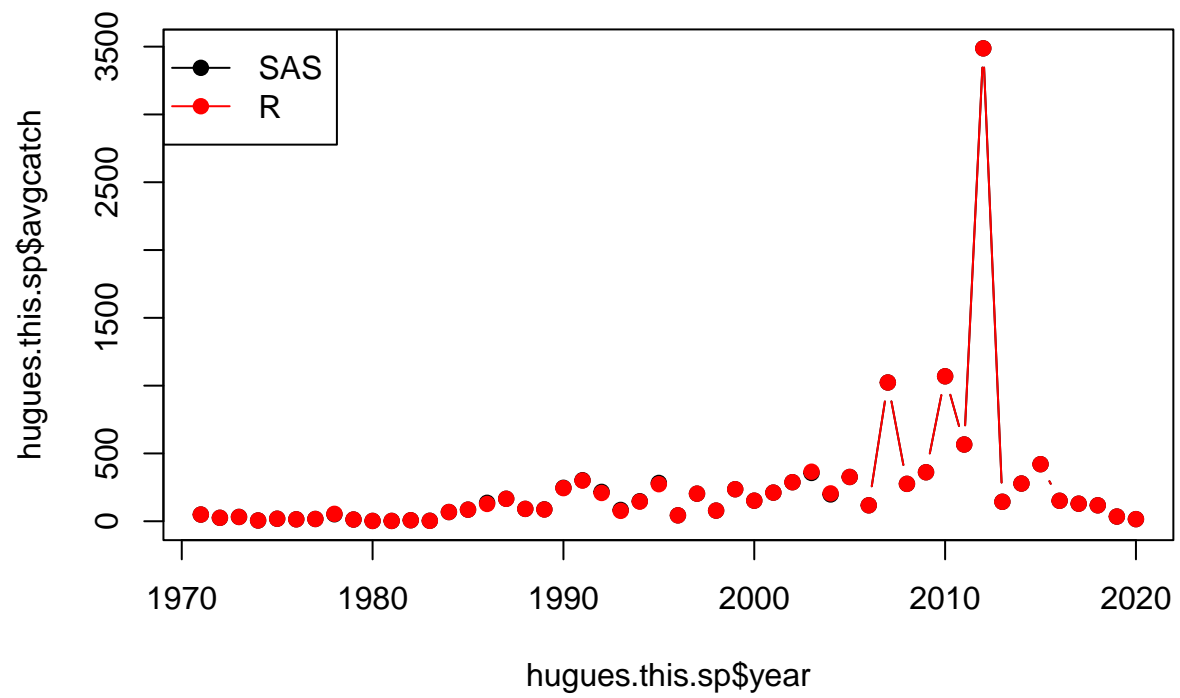
White barracudina – species code 712



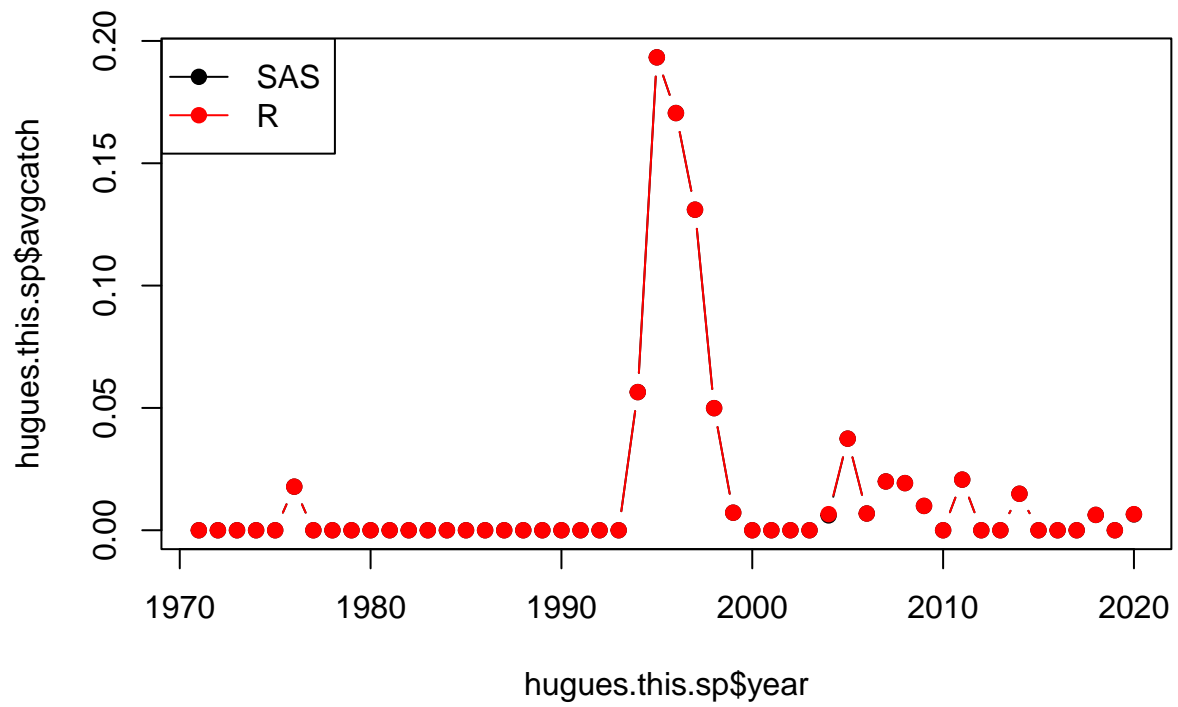
Alewife – species code 62



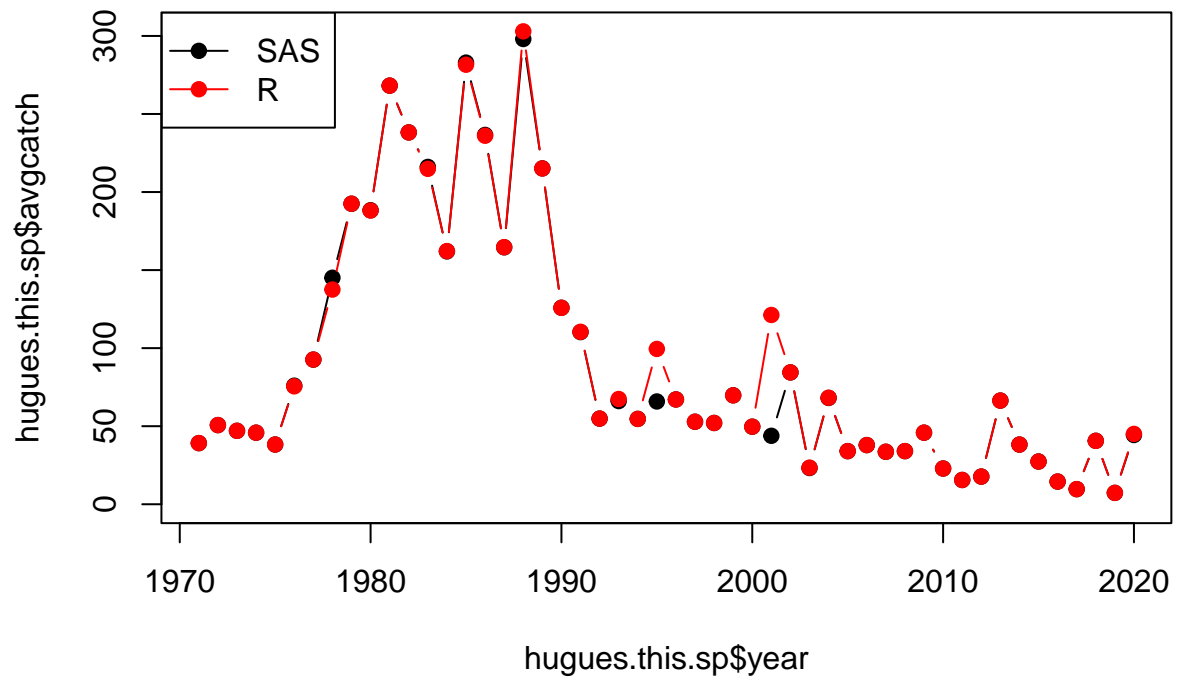
Atlantic herring – species code 60



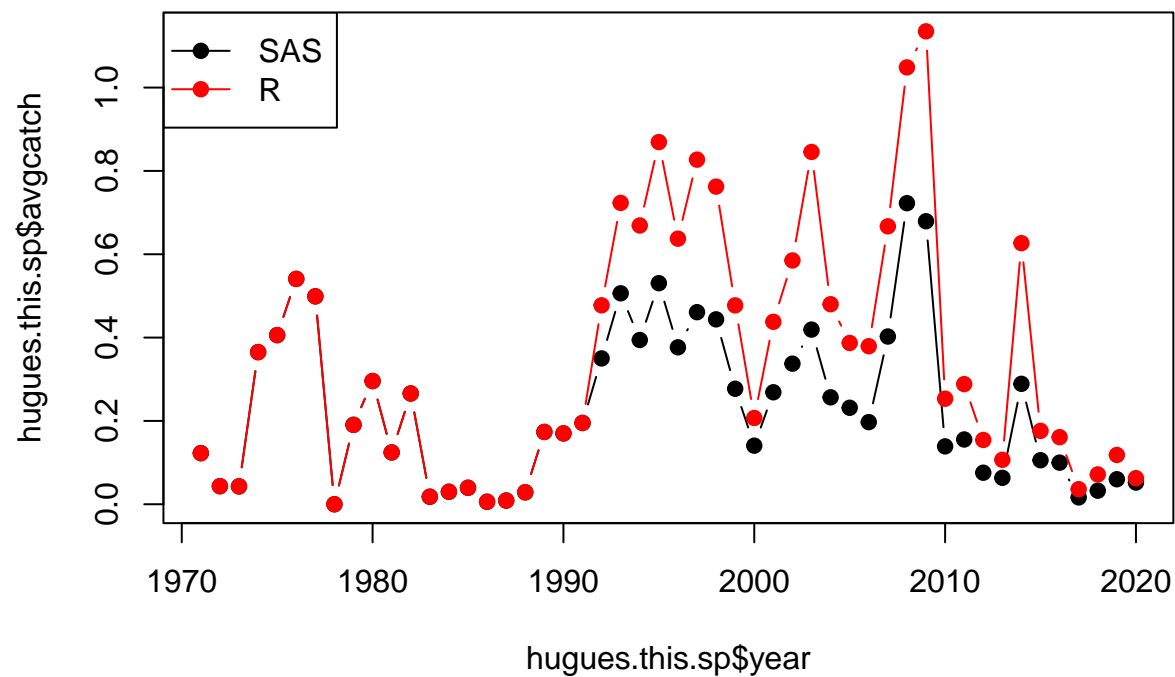
Arctic cod – species code 110



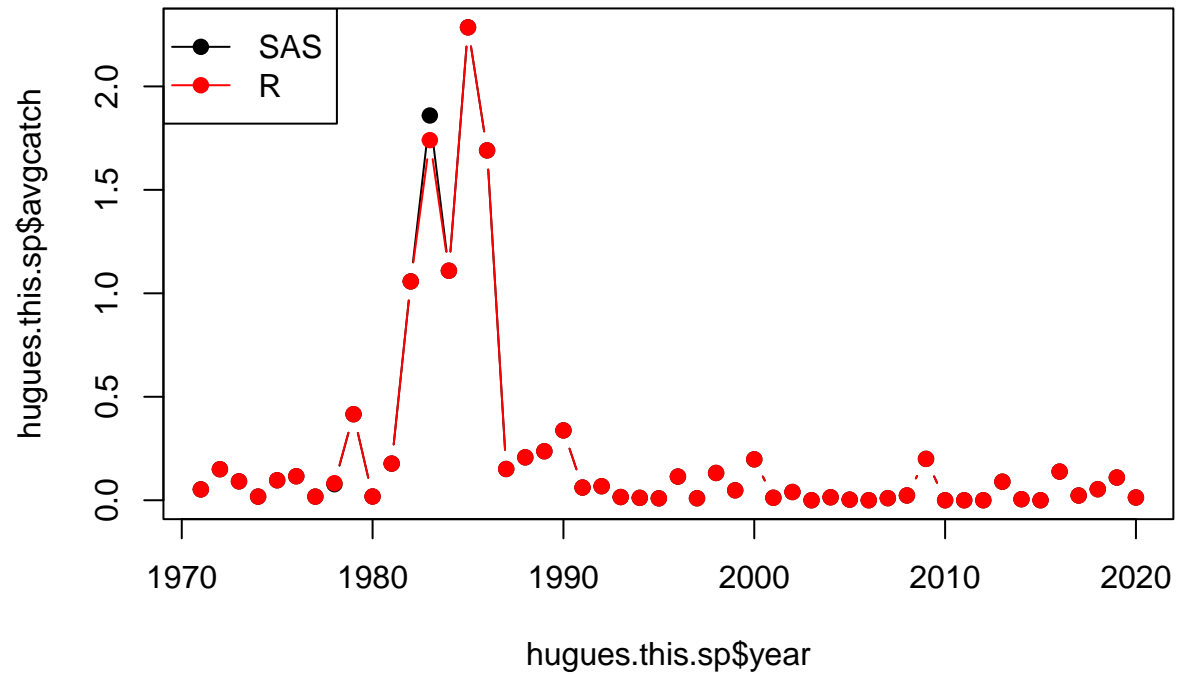
Atlantic cod – species code 10



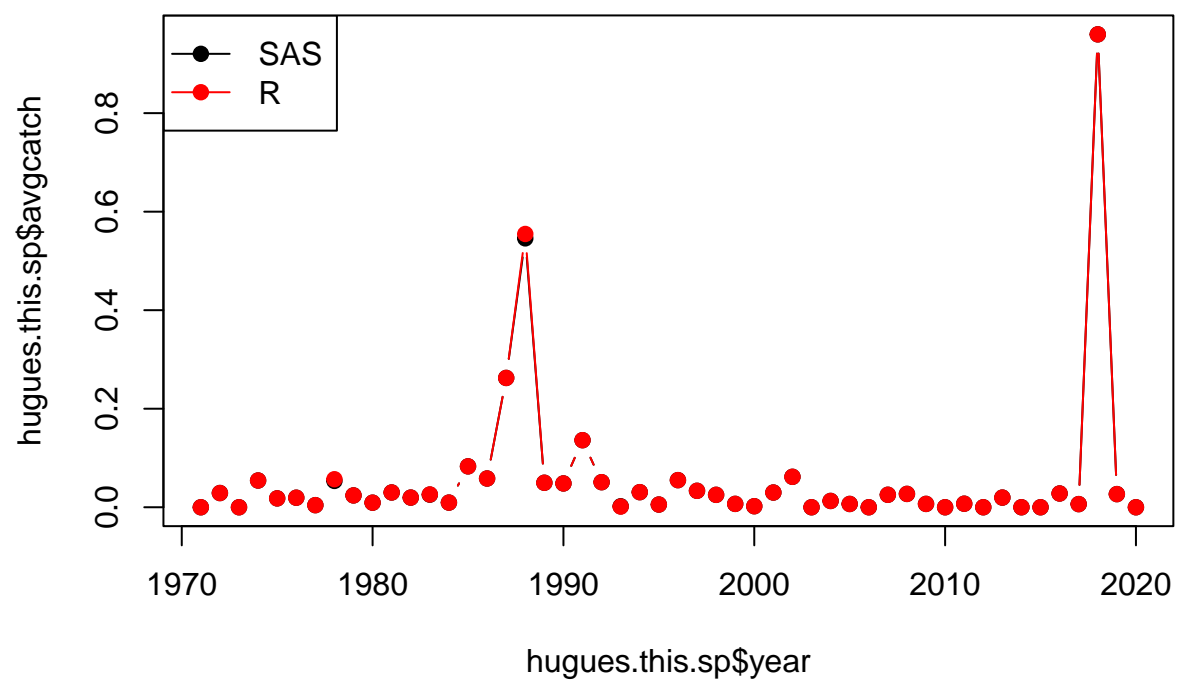
Greenland cod – species code 118



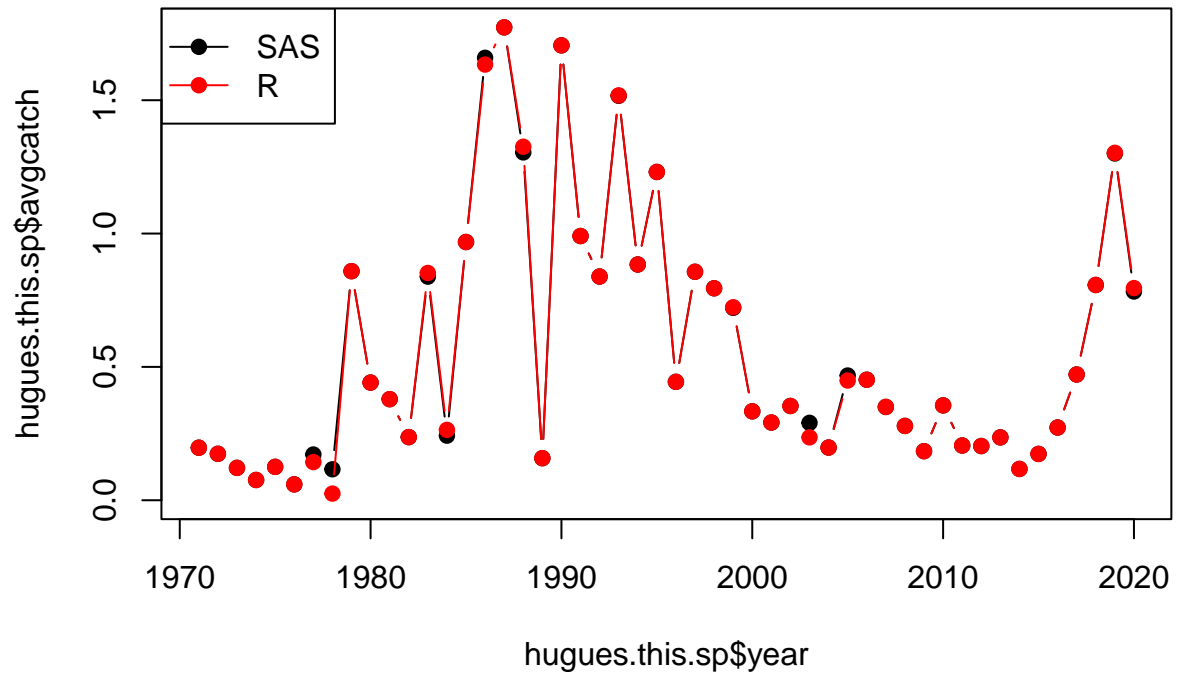
Haddock – species code 11



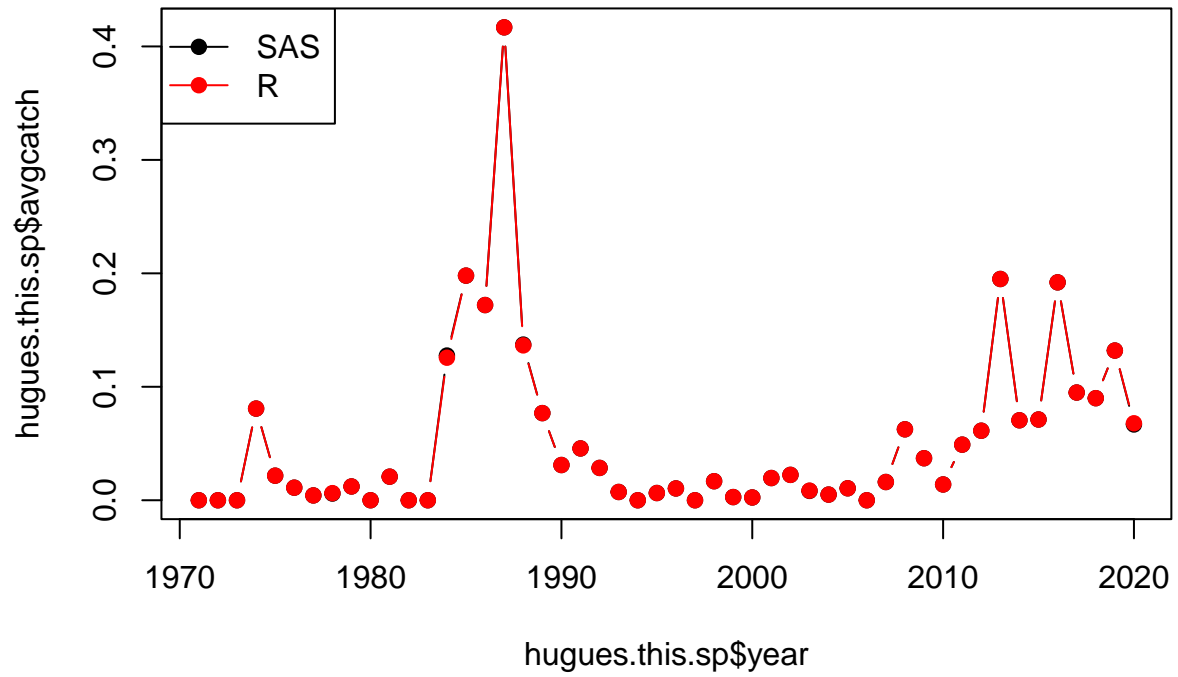
Pollock – species code 16



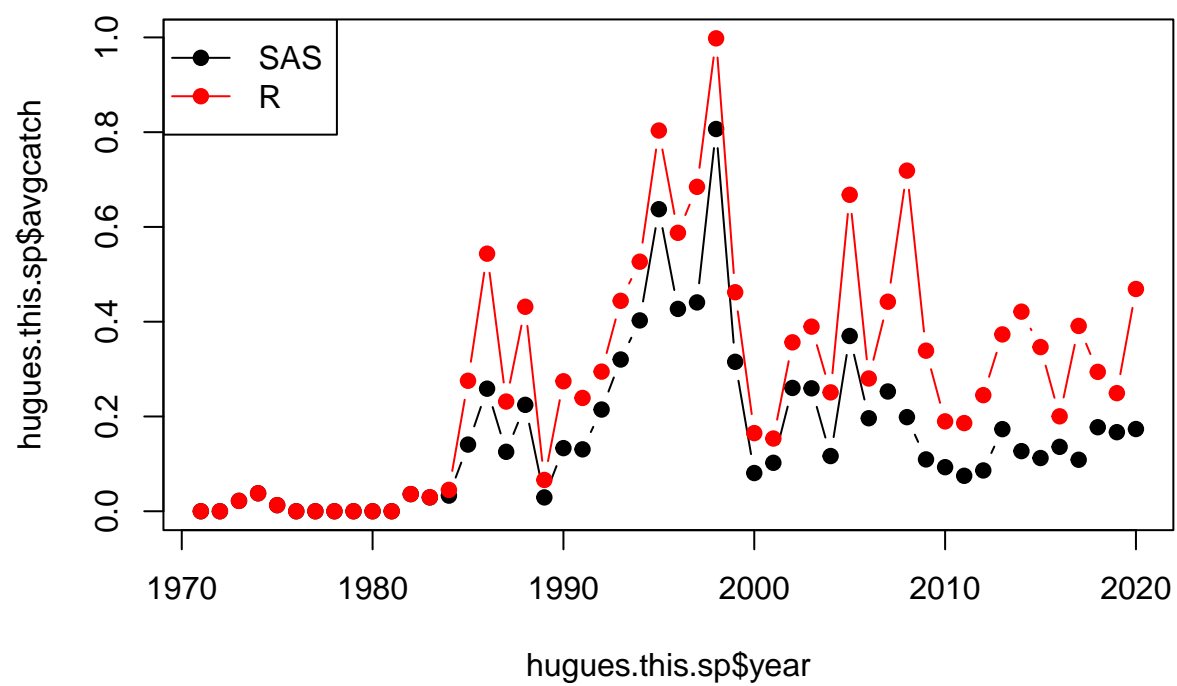
Marlin-spike grenadier – species code 410



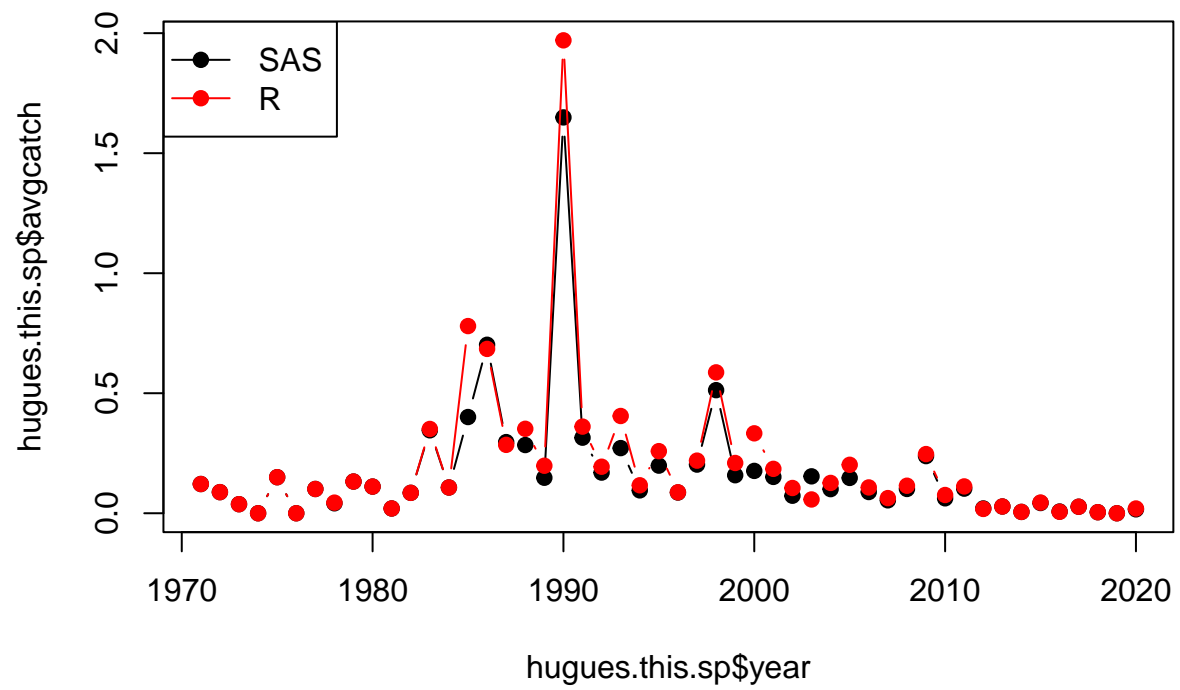
Silver hake – species code 14



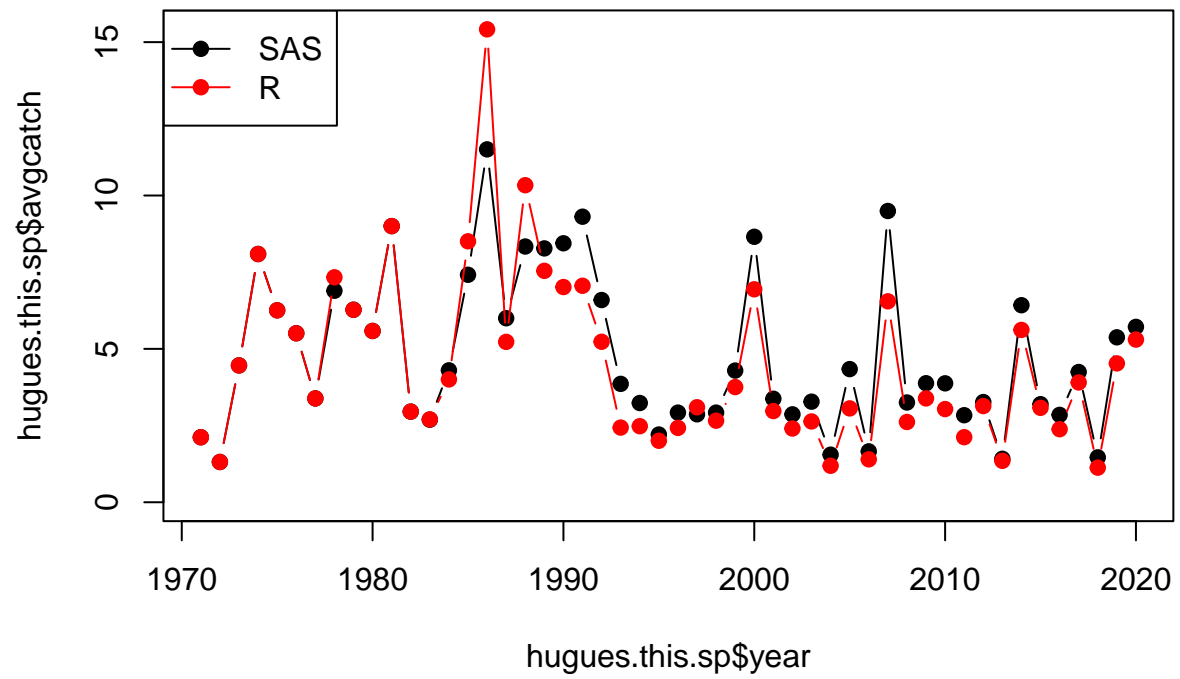
Fourbeard rockling – species code 114



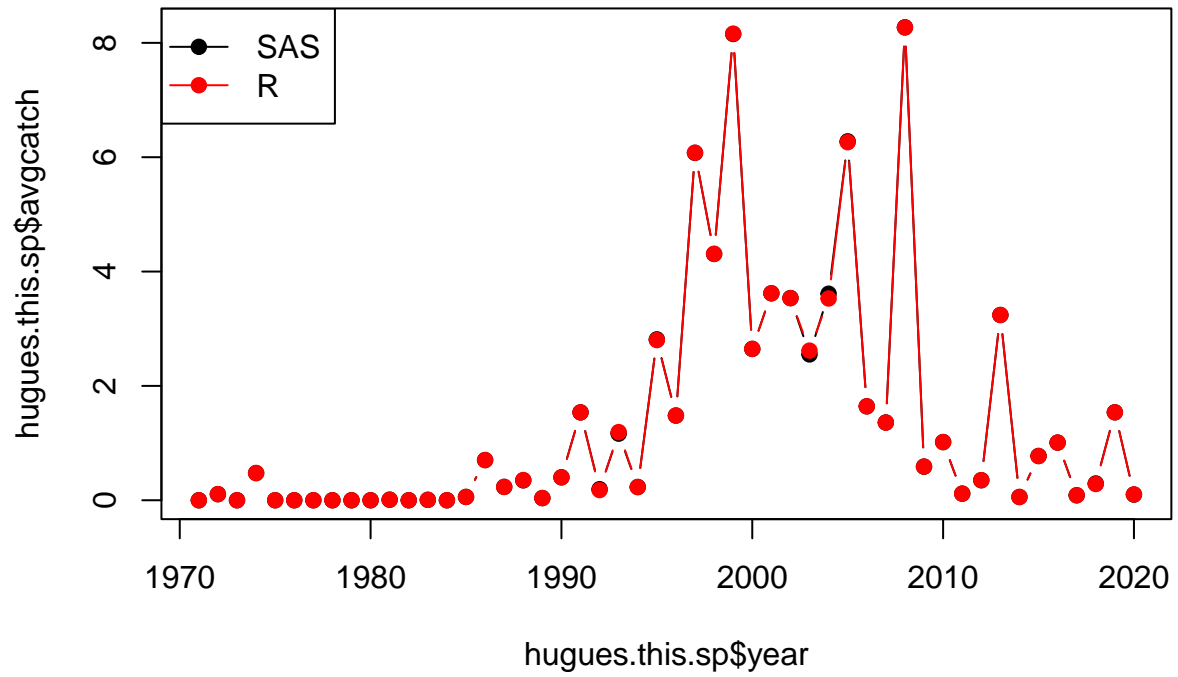
Longfin hake – species code 112



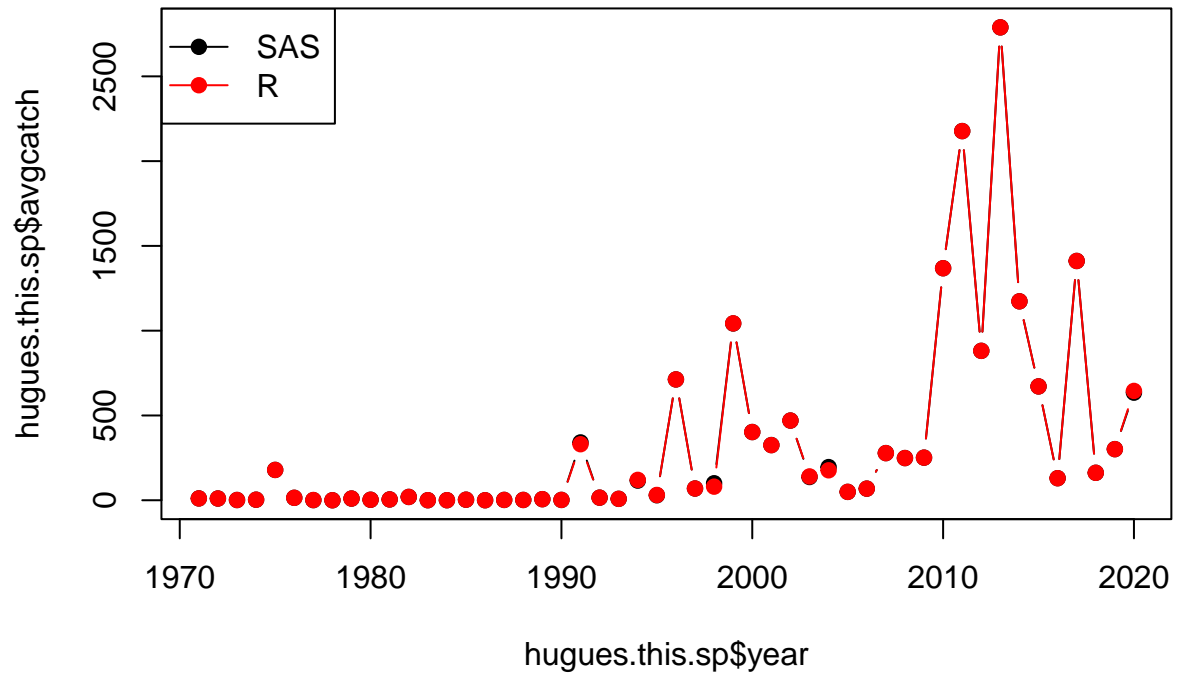
White hake – species code 12



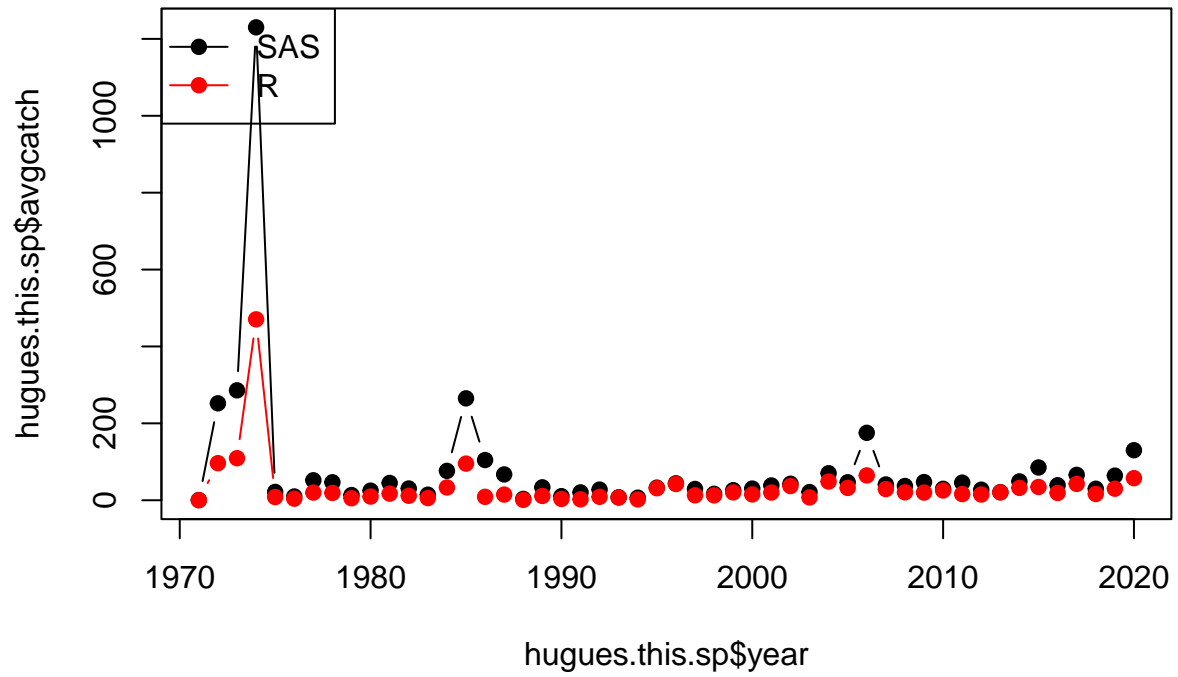
Three-spined stickleback – species code 361



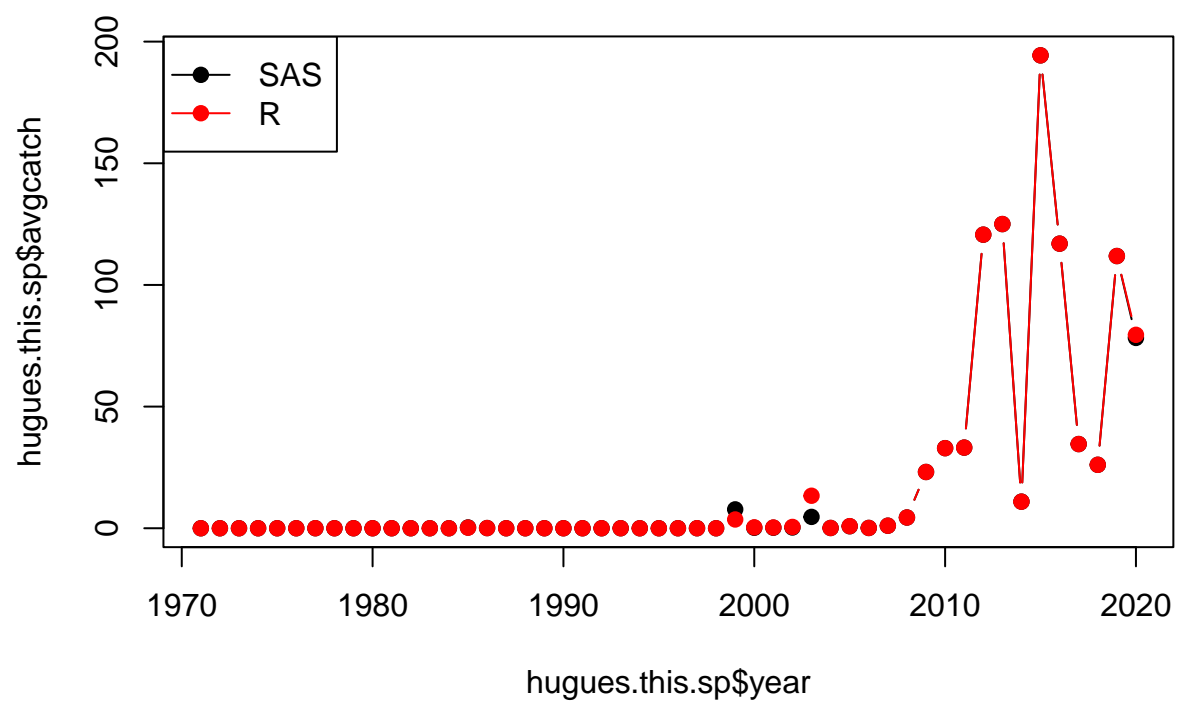
Capelin – species code 64



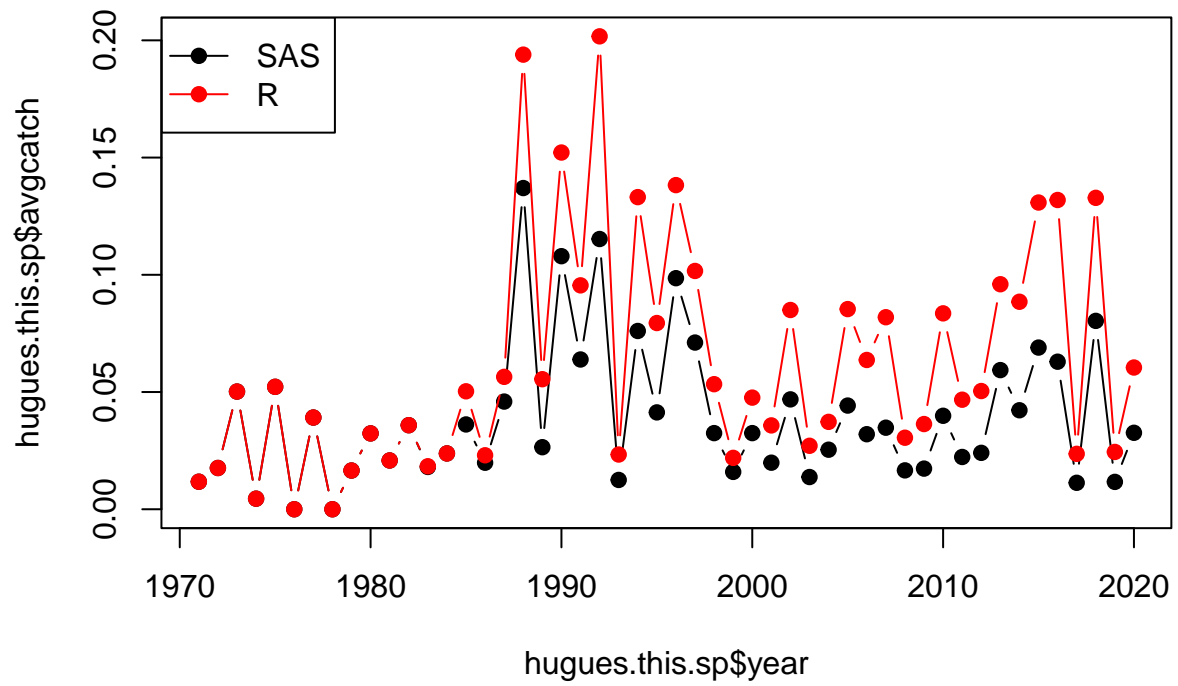
Rainbow smelt – species code 63



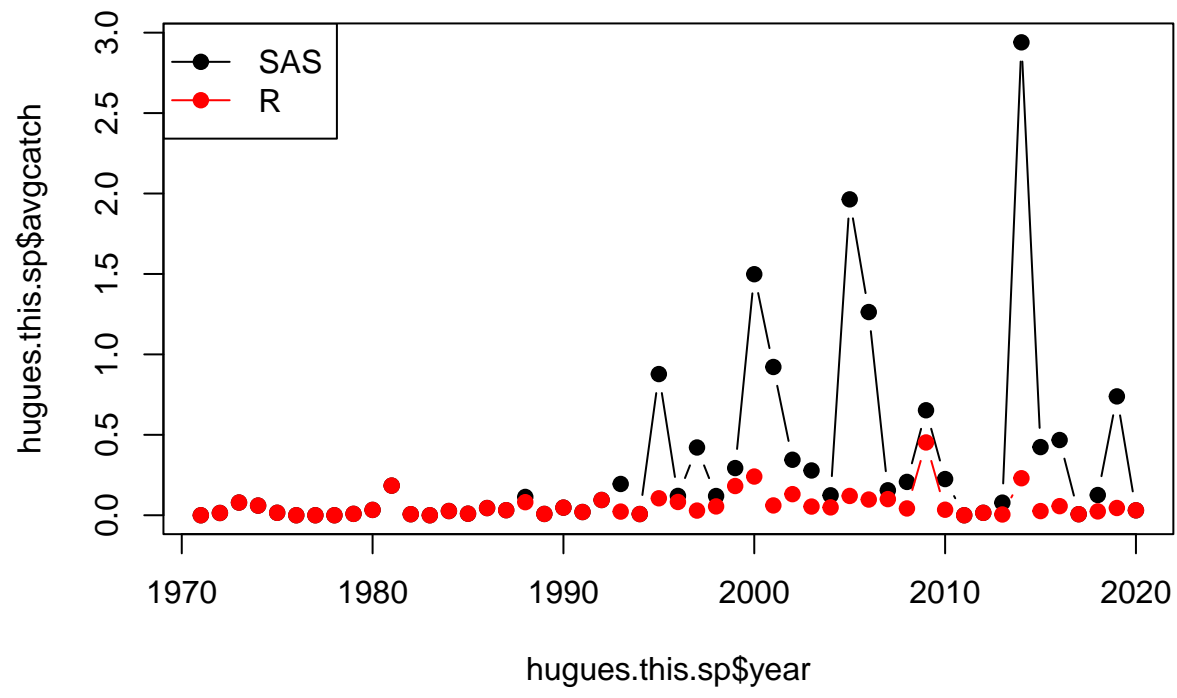
Northern sand lance – species code 610



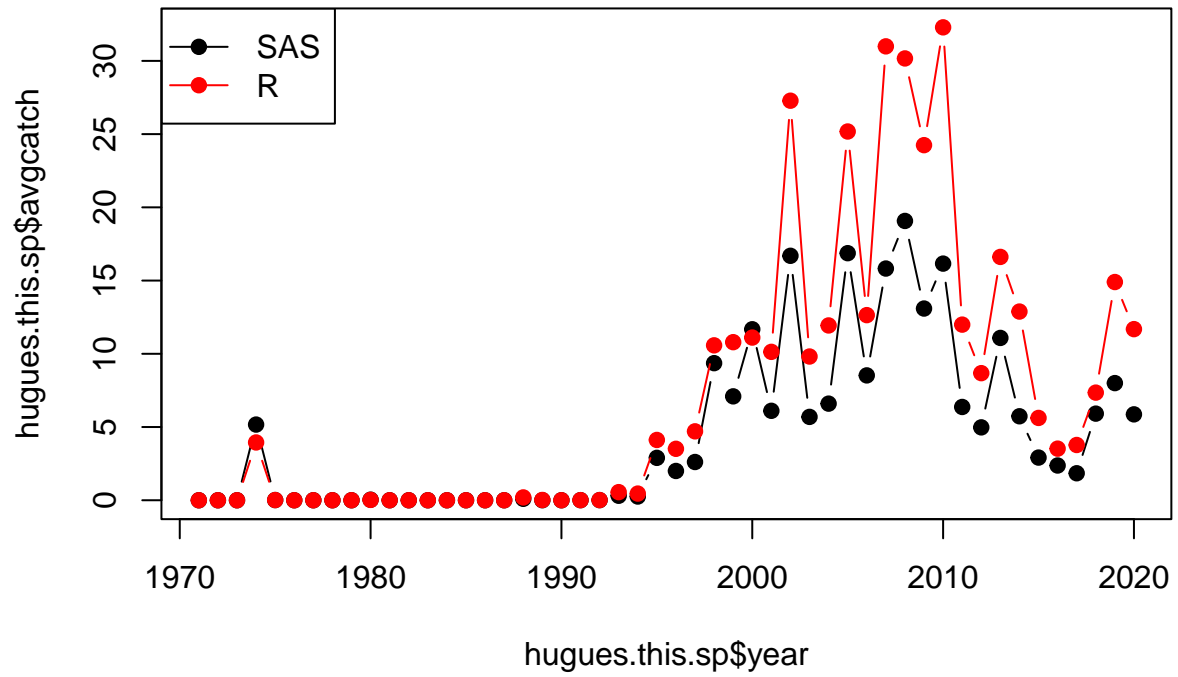
Atlantic wolffish – species code 50



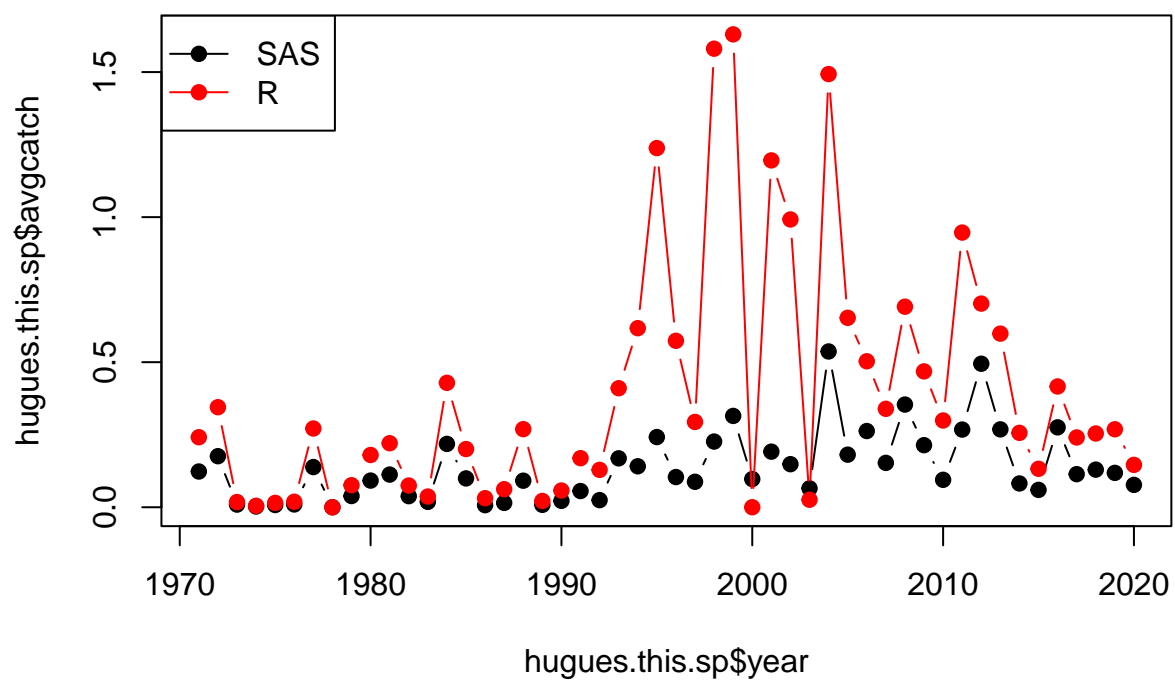
Cunner – species code 122



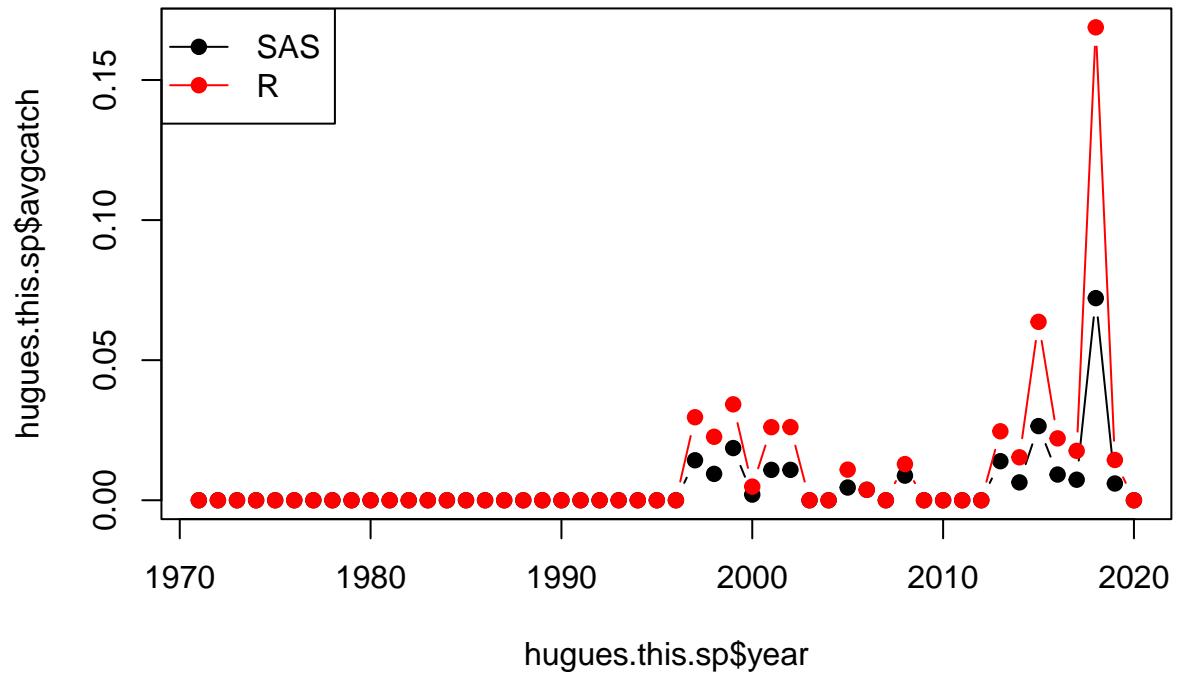
Daubed shanny – species code 623



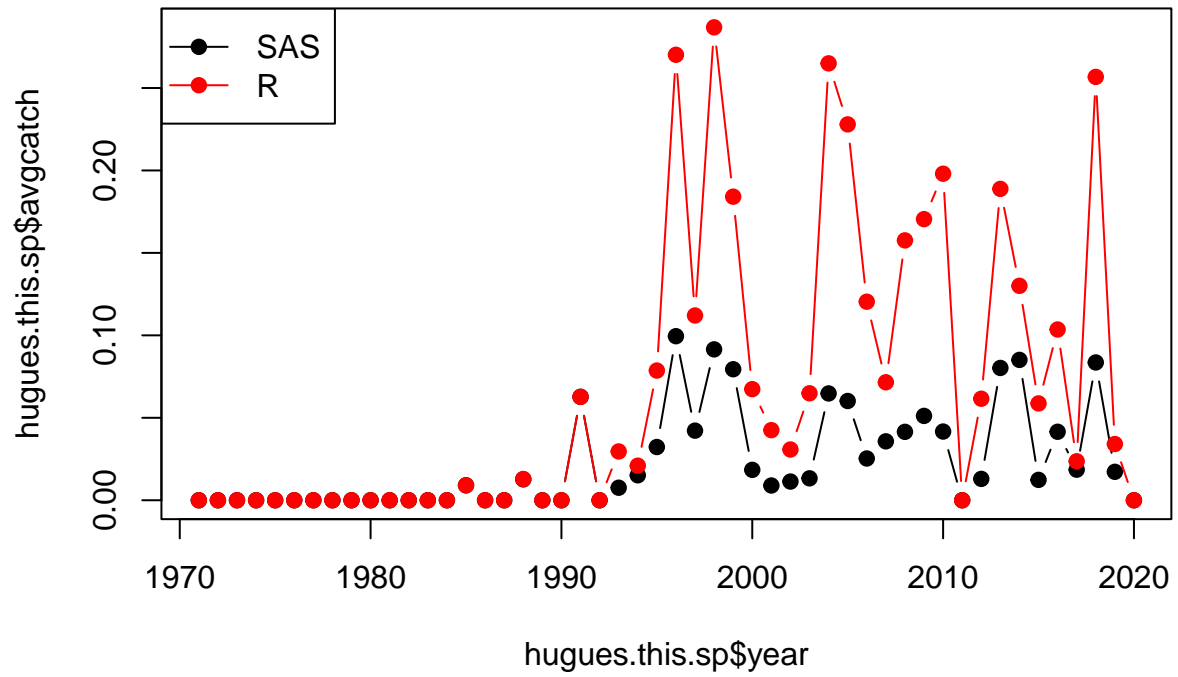
Snakeblenny – species code 622



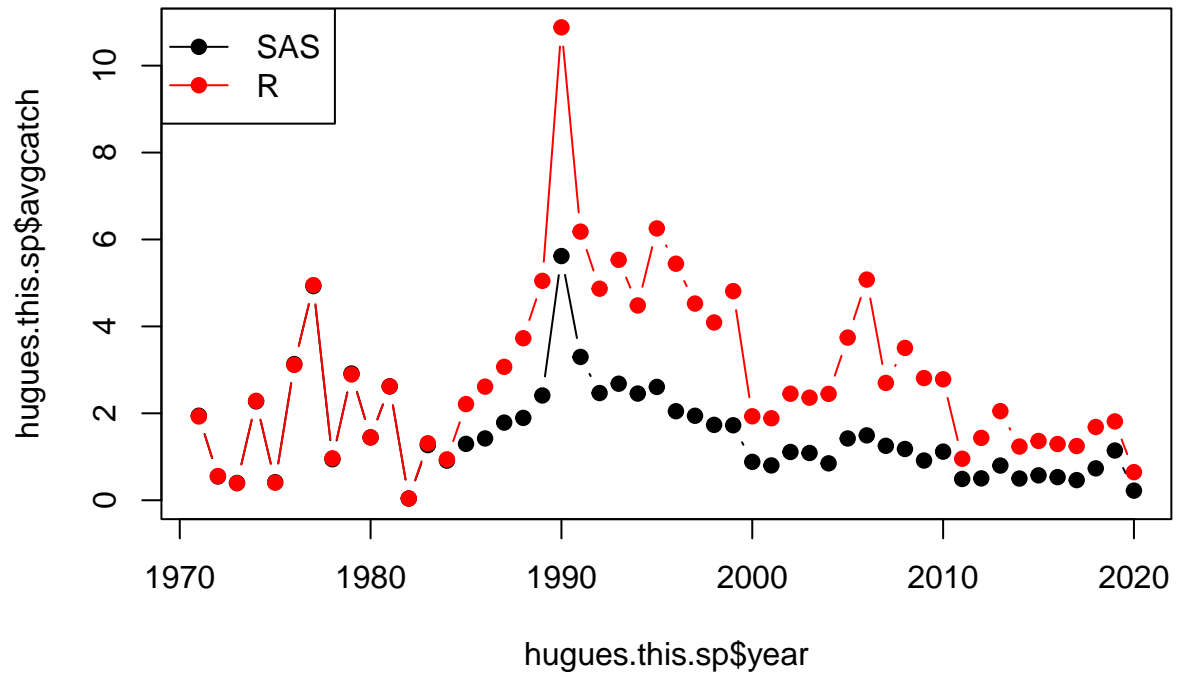
Arctic shanny – species code 624



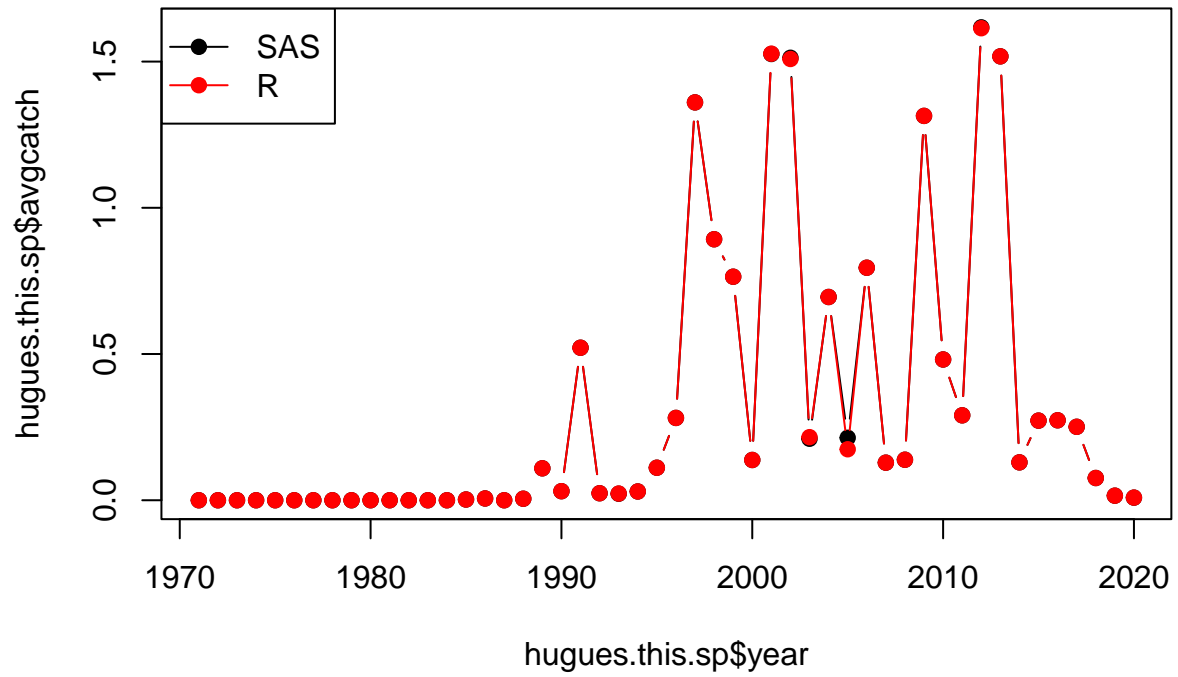
Fish doctor – species code 616



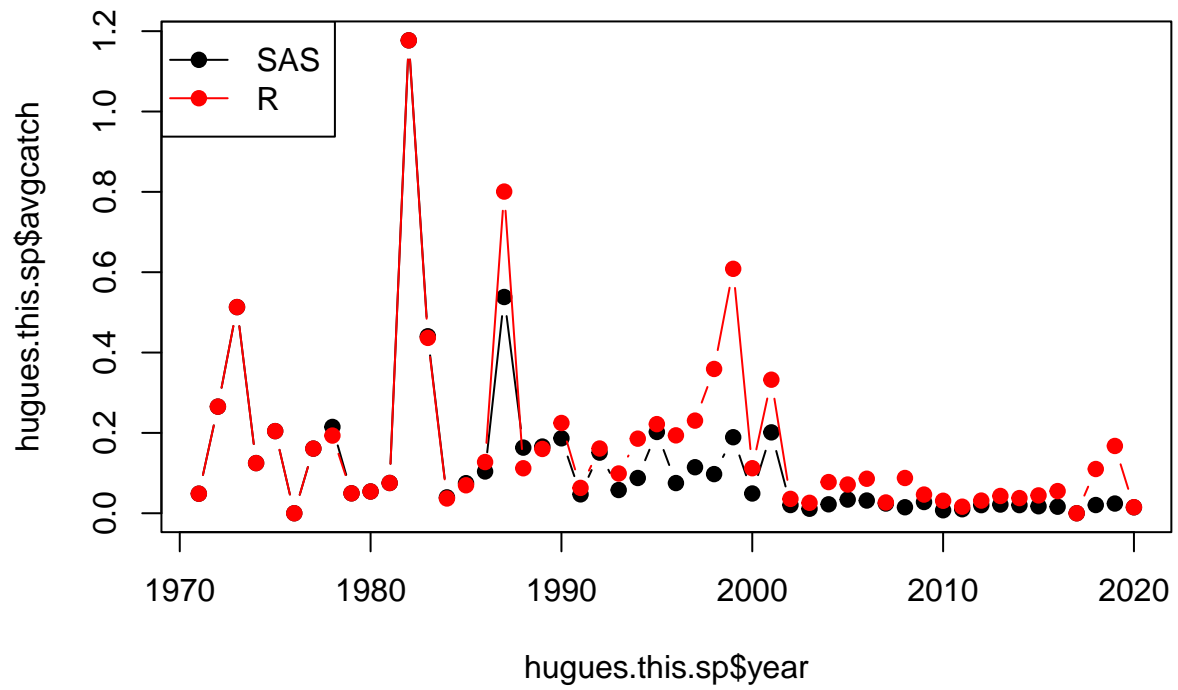
Eelpouts unidentified – species code 598



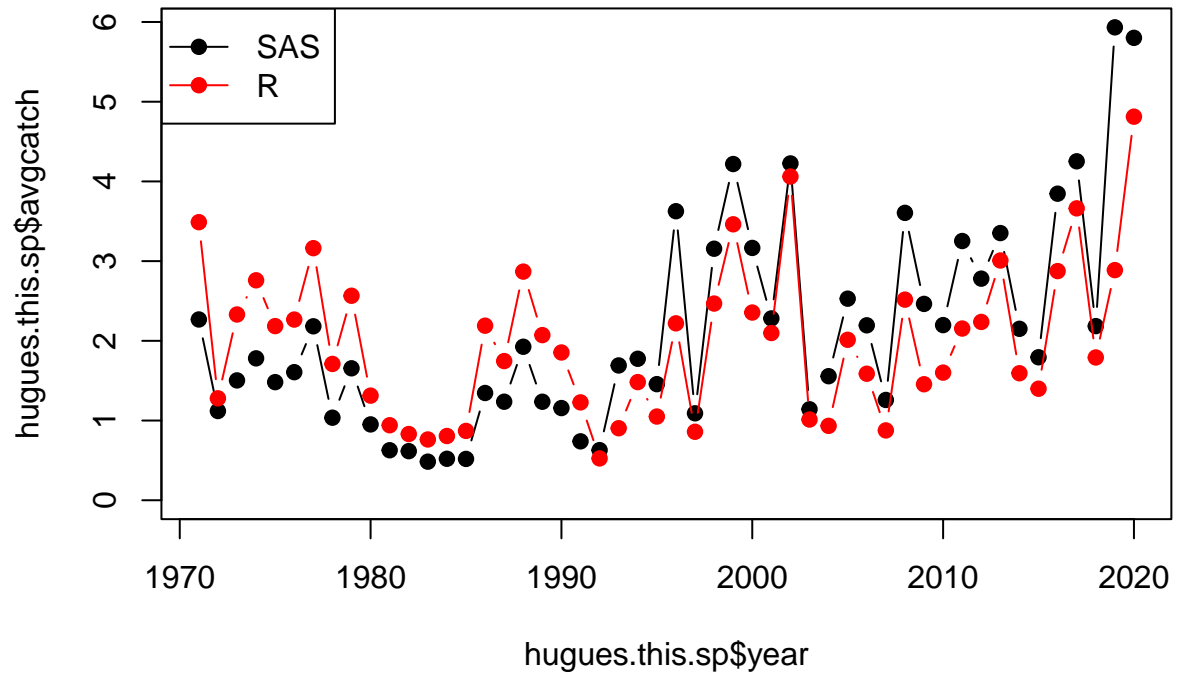
Atlantic soft pout – species code 646



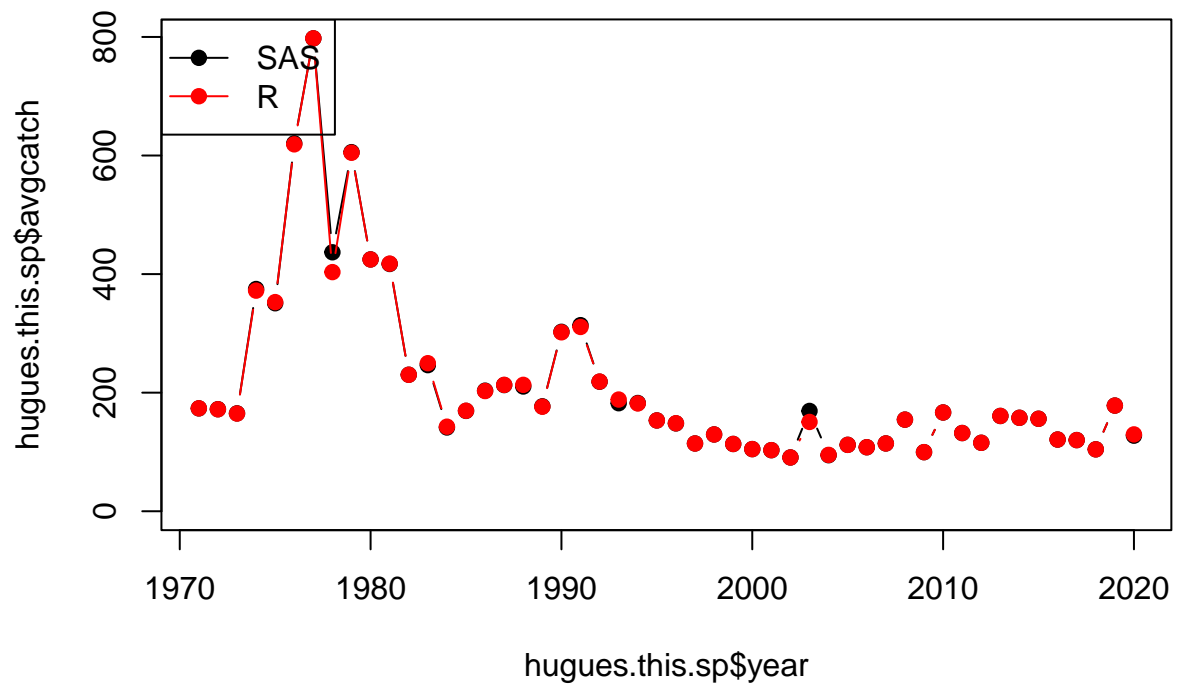
Ocean pout – species code 640



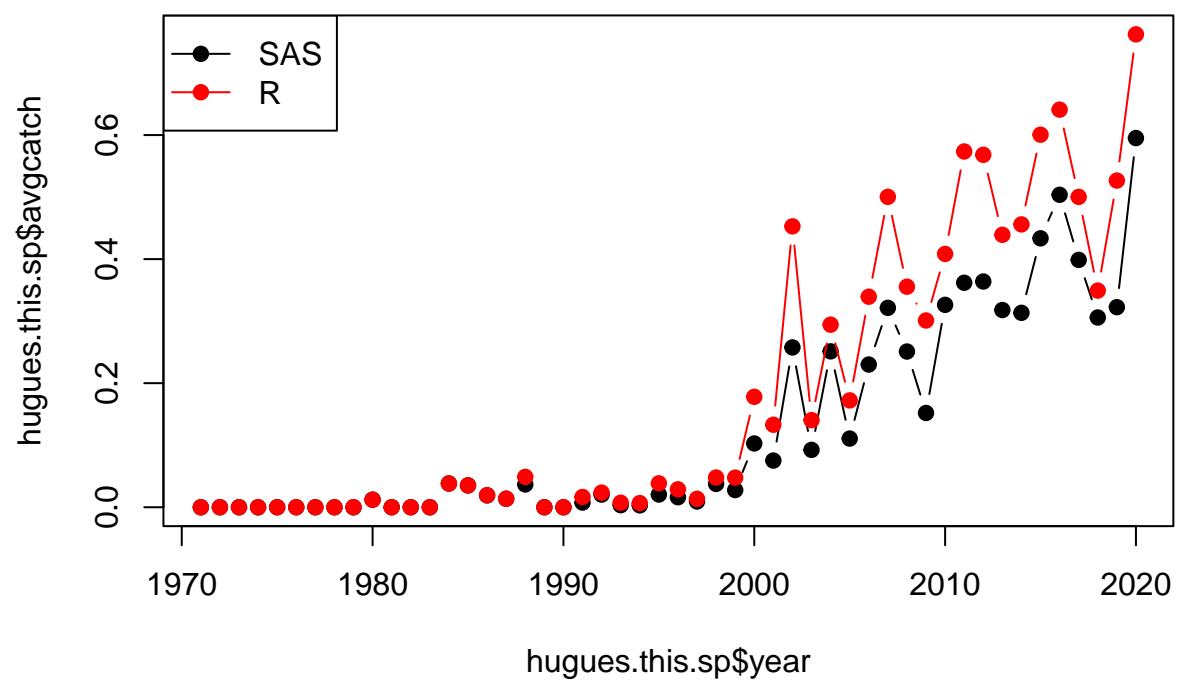
Witch flounder – species code 41



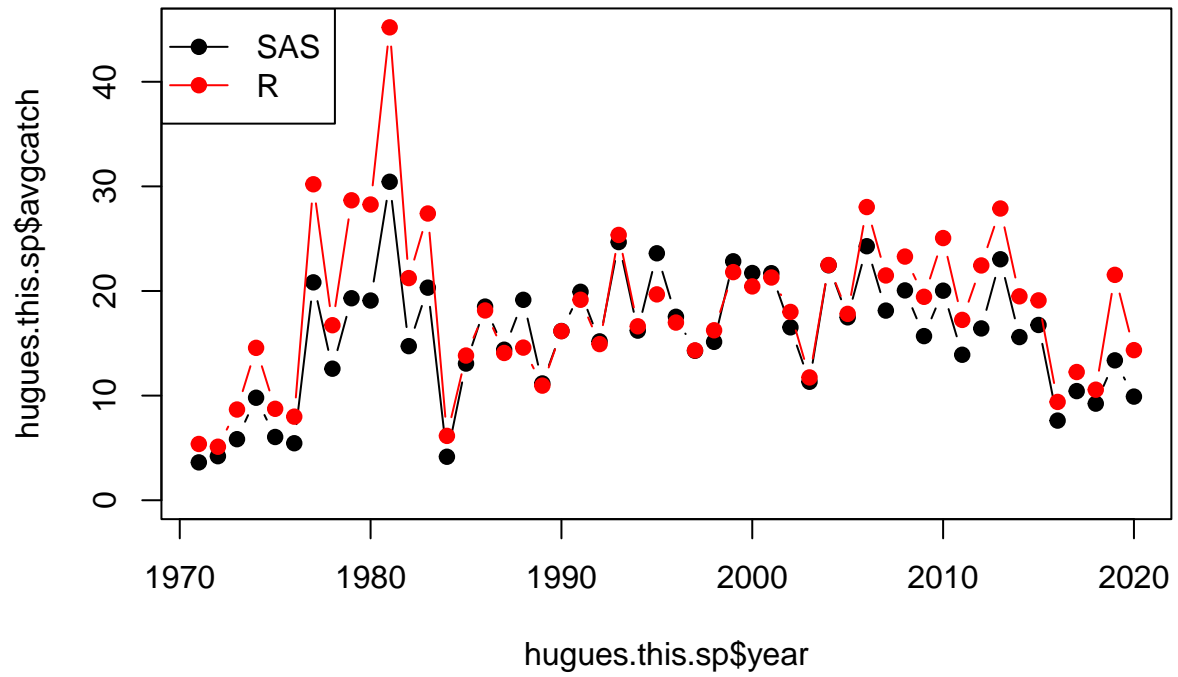
American plaice – species code 40



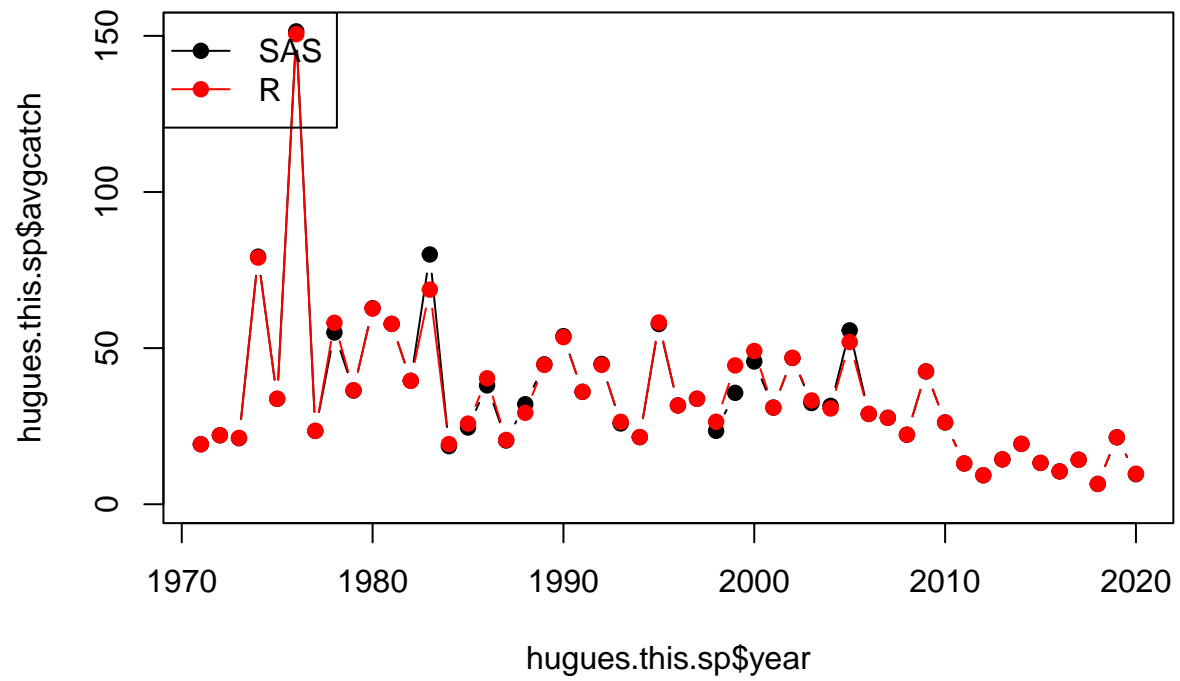
Atlantic halibut – species code 30



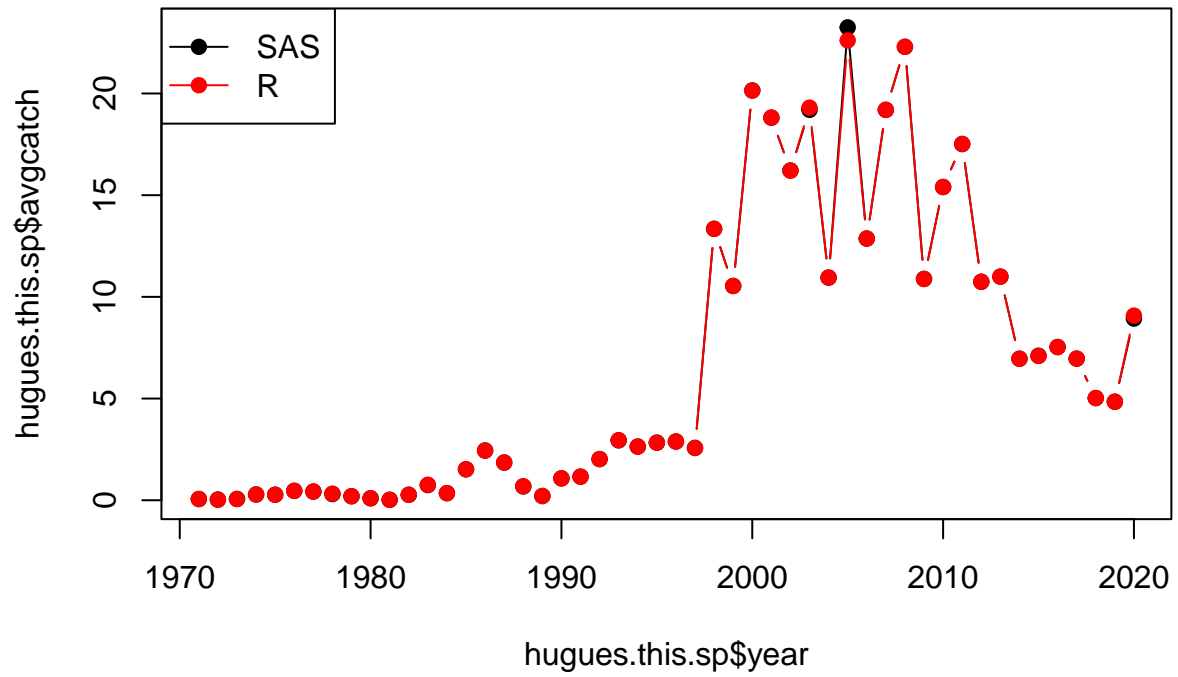
Yellowtail flounder – species code 42



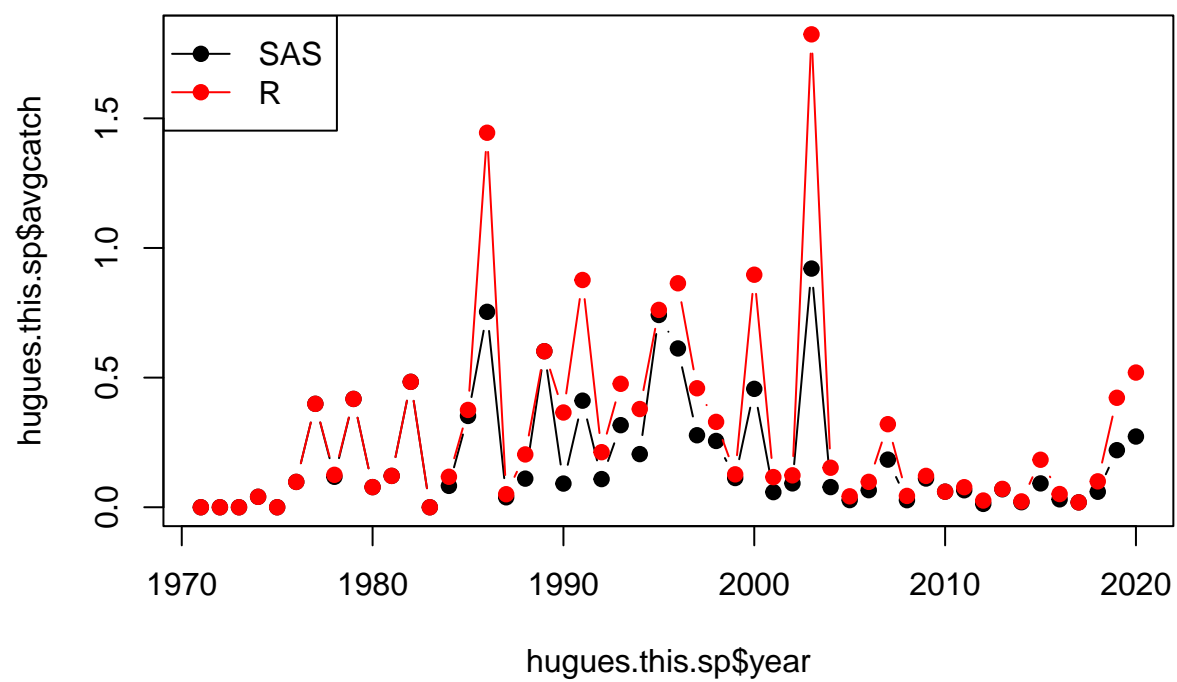
Winter flounder – species code 43



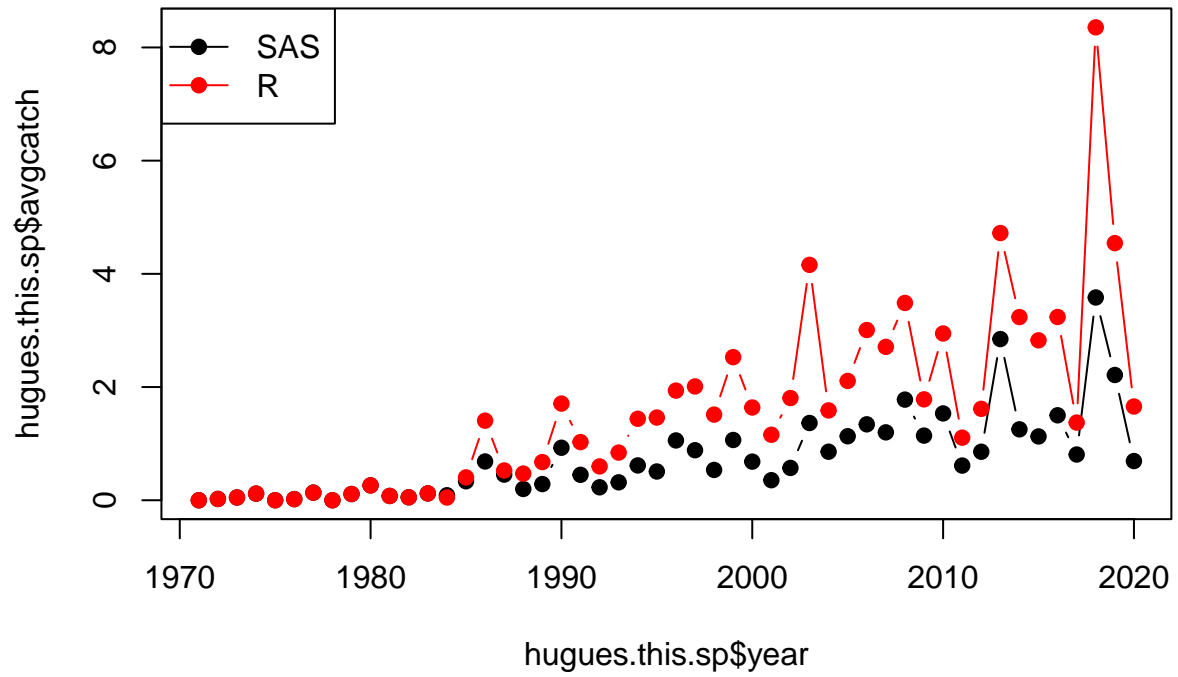
Greenland halibut – species code 31



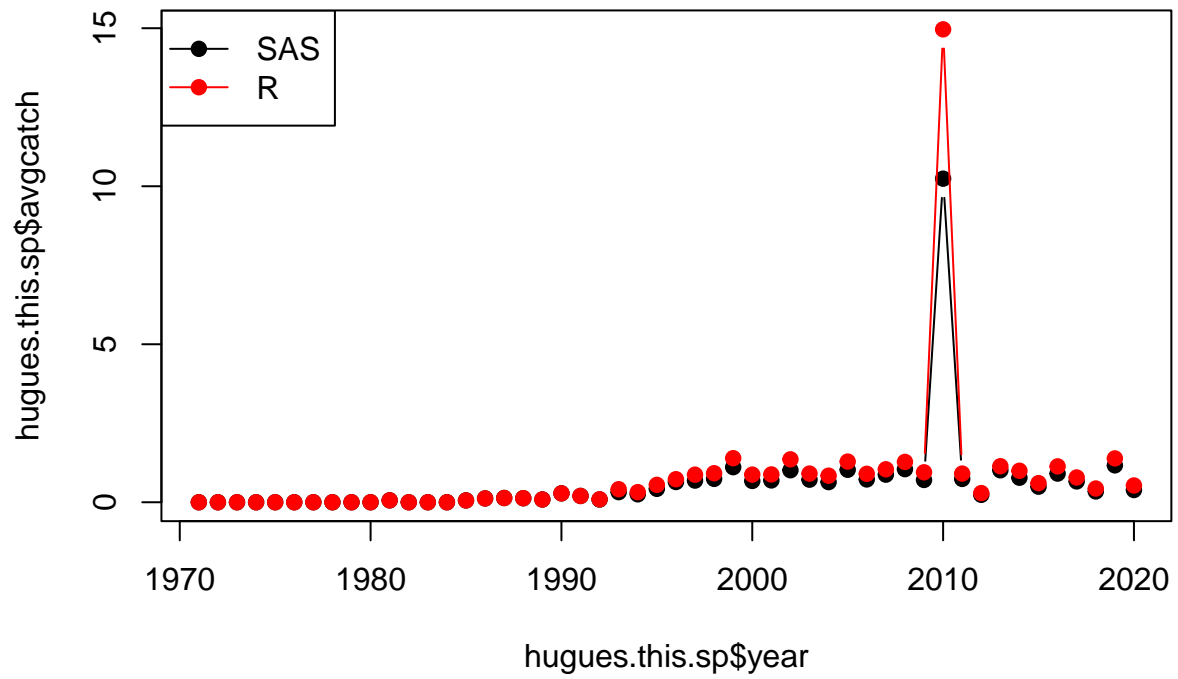
Windowpane flounder – species code 143



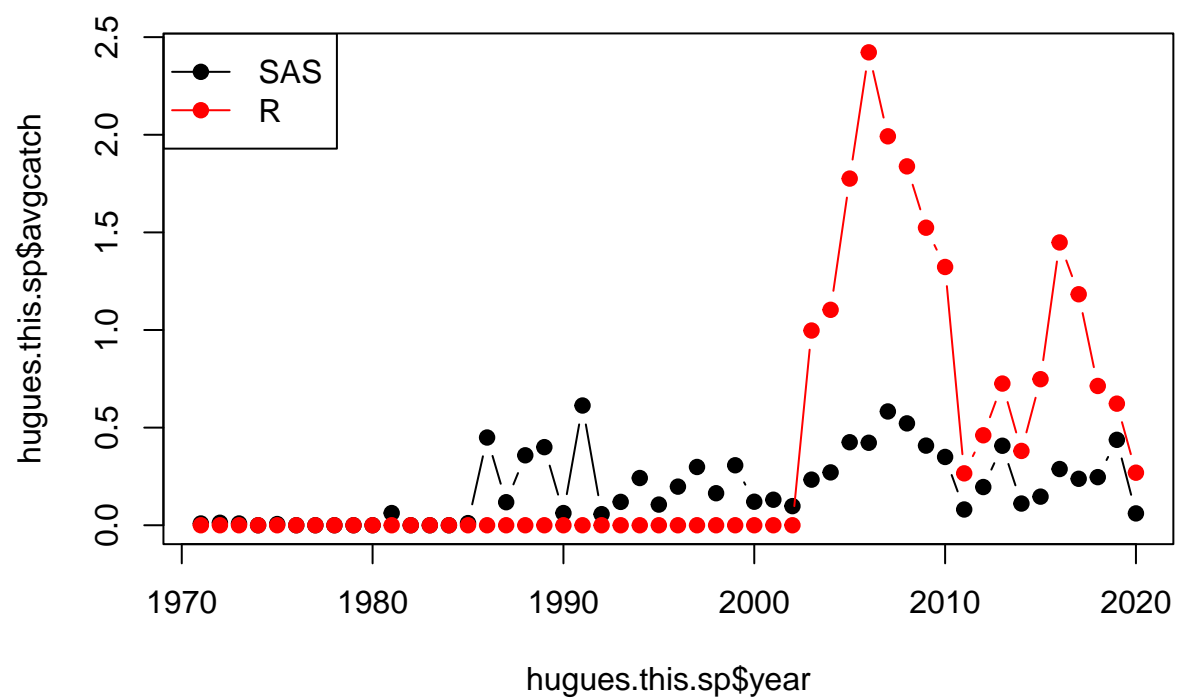
Alligatorfish – species code 340



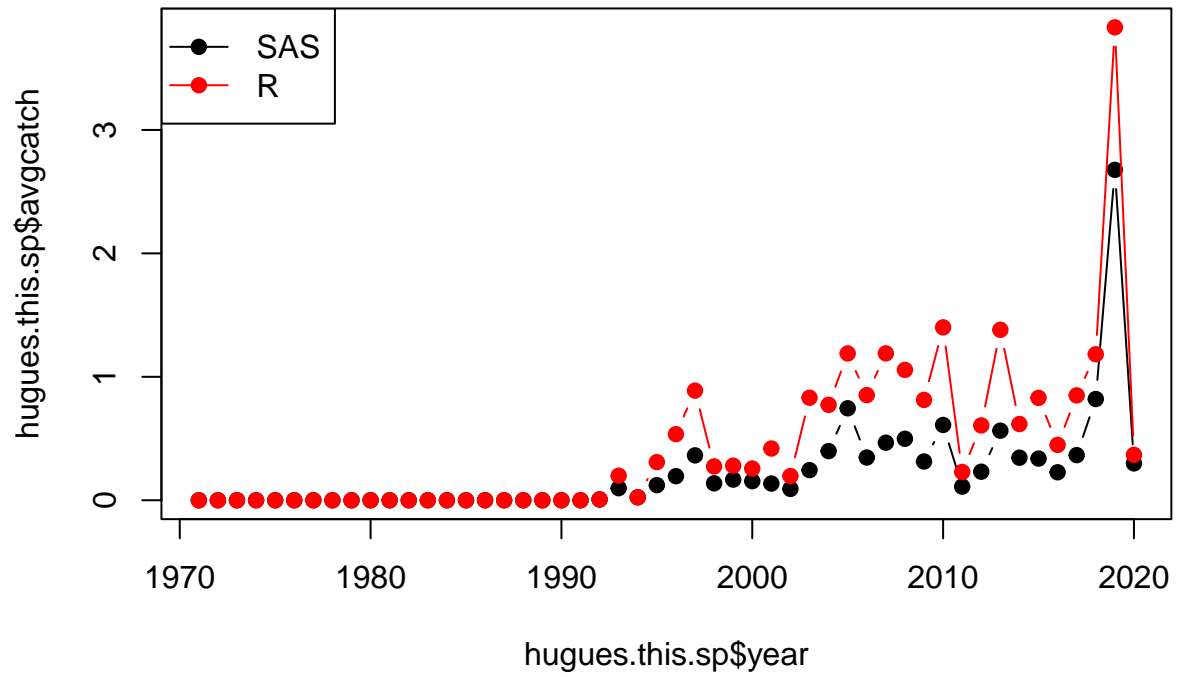
Atlantic poacher – species code 350



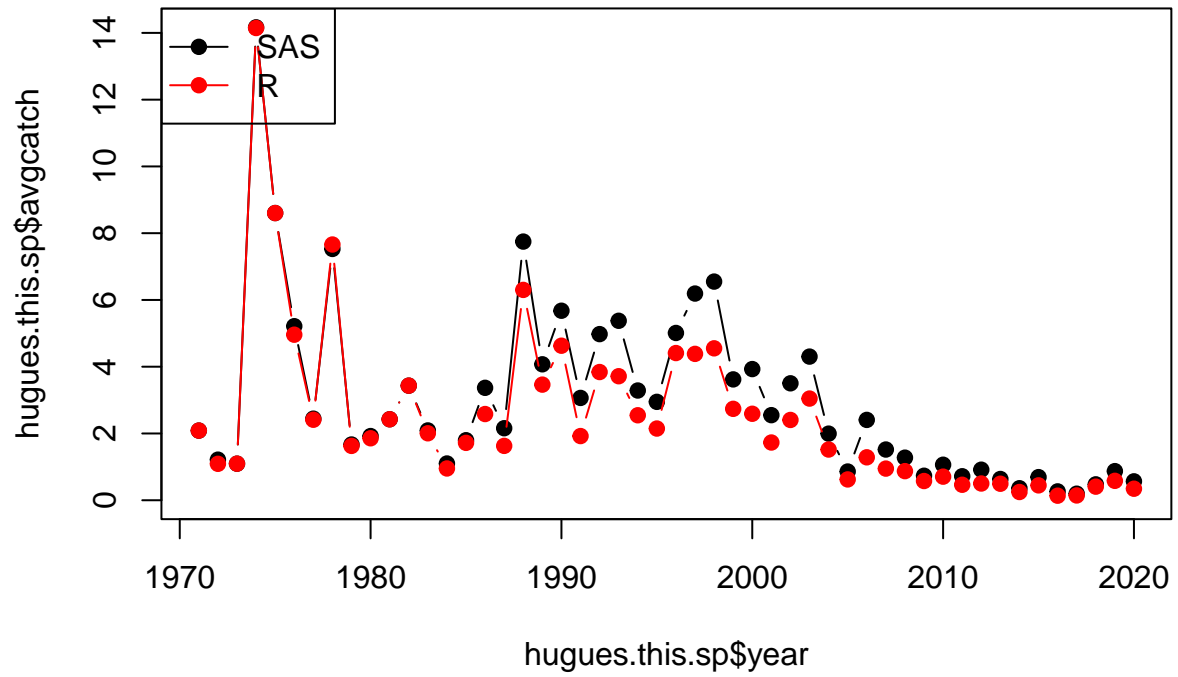
Atlantic hookear sculpin – species code 880



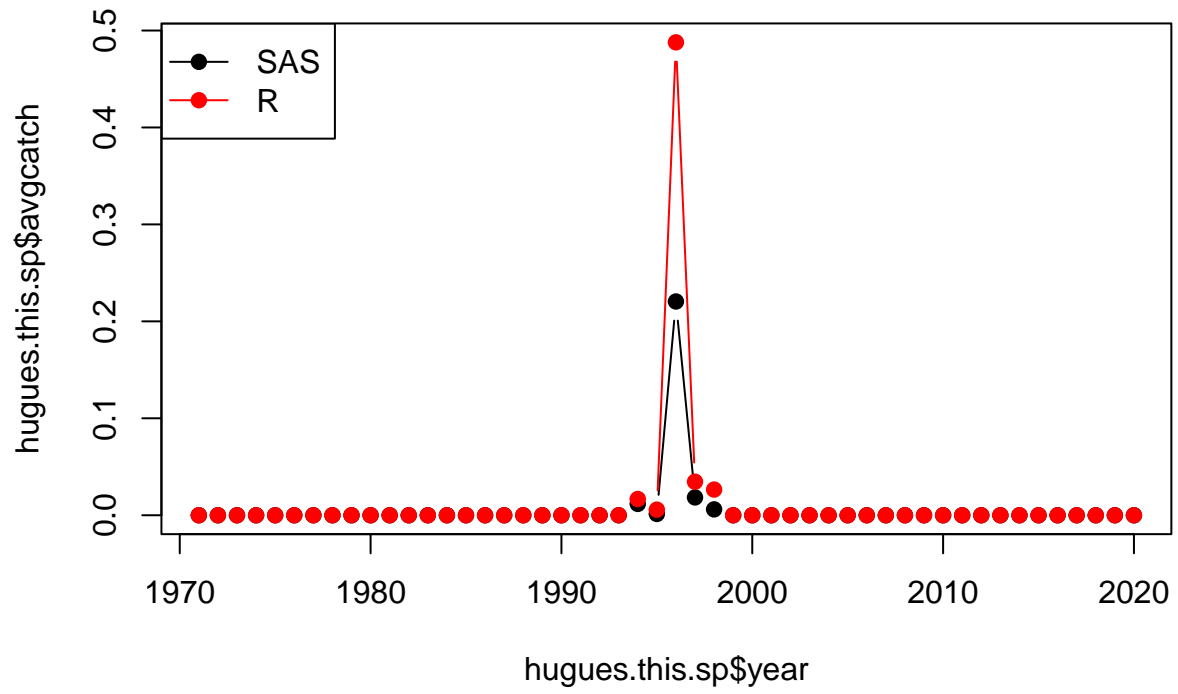
Spatulate sculpin – species code 314



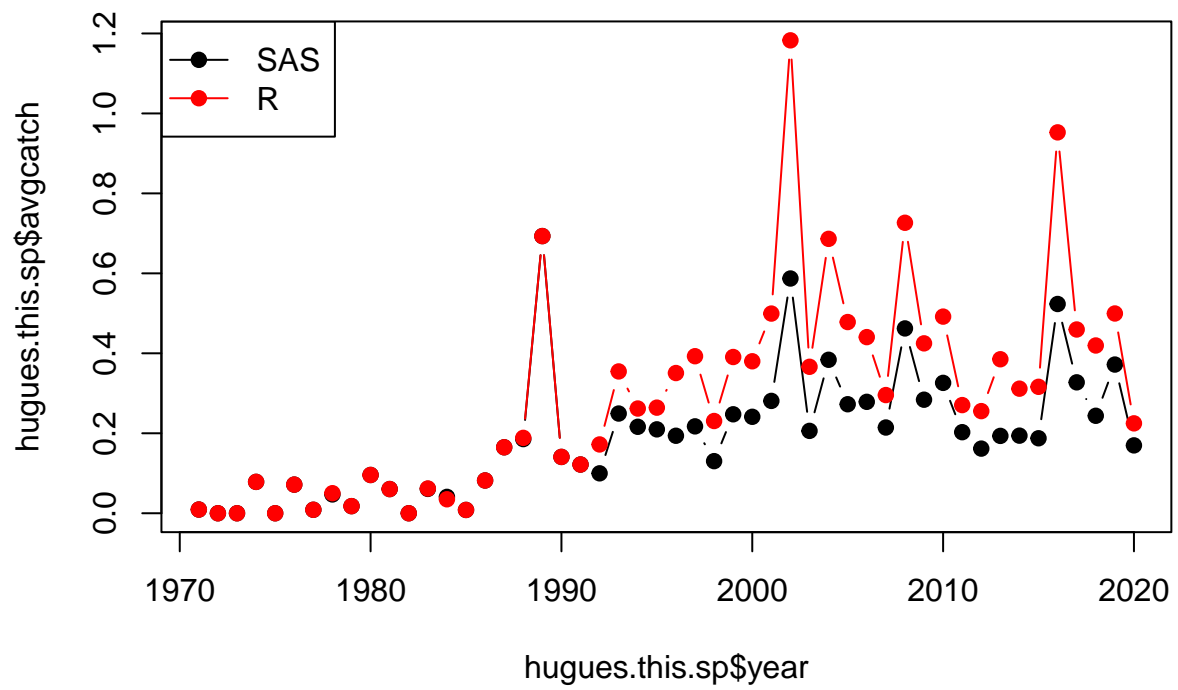
Longhorn sculpin – species code 300



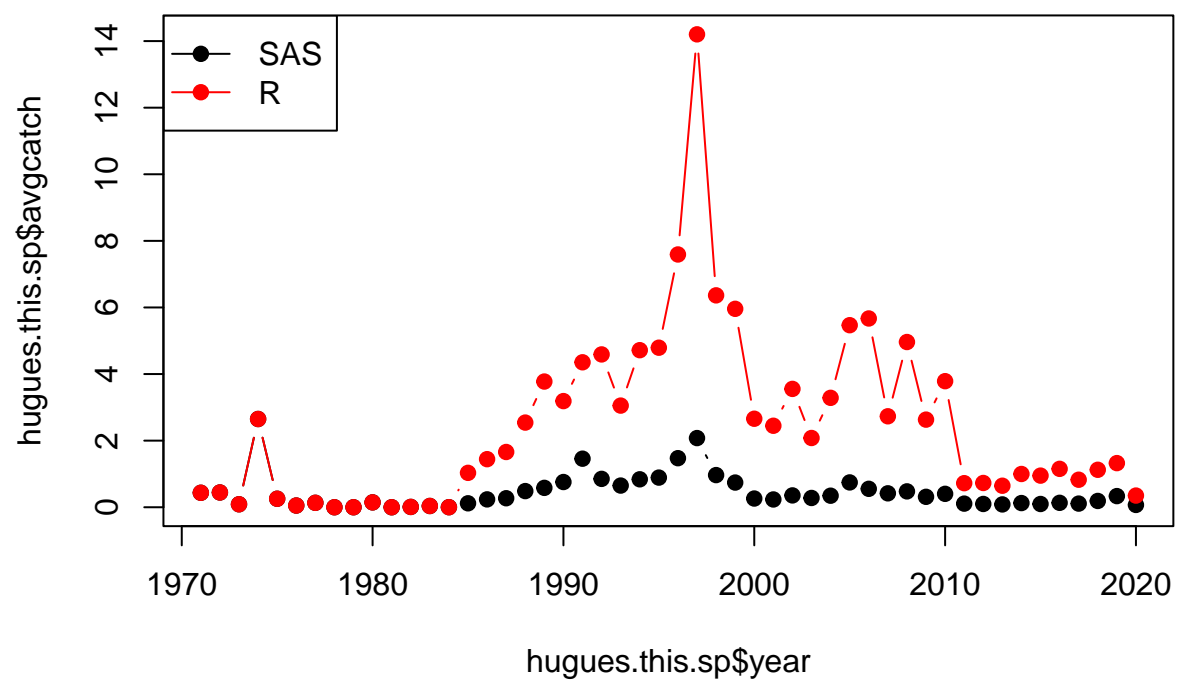
Arctic sculpin – species code 316



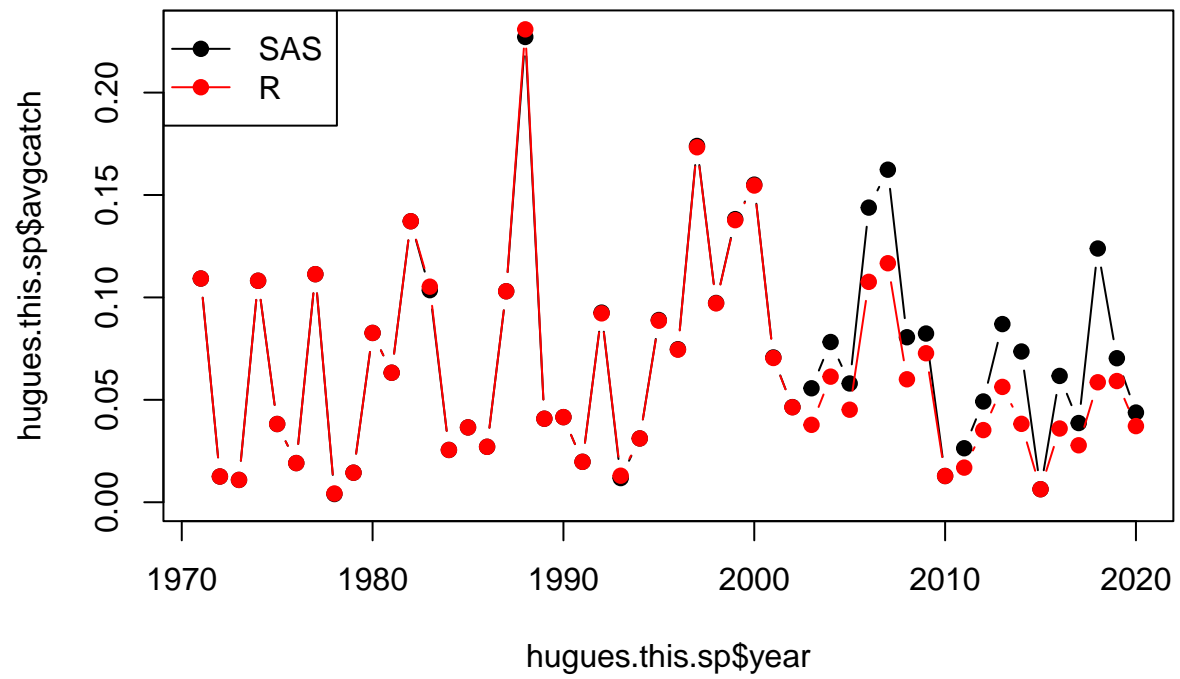
Shorthorn sculpin – species code 301



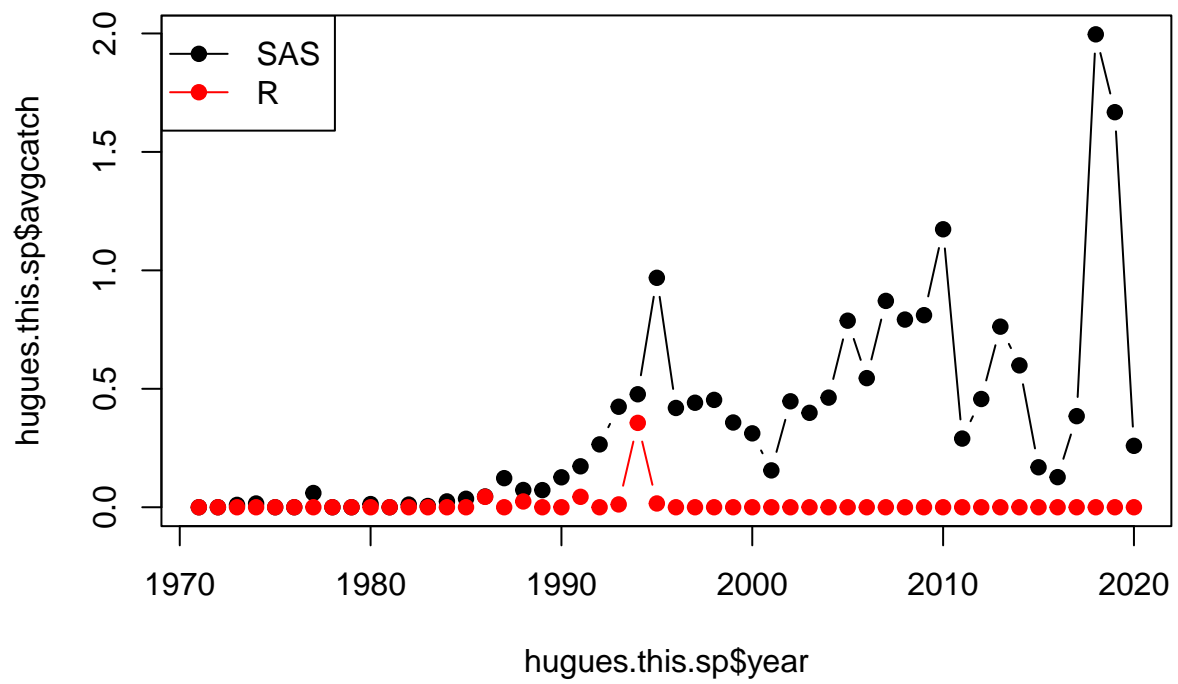
Moustache sculpin – species code 304



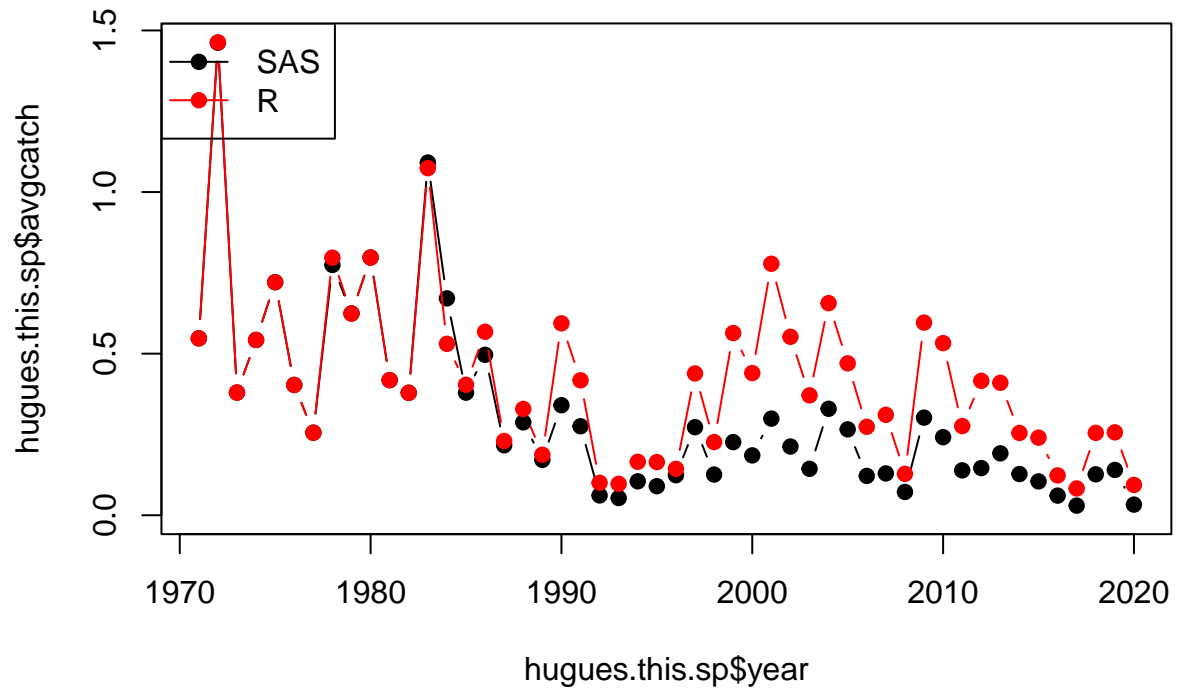
Lumpfish – species code 501



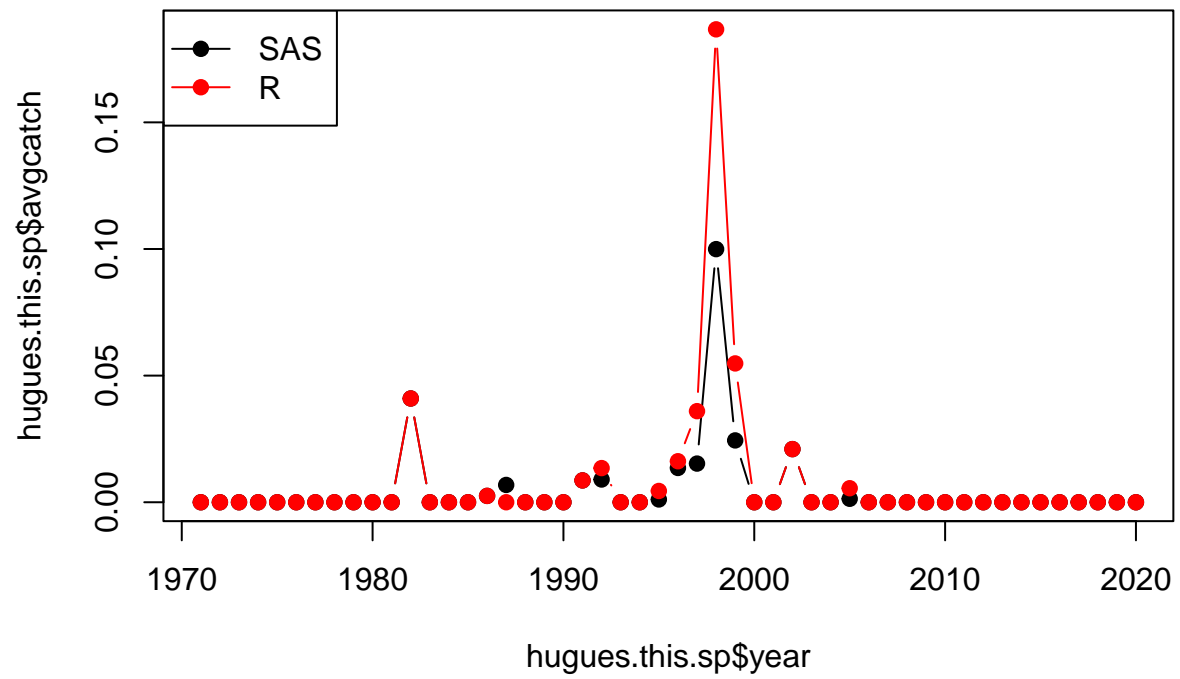
Atlantic seasnail – species code 503



Sea raven – species code 320



Polar sculpin – species code 307



Redfish unidentified – species code 23

