

Creation of Yellowtail Flounder ageing datasets for OpenData

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January 9, 2020

Yellowtail Flounder

Yellowtail Flounder otoliths are collected on the annual September RV survey and during scientific sampling of commercial fisheries.

The goal here is to summarise the ageing materials that we have, and provide a dataset of the otoliths that we have at the Gulf Fisheries Centre.

```
## RV data
y <- read.card(species=42, card.type="bio")

## Warning in convert.vector(x[, vars[i]], to = format[vars[i], "format"]): Some
## numerical values were set to NA.

## commercial data
## what years are available for commercial ages?
## com.files <- list.files(path="//DFNBE1CwpFSP002/Hd2/commercial/age", pattern="wfage")
y.c <- read.card(year=1982, sampling="commercial", species=42, card.type="age") ## this loads all pre-1982

## [1] "Reading: '//DFNBE1CwpFSP002/Hd2/commercial/age/yelage4882.dat'"

l.4t <- which(substring(y.c$nafo.division,1,2)=="4T") ## keep only otoliths collected in NAFO 4T

rv.df <- aggregate(fish.number~year+month, data=y[which(y$age.material==1),], length)
rv.df$source <- "RV"
names(rv.df)[3] <- "number.otoliths_nombre.otolithes"

comm.df <- aggregate(otolith.number~year+month, data=y.c[l.4t,], length)
names(comm.df)[3] <- "number.otoliths_nombre.otolithes"
comm.df$source <- "Commercial"

yellowtail.out.df <- rbind(rv.df, comm.df)
yellowtail.out.df$latin.name_nom.latin <- "Limanda ferruginea"
yellowtail.out.df$english.name_nom.anglais <- "Yellowtail Flounder"
yellowtail.out.df$french.name_nom.français <- "Limande à queue jaune"

vars <- c("source", "latin.name_nom.latin", "english.name_nom.anglais", "french.name_nom.français", "year", "month")
o1 <- order(yellowtail.out.df$source, yellowtail.out.df$year, yellowtail.out.df$month)

yellowtail.out.fn <- "NAFO-4T-Yellowtail-Flounder-ages.csv"
write.csv(yellowtail.out.df[o1,vars], file=yellowtail.out.fn, row.names = FALSE)

## and a so-called data dictionary to explain the different columns in the CSV file
```

```

vars.bilingual <- c("source", "latin.name_nom.latin", "english.name_nom.anglais", "french.name_nom.fran
data.dic <- data.frame(
  name_nom = vars.bilingual
)
data.dic$description_fr <- c("Source de otolithes, peut soit provenir du relevé par navire de recherche
data.dic$description_en <- c("Source of otoliths, can be either from the Research Vessel (RV) survey or
data.dic.fn <- "data-dictionary.csv"
write.csv(data.dic, file=data.dic.fn, row.names = FALSE)

```

The Web Service to be associated with this dataset will just be a polygon of NAFO division 4T.