Creation of Winter Flounder ageing datasets for OpenData

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Winter Flounder

Winter 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=43, 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=1990, sampling="commercial", species=43, card.type="age") ## this loads all pre-1
## [1] "Reading: '//DFNBE1CwpFSP002/Hd2/commercial/age/wfage1990.dat'"
for(yy in c(1991,1992,1993,2012,2014,2015,2016)){ ## loop over years
t.c <- read.card(year=yy, sampling="commercial", species=43, card.type="age")
y.c <- rbind(y.c,t.c)
}
## [1] "Reading: '//DFNBE1CwpFSP002/Hd2/commercial/age/wfage1991.dat'"
## [1] "Reading: '//DFNBE1CwpFSP002/Hd2/commercial/age/wfage1992.dat'"
## [1] "Reading: '//DFNBE1CwpFSP002/Hd2/commercial/age/wfage1993.dat'"
## [1] "Reading: '//DFNBE1CwpFSP002/Hd2/commercial/age/wfage2012.dat'"
## [1] "Reading: '//DFNBE1CwpFSP002/Hd2/commercial/age/wfage2014.dat'"
## [1] "Reading: '//DFNBE1CwpFSP002/Hd2/commercial/age/wfage2015.dat'"
## Warning in dmm2deg(x$latitude.start/100): 'minutes' argument must lie between 0
## and 60.
## Warning in dmm2deg(x$longitude.start/100): 'minutes' argument must lie between 0
## and 60.
## [1] "Reading: '//DFNBE1CwpFSP002/Hd2/commercial/age/wfage2016.dat'"
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"</pre>
comm.df <- aggregate(otolith.number~year+month, data=y.c, length)</pre>
names(comm.df)[3] <- "number.otoliths_nombre.otolithes"</pre>
```

```
comm.df$source <- "Commercial"</pre>
winter.out.df <- rbind(rv.df, comm.df)</pre>
winter.out.df$latin.name_nom.latin <- "Pseudopleuronectes americanus"</pre>
winter.out.df$english.name_nom.anglais <- "Winter Flounder"</pre>
winter.out.df$french.name_nom.français <- "Plie rouge"</pre>
vars <- c("source", "latin.name_nom.latin", "english.name_nom.anglais", "french.name_nom.français", "ye
o1 <- order(winter.out.df$source, winter.out.df$year, winter.out.df$month)
winter.out.fn <- "NAFO-4T-Winter-Flounder-ages.csv"</pre>
write.csv(winter.out.df[01,vars], file=winter.out.fn, row.names = FALSE)
## and a so-called data dictionary to explain the different columns in the CSV file
data.dic <- data.frame(</pre>
 name_nom = vars
data.dic$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"</pre>
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.