

## TESA workshop - Best practices in ageing

Chairs: Daniel Ricard (GFC) and Peter Comeau (BIO)

2023-01-31 to 2023-02-02

## Day 1 - Tuesday January 31 2023

- ▶ Basics of ageing by Peter Comeau
- ▶ Obtaining and cataloguing otoliths, preparation, storage and inventory
- ▶ Plenary talk by Tracey Loewen (DFO Central and Arctic)
- ▶ Plenary talk by Stephen Wischniowski (DFO Pacific)
- ▶ Validation, verification and calibration
- ▶ Age determination in a production ageing environment
  - ▶ Kim Emond and Hélène Dionne (IML) - Age determination of Atlantic Herring in the Québec region
  - ▶ Sylvie Robichaud and Karen Robertson (GFC) - Age determination of Atlantic Herring in the Gulf region
  - ▶ Tania Davignon-Burton (BIO) - Reconciling dreams, expectations and reality in a production ageing environment
- ▶ Towards establishing a sclerochronology community within DFO

## Community building ideas

- ▶ Community of Age Reading Experts (CARE) as a test case
- ▶ Identify the great value of otolith exchanges between labs
- ▶ Develop a shared understanding of what physical and digital samples we have, and what they were/are/will be used for

## Day 2 - Wednesday February 01 2023

- ▶ Practical sessions / tour of the GFC ageing lab
- ▶ SmartDots: a tool for annotations of otolith images, supporting otolith exchanges between labs, and quality-control of ages (Julie Davies)
- ▶ Taking good images of otoliths (Karen Robertson and others)
- ▶ Archiving of digital images and integration with SmartDots (David Fishman and Daniel Ricard)
- ▶ SmartDots reporting features - example for American Plaice reference collection (Daniel Ricard and Julie Davies)
- ▶ Growth increment measurements from annotated otolith images (Daniel Ricard)

## Day 3 - Thursday February 02 2023

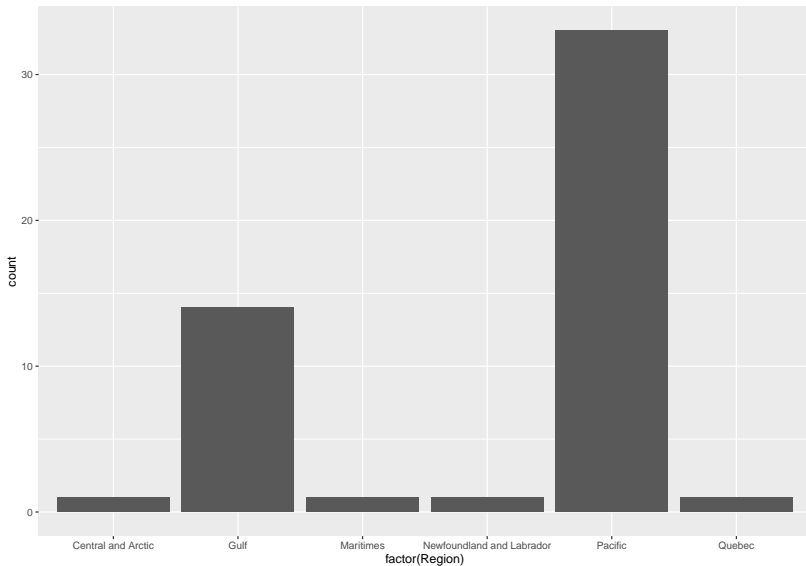
- ▶ Plenary talk by Lisa Ailloud (NOAA NMFS SEFSC)
- ▶ Plenary talk by Andrea Perreault (NAFC)
- ▶ Growth models
- ▶ Age-length keys and catch-at-age matrices
- ▶ CatchR: Methods developed to compute age-length keys for the northern Gulf of St. Lawrence Atlantic Cod, and prospects for other age-based assessments
- ▶ Kim Emond and H  l  ne Dionne (IML) - Catch-at-age of commercial herring landings and numbers-at-age from acoustics surveys

# Recommendations

# Proceedings draft

- ▶ draft DFO Technical Report

## Homework results - by region





## Homework results - by ageing structure

