

Cod Population Structure Symposium:

**Building a Shared Vision of Atlantic Cod Population Structure
and New England Fisheries**



Fisheries and Oceans
Canada
Pêches et Océans
Canada



University of
New Hampshire



New England
Fishery Management
Council



The Atlantic Cod Stock Structure Working Group



Ames



Andrushchenko



Cadrin



Cournane



Dean



DeCelles



Kerr



Kovach



McBride



Overgaard Therkildsen



Traver



Puncher



Smedbol



Wang



Zemeckis

“The Steering Committee recommends that an inclusive but focused Working Group meeting be held involving a small group of Canadian and US scientists to consider the results of the Workshop.”

<http://www.gmri.org/resources/resource-archive/cod-stock-structure-workshop-report,2012>

Timeline from WG formation (Feb 2018)

Conference Calls

- Mar 30, 2018
- May 14, 2018
- Aug 16, 2018
- Mar 4, 2019
- Apr 23, 2019
- May 13, 2019
- May 31, 2019

Outreach meetings (UNH)

- Jun 19, 2018
- Jun 6, 2019

WG meetings (UNH, GMRI)

- Jun 20-21, 2018
- Nov 14-15, 2018

Approach of the ACSSWG

The WG divided the task as follows:

Early life history, spawning–settlement

Genetic markers

Life history

Natural markers

Applied markers

Fishermen's ecological knowledge

Everything was on the table:

Literature review

Reanalysis of old data

Analysis of new data

Synthesis of disciplines

Multiple reviews and public accessibility

Constituent review

(e.g., today's meeting)

Scientific 'peer review' (SSC)

Publish as a NOAA Tech. Memo.

Where does the ACSSWG fit in with eventual assessment & management?

2018

- ACSSWG formed

2019

- ACSSWG report written

2020

- ACSSWG report, SSC review

2020

- Cod assessment research steering committee formed

2021

- Assessment-related research, alternative models, etc., started

2022

- Stock assessment working group formed

2023

- Cod benchmark assessment

Today's objectives:

- ▶ Present the preliminary conclusions from 6 disciplines
- ▶ Capture insight and feedback from you, the audience
- ▶ Summarize the findings, identifying areas of common ground and remaining uncertainty
- ▶ Outline the next steps of the WG

'Briefs' and Discussion: What Our Research is Showing Us

- ▶ *Spawning and Early Life History*
Micah Dean, Massachusetts Division of Marine Fisheries
- ▶ *Genetic Markers*
Adrienne Kovach, University of New Hampshire
- ▶ *Life History*
Richard McBride, Northeast Fisheries Science Center