Chapter x: Assessment of the xxx Stock in the xxx region

18:36 August 12, 2019

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August 12, 2019

Executive summary

This chapter covers the …

Summary of changes in assessment inputs

Relative to last year's SAFE report, the following substantive changes have been made in the xxxxxxxxxxx stock assessment.

Changes in the data

1.
2.

Changes in the assessment methods

There were no changes to the assessment model. An example application of a spatial temporal model for creating an alternative index

Summary of xxx results

Response to SSC and Plan Team comments

General comments

In the November 2017 Plan Team minutes: "The Team recommends that

	As estimated or *specified* *last* year for:		As estimated or *recommended* *this* year for:	
Quantity	2018	2019	2019	2020
M (natural mortality rate, ages 3+)	0.3	0.3	0.3	0.3
Tier	1a	1a	1a	1a
Projected total (age 3+) biomass (t)	10,965,000 t	10,965,000 t	10,965,000 t	10,965,000 t
Projected female spawning biomass (t)	3,678,000 t	3,678,000 t	3,678,000 t	3,678,000 t
B_0	5,394,000 t	5,394,000 t	5,394,000 t	5,394,000 t
B_{msy}	2,042,000 t	2,042,000 t	2,042,000 t	2,042,000 t
F_{OFL}	0.621	0.621	0.621	0.621
$maxF_{ABC}$	0.466	0.466	0.466	0.466
F_{ABC}	0.336	0.336	0.336	0.336
OFL	4,797,000 t	4,797,000 t	4,797,000 t	4,797,000 t
$maxABC$	3,603,000 t	3,603,000 t	3,603,000 t	3,603,000 t
ABC	2,592,000 t	2,592,000 t	2,592,000 t	2,592,000 t
Status	2016	2017	2017	2018
Overfishing	No	n/a	No	n/a
Overfished	n/a	No	n/a	No
Approaching overfished	n/a	No	n/a	No

Comments specific to this assessment

SSC and Plan Team 2017 minutes:

Introduction

General

Walleye pollock (*Gadus chalcogrammus*; hereafter referred to as pollock) are …

Review of Life History

Stock structure

Fishery

Description of the directed fishery

Catch patterns

Management measures

Economic conditions as of 2017

Pollock fillets

Pollock roe

Fish oil

Data

The following lists the data used in this assessment:

Source	Type	Years
Fishery	Catch biomass	1964–2018
Fishery	Catch age composition	1964–2017
Fishery	Japanese trawl CPUE	1965–1976
EBS bottom trawl	Area-swept biomass and age-specific proportions	1982–2018
Acoustic trawl survey	Biomass index and age-specific proportions	1994, 1996, 1997, 1999, 2000, 2002, 2004, 2006–2010, 2012, 2014, 2016, 2018
Acoustic vessels of opportunity (AVO)	Biomass index	2006–2018

Fishery

Catch

Surveys

Bottom trawl survey (BTS)

Acoustic trawl (AT) surveys

Other time series used in the assessment

Japanese fishery CPUE index

Biomass index from Acoustic-Vessels-of-Opportunity (AVO)

Analytic approach

General model structure

Description of alternative models

Input sample size

Parameters estimated outside of the assessment model

Natural mortality and maturity at age

Length and Weight at Age

Parameters estimated within the assessment model

Results

Model evaluation

Time series results

Recruitment

Retrospective analysis

Harvest recommendations

Status summary

Amendment 56 Reference Points

Specification of OFL and Maximum Permissible ABC

Standard Harvest Scenarios and Projection Methodology