

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

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Contents

Executive summary

Summary of xxx results	
Response to SSC and Plan Team comments	

Introduction

General	
Review of Life History	
Stock structure	

Fishery

Description of the directed fishery	
Management measures	
Economic conditions as of 2017	

Data

Fishery	
Surveys	
Other time series used in the assessment	

Analytic approach

General model structure	
Description of alternative models	
Parameters estimated outside of the assessment model	
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	
Projections and status determination	
ABC Recommendation	

Ecosystem considerations

Ecosystem effects on the EBS pollock stock	
EBS pollock fishery effects on the ecosystem.	

Data gaps and research priorities

Acknowledgements

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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

Quantity	As estimated or <i>specified</i> <i>last year for:</i>		As estimated or <i>recommended</i> <i>this year for:</i>	
	2018	2019	2019	2020
<i>M</i> (natural mortality rate)	0.3	0.3	0.3	0.3
Tier	3a	3a	3a	3a
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
$B_{100\%}$	5,394,000 t	5,394,000 t	5,394,000 t	5,394,000 t
$B_{40\%}$	2,158,000 t	2,158,000 t	2,158,000 t	2,158,000 t
$B_{35\%}$	1,888,000 t	1,888,000 t	1,888,000 t	1,888,000 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