

## Joint MoP-SC Workshop on the Development of Harvest Strategies (WS2024-HSS)

Hybrid, 29 June 2024

## WS2024-HSS-INFO-01

## Harvest strategies and timeline for the implementation of pre-assessments, assessments, management objectives and implementation

The SIOFA Secretariat on behalf of the Workshop Conveners

Document type	Working paper □				
	Information paper 🗸				
Distribution	Public 🗸				
	Restricted <sup>1</sup> $\square$				
	Closed session document $^2$ $\square$				
Abstract					
At its 9 <sup>th</sup> Annual Meeting, the SIOFA Scientific Committee considered the harvest strategies and timeline for the implementation of pre-assessments, assessments, management objectives and implementation that were originally drafted by SC8 and further updated the timeline by adding the implementation status of each task. The updated table was ultimately included in the SC9 report as Annex K.  This paper reproduces Annex K of the SC9 report, for further consideration by WS2024-HSS.					

<sup>&</sup>lt;sup>1</sup> Restricted documents may contain confidential information. Please do not distribute restricted documents in any form without the explicit permission of the SIOFA Secretariat and the data owner(s)/provider(s).

<sup>&</sup>lt;sup>2</sup> Documents available only to members invited to closed sessions.

WS2024-HSS-INFO-01 - Harvest strategies and timeline for the implementation of pre-assessments, assessments, management objectives and implementation

## Harvest strategies and timeline for the implementation of pre-assessments, assessments, management objectives and implementation

(Additional columns have been added to the timeline, originally developed by the Harvest Strategy Pre-Assessment Workshop, to record the implementation status of each step for orange roughy and Patagonian toothfish.)

Steps	SC		МоР			
Steps		ORY	ТОР		ORY	ТОР
Step 1 Define management objectives	2. Propose reference points based on			1. Specify management objectives:		
	management objectives: limit reference points (B <sub>lim</sub> and/or F <sub>lim</sub> ), and target reference points (B <sub>TARGET</sub> and/or F <sub>TARGET</sub> )	X	×			
				3. Select reference points		
	4. Characterise the sources and values of uncertainties associated with the estimation of reference points (target and limit)	⊠	×			
				5. Specify acceptable levels of risk to be used in evaluating possible consequences of management actions, and time horizons for fishing mortality adjustments to avoid stock collapse, breaching limit reference point or achieve the target reference.		
Step 2 Determine appropriate fisheries	Identify data collection and monitoring activities required to reliably evaluate resource status with respect to reference points					
monitoring regime				2. Implement data collection and monitoring programme to deliver consistent, high-quality data into the future.		
	3. Determine how frequently to monitor (survey and/or assessments)					
Ston 2	1. Propose candidate Harvest Control					
Step 3 Develop candidate Harvest Control Rules	Rules (HCR): actions for controlling fishing mortality (F) or adjusting catch with respect to pre-defined, stock-specific, precautionary reference points for both biomass (B) and fishing mortality (F) were possible.		⊠			
			]	2. Select HCR		

WS2024-HSS-INFO-01 - Harvest strategies and timeline for the implementation of pre-assessments, assessments, management objectives and implementation

Steps	SC			МоР			
Steps		ORY	ТОР		ORY	ТОР	
	3. Conditions for Re-Evaluating Reference Points and HCR						
Step 4 Test HCR with MSE	Test HCR and compare expected performance of harvest strategies			Adopt appropriate harvest strategy			
Step 5				Implement management changes			
Implement Harvest Strategy	Monitor (survey and/or assessment) and assess stock(s)			based on HCR			
	3. Determine stock status relative to reference points						
				4. Determine if Harvest Strategy delivers the objectives			
Step 6 Improve assessment and harvest strategy	Review reference points and HCR if needed						
	2. Define research requirements to improve the quantification and evaluation of uncertainty (i.e., risk analysis), as well as methodological developments required to reduce uncertainty.						