



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

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Potential Management Objectives and Performance Indicators for the assessed management units of orange roughy

The SIOFA Secretariat on behalf of the Workshop Conveners

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Abstract	<p>At its 9th Annual Meeting, the SIOFA Scientific Committee considered the potential management objectives and performance indicators for orange roughy that were originally drafted by the Joint MoP-SC Workshop on Harvest Strategy Management Objectives (WS2023-HSMO) and further refined the performance indicators, which were ultimately included in the SC9 report as Annex H. This paper reproduces Annex H of the SC9 report, for further consideration by WS2024-HSS.</p>

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² Documents available only to members invited to closed sessions.

Potential Management Objectives and Performance Indicators for the assessed management units of orange roughy

Table summarising potential Management Objectives by Objective Type, and Performance Indicators for the assessed management units of orange roughy. Please note that these Management Objectives and Performance Indicators may be further revised during the harvest strategy development process.

No.	Objective Type	Potential Management Objective	Performance Indicators
1	Stock status	Maintain the stock at, or fluctuating around (i.e., as likely as not) 40% B_0 ³	The stock is above 40% B_0 with a 50% probability
2	Risk/Safety	Ensure that it is very likely that the stock is above the limit reference point (LRP)	The stock is above 20% B_0 with a 90% probability
3	Economic, Yield	Maintain catch and effort at a given level consistent with Objectives 1 and 2	
4	Economic, Catch rate	Maintain catch rates at a given rate that is representative of a period of fishery stability ⁴	Catch rates averaged over three years are about as likely as not to be around the level of that in the chosen representative period
5	Economic, Stability	Minimise the variability of the catch/effort limits from year to year that should be within a specific range	Define a reasonable level (%) of change that the model will allow between years in the harvest-control-rule-generated catch/effort limits ⁵
6	Social goals	<ul style="list-style-type: none"> • Maintain/create employment opportunities and contribute to food security • Ensure safe and fair employment practices on vessels operating in this fishery 	
7	Ecosystem goals	Maintain a healthy ecosystem	<ul style="list-style-type: none"> • Avoid significant adverse impacts on Vulnerable Marine Ecosystems • Minimise the impact on species of special interest, and Endangered, Threatened, or Protected species • Minimise the impact on any deepwater shark species listed in Annex 1 of CMM 12(2023) • Minimise the impact on seabirds (CMM 13(2022))

³ Note that future work on MSE will evaluate alternative choices of the TRP and probability, for example 60% probability of being above 40% B_0

⁴ Currently defined as 2015-2020 by SC7, but to be discussed and further defined as a part of the harvest strategy development process

⁵ To be further developed as part of the harvest strategy development process