

HOW-TO

PUT A MANAGEMENT PROCEDURE TOGETHER

Management procedures (MPs) are science-based strategies for managing fisheries sustainably, where decision-makers agree to a long-term vision for the fishery and the rules for how to achieve it. This infographic reviews the puzzle pieces that form a management procedure, and the people responsible for putting them together.

MANAGEMENT OBJECTIVES

Formally adopted, measurable goals for the fishery, such as an abundant population and high catch, and the timeline and likelihood of achieving them.

REFERENCE POINTS

Benchmarks used to compare the current status of a fishery management system against a desirable (target reference point) or undesirable (limit reference point) state. Often defined in management objectives.

PERFORMANCE INDICATORS

A quantitative expression of a management objective used to evaluate how well the objectives are being achieved. For example, the average catch level over a 10-year period.

MANAGEMENT STRATEGY EVALUATION (MSE)

A simulation-based, analytical framework used to evaluate and compare the performance of alternative management procedures relative to the pre-specified management objectives. Also the process of developing MPs.

HARVEST CONTROL RULE (HCR)

A pre-agreed rule that sets fishing opportunities (catch limit, effort limit, etc.) based on selected indicator(s) of stock status.

EXCEPTIONAL CIRCUMSTANCES

Rare and unforeseen events that were not tested by the MSE or that the MP was not designed to manage. Or when monitoring indicates the MP is not meeting objectives.

DATA COLLECTION PROGRAM

The plan for gathering the information needed to evaluate stock status to drive the HCR and monitor MP performance, including exceptional circumstances.

STOCK STATUS

The model-based or empirical process used to evaluate stock status using the collected data to trigger the HCR management action.

THE MANAGER



Government representatives that come together and propose, discuss, and agree on each element of the MP. They make final decisions that are continually informed by scientists and stakeholders.

THE SCIENTIST



Responsible for building the MSE and testing candidate MPs. Also oversees monitoring of the fishery and evaluating stock status to drive the HCR as the MP goes into action.

THE STAKEHOLDER



Advises fishery managers and scientists, providing crucial insights on the costs, benefits and rationale for management decisions including objectives. Can include representatives of the fishing industry, seafood markets, and environmental organisations.

KEY PLAYERS

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