NPFC-2025-TWG CMSA011-WP01

**TWG CMSA Work Plan, 2025-2029**

Members reviewed and updated the TWG CMSA work plan up to 2029. The Work Plan will be submitted to the SC10 meeting for review.

**FIVE-YEAR WORK PLAN**

**Technical Working Group on Chub Mackerel Stock Assessment (TWG CMSA)**

Priority list:

1. Data preparation and review of biological information
2. Conduct stock assessment of chub mackerel
3. Set biological reference points
4. Provide scientific advice on the management of chub mackerel stock to the Commission
5. Explore the influence of climate changes on chub mackerel stock
6. Regularly update and refine inputs

| **ITEM** | **2025** | **2026** | **2027** | **2028** | **2029** | **Progress** |
| --- | --- | --- | --- | --- | --- | --- |
| **Regular update of inputs** |  |  |  |  |  |  |
| Research survey indices | Update | Update | Update | Update |  | Research survey indices have been finalized and used for stock assessment. |
| CPUE indices | Update | Update | Update | Update |  | CPUE standardization has been finalized and used for stock assessment. |
| Catch data/catch composition | Update | Update | Update | Update |  | Catch data and catch composition have been finalized and used for stock assessment. |
| Biological parameters (maturity, M, weight) | Review biological parameters | Review biological parameters | Review biological parameters | Review biological parameters |  | Assumptions on biological parameters have been finalized and used for stock assessment. |
| Quarterly fishery data (CAA, WAA, Maturity-at-age) | Update | Update | Update | Update |  | Quarterly fishery data has been submitted. |
| **Stock assessment** |  |  |  |  |  |  |
| Benchmark stock assessment | Update SA | Update SA | Update SA  | Update SA  |  | Benchmark stock assessment has been conducted. |
| Improvement and further investigation of the selected model | Review and improve, if needed, the SA model | Review and improve, if needed, the SA model | Review and improve, if needed, the SA model | Review and improve, if needed, the SA model |  | Done and ongoing. |
| New stock assessment models | Explore new stock assessment models, if available | Explore new stock assessment models, if available | Explore new stock assessment models, if available | Explore new stock assessment models, if available |  |  |
| **Reference points, HCR, future projections and MSE** |  |  |  |  |  |  |
| Set biological reference points (limit and target) | Review and calculate reference points | Review and calculate reference points | Review and calculate reference points | Review and calculate reference points |  | Commonly used reference points are reviewed, and calculation with the results of SA has been completed |
| Develop future projections |  | Candidates of HCR are tested in future projections | Selection of HCR | Improvement |  | Results of future projection have been provided. |