NPFC-2022-SSC PS10-WP01 (Rev. 1)

**Five-Year Work Plan of the SSC PS**

Abstract: The Five-Year Work Plan of the SSC PS has been updated by the SSC PS Chair. Members are invited to review the work plan during the SSC PS10 meeting.

Priority list:

1. Conduct a stock assessment update based on BSSPM analyses
2. Further investigate improvements to the BSSPM
3. Develop an age/size-structured model
4. Develop a list of plausible ranges for biological parameters
5. Develop databases to support age/size-structured models
6. Continue joint CPUE work to incorporate broader spatial and temporal coverage
7. Update the biomass estimate using the existing method (swept area method)
8. Develop spatio-temporal model for the biomass estimate
9. Further refine the catchability coefficient of the Japanese survey and characterize its variance
10. Develop a longer-term roadmap for work related to Pacific saury stock assessment
11. Set biological reference points
12. Support any technical work on MSE under SWG MSE PS

[H] and [M] indicate high and medium priorities. Cells with “TBD” depend on the progress of data preparation and analytical works.

| **ITEM** | **2022** | **2023** | **2024** | **2025** | **2026** |
| --- | --- | --- | --- | --- | --- |
| **Regular update of inputs** |  |  |  |  |  |
| Update & improvement of biomass survey index | Continue regular review [H] of  1) survey plan  2) analytical work  3) any related issues | Continue regular review [H] of  1) survey plan  2) analytical work  3) any related issues including experiments to produce absolute biomass index and additional surveys by other Members to increase coverage | Same as on the left [H] | Same as on the left [H] | Same as on the left [H] |
| Update & improvement of CPUE indices | Continue review of outcomes of regular update and analytical works [H] | Same as on the left [H] | Same as on the left [H] | Same as on the left [H] | Same as on the left [H] |
| Development of joint CPUE index | Continue review of outcomes of regular update and analytical works [H] | Same as on the left [H] | Same as on the left [H] | Same as on the left [H] | Same as on the left [H] |
| **Regular update of the existing SA** |  |  |  |  |  |
| Routine update BSSPM as a benchmark | Continue review of outcomes of regular BSSPM update [H] | Same as on the left [H] 1) | Same as on the left [H] 1) | Same as on the left [H] 1) | Same as on the left [H]1) |
| Improvement and further investigation of BSSPM | Review any outcomes of improvements, inter alia in light of possible incorporation of environmental information [H] | Same as on the left [H] | Same as on the left [H] | Same as on the left [H] | Same as on the left [H] |
| **Toward age/size-structured models (ASSMs)** |  |  |  |  |  |
| Data inventory (CPUE and size/age in space and time) | Continue update of data for stock assessment with ASSMs [H] | TBD2) | TBD2) | TBD2) | TBD2) |
| Summarizing available information on PS biology | Continue update of information for stock assessment with ASSMs [H] | TBD2) | TBD2) | TBD2) | TBD2) |
| Development of models | Finalize models and results of analyses by ASSMs [H] | TBD2) | TBD2) | TBD2) | TBD2) |
| Uncertainty in models (possible link with OM grid under MSE) | Finalize the procedure of assessing model uncertainty [H] | TBD2) | TBD2) | TBD2) | TBD2) |
| Examination of estimation performance and finalization of models | Finalize simulation works [H] | TBD2) | TBD2) | TBD2) | TBD2) |

1) As a backup method as well as an underlying assessment method used in a management procedure, it seems sensible to keep this as one of reference assessment models.

2) These items might be re-structured depending on the progress of preparation of data and biological information as well as the development of models.