

**Fourth Stock Assessment Group Meeting
Christchurch, New Zealand
25-29 August 2003**

AGENDA

- 1. Opening**
 - 1.1 Introduction of participants**
 - 1.2 Administrative matters**
- 2. Appointment of rapporteurs**
- 3. Adoption of agenda**
- 4. Admission of documents and finalisation of document list**
- 5. Review of fisheries indicators analysis results**
 - 5.1 Review of fishery indicators***
 - 5.2 Status of the SBT stock***
- 6. Management Procedure**
 - 6.1 Terms of Reference***
 - Evaluate performance of candidate Management Procedures (MP) tested to date.
 - Produce final specification of operating models and robustness tests to be used for the final evaluations of MPs.
 - Specify process for evaluating performance of candidate MPs across operating models.
 - Define workplan and timetable.
 - 6.2 Consultation with Industry and Managers***
 - 6.3 Performance of initial candidate Management Procedures from trials to date***

6.4 Process for testing Management Procedures and for synthesizing results across Operating Models

- 6.4.1 Process for synthesizing results across scenarios.
- 6.4.2 Process for assigning weights to alternative scenarios.
 - Feasibility of MCMC to approximate posterior distributions of state variables and model parameters. [*discuss results of MCMC trials done by Vivian Haist using different prior distributions for M and h*]
 - Expert judgment.
- 6.4.3. Others

6.5 Reconsideration of Operating Models

- 6.5.1 Review of results of model fits done by national scientists using the generalized conditioning code distributed after April 2003 (i.e. sbtmod4.tpl).
- 6.5.2 Reconsideration of specific assumptions made about different model components.
- 6.5.3 Selection of final operating models and robustness tests.

6.6 Reconsideration of Performance Statistics and Robustness criteria

6.7 Mechanics for conducting tests and evaluating results

- 6.7.1 Coding issues arising from users experience with simulation code.
- 6.7.2 Consolidate results obtained by National Scientists into a database.
- 6.7.3 Define a protocol to facilitate comparison of results (tables, graphic output, etc.).
- 6.7.4 Other issues.

6.8 Workplan and timetable

- Further changes to conditioning and simulation codes introduced and code distributed.
- Consultant estimate model parameters by conditioning to historical data.
- Consultant distributes final simulation code and data/parameter sets to National Scientists.
- National Scientists evaluate performance of candidate MPs.
- Consultant consolidates documentation for operating models and process used for testing MP during final trials.
- National Scientists conduct trials of MPs and document results.
- Exchange results and consolidate them into a database.
- Hold Workshop III.

6.9 SBT management objectives

- 7. Assessment approach to be used in 2004**
- 8. Indonesian catch monitoring**
- 9. Other business**
- 10. Adoption of report**
- 11. Close of meeting**

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1. Opening

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5. Review of fisheries indicators analysis results

5.1 Review of fishery indicators

(The recent review of SBT fishery indicators conducted by members and the Panel will be discussed.)

5.2 Status of the SBT stock

(What conclusions can be drawn regarding the state of the SBT stock from the above fishery indicators analysis ?)

6. Management Procedure

6.1 Terms of Reference

- Evaluate performance of candidate Management Procedures (MP) tested to date.
- Produce final specification of operating models and robustness tests to be used for the final evaluations of MPs.
- Specify process for evaluating performance of candidate MPs across operating models.
- Define workplan and timetable.

6.2 Consultation with Industry and Managers

(Ray Hilborn will review result from meetings with industry and managers.)

6.3 Performance of initial candidate Management Procedures from trials to date

{Papers expected from national scientists summarizing results of MP trials conducted after April 2003.}

6.4 Process for testing Management Procedures and for synthesizing results across Operating Models

- 6.4.1 Process for synthesizing results across scenarios.
- 6.4.2 Process for assigning weights to alternative scenarios.
 - Feasibility of MCMC to approximate posterior distributions of state variables and model parameters. *[discuss results of MCMC trials done by Vivian Haist using different prior distributions for M and h]*
 - Expert judgment.
- 6.4.3. Others

6.5 Reconsideration of Operating Models

- 6.5.1 Review of results of model fits done by national scientists using the generalized conditioning code distributed after April 2003 (i.e. sbtmod4.tpl).

{If further work on this item has been conducted since April 2003, papers will have to be tabled.}

- 6.5.2 Reconsideration of specific assumptions made about different model components.

{Attachment E of MP Workshop II documents the assumptions made for the last set of trials. These assumptions will be discussed and specific hypotheses about the treatment of errors in catches will be developed.}

- 6.5.3 Selection of final operating models and robustness tests.

6.6 Reconsideration of Performance Statistics and Robustness criteria

6.7 Mechanics for conducting tests and evaluating results

- 6.7.1 Coding issues arising from users experience with simulation code.
- 6.7.2 Consolidate results obtained by National Scientists into a database.
- 6.7.3 Define a protocol to facilitate comparison of results (tables, graphic output, etc.).
- 6.7.4 Other issues.

6.8 Workplan and timetable

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6.9 SBT management objectives

(The final SBT management procedure will need to be designed to achieve management objective/s agreed by the Commission. Consideration needs to be given to what objectives may be feasible and/or desirable, given the most recent understanding of the state and dynamics of the SBT stock derived from management procedure evaluations conducted so far.)

7. Assessment approach to be used in 2004

(Consideration needs to be given to whether there should be a full stock assessment conducted during 2004, and, if so, what assessment approach/es should be followed, what model specifications should be used and what the data requirements would be. Alternately, a full assessment could again be deferred to allow further effort to be put into resolving outstanding problems / issues identified with the Management Procedure.)

8. Indonesian catch monitoring

(The SAG needs to consider whether any of the conclusions of the Indonesian Catch Monitoring Workshop, or results of subsequent analyses of Indonesian catch data, have any significant implications that need to be accounted for in some way in either the management procedure, or in the next stock assessment.)

9. Other business

10. Adoption of report

11. Close of meeting