

Proposal for the recruitment monitoring survey in 2008/2009

2008/2009 年の加入量調査のプロポーザル

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Summary

Recruitment surveys for age one SBT in 2008/2009 is proposed. The survey will be consist of the trolling survey, the acoustic tagging survey and archival tagging survey off the south and west coasts of Western Australia.

要約

2008/2009 年のミナマガロ 1 歳魚加入量調査を提案する。計画は、西オーストラリア南岸沖または南岸及び西岸沖における、曳縄による調査、音響タグ調査、アーカイバルタグ放流調査から構成される。

Objectives

Obtain the index of the recruitment level of age one SBT (the 2008 year class) that distributed off the south coast of Western Australia. In addition, data for dynamics of SBT distribution within the research area will be collected by surveys not only off the south but also the west coast of Western Australia is surveyed.

Methods

The surveys will be conducted off the south and west coasts of Western Australia from around December 2008 to January 2009 for the age one SBT.

1. Trolling survey

A research vessel that chartered in Australia cruises in the research area and detect SBT with trolling catch. When SBT are caught, time and location are recorded and measured SBT length. If SBT are in good condition, SBT are tagged and released with two CCSBT conventional tags per individual following the CCSBT tagging procedure. If SBT are not appropriate for tagging, otoliths, muscle tissue and stomach contents are collected. As the monitoring survey, consistency of method to the previous years will be sought.

2. Acoustic tagging survey

The objectives of this survey are to collect detail and quantitative data for dynamics of SBT distribution on shore areas of Western Australia. Age one SBT that caught by polling or trolling is released with an acoustic tag. Its acoustic signals are detected by hydrophones deployed off the south and west coasts of Western Australia. This survey has been conducted as the joint research project between Japanese and Australian scientists.

3. Archival tagging survey

The objectives of this survey is to collect data of large scale movement of age one SBT. Age one SBT that caught by polling or trolling is released with an archival tag.

Budget and survey scale

Fisheries Agency of Japan will bear the expense. Australia will also bear a part of the expense for the acoustic tagging, if possible.

Report of the results

Results will be submitted to the next CCSBT-ESC in documents with detail analyses. Mortality of SBT by the survey will be also reported to the next CCSBT-ESC.

Seeking endorsement

We seek the endorsement for the researches from the Extended Scientific Committee of CCSBT. We seek the endorsement for including the conventional tagging in these research surveys as a part of the CCSBT SRP tagging. We ask help of CCSBT Secretariat for the research surveys. We seek the endorsement of using Research Mortality Allowance for these research surveys as shown in CCSBT-ESC/0809/45.

References

Fisheries Agency of Japan (2008) Report of the 2007/2008 RMA utilization and application for the 2008/2009 RMA. CCSBT-ESC/0809/45.