

## 2012/2013 年の加入量調査のプロポーザル

### Proposal for the recruitment monitoring survey in 2012/2013

伊藤智幸・境磨

Tomoyuki ITOH and Osamu SAKAI

(独) 水産総合研究センター 国際水産資源研究所

National Research Institute of Far Seas Fisheries, Fisheries Research Agency

#### 要約

2012/2013 年のミナミマグロ 1 歳魚加入量モニタリング調査を提案する。ピストンライン曳縄調査を西オーストラリアの南岸海域で実施する予定である。

#### Summary

Recruitment monitoring survey for age-1 SBT in 2012/2013 is proposed. The piston-line trolling survey will be carried out off the south coasts of Western Australia.

#### Objectives

The main objective of the survey is obtaining the index of the recruitment level of age-1 (the 2012 year class) southern bluefin tuna (SBT) that distributed off the south coast of Western Australia. In addition, data for determine dynamics of SBT distribution within the research area will be collected.

#### Methods

The survey will be carried out off the south coasts of Western Australia in a period between January and February 2013 for age-1 SBT. An Australian fishing boat will be chartered. Because it is a monitoring survey, consistency of method to the previous years will be sought. Detail of last survey was described in CCSBT-ESC/1208/33.

In the cruise, we will try to collect information of age-1 SBT distribution off Western Australia for a wide range as much as possible with trolling. When SBT are caught in good condition, SBT will be tagged and released with CCSBT conventional tags following the CCSBT tagging procedure. Some of SBT will be also implemented archival tags. If SBT are not appropriate for tagging, biological samples, including otolith, muscle tissue and stomach contents, will be

collected. Stomach contents will be observed also for fish other than SBT (such as skipjack, bonito and mackerel) to compare feeding ecology between SBT and others. CTD (Conductivity Temperature Depth profiler) will be cast in some points for oceanographic observations. Towing type underwater video will be taken to investigate SBT school structure and behavior.

### **Budget**

Fisheries Agency of Japan will bear the expense of the trolling survey.

### **Scientific research permission from Australian government**

Because this survey will be carried out within the Australian EEZ, the scientific research permission from Australian government is necessary.

### **Report of the results**

Results will be submitted to the next CCSBT-ESC in documents. Mortality of SBT by the surveys will be also reported to the next CCSBT-ESC. Research Mortality Allowance for the research survey is requested as in CCSBT-ESC/1208/38.

### **References**

Fisheries Agency of Japan (2012) Report of the 2011/2012 RMA utilization and application for the 2012/2013 RMA. CCSBT-ESC/1208/38.

Itoh, T., O. Sakai and D. Tokuda (2012) Report of the piston-line trolling survey in 2011/2012. CCSBT-ESC/1208/33.