第 95 回談話会
日時：平成 22 年 5 月 19 日（水）15:00-16:00（予定）
場所：遠洋水産研究所清水庁舎 会議室富士（本館 2F）

講演者

1. Simon Hoyle さん（SPC）
タイトル：Approaches for standardizing CPUE

要旨：While here in Shimizu I am working on standardization of operational Japanese LL CPUE data for bigeye. I will discuss some of SPC's previous work on Japanese LL CPUE data, including analyses of aggregated data and operational level data, analyses to estimate effort creep, and several different approaches for standardizing CPUE data.

2. Adam Langley さん（SPC）
タイトル：Analysis of operational data from the WCPO longline fishery

要旨：Statistical approaches to the analysis of catch and effort data, such as generalised linear models (GLMs), are routinely applied in fisheries science to derive CPUE indices. A key assumption of such a modelling approach is that the individual observations are independent. It is generally recognised that for fisheries data this assumption is violated by operational fishing practices: successive fishing events are informed by a vessel's recent and past fishing activity and the activity of associated fishing vessels. The availability of fine-scale logsheet data enables this source of bias to be investigated in the longline fishery. Data were analysed from the Japanese longline fleet operating in the western equatorial region of the WCPO. The analysis revealed that individual fishing events (sets) have become more aggregated since 1990 both within a fishing trip and among vessels. The fishing effort has become increasingly concentrated in localised areas where bigeye catch rates are generally higher. These changes in fishing activity are not incorporated in the current GLM approach and are likely to introduce a positive bias (hyperstability) in the CPUE indices that represent the principal indices of stock abundance included in the assessment of key tuna species.