



**TO ALL COMMISSION MEMBERS, COOPERATING NON-MEMBERS,
PARTICIPATING TERRITORIES AND OBSERVERS**

**Circular No.: 2021/93
Date: 26 October 2021
No. pages: 03**

SPC's Notification of a Seminar Announcement on Close-Kin Mark-Recapture

Dear All,

As requested, I forward an SPC's official circular on a seminar announcement for the application of Close-Kin Mark-Recapture technology in tuna fisheries. This is the second seminar in a planned series of three to introduce this technology to WCPFC members. This seminar will provide practical examples of the application of Close-Kin Mark-Recapture in tuna fisheries, and will be held at **10:00-11:30 am (Pohnpei time, GMT+11) on Tuesday, 16 November 2021 with no required registration.**

Please contact Dr Simon Nicol (SimonN@spc.int) if you have any questions.

Yours sincerely,

**Feleti Penitala Teo, OBE
EXECUTIVE DIRECTOR**

25/10/2021

Subject: Seminar Announcement

A case study in the application of Close-kin mark recapture to southern bluefin tuna and its use in stock assessment and management procedures.

Zoom Meeting

10:00-11:30 (Pohnpei time, GMT+11) on Tuesday, 16 November 2021

Dear WCPFC members and participants,

Close-Kin Mark-Recapture (CKMR) is a rapidly developing technology that has the potential to transform several stock assessments prepared for the WCPFC tuna stocks. The Science Committee has been discussing its potential use over the past few years. To help ensure that we have a good understanding of the technology and its applications, SPC and CSIRO have planned three seminars to introduce the technology to WCPFC. This is the second of the three seminars and will provide a detailed description of its use and successes in the assessment and management of southern bluefin tuna. **Dr Richard Hillary and Dr Campbell Davies** (CSIRO Oceans and Atmosphere, Hobart, Australia) will present during this seminar. Both have been instrumental in its successful application for southern bluefin tuna. The seminar will be conducted via zoom (the link details are below) on 16th November 2021, commencing at 10:00am (Pohnpei time). Please share this link with whomever you think may benefit. Note that there is no requirement for registration. The seminar will be recorded and placed on the WCPFC website for those who are interested but cannot attend.

A summary of the presentation is as follows

The application of Close-kin mark recapture has substantially reduced the uncertainty in the absolute abundance and population dynamics of the southern bluefin tuna stock through “stand-alone” CKMR models and inclusion of the CKMR data in the CCSBT Operating Models (OMs) used for stock assessment and testing of Candidate Management Procedures (CMPs). More recently, the CKMR data has been incorporated as one of three monitoring series that could be used in alternative CMPs and is part of the final MP adopted by CCSBT, the Capetown Procedure. This presentation will provide an overview of the rationale for the development and implementation of CKMR studies through two stages: i) Parent-Offspring Pair (POP)- only and, ii) POP + HSP (Half-Sibling-Pairs) versions of the CKMR approach, the incorporation of these data in the operating models and their influence on the CCSBT stock assessment, the use of these data in the Capetown Procedure and, some considerations that arise from this experience in the context of application

Yours sincerely,



Dr Graham Pilling
DEPUTY DIRECTOR
FISHERIES AQUACULTURE AND MARINE ECOSYSTEMS DIVISION

Topic: WCPFC Seminar: Close Kin Mark Recapture Seminar 2

Time: November 16, 2021 10:30 AM New Caledonia

Join Zoom Meeting

<https://spc.zoom.us/j/99039488822?pwd=anY4VStUcjZZaXFBalBKVkw5T3NQQT09>

Meeting ID: 990 3948 8822

Passcode: 651826

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