

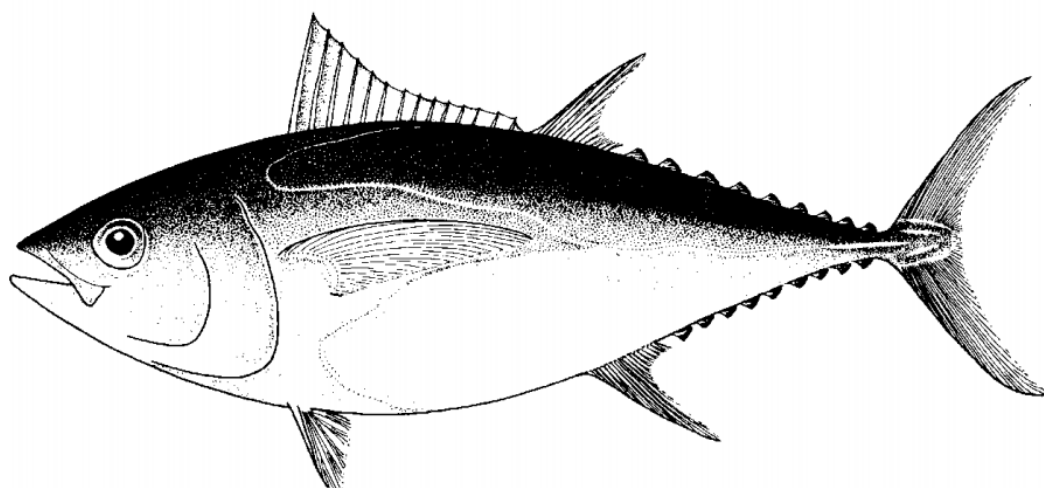
ELEVENTH MEETING OF THE TUNA FISHERY DATA COLLECTION COMMITTEE

20-24 AUGUST 2018, BRISBANE AUSTRALIA

**WORKING PAPER DCC11-WP02 - agenda item 4**

**Outcomes from the Second Regional EM Process Standards  
Workshop (REMPS-2)**

Prepared by the Oceanic Fisheries Programme (OFP) of the Pacific Community (SPC)



Pacific Community



Forum Fisheries Agency

## Introduction

This paper presents the outcomes from the second regional EM process standards workshop and focuses on the set of draft Data Process Standards for the Electronic Monitoring (EM) of longline, purse seine and carrier vessels operating in the WCPO (attachment 1).

The WCPFC Regional Observer Programme minimum data standards clearly define (**what**) data fields that must be collected by observers and submitted to the Commission; these fields are also consistent with the requirements for observer data collection defined by the SPC/FFA Data Collection Committee (DCC), although there are additional data fields required by the DCC.

The work to evaluate and determine **how** these same or additional data fields could be collected using E-Monitoring is evolving. The purpose of establishing the **process standards for E-Monitoring** is to provide guidance on **how** the agreed standard observer data fields can (or cannot) be collected using EM systems. It is important to note that **what** are to be collected by observers has been established and is mandatory through the WCPFC ROP minimum data field standards and the SPC/FFA DCC standards.

## Workshop approach

Organised by the Pacific Community (SPC) and the Pacific Islands Forum Fisheries Agency (FFA), the second Regional Electronic Monitoring Process Standards (REMPS-2) took place at the SPC headquarters in Noumea in November 2017. The workshop brought together 47 experts currently involved in the use of electronic monitoring systems from Pacific Island national fisheries offices, regional and sub-regional fishery management organisations, non-government organisations and electronic monitoring service providers.

The workshop's full report can be accessed here: <http://oceanfish.spc.int/en/meetingsworkshops/e-reporting-a-e-monitoring/474-second-em-workshop-11-2017>

The workshop focused on the detailed data standards for EM by defining the data fields and describing the business requirements in relation to those data fields (increasingly sought by EM service providers).

Important sections in the [report](#) of the Workshop include:

- **Overview** : Brief background on the definition and potential for E-Monitoring in the region's tuna fisheries.
- **A description of the categorisation of EM potential for each required data fields** (see [ANNEX](#))
- EM categorisation for **purse-seine OBSERVER data field**
- EM categorisation for **Transshipment and Unloads data fields**
- The key issues for **EM to enhance observer safety**
- The key issues for **design standards of EM for MCS requirements**
- The key issues to consider in establishing **Debriefing in EM**
- Identification of the **Overarching issues**
- Key areas for **future EM research and development**

The workshop endorsed the draft 2017 **E-Monitoring process standards for longline observer data** and recommended:

- These draft standards are used as guidelines by SPC/FFA member countries embarking on any new E-Monitoring initiatives;

- Further post-workshop refinement of the categorisation of EM capabilities should be conducted by SPC and the consultant;
- Development of priority areas be incorporated into the draft standards to focus future EM R&D in line with science and MCS needs; and
- With the above change incorporated, the draft 2017 E-Monitoring process standards for longline be submitted to the 2018 WCPFC EREM WG for its consideration and use as the WCPFC develops its approach to regional standards.

The workshop endorsed the draft 2017 **E-Monitoring process standards for purse seine observer data** and recommended:

- That research, development and trials directed to the potential for E-Monitoring to resolve the current issues in collection of data to accurately determine purse seine tuna species catch composition be conducted as identified as the highest priority from a scientific perspective; and
- That the draft 2017 E-Monitoring process standards for purse seine be submitted to the 2018 WCPFC EREM WG for its consideration and use as the WCPFC develops its approach to regional standards.

## Outcomes

In summary, the second regional EM process standards workshop (REMPS-2) agreed that:

- (1) The contractor, SPC and FFA work to ensure the draft Electronic Monitoring Process Standards for Longline, Purse Seine and transshipment be edited as needed to ensure they are ready for consideration by the 3<sup>rd</sup> WCPFC EREM WG in August 2018;
- (2) Members, regional and sub-regional agencies should consider developing broader programme standards for EM;
- (3) An annual forum be developed for members to share experiences with the implementation of EM in fisheries monitoring and utilise that experience to provide input on revision of regional Electronic Monitoring Process Standards; and
- (4) That SPC and FFA continue to progress work on EM Process Standards through the DCC and MCSWG.

















### DCC 11 review and consideration

DCC 11 is **invited to consider and comment on the potential for EM process standards within the WCPFC E-Monitoring domain**, with reference to the following documents:

- I. Draft E-Monitoring Process Standards for LONGLINE OBSERVER DATA ([Attachment 1](#));
- II. Draft E-Monitoring Process Standards for PURSE SEINE OBSERVER DATA ([Attachment 2](#));
- III. Draft E-Monitoring Process Standards for TRANSHIPMENT MONITORING DATA ([Attachment 3](#));
- IV. Preliminary assessment of E-Monitoring Process Standards for SPC/FFA UNLOADING FORMS ([Attachment 4](#)).

## ANNEX

**Table 1: Categories of EM potential for each data field as used in 2016 and 2017 assessments.**

2016 Categories	2017 Categories	
 EM ready	 EM-R1	EM Ready 1 - operational now
	 EM-R2	EM Ready 2 - requires significant crew support
	 EM-R3	EM Ready 3 - requires additional dedicated camera / sensor
	 EM-R4	EM Ready 4 - but inefficient / costly
 EM with work	 EM-P1	EM Possible - with minor work
	 EM-P2	EM Possible - with major work
 EM not likely	 EM-NP	EM Not possible
	*	Data better collected by PS onboard observer
 EM Natural Key	 EM-Nat	EM Natural Key
 EM new field	 EM-New	EM new field
 EM redundant	 Null	Null field

In addition to these categorisations, the workshop participants highlighted whether development of EM capability had been achieved for a particular field or was a “High”, “Medium” or “Low” priority for future EM development.

Similar to the 2016 process, the source from which each field could be collected (or not) was identified. These were coded as shown in Table 2 below. For clarity, the term “office observer” used in the 2016 draft standard was changed to EM Analyst for the 2017 draft standard.

**Table 2: The source from which each data field may be collected.**

SETUP	—	Hard-coded or recorded at the time in which the EM equipment is installed on the vessel.
PRE	—	Hardcopy reporting or preferably E-Reporting from a pre-trip onsite inspection of the vessel and discussion with owner / captain / crew;
EM-A	—	Recorded by an EM-Analyst based on visual reference to images / footage / sensors;
POST	—	Hardcopy reporting or preferably E-Reporting from a post-trip onsite inspection of the vessel and discussion with owner / captain / crew;
AG	—	Automatically generated by the EM system components;
CF	—	A calculated field arithmetically generated from one or more of the above field types.

**Draft E-Monitoring Process Standards for LOGLINE OBSERVER DATA**

**Draft E-Monitoring Process Standards for PURSE SEINE OBSERVER DATA**

**Draft E-Monitoring Process Standards for TRANSHIPMENT MONITORING DATA**

Preliminary assessment of E-Monitoring Process Standards for SPC/FFA UNLOADING  
FORMS