



## **E-MONITORING AND E-REPORTING WORKSHOP**

Pacific Islands Forum Fisheries Agency Headquarters, 31 March – 1 April 2014  
Honiara, SOLOMON ISLANDS

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### **Electronic Monitoring Trials on Tuna Longline Vessels**

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**1 April 2014**

**Cynthia Wickham**

# Electronic Monitoring Trials on Tuna Longline Vessels



Tri Marine, NFD, Yi Man, MFMR, FFA, SPC, SatLink

WCPFC E-Monitoring/E-Reporting Workshop

FFA Conference Centre, Honiara, Solomon Islands

31 March – 1 April 2014

Cynthia Wickham, NFD

# Presentation Outline

- Industry-Institutional Arrangements
- Trials structure
- EM System installation
- EM data analysis - compilation
- Anticipated challenges and mitigation measures
- Contacts - Questions

# Industry-Institutional Arrangements

- MOU between TMI, NFD, YMFC, SPC, FFA and MFMR
- Funding: 50% TMI 50% SPC/FFA (DevFish)
- Project Management Committee to oversee trials



# Trials Structure

- EM systems on two CT-4 freezer class tuna LL vessels - at sea for up to 75 days
- 4 trips planned – MFMF Observers onboard
- LL Observers equipped with DeLorme units
- Report on results for SC meeting in August

The image shows a printed form, possibly a log or checklist, held by a green binder ring. The form contains various fields and checkboxes, some of which are filled in. The text on the form is small and difficult to read, but it appears to be a structured document for data collection or record-keeping.



# Trial data requirements

- Currently no formal E-M data standards ...
- WCPFC ROP minimum data standards – basis
- Suggestions on how each field might be collected from E-M - basis

## WCPFC ROP Minimum Standard Data Fields to be collected during the E-Monitoring trial

DRAFT -- (Document version : 1.0.0)

The right-hand column provides information on the perceived source/methodology for collecting the respective ROP data field information during the E-Monitoring trial on-board a LONGLINE vessel. The trials of E-Monitoring should consider that a pre-trip port inspection will be required to collect a range of data usually collected by the observer but which will not be efficiently collected by E-Monitoring video.

GENERAL VESSEL AND TRIP INFORMATION FOR ALL VESSEL TYPES VESSEL IDENTIFICATION				
ROP Data Field	Satlink Sea Tube	Satlink View Manager version 1.2.0.16	ROP Data Field Description	Comments
Name of vessel	Yes – we have Fishing vessel Name field, included in meta data as configured during installation	Yes – shown on inspection report	Name must be clearly written, make sure any numbers connected with the name are included i.e. "Moonlight No 6"	This information is available prior to departing the port and should be compiled by the port data collection officer responsible for the onshore coordination of retrieving the E-
Flag State Registration Number	Yes – we have EU Fleet Reg Number (CFR) field, that can be used for this included in meta data as configured during installation	Yes – shown on inspection report	This number will be sourced from the vessel papers. You can normally get this information during the briefing.	
International Radio Call Sign	Yes – we have Radio Call Sign field, included in metadata as configured during installation	Yes – shown on inspection report. Size is 7-char	The vessel call sign is usually issued to the vessel by the flag State in accordance with IMO regulations and procedures. This can become the WCPFC identification number of the vessel	
Vessel Owner/ Company	No – not available for	Yes- can be	Name and contact if possible of the owner of the vessel, if it	

# EM System

- HD Cameras: Fixed, autofocus, wide angle
- 3 cams. on Yi Man 2 and 4 cams. on Yi Man 3
- Covers shooting, hauling and processing
- Satlink Sea Tube + FB250 + VMS
- Tamper proof system – recording 24h
- Footage and data is encrypted and backed up





# EM data analysis - compilation

- Dedicated space at FFA headquarters
- Collaboration btw Satlink, MFMR, FFA and SPC
- MFMR independent obs. to analyse data
- Video footage linked to VMS data
- Compare data sets – Human vs EM





## **Anticipated challenges**

- Technical aspects of EM system (length of trips)
- Analysis of video footage (effort and time)
- Sp. ID and precise length measurement data
- Resources and costs efficiency
- Legal framework for EM in the WCPO (including high seas)
- Standard certification system

# Going Forward

- As EM develops on Longline and other fisheries, it would be useful for the cameras to have the ability to record in isolation of each other to avoid using up disk space for cameras recording areas of no activity.
- Vessels are already equipped with their own cameras, so possibility of integration with existing systems

# Contacts – Questions

- **TMI:** Matthew Owens, Russell Dunham
- **NFD:** Frank Wickham, Cynthia Wickham
- **Yi Man:** Mr Chen, Chia-Cheng, Briant Chueng
- **SPC:** Peter Williams, Malo Hosken, Peter Sharples, John Hampton
- **FFA:** Hugh Walton, Kenneth Katafono, Tim Park, Wez Norris
- **MFMR:** James Teri, Edward Honiwala, Harold Vilia, John Agy
- **Satlink:** Egor Zaborovskiy, David Sanchez, Faustino Velasco

# Thank You.

