

Electronic Monitoring (EM) Pilot Project
Among Ocean Outcomes(O2) / Fue Shin Fishery Ltd (FSF)
/ National Taiwan Ocean University (NTOU)

Brief Report.

Purpose: In the end of 2024 the project focuses on enhancing Electronic Monitoring (EM) systems coverage for fisheries by addressing challenges in equipment installation, data analysis, and compliance with Western and Central Pacific Fisheries Commission (WCPFC) regulations. Key objectives included:

1. Resolving technical issues – Addressing hard drive damage, satellite transmission limitations, and transshipment data collection difficulties.
2. Ensuring proper EM system installations – Reviewing completed installations and future deployment plans.
3. Improving data accuracy and analysis – Exploring AI and machine learning solutions to improve hook count analysis and species identification.
4. Enhancing data collection methods – Evaluating additional cameras and alternative solutions to strengthen monitoring efficiency.
5. Collaborating on the NTOU EM Project – Discussing funding, research activities, and an upcoming MOU to define project roles.

Timeline & Next Steps:

1. Short-Term (Nov-Dec 2024)
 - O2 to schedule a visit to NTOU to finalize project details and MOU.
 - Finalize recruitment of observers under NTOU for manual data review and annotation.
 - Gather cost details for the AI-based EM system to present cost-saving options to Taiwan Fishery Agency (TFA).
 - Assess feasibility of installing additional cameras on vessels.
2. Medium-Term (2025 Q1-Q2)

- Deployment of five EM units and testing of two additional experimental units.
 - Pilot implementation of enhanced data collection through AI-based methods.
 - Monitoring effectiveness of new AI solutions and observer-assisted data annotation.
3. Long-Term (2025 Q3 and beyond)
- Evaluate EM system performance and data accuracy improvements.
 - Address regulatory compliance with WCPFC standards.
 - Expand the project scope based on initial success and cost-efficiency results.

Progress

As of December 2024 there're 5 vessels having EM installed.

Evidence



