

MINIMUM STANDARDS for Vessel Electronic Monitoring Systems (EMS)

in Tropical Tuna Purse-Seine & Longline Fisheries



BEFORE the fishing trip

EMS Equipment & Installation

- ✓ **Create vessel monitoring plan** describing how vessel will record all required fishing activities and data
- ✓ **Customize EMS for vessel**, ensuring enough cameras and camera placement to cover necessary fishing actions
- ✓ Design EMS to (1) **record information on gear configuration**, vessel fishing activities, safe handling and best practices, and retained catches and discards and (2) **link all EM records** to specific vessel geographic position, date, and time
- ✓ **For individual privacy**, set up EMS to not record areas of the vessel not used for fishing activity



DURING the fishing trip

Data Collection: Including Images & Equipment Maintenance

EMS should record 100% of catches and fishing activities for complete trip.

To accomplish that, system should:

- ✓ Be robust in all at-sea conditions
- ✓ Be operated independently from the crew
- ✓ Incorporate a self-test function to remotely and continuously verify functionality
- ✓ Have its own uninterruptible power supply
- ✓ Be configured to be tamper-proof system for data security
- ✓ Have adequate data storage capacity
- ✓ Include separate backup services

AFTER the fishing trip

Data Traceability Analysis & Review

EMS should be set up to support both (1) **random review** of at least 20% of EM records on fishing sets and activities as well as (2) **submission of EM reports and EM data** to research institutions, national authorities, and/or tuna RFMOs.

To accomplish that, system should:

- ✓ Store EM records (images, sensor data, raw data) for at least one year after they have been received by designated EM review centers
- ✓ Guarantee data chain of custody
- ✓ Have qualified third parties in place for data analysis and reporting
- ✓ Have dedicated software for data review
- ✓ Generate EM reports using software compatible with standardized data flow and database

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[ISSF 2022-09: Minimum Standards for Electronic Monitoring Systems in Tropical Tuna Purse Seine and Longline Fisheries](#)

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