



How do we **observe and monitor artisanal tuna fisheries** in the western and central Pacific?

The Pacific Community established a new artisanal monitoring programme in 2011 to document the number of small-scale vessels involved in the fishery and their total catch. The impact of the industrial tuna fisheries on these vessels is an important focus.

Sampling design

Standardised data collection forms

Vessel registration to enumerate and identify vessels

Data collection at main landing sites, no on-board observations

Complements and enhances other programmes, including FAD deployments, and socio-economic and creel surveys

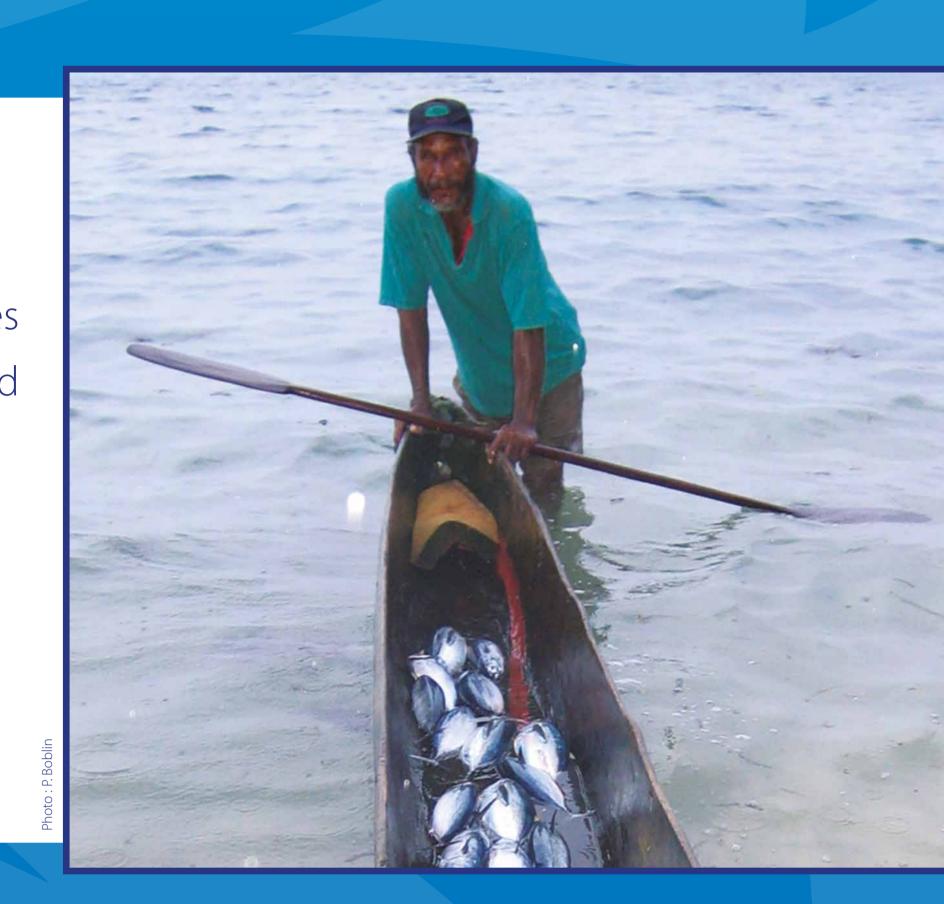
Fisher lead data collection for charter vessels being considered



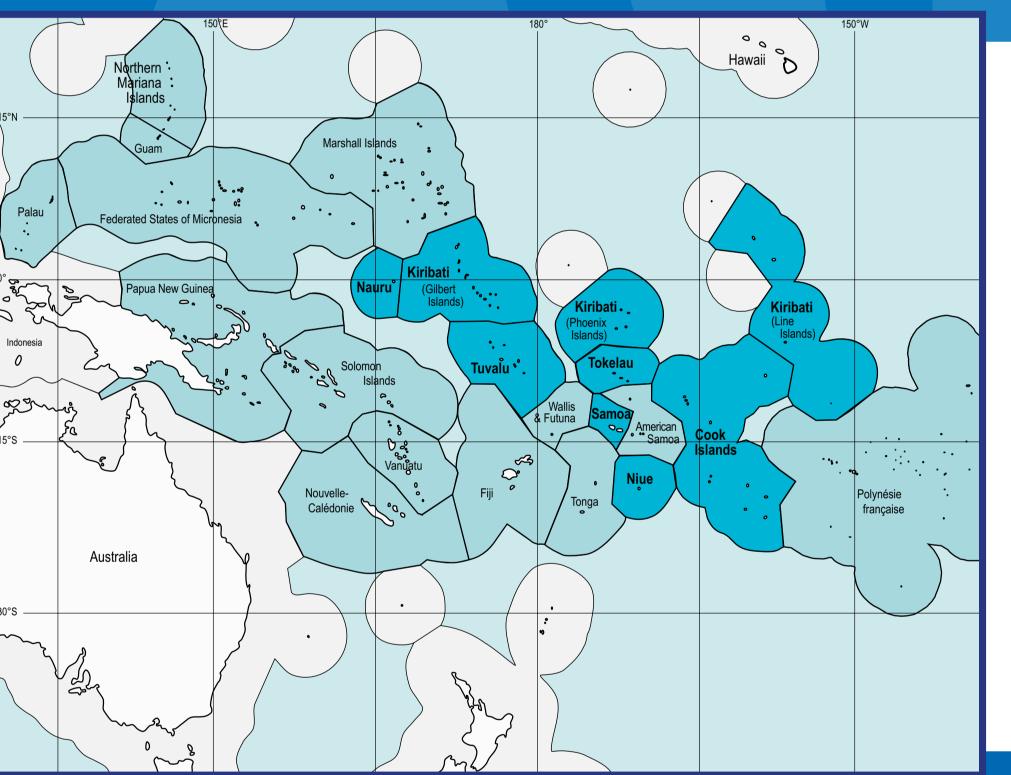
Challenges

Access to remote sampling sites
Basic infrastructure
Difficult to uniquely identify canoes
Landing sites can be very dispersed
Neither discards or market
data are collected
Little or no legislation to

support monitoring
Issues of data confidentiality
in small communities

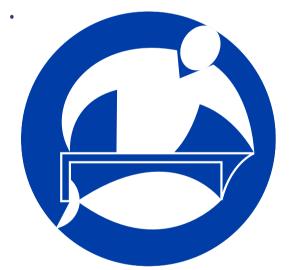


Currently across seven Pacific countries



Aligned with observer training

Recognition under the PIRFO certification given for comparable competencies: i.e. length measurements, etc. Accreditation feeds into the PIRFO "Career Pathways for Observers".



Emerging technologies



Tails
A smartphone/tablet
application has been
designed to capture
data with direct up
load when wifi
allows. Developed for
very low internet
connection.



Upcoming

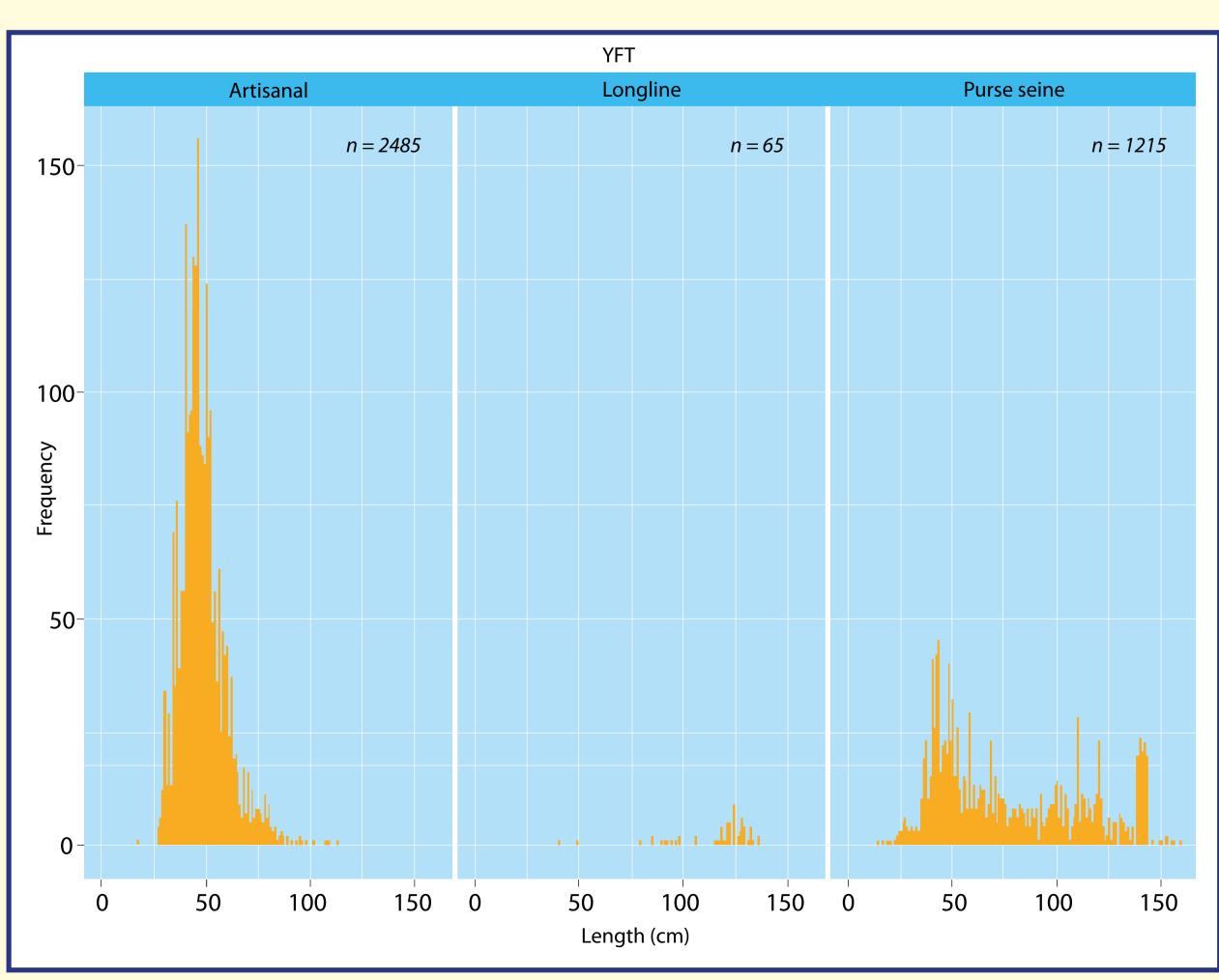
Vessel activity counts through camera surveillance at boat ramp (currently in design phase).

Are large offshore vessels affecting artisanal vessels catch?

"Gifting" of discards can flood the local market and reduce artisanal fishing.

Analysis of catch data from Tuvalu and others countries shows artisanal catches may be affected by offshore vessels, depending on the extent of the overlap in their fishing location and species composition.

dala are direct.



Yellowfin tuna length samples from the purse seine, longline and artisanal catch sampled in Tuvalu



Conclusions

- Report on challenges of vessel registration is available
- Programme is linked to Goal 4 (food security) of Pacific Regional Roadmap for Fisheries
- Long-term data sets starting to emerge
- Future steps will increase the use of technology and more analysis