



November 2011

WGEA

# ACAG/PASAI Regional Working Group on Environmental Auditing

## Update for WGEA meeting Argentina

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## RWGEA update

- Building environmental auditing capability in PASAI – Pacific Regional Audit Initiative
- Cooperative performance audits in the PASAI region
  - Solid waste
  - Drinking water
  - Sustainable fisheries
- Next RWGEA meeting



# Pacific Regional Audit Initiative

3

Building audit capability to a uniformly high standard

Key partners - PASAI, Asian Development Bank, IDI, New Zealand and Australian Government aid programs

Capacity building – four main aspects:

- permanent PASAI secretariat, based in Auckland, NZ
- raise financial audit capability in small islands Tuvalu, Nauru, Kiribati (sub-regional audit support programme)
- cooperative performance audits
- better policies and practices in SAs

The first three cooperative performance audits have been on environmental topics



# PASAI cooperative environmental audits

Solid waste management – completed 2010



Drinking water – largely completed 2011

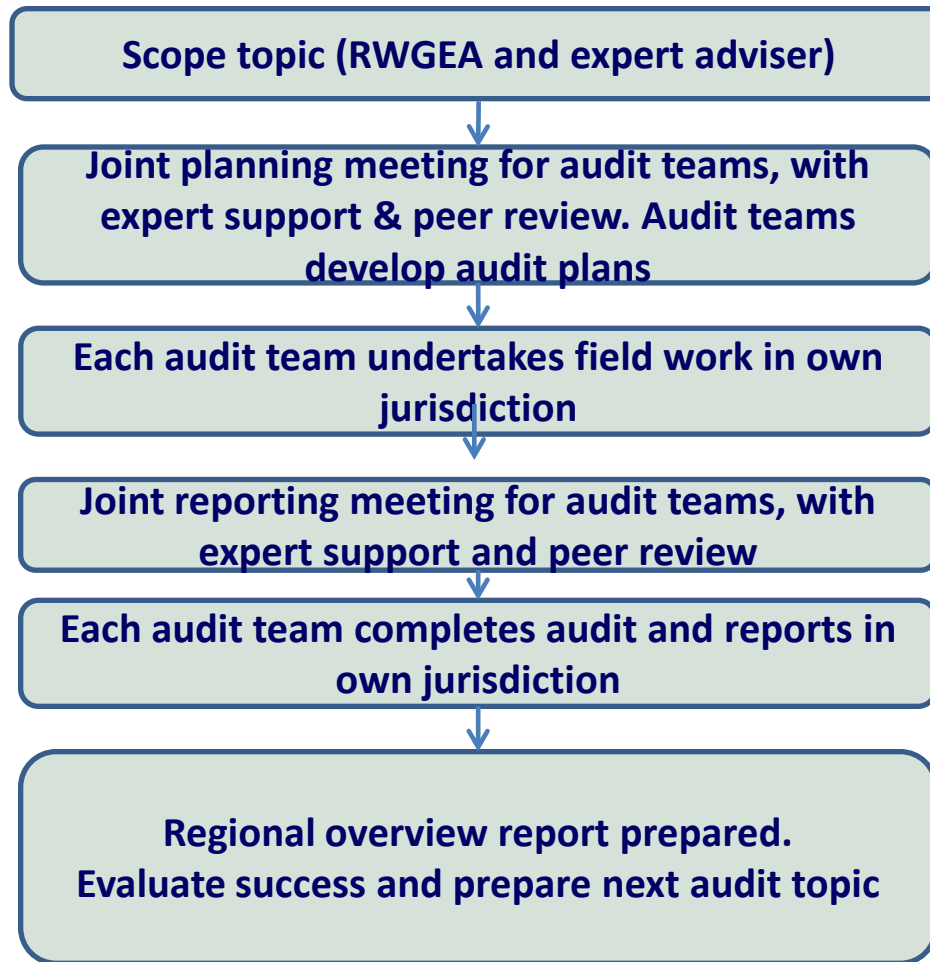


Sustainable fisheries – underway, to be completed 2012





## PASAI cooperative audit methodology





## Results of solid waste audit

6

**Regional overview** report issued August 2011 – available on PASAI and WGEA websites

**WGEA waste guidance was very useful**

**Audit question – effective waste management in Pacific countries?**

Legal framework in place? Implemented? Monitoring leading to improvements?

- Answer – good progress in getting legal frameworks in place but need to be fully implemented
- Some good practices (often in partnership with donor organisations)
- Some poor practices – risk to health and environment, including poor practices for medical waste
- Lack of resources and funding to fully implement good solid waste management



## 2<sup>nd</sup> cooperative audit - drinking water

- Same approach as for waste audit (support from IDI, ADB, WGEA guidance and RWGEA).
- Joint planning and reporting meetings
- Ten participating SAIs (7 from solid waste audit, and three new SAIs (Kiribati, and Federated States of Micronesia Kosrae and Yap)



## Pacific Island Water Issues

- Uniquely **fragile water resources** due to small size, lack of natural storage, competing land use, vulnerability to natural & man-made hazards, including drought, cyclones and urban pollution
- Only **1 in 8 people** have access to piped drinking water
- Some smaller Pacific Islands rely on collecting rain water and storing water for drinking
- Recent examples of islands **running out of water**

3<sup>rd</sup> World Water Forum,  
Kyoto, 2003

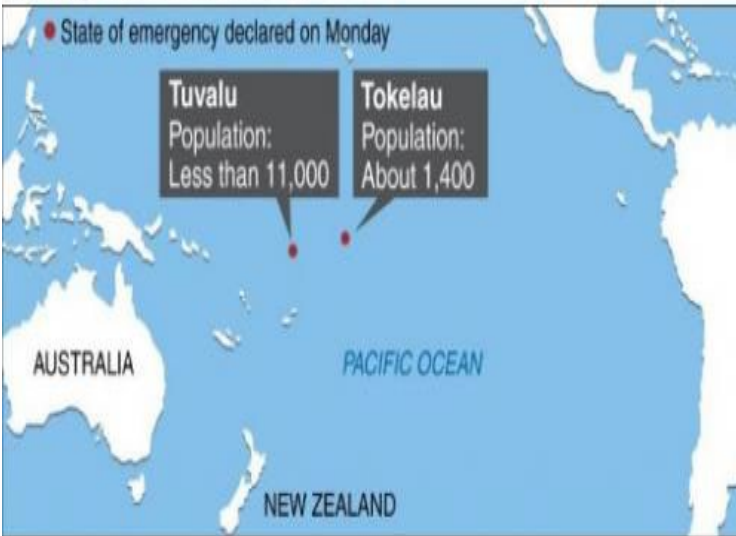






# Drought emergency

South Pacific islands face a drought set to create food shortages across the region



AFP





## PASAI drinking water audit topic

10

Whether Pacific countries are improving access to safe drinking water for their populations, by examining:

- Is there a legal and policy framework to ensure access to safe drinking water?
- Has the framework been implemented?
- Is the effectiveness of implementation monitored?
- Can improvements be demonstrated?



## PASAI drinking water audit

- Largely complete
- An ambitious topic, harder than solid waste
- Could have taken a narrower focus, eg on water infrastructure
- Regional overview report to be prepared shortly



## 3<sup>rd</sup> cooperative audit - sustainable fisheries

- 3<sup>rd</sup> cooperative audit - sustainable fisheries
- WGEA fisheries guidance very useful in the audit planning, particularly the audit design matrix/audit questions



## Audit topic -sustainable fisheries

13

To assess the effectiveness of the management of off-shore fisheries (in particular the tuna fishery) by fisheries authorities in accordance with national fisheries policies and frameworks, by examining:

- the planning of off-shore fisheries;
- economic returns from off-shore fisheries; and
- whether management decision making is informed by accurate information.



## A good topic for a cooperative audit

14

- Tuna highly migratory – move around a lot
- Offshore fishing within EEZs and high seas - requires regional coordination
- Complex regional arrangements and sub-regional arrangements
- Need good data about fish stocks for good decision making
- Modern fishing methods (purse seine and FADs) mean greatly increased catch volumes
- But unclear that Pacific countries are getting the economic rewards of the resource
- 3 of the 4 tuna species in danger of being over-fished in some areas of the Pacific
- Next slides show the countries taking part and illustrate some of the above points

# Audit offices involved in Sustainable Fisheries Audit



Scale: 1:36,000,000 at 30°S  
 Mercator Projection  
 0 500 Kilometers  
 0 500 Miles



# Tuna – Target species

## Skipjack

A surface species that is short lived (2-3yr), mature young, highly fecund. Caught mainly by Purse-seine, Pole-and-line



## Albacore

Juvenile (surface; southern latitudes; troll caught); adults (deeper; subequatorial; LL). Mature ~ 5 yrs, lifespan ~ 20 years



## Bigeye

Juvenile (surface; tropical latitudes; PS, LL and OTH caught); adults (deeper; mainly LL). Mature ~ 3-4 yrs, lifespan ~ 12 years



## Yellowfin

Juvenile (surface; tropical latitudes; PS, LL and OTH caught); adults (deeper; mainly PS, LL, OTH). Mature ~ 2 yrs, lifespan ~ 7 years





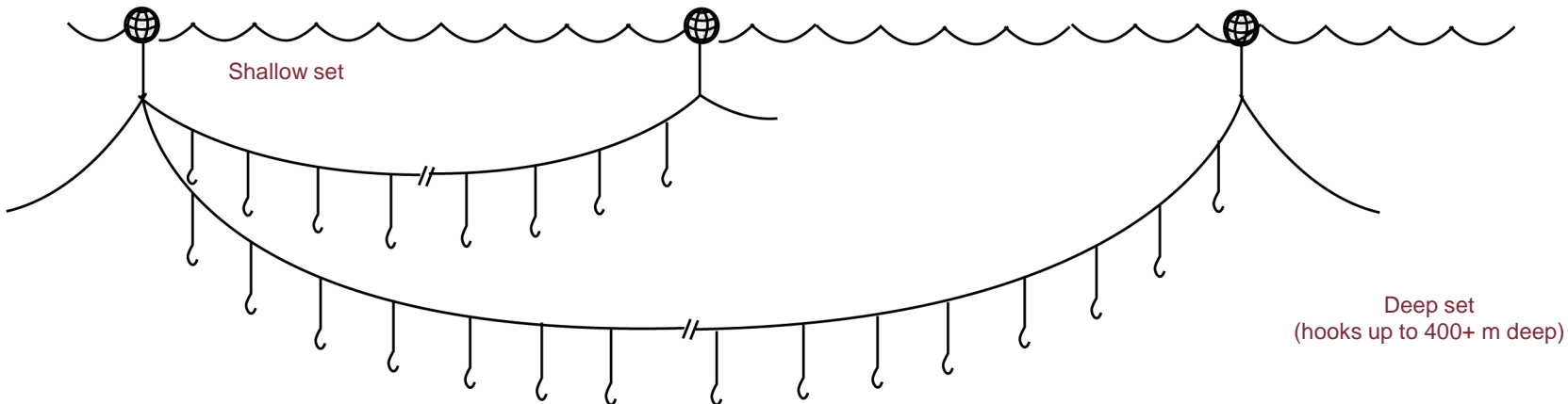
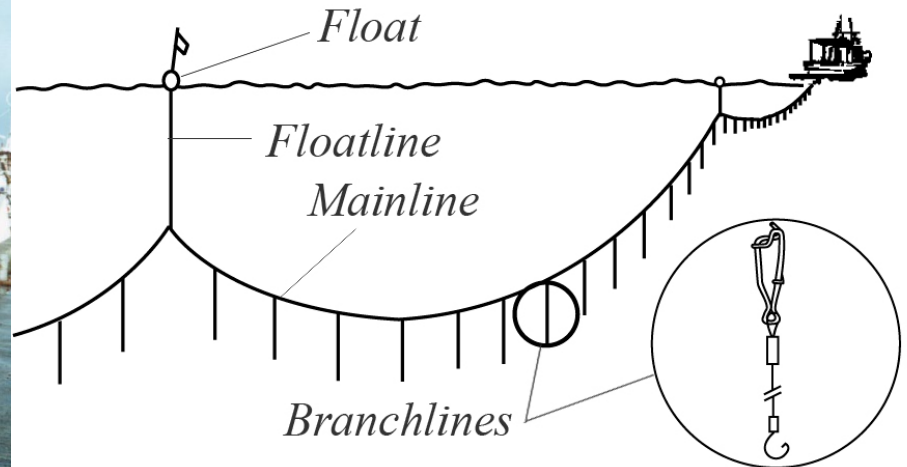


# Fisheries methods –pole & line



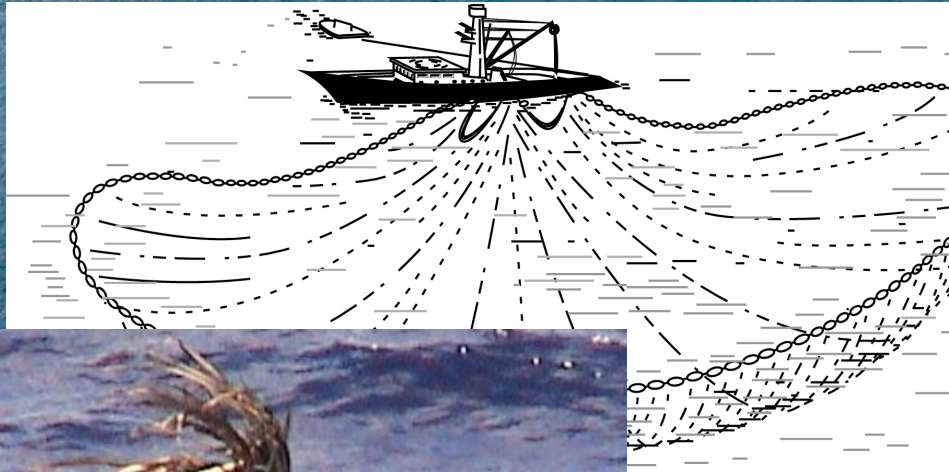
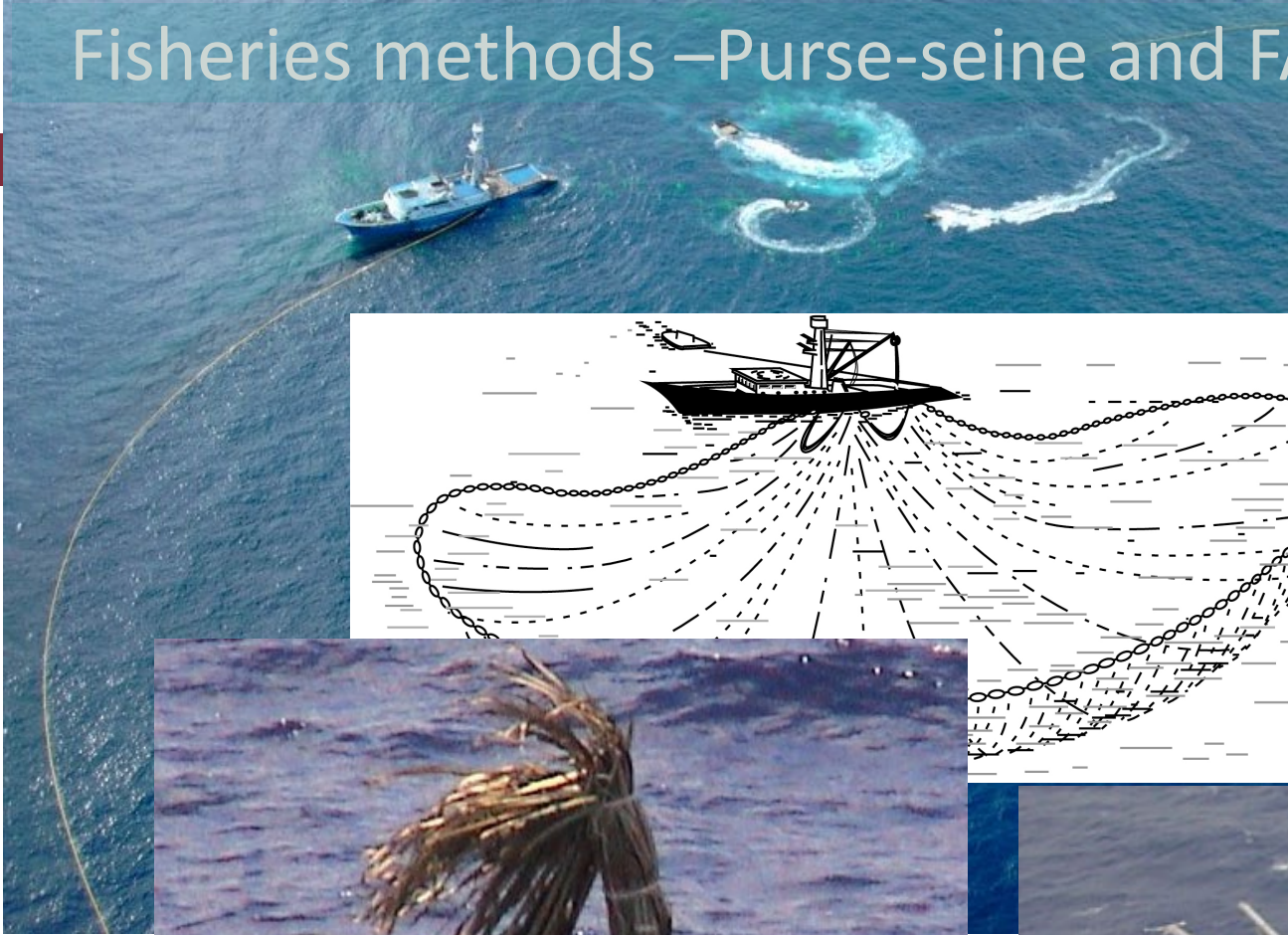


# Fisheries Longline





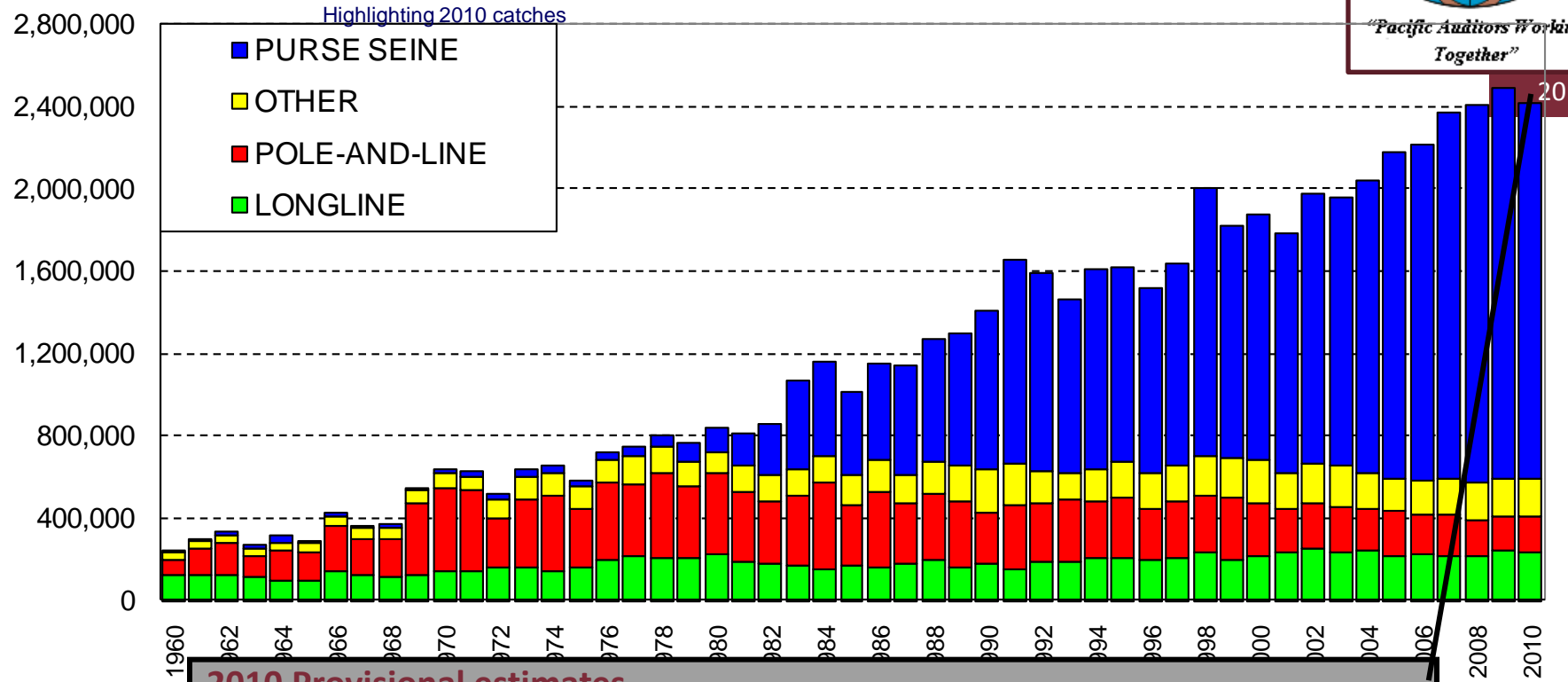
# Fisheries methods –Purse-seine and FADs





"Pacific Auditors Working Together"

# WCP-CA Tuna Catch by gear

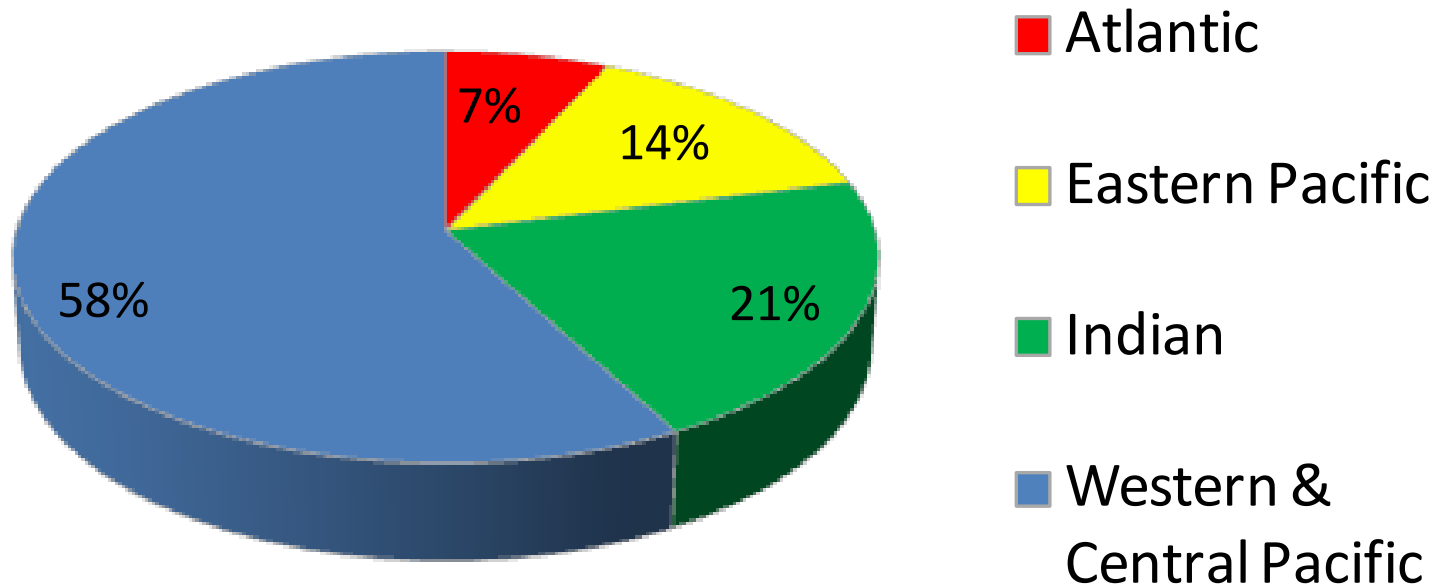


## 2010 Provisional estimates

- Total Catch – 2,414,994 mt (2<sup>nd</sup> highest, similar to 2008...)
- Purse seine – 1,820,844 mt (75% ; 3<sup>rd</sup> highest ...)
- Longline – 239,853 mt (10% ; stable )
- Pole-and-line – 171,604 mt (6% ; stable)
- Other – (7%)



## World Tuna Catches





## Big numbers...

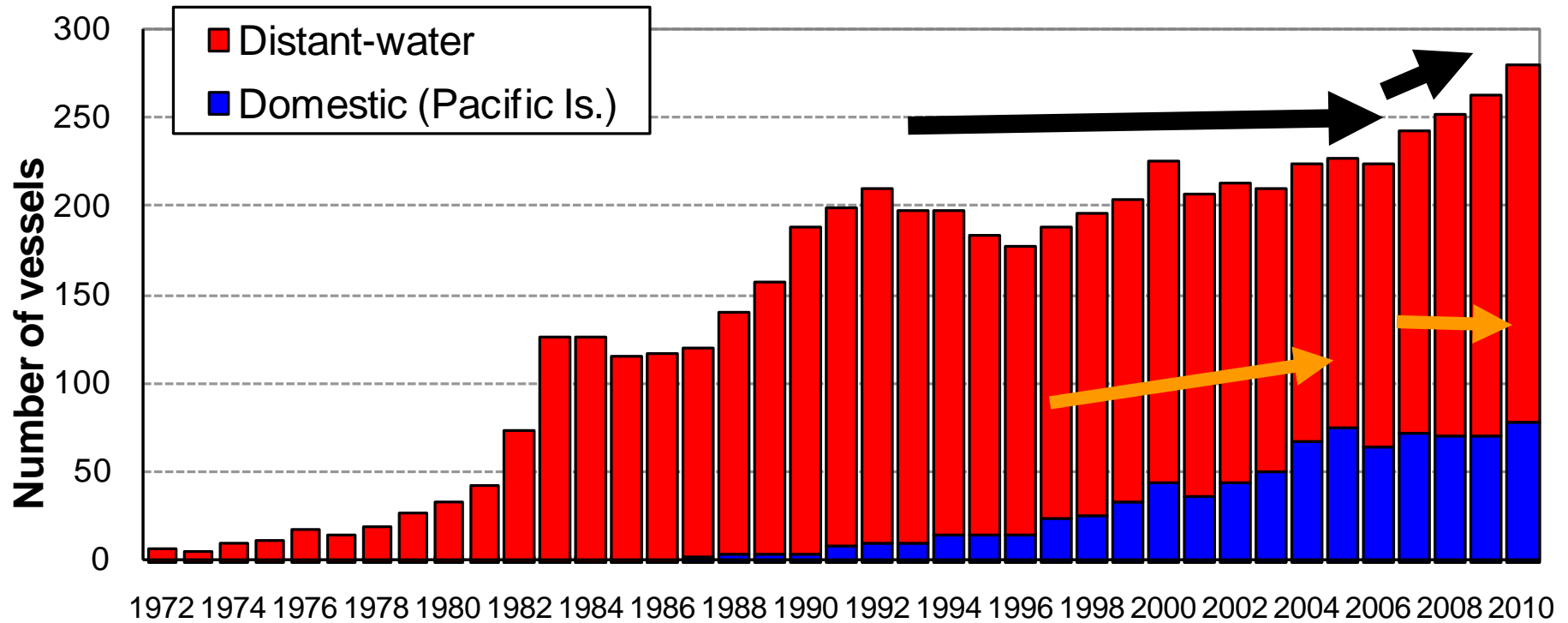
2.4 million tonnes of tuna caught in the Western and Central Pacific Ocean (WCPO) in 2010

75% of that taken by purse seiners

- Delivered value:
  - **Purse seine US \$2.480 billion**
  - **Longline US \$1.487 billion**
  - Not = value to Pacific Island Countries and Territories (PICTs)



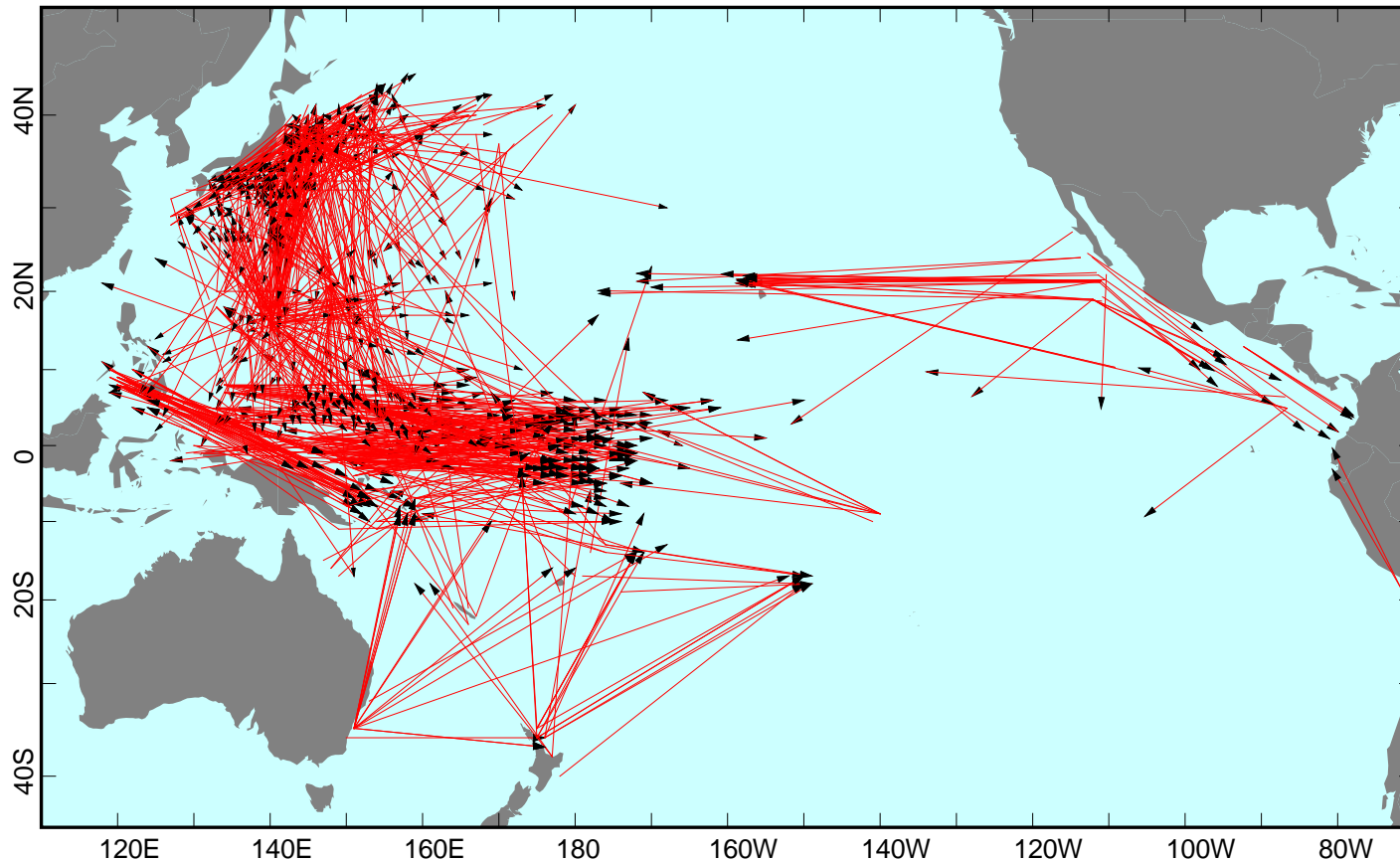
# Purse seine fishery - Number of vessels





## Tuna – highly mobile/migratory

Stock assessments and management must be done on a *regional*, and sometimes *ocean-wide* basis, not at *EEZ scale*







# Global status of tuna stocks

25

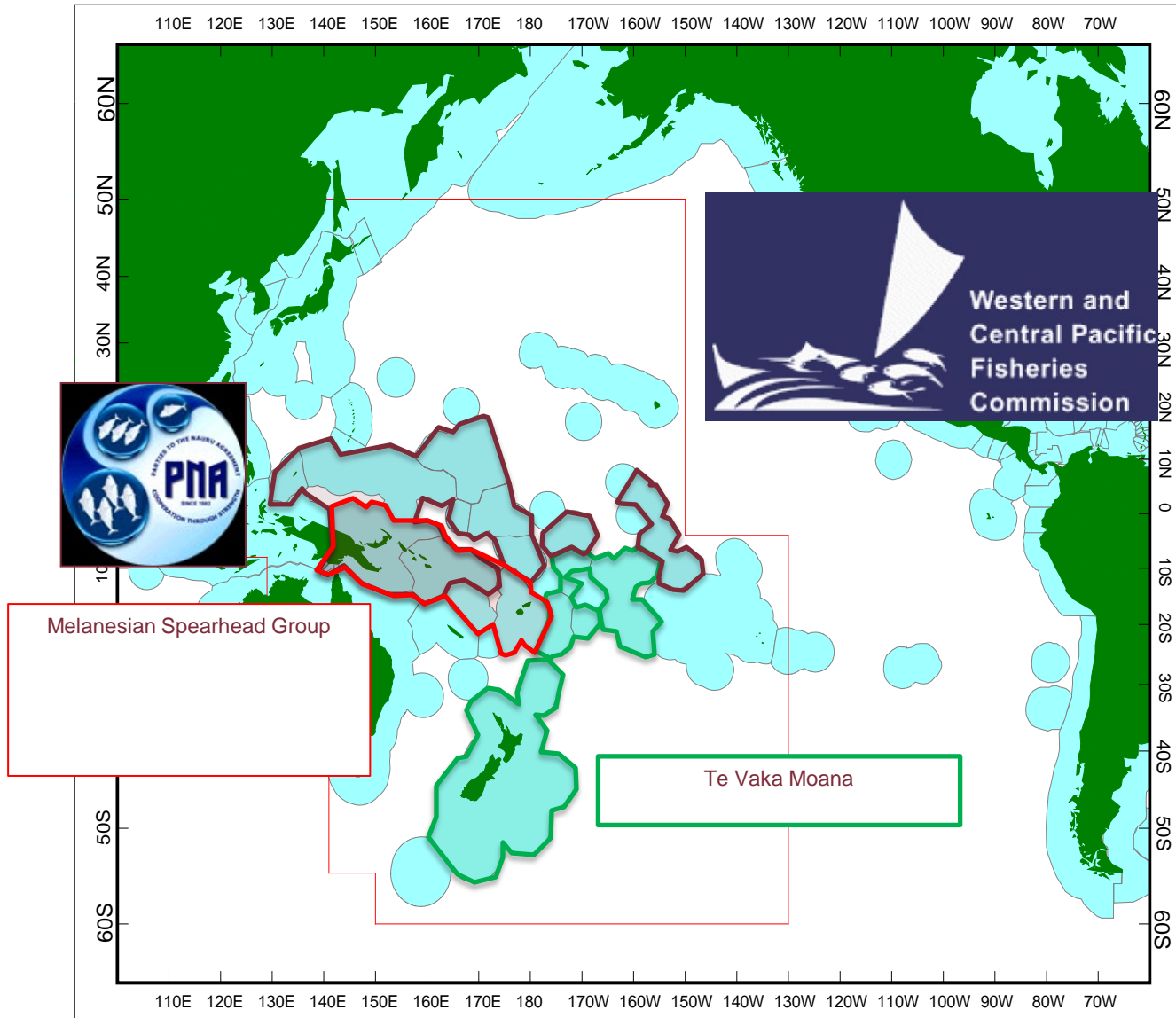
	W. Atlantic	E. Atlantic	Indian	E. Pacific	W. Pacific
Skipjack	Green	Green	Green	Green	Green
Yellowfin	Yellow	Yellow	Red	Yellow	Green
Bigeye	Yellow	Yellow	Green	Red	Yellow
	N. Atlantic	S. Atlantic	Indian	N. Pacific	S. Pacific
Albacore	Red	Yellow	Green	Yellow	Green

	Key
Red	Overfished and overfishing – rebuilding plan in place
Yellow	Overfished OR overfishing. CMMs needed
Green	Not overfished, nor is overfishing occurring

Source: Int. Seafood Sustainability Foundation



# Regional and sub-regional management



+ FFA Sub-committee on South Pacific tuna and billfish (SC-SPTBF)



## Challenges for the audit teams

27

- Complex regional & sub-regional arrangements – several players and agreements
- Good decisions require good data about fish stocks - some complexity in this information
- Information about licensing arrangements may be commercially sensitive – but should be available as part of auditing Govt revenue
- Audit underway – reporting meeting due to be held March 2012



# Gains under cooperative audit programme

28

## Features of success:

- 2 cooperative audits finished, 3<sup>rd</sup> underway
- Good support from A-Gs/heads of SAIs;
- Good support from donors/partners – ADB, IDI, PASAI and WGEA;
- Peer review approach used in planning and reporting meetings; and
- Good mix and spread of Pacific Island Countries, new participants for each audit
- Performance framework to measure capacity building in development – will involve a survey of SAIs and stakeholders



## Next RWGEA meeting

- Meets every 2 years
- Next meeting Sydney 2012
- Focus on cooperation, recent audits, WGEA work programme
- Survey of PASAI members on topics for future cooperative audits – on environmental topics or other?



Muchas gracias por su atención!  
Thank you for your attention!