

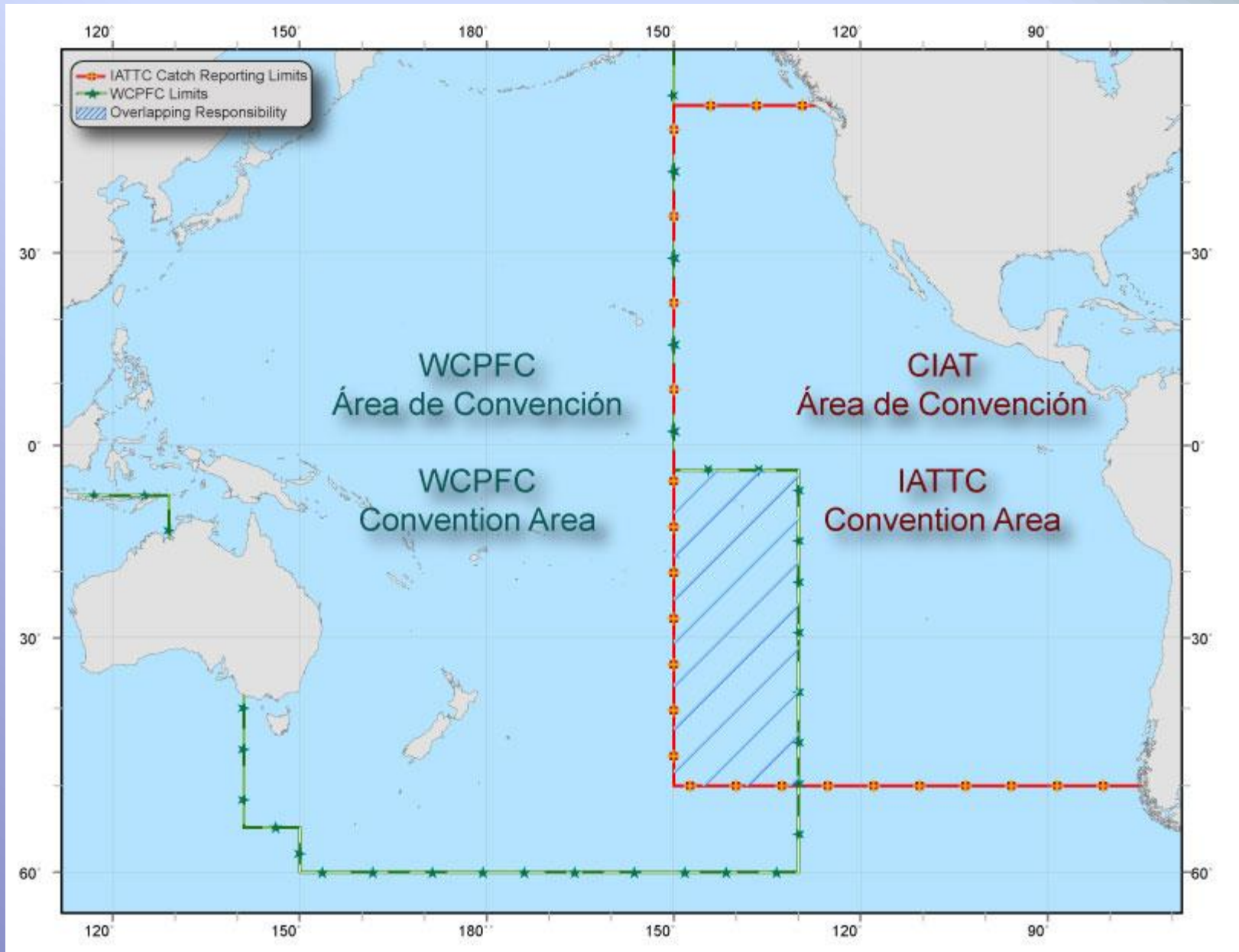
# Inter-American Tropical Tuna Commission

Technical workshop on global harmonization of  
Tuna fisheries statistics  
19-22 March, 2018  
FAO HQ, Rome

Nick Vogel – IATTC Data manager  
[nvogel@iattc.org](mailto:nvogel@iattc.org)

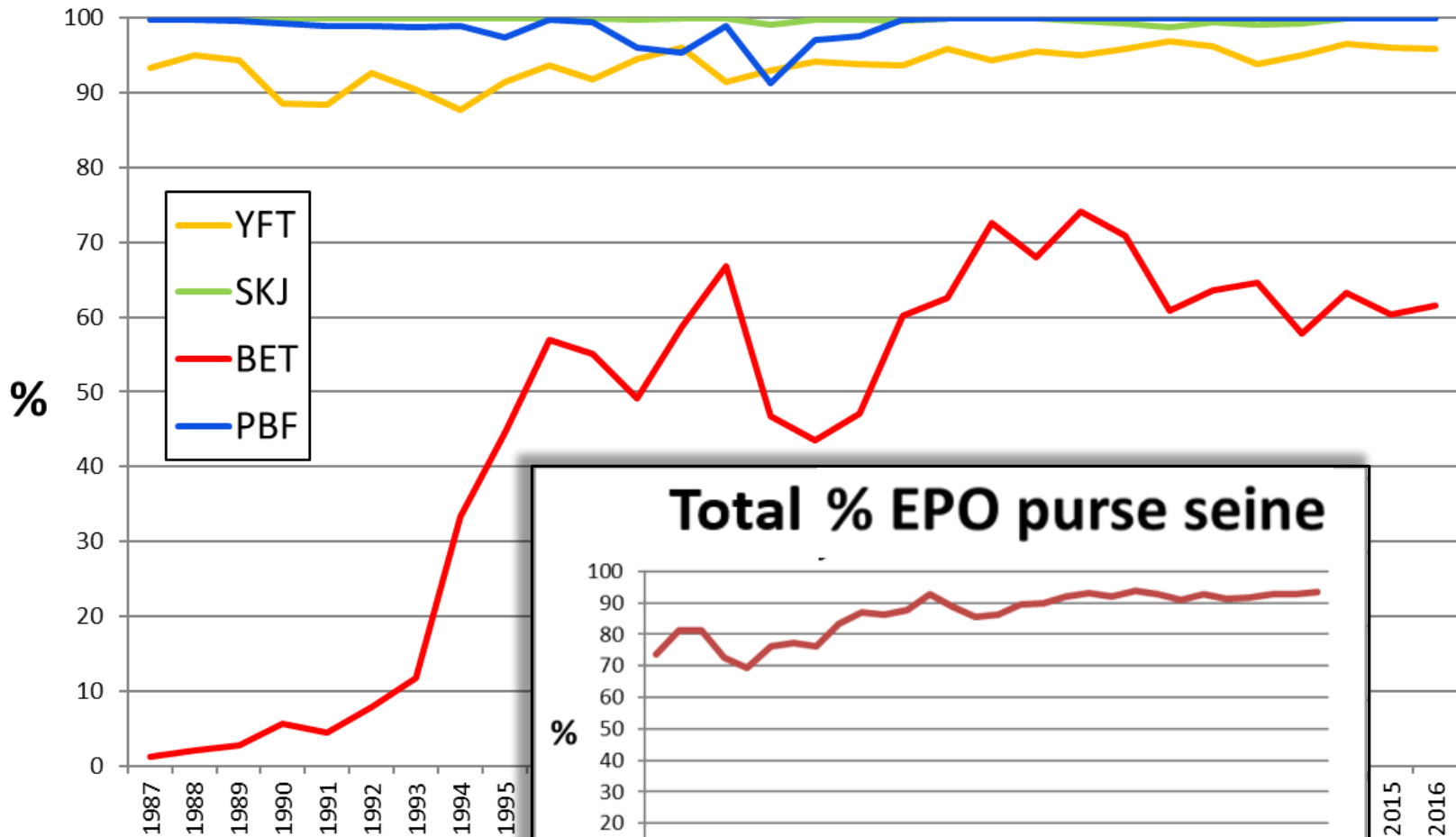


# Inter-American Tropical Tuna Commission

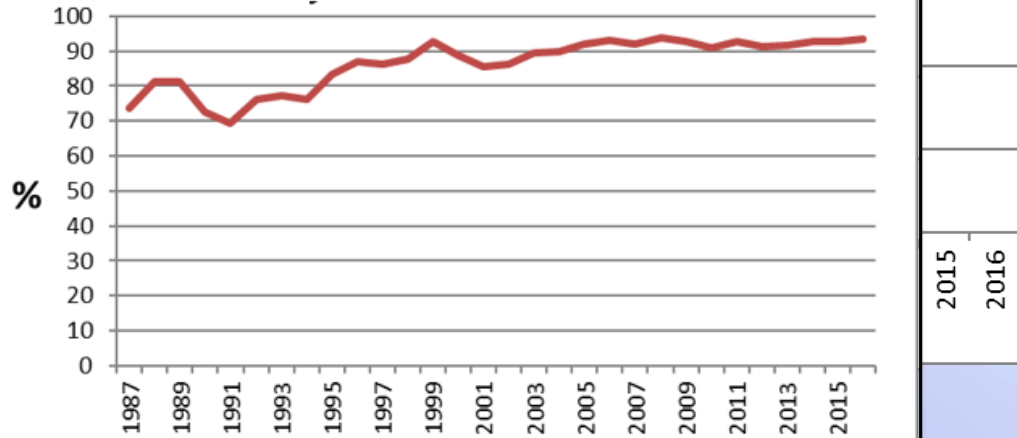


# Inter-American Tropical Tuna Commission

## % EPO purse seine catch



## Total % EPO purse seine



# IATTC offices



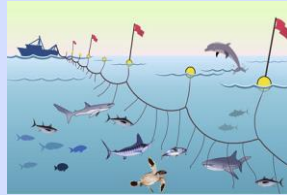
# IATTC data sources



## *Purse seine*

### ➤ Data sources

- Fishing vessel logbooks (1958 >)
- Cannery unloading data (1958 >)
- Field office tuna sampling (1970 >)
- Onboard observer program (1979 >)
  - IATTC
  - National Observer programs



## *Industrial longline*

### ➤ Data sources

- Country submissions
  - EPO aggregated catch and effort
  - C&E year/month/5x5° cell
- LL observer program
  - Established 2014
  - 5% coverage goal
- Transshipment observer program
  - EPO high seas transshipments



## *Bait boat*

### ➤ Data sources

- Fishing vessel logbooks (1931 >)
- Cannery unloading data (1958 >)
- Field office tuna sampling (1970 >)

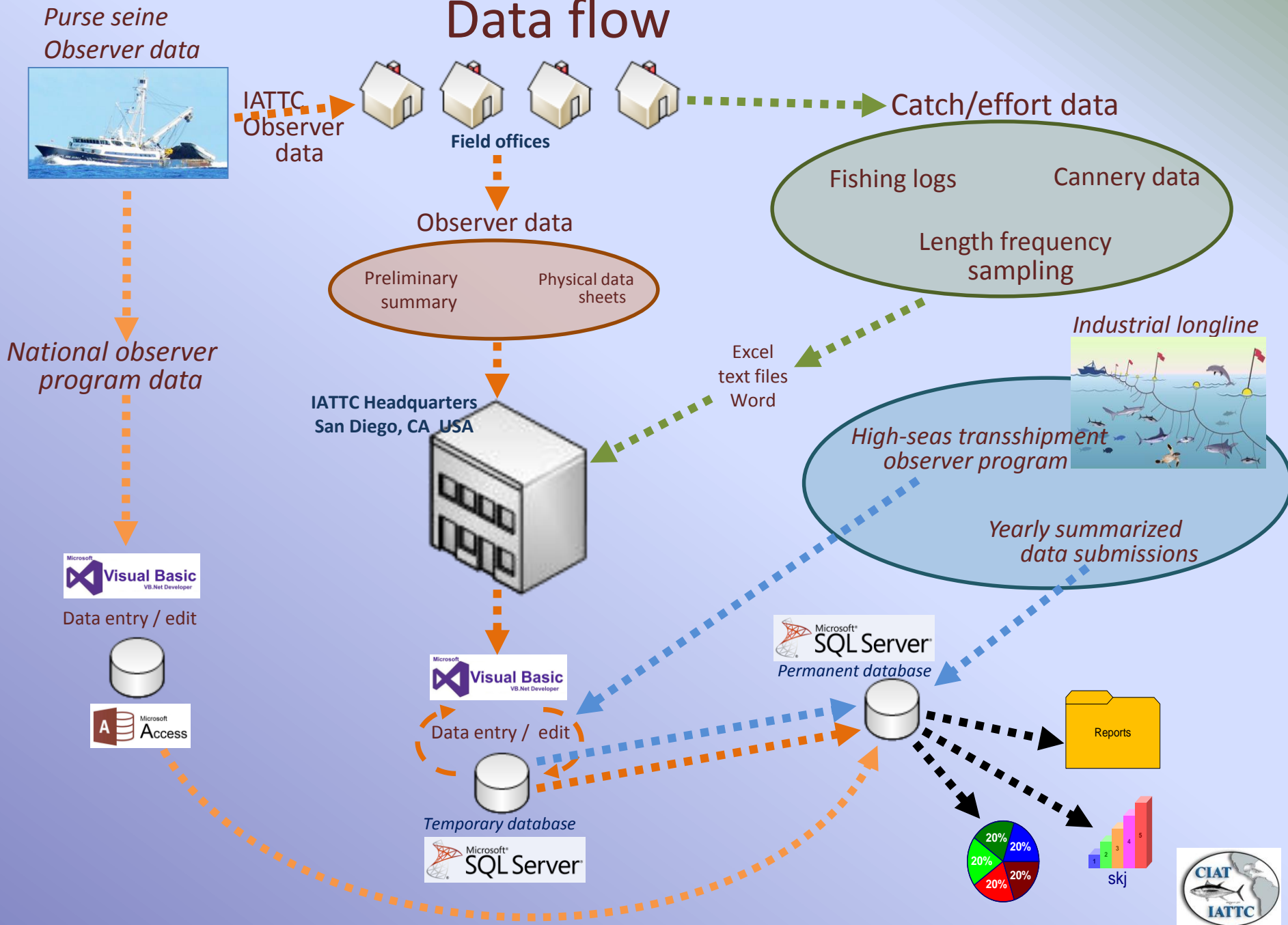


## *Artisanal gear*

### ➤ Data sources

- Collected at national level

# Data flow



# Harmonization of reference data

## Purse seine observer data

- High resolution
  - Continuous monitoring of vessel activity: search, run, drift, sets
  - Position every 2 hours
  - Detailed catch and bycatch data
  - Flexibility in reporting – data may be grouped as needed

No. DEL CRUCERO / CRUISE NO. 150000		INFORME DIARIO DAILY ACTIVITY RECORD															PAGINA PAGE 3	
FECHA DATE	SUCESO EVENT	HORA DEL SUCESO TIME OF EVENT	POSICION AL MOMENTO DEL SUCESO POSITION AT TIME OF EVENT		NO. OBSERVADOR OBSERVED BY	ORIENTACION BUQUE BEARING TOWARD SHIP	DISTANCIA DISTANCE	NO. OBSERVACION SIGHT NUMBER	VELOCIDAD VELOCITY	VELOCIDAD BUQUE VESSEL SPEED	TEMP. DEL AGUA WATER TEMP	TIEMPO WEATHER		CAPTURA (TON. METRICAS) CATCH (METRIC TONS)		TRAP SPECIES		
			LATITUDE N S	LONGITUDE W E								WIND DIRECTION	WIND SPEED	YFT	SKJ			
3/30	LOG	0717			STK	030	00:5											
	DRIFT	0727																
	LOGSET	0737	2130 N	11225 W						64.1				Y 2	085	004		
	ENDSET	1012														009		
	SEARCH	Y 1013			P3				12.5		2	2	9					
	SEARCH	N 1215	2125 N	11206 W	P1				12.5		1	1	10					
	SEARCH	Y 1230			P3				12.5		1	1	10					
	DRIFT	1310																
	SEARCH	Y 1356			P3				12.4		2	1	10					
	SEARCH	Y 1415	2100 N	11159 W	P3				12.0	64.3	3	1	8					
	LOG	1502			S20	345	1:5											
	DRIFT	1509																
	LOGSET	1522	2058 N	11159 W						64.5				Y 3	043	002 FRB EF		
	MAMMAL	1530	2058 N	11159 W	OTH													
	ENDSET	1812														002 BRT		

DATA REVIEWED:  @ Drift (1310) stops to test speedboats

① Mammal (1530) observer with x4 binoculars

Note: Discarded skipjack included in the catch total

DATA REVIEWED BY: IATTC TUNA DIVISION / IATTC/DIR 12/26/04

**Inter-American Tropical Tuna Commission FLOTSPAN INFORMATION RECORD (FIR)**

**SHARK RECORD**

**SEA TURTLE RECORD**



# Harmonization of reference data

## ➤ Industrial longline data

- Country submissions
  - Aggregated catch and effort
  - C&E year/month/5x5° cell
  - No. individuals, weight, both
  - Effort as number of hooks
- Size measurements
  - Length, weight, both
  - Varying cell size aggregation
    - 1x1°, 5x5° and 5x10°
  - Varying time aggregation
    - Month and quarter
  - Varying bin size
    - 1, 2 and 5 cm/kg

## ➤ Industrial longline observer data

- LL observer program
  - Established 2013 – IATTC Resolution C-11-08
  - 5% coverage goal
- To date IATTC receives summarized reports from most countries

## ➤ Transshipment observer program

- Established 2009
- Covers high-seas transshipments in the EPO
- Transshipment declaration data





# Harmonization of reference data

## ➤ Artisanal gear

- Small longline skiffs
- Limited data collected
  - Known to catch small % of EPO tuna
  - Substantial catch of sharks, billfish, large fish (dorado, etc.)
- IATTC collaboration with countries
  - Shark landings



