



# **Atlantic Ocean Tropical Tuna Tagging Programme**

*Tag recovery programs: overview,  
outcomes and recommendations*

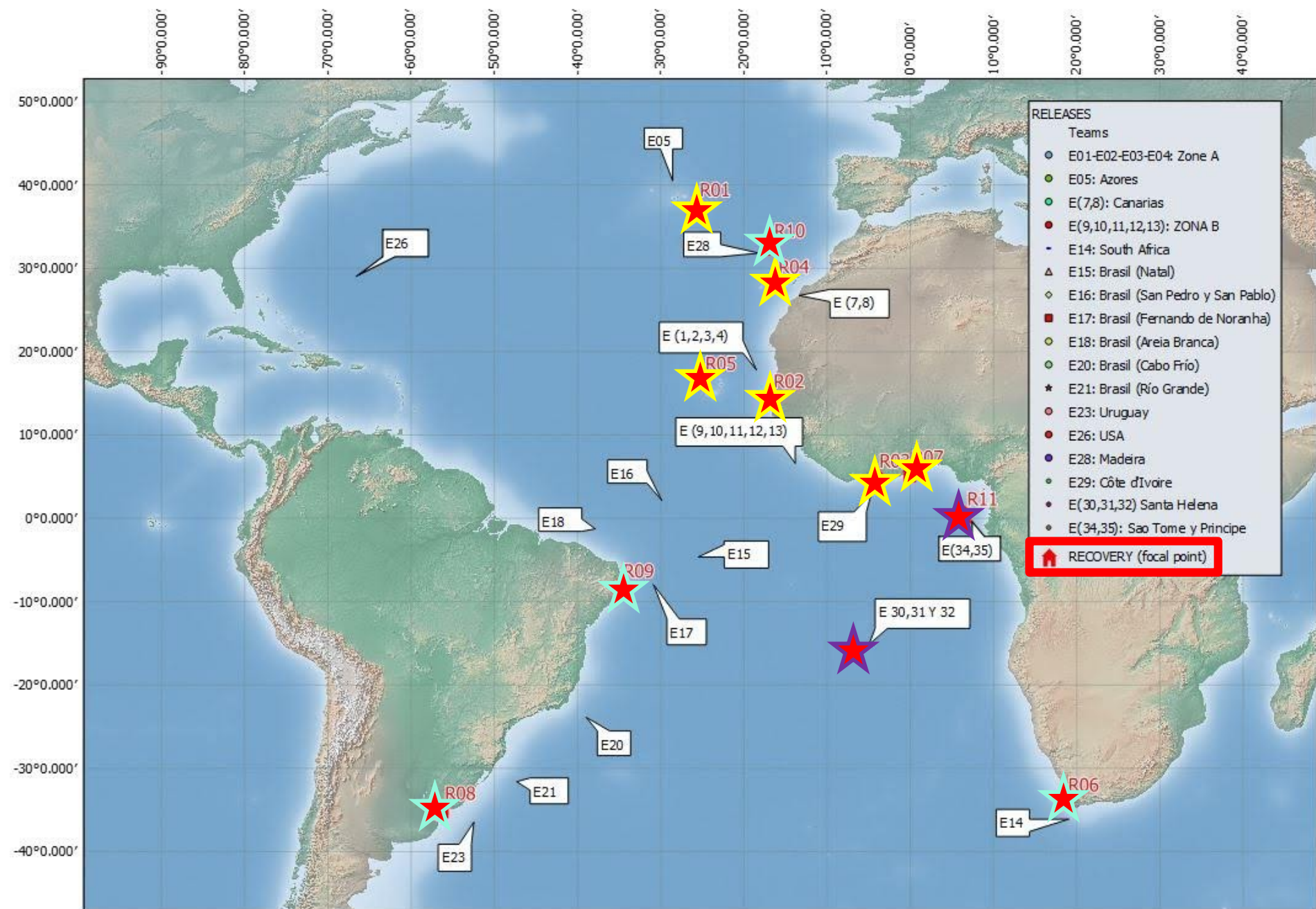
Lisa Ailloud

***ICCAT Secretariat***

IATTC Tagging Workshop

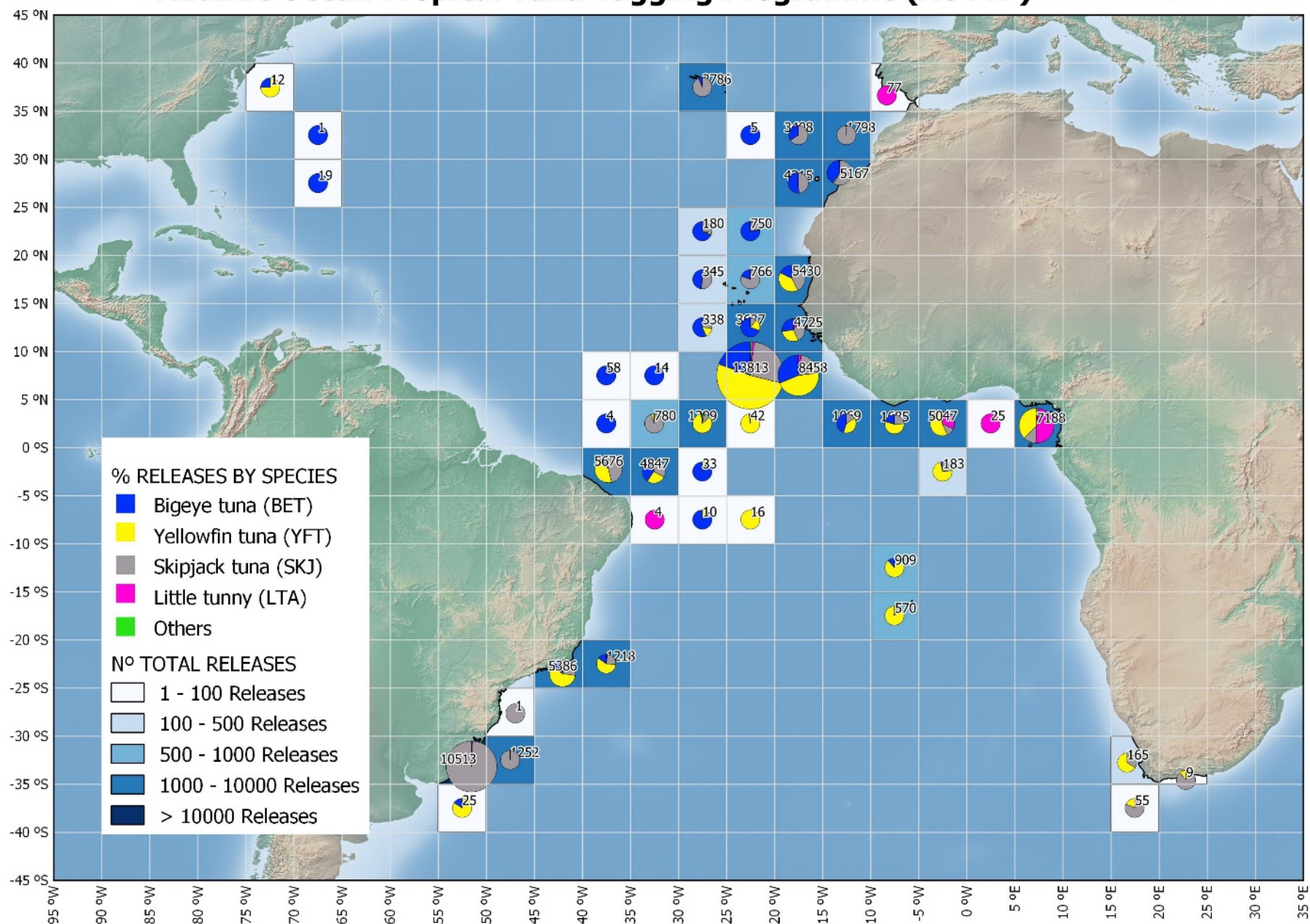
La Jolla, California • 28-30 January 2019

**ICCAT CICTA CICAA**





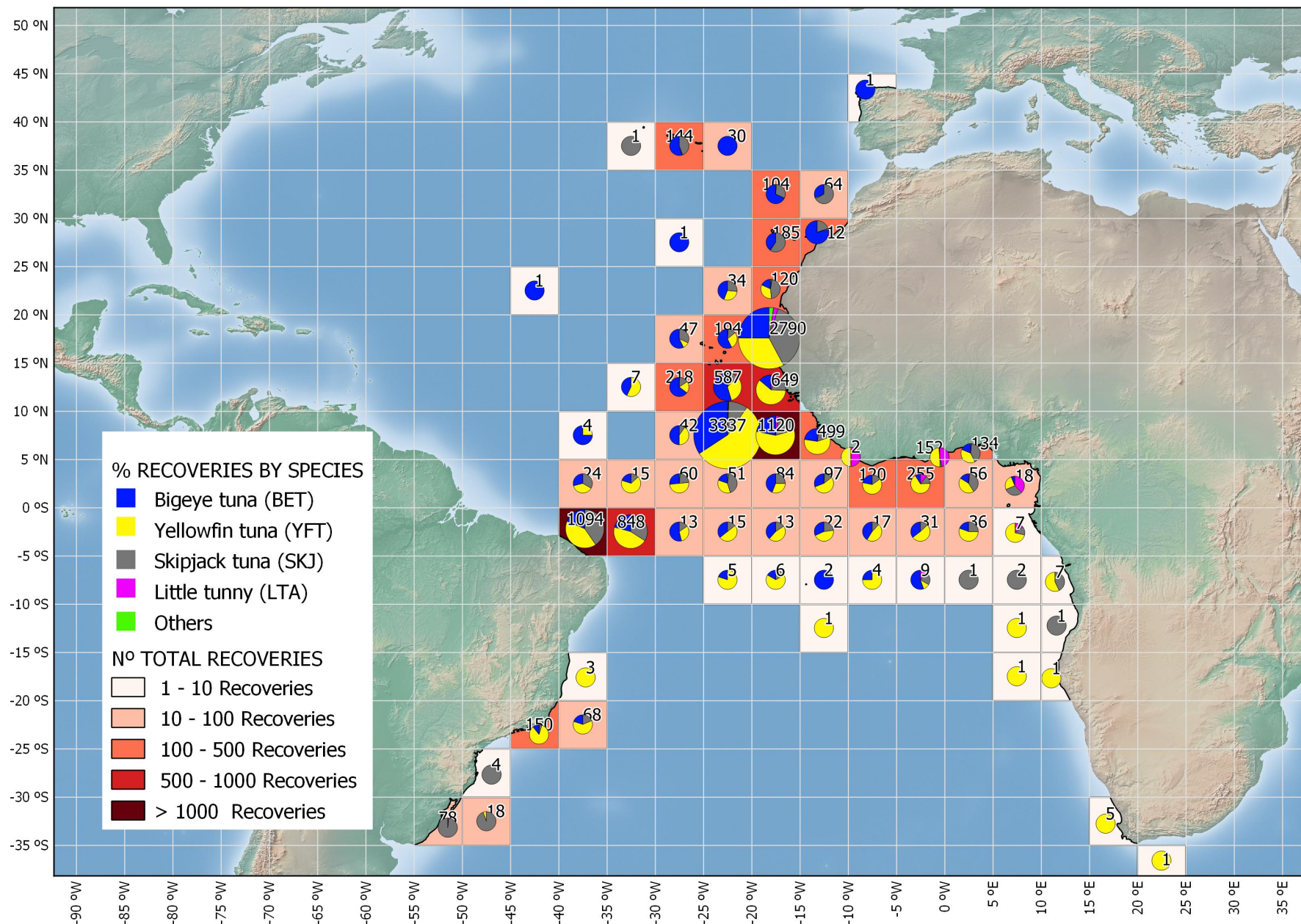
# Atlantic Ocean Tropical Tuna Tagging Programme (AOTTP) 31-December-2018





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# Tag Recovery Offices

- Autonomous teams
  - Data & finances
  - Multiple people monitoring docks
  - Small boat access transshipments
  - Information to stevedores and observers





# Tag Recovery Offices

- Awareness campaigns
  - Publicity (posters, radio, newspapers)
  - Travel beyond the major port
  - Workshops
  - Fishing associations
  - Fish processors, canneries, etc.





# Tag Recovery Offices

- Reward scheme
  - Conventional (10 euros)
  - OTC marked (10 euros + purchase fish)
  - Electronics (500 euros + purchase fish)
  - Lottery (500 euros, 1 per species/year)
  - Tshirts, caps
  - Phone cards





# Tag Recovery – data quality

## Record quality of

- Date (crucial for OTC validation work)
- Location
- Length
- Species

## Purse seiners

- Multiple date/locations
- Request access to logbooks
- Weighted average?







# Tag recovery – recommendations

- Set up recovery and awareness teams *before* you begin tagging
- Close collaboration between local managers and scientist
- Ownership of the program by stakeholders (fishermen, boat owners, consumers, etc.)
- Considerable efforts must be made to publicise project





Nom agent de récupération		ADE PATRICK		Port de débarquement		ARBITAN	
Code marque		ATP0146576		Code 2 marque (1 <sup>er</sup> et 2 <sup>nd</sup> )		ATP0146577	
Code marque électronique		ATP0146577		Longueur (cm)		66	
Type de récupérateur		UNKN (DOCKER)		Date de capture		12/01/2019	
Nom du récupérateur		MOUSSA FOFANA		Heure (GMT)		12 h 30 min	
Contact du récupérateur		08 82 70 26		Longitude		92.3 degré 15 min W	
				Latitude		07 degré 08 min N	
				Espèce		ST	
				Condition du poisson		P	
Si échantillon biologique		Sexe (F ou M)		Information à la récupération		Lieu	
		Poids (kg)				Date	
						N° de la OJVE / CALE	
						Nom du navire	
						UNLO	
						16/01/19	
						9T	
						VIA EUROS	

Notes:

Différentiel à utiliser pour la collecte :

Type de récupérateur ---- (UNKN=Inconnu, OBSR=Observateur, SCIE=Scientifique, OWNR=Armateur, SKIP=Capitaine)

Condition du poisson ---- (U=Inconnu, P=Parfait, pas de dommage visible, M=Modéré, Dommage superficiel, S=Sévere, peut affecter la survie)

Type de récupération ---- (UNKN=Inconnu, VESS=A bord du navire, CACL=Conserverie, cuisine, CACS=En conserve, trouvé par un consommateur)

LO= Au débarquement, TRAN=Pendant la réexpédition, RERC=pendant la capture et la deuxième relâche, FISM=Marché de poisson, TAXD=Taxidermiste, SAKH=Fumoir







# Tag recovery – recommendations

- Explore data sent as exhaustively as possible as soon as they arrive
- Plotting species composition, relative recovery rates (red vs yellow tags), growth, and unusually high/low recovery rates by tagging event/day can all indicate problems.






# Tag recovery – recommendations



- Attractive rewards - different amounts for different data?
  - For tag number
  - For tag number, date, location, size
  - For proof of fish or photo of tag in fish and all information (length, location, size)





A photograph taken from the deck of a boat, looking out over the ocean at sunset. The sky is filled with dramatic, colorful clouds in shades of orange, red, and yellow, with the sun low on the horizon. The ocean is dark and choppy. In the foreground, there are blue plastic containers and some equipment on the boat deck.

**Thank you! ...questions?**

**Photos courtesy of our tagging and recovery teams.**