

Pacific Community Communauté du Pacifique

# Data Gaps in the WCPFC Tuna Fisheries

STATISTICS WORKING GROUP

"SCIENTIFIC DATA AVAILABLE TO THE WCPFC" (WCPFC-SC14-2018 / ST WP-01)

Fourteenth Regular Session of the Scientific Committee (SC 14) 8-16 August 2018 Busan, Republic of Korea

## **Presentation Outline**



#### Recent provisions of data and main data gaps...

- Annual catch estimates
- Aggregate catch/effort data
- Operational catch/effort data
- Size data
- ROP (Observer) Data (SC14 ST IP-02)

Recent developments in data dissemination...

#### SC14 to consider...

- 1. Conversion Factors (SC13 recommendations; SC14 ST WP-05)
- 2. Charter notifications
- 3. Estimates of Discards/Releases
- 4. Cannery Data (SC14 ST IP-03)



# Recent provisions of data...



## ANNUAL CATCH ESTIMATES

(see Tables 1 and 2 in ST WP-1)

## 2017 Annual catch estimates

- o All (31 CCMs = 100%) had provided 2017 estimates by deadline
- o Some CCMs provided provisional estimates, now updated (e.g. Indo, Vietnam, Philippines)
- No major (binding) gaps listed for 2017 catch estimates
- <u>Estimates of discards</u> mandatory for 2017 and have been provided... (no evaluation of quality/coverage ...)

## Aggregate Catch/Effort data



(see Tables 3 and 4 in ST WP-1)

### 2017 provisions resolved a number of recently-reported gaps

- Catch in number now provided for EU LL fleet
- Landings and logbook data provisions from Indonesia and Vietnam contribute to more representative aggregate data

Data gaps (some non-binding)...

- One data gap for 2017 (US SPAC Troll) <u>resolved as at 3<sup>rd</sup> August</u>
- **2017 LONGLINE data** : low coverage for latter months by some fleets ?
- Reporting of shark catch in aggregate data by Indonesia (only major gap)

COUNTRY / ENTITY	GEAR TYPE	Date Submitted	DATA-GAP Notes	General NOTE	IER-SCORING EVALUATION LEVEL
Australia	LL, PL, PS, TR	28 Apr 2016		C,I	III
Belize	LL	30 Apr 2016		E	III
Canada	TR	29 Apr 2016			III
China	LL (DWFN)	30 Apr 2016		Р	III
China	PS	30 Apr 2016		Р	III
Cook Islands	LL, TR	30 Apr 2016		J, I, O	III
Ecuador	PS	09 Jun 2016		С	III
El Salvador	PS	26 Apr 2016		С	III
Federated States of Micronesia	LL, PS	30 Apr 2016		J, O	III

#### Please refer to the GENERAL Notes column in Tables 3 and 4



## **Operational CATCH/EFFORT Data**

(see Tables 5 and 6)

# Significant progress over recent year ...



- Provision of full **2017 operational data** for Chinese Taipei LL and PS fleets (first time)
- Continued provisions of <u>operational data</u> for 2017 from Japan, Korea, China, Indonesia, Vietnam

# Main data gaps ...

- 2017 data gap for 2017 (US SPAC Troll) resolved as at 3rd August
- 2017 Some required fields are missing from Indonesia (binding)
- 2017 Shark species catch not provided by Indonesia (binding)
- Lack of historical operational data for Asian fleets
- Low coverage of operational data for some fleets
- Reliability of key shark species reporting (non-binding)

Please refer to the Notes and COVERAGE column in Table 5							TIER-SCORING EVALUATION LEVEL	
	FLAG STATE / ENTITY	GEAR(s)	Date Submitted	DATA-GAP Notes	General NOTES	KEY ATTRIBUTES	COVERAGE	
	Australia	LL, PL, PS, TR	28 Apr 2016		E	III	100%	
	Belize	LL	30 Apr 2016		А	III	N/A	



# ROP (observer) data



#### **Refer to SC14 ST IP-02 – Status of Observer data management**

Recent developments with OBSERVER DATA SUBMISSIONS include...

- Increase in observer data from E-Monitoring (Table 4)
- Continued provision of observer data for distant-water LL fleets
- Significant lags in provision of 2017 PS data ? (Figure 2; next slide)
- Challenges loading non-standard observer data significant work
- CCMs notifying of 2017 observer coverage, but data yet to be provided..

Loading "non-standard" longline observer data --

 Can CCMs consider using the <u>WCPFC ER Observer Data Standards</u> as the basis for providing their data ... [SPC can assist where possible]



## **ISSUE : Monthly provision of PS observer data**









# Check the status of your Scientific data provisions SC14 ST WP-1 paper – Data Gaps

- Tables 1 and 2– Annual catch estimates for 2016 and 2017
- Tables 3 and 4– Aggregated catch/effort data for 2016 and 2017
- Tables 5 and 6– Operational catch/effort data for 2016 and 2017
- Table 7– Size data for 2017

**<u>SC14 ST IP-02</u>** – ROP (observer) data not yet provided

**Review the DATA-GAP Notes in each table for your fleets** 

Please see me if there are any issues.

Recent developments in data dissemination ...



# Bycatch Data Exchange Protocol (BDEP) (Section 4.1)

- Most recent update of BDEP data (up to 2017 inclusive) available
- BDEP data download -- <u>https://www.wcpfc.int/node/29966</u>
- Higher coverage for years 2015-2017 more data provided/loaded
- Refer to SC14 EB-IP-10 Fitzsimmons et al. (2018) for latest developments

# WCPFC public domain data (Section 4.2)

- New data sets available at <u>https://www.wcpfc.int/node/464</u>
  - Aggregated catch/effort data, stratified by year, quarter, 5°x5° latitude/longitude cells and flag, with the WCPFC three-vessel rule applied;
  - Aggregated catch/effort data, stratified by year, 5°x5° latitude/longitude cells and flag, with the WCPFC three-vessel rule applied.



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# SC14 to consider ...

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# Enhancing Conversion Factor data



Covered in <u>SC14 ST WP-05 – Requirements to enhance Conversion Factor data</u>

- Responds to four SC13 recommendations (Section 1 this a Data Gap !)
- Provides indication of SOURCES of Conversion Factor data (Section 2)
- Provides summary of Conversion Factor data, highlighting the gaps (ANNEX 2)
  - ... but acknowledges tables yet to be updated, e.g. recent key shark conv. factors listed in Clarke et al. (2015)
- Provides a list of proposed work under Project 90 (Section 3 and ANNEX 3)

#### Seeks feedback from SC14 (Section 4)

- Is the list of proposed work complete and appropriate ?
- What order of priority should be assigned to items in the list ?
- Suggests an SC14 small working group (ISG)
- Please see authors for any revisions/ further information



Aims to recommend Project 90 (review and enhance ANNEX 3)

# SC14 to consider ...



- 1. Enhancing Conversion Factor data (SC14 ST WP-05)
- 2. Charter Notification issue (SC13 ST WP-01 -- Section 2.3)
- 3. Estimates of Discards/Release (SC13 ST WP-01 -- Section 2.4)
  - [Suggestions, not recommendations...]
  - Differentiation between live and dead releases on logbooks to assist in responding to CMM reporting obligations (key shark species)

3. CCMs shall <u>estimate</u>, through data collected from observer programs and other means, <u>the</u> <u>number of releases of silky shark</u> caught in the Convention Area, <u>including the status upon</u> <u>release (dead or alive)</u> ...

- Annual estimates of discards <u>in number</u> for longline fishery (key shark species)
- Reconciliation of discards between annual catch estimates and aggregate/operational data
- 4. Update on Cannery data (SC14 ST IP-03)
  - Recognise the potential value of cannery data
  - Future consideration of minimum data fields for expanding coverage to other processors