ICCAT SCRS Report Panel 1- Tropical tunas

2016







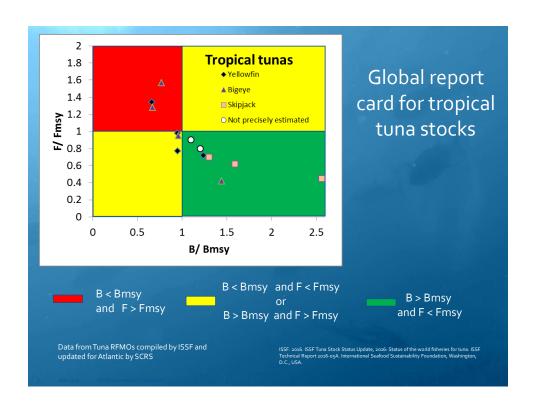
Nov 2016 ICCAT Commission Vila Mou

2016 Report of the SCRS tropical tunas

- Background and Scope
 - Global report card for tropical tunas
 - Report card for Atlantic stocks
 - Stock status summaries YFT, BET and SKJ

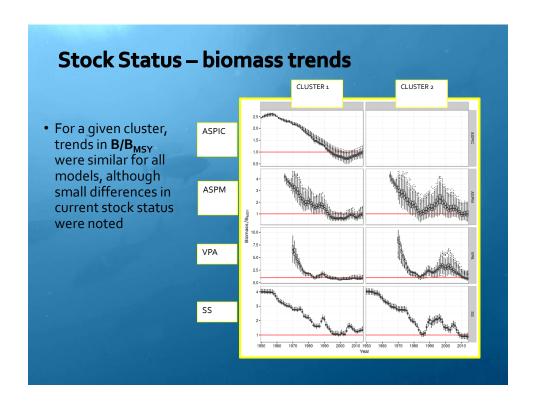
Activities in 2016

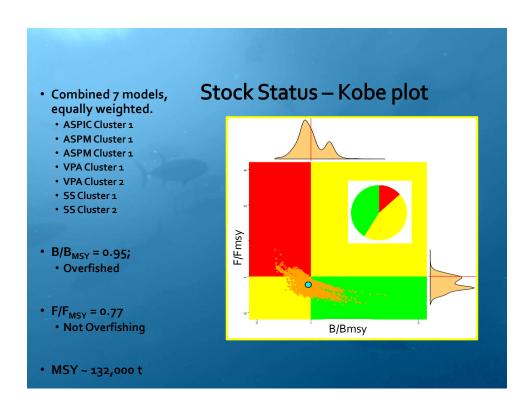
- AOTTP
- Responses to Commission Requests
- Additional recommendations and workplan

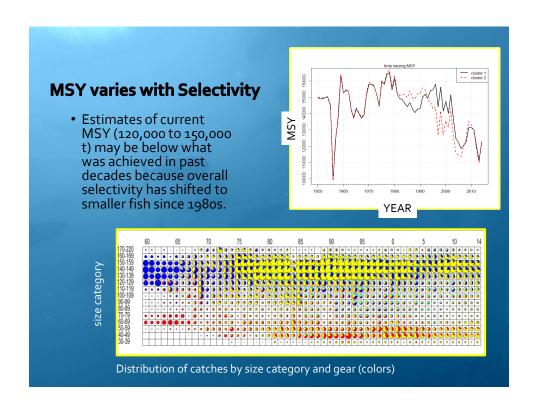


| Species | Stock | LastSA | Next SA | | Most likely | Possibly |
|---------|-------|--------|---------|-----|-------------|----------|
| YFT | | 2016 | | 2.7 | | |
| BET | | 2015 | 2018 | | | |
| SKJ | Е | 2014 | 2019 | | | |
| SKJ | W | 2014 | 2019 | | | |
| | | | | | | |
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| | | | | | | |

2016 YFT assessment **Yellowfin tuna Fisheries Indicators** • 3 Major Gears (PS, BB, LL) • Total Landings increased to 194,000 t by 1990, then decreased by nearly 50% to 109,810 t in 2015 • Since 2012, TAC = 110,000 t YFT-Task 1 **Recent Landings Trends** (Relative to 1990) 250,000 120% 200.000 100% Percent of 1990 (t) 150,000 100,000 60% Longline Other surf. 40% Longline 50,000 20% ■ Bait boat 'are 'are 'are 'ay, 'are 'are 'are 'are







Management Recommendations

• Maintaining the current TAC of 110,000 t maintains healthy stock status through 2024 with >68% probability, increasing to 97% by 2024.

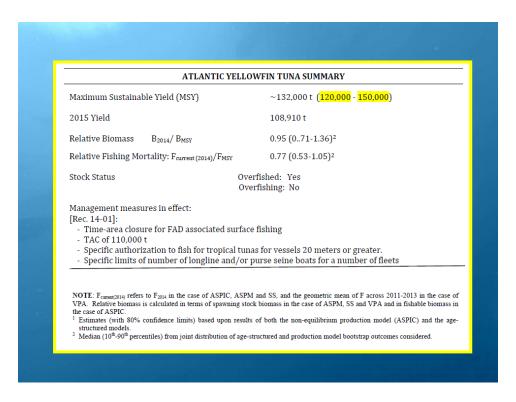
Joint Probability that $\mathsf{B}{>}\mathsf{B}_{\mathsf{MSY}}$ and $\mathsf{F}{<}\mathsf{F}_{\mathsf{MSY}}$

| TAC | 2017 | 2018 | 2019 | 2020 | 2021 | 2022 | 2023 | 2024 |
|---------|------|------|------|------|------|------|------|------|
| 60,000 | 75 | 91 | 99 | 99 | 99 | 99 | 100 | 100 |
| 70,000 | 74 | 87 | 97 | 99 | 99 | 99 | 99 | 99 |
| 80,000 | 73 | 86 | 96 | 99 | 99 | 99 | 99 | 99 |
| 90,000 | 71 | 82 | 91 | 97 | 99 | 99 | 99 | 99 |
| 100,000 | 70 | 80 | 89 | 92 | 96 | 97 | 99 | 99 |
| 110,000 | 68 | 78 | 85 | 90 | 92 | 95 | 96 | 97 |
| 120,000 | 65 | 73 | 79 | 78 | 79 | 80 | 82 | 82 |
| 130,000 | 57 | 59 | 61 | 61 | 57 | 54 | 50 | 48 |
| 140,000 | 45 | 44 | 38 | 33 | 31 | 31 | 31 | 30 |
| 150,000 | 31 | 24 | 21 | 20 | 19 | 20 | 20 | 20 |

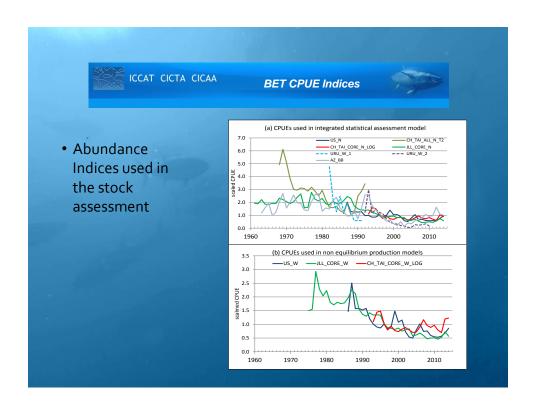
Current TAC

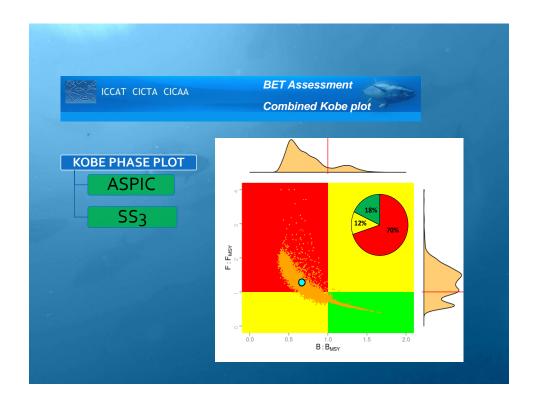
Effect of Current Regulations

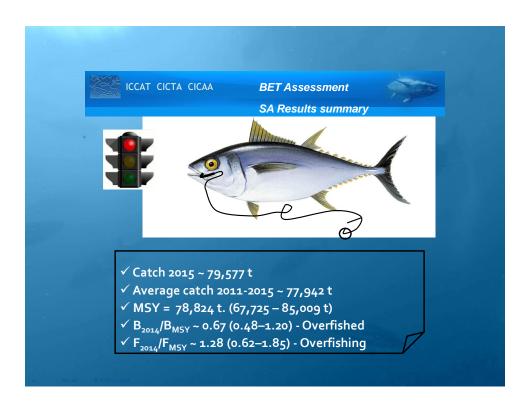
- The area-time closure [Rec. 14-01] was evaluated in 2015. The Committee concluded that any reduction in YFT mortality was minimal, largely due to the redistribution of effort into areas adjacent to the moratorium area.
- The anticipated effect of the moratorium described in Rec. 15-01 was estimated in 2016 (see Response to the Commission) and will be reevaluated when data becomes available.
- Rec. 14-01 also implemented a TAC of 110,000 t for 2012 and subsequent years. The overall catches in 2012 (104,500 t), 2013 (97,300 t) and 2014 (97,000 t) were lower than this TAC, but the 2015 estimates are near this level (108,910 t).

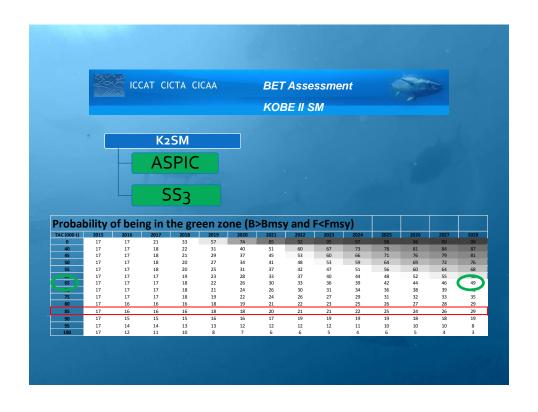


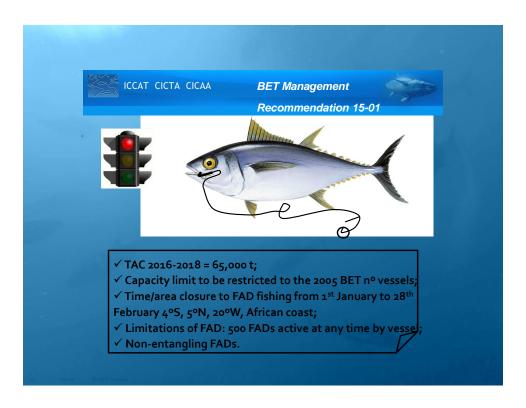








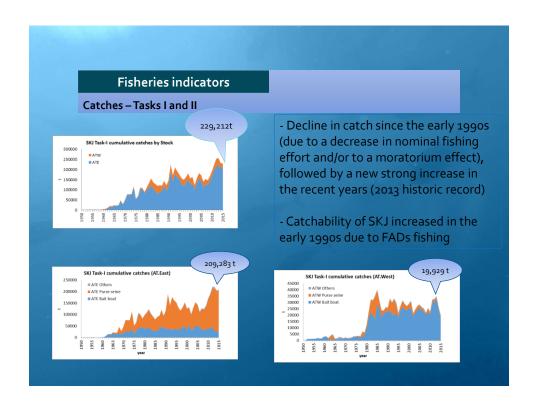


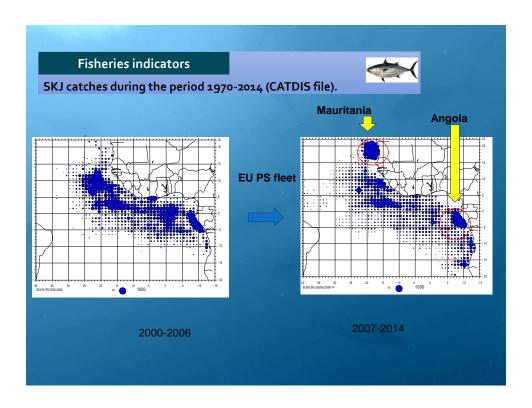


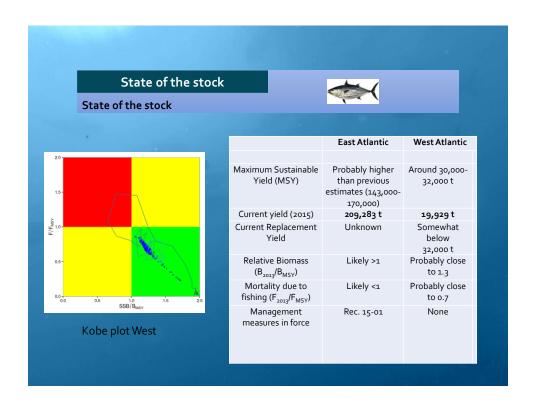
Bigeye tuna OVERVIEW

- Current TAC is 65,000 t. for 2016 [Rec. 15-01];
- BET catch in 2015 was 79,577 t (including discards);
- Last stock assessment was in 2015. Neither new stock assessment nor new analysis were undertaken in 2016.
- Given the available information the SCRS does not change to the advice provided in 2015 regarding the implications of various catch levels.

SKIPJACK Fisheries indicators Data – Tasks I and II • Last assessment 2014 • Historical record in 2013 with 255,730 t • Total catches in 2015 (preliminary estimate) = 229,212 t (without local market fish) • 91 % in ATE and 19% ATW • ATE: 86% PS, 12% BB, 2% others • ATW 10% PS, 88% BB, 2% others • Represent a sharp rise compared to 2005-2009 average (155,157 t) → + 44 to 64% (2012 & 2013)







Skipjack tuna OVERVIEW

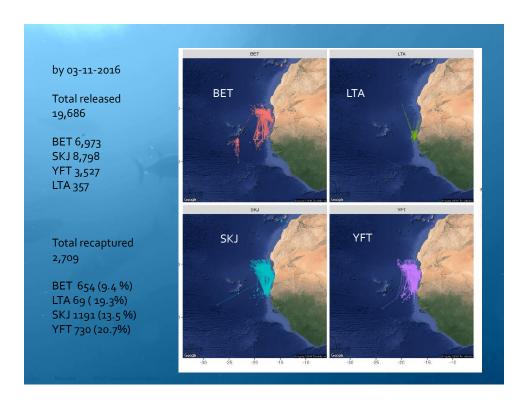
- SKJ preliminary catch in 2015 was 209,283 (East) and 19,929 (West)
- Last stock assessment was in 2014. Neither new stock assessment nor new analysis were undertaken in 2016.
- Given the available information the SCRS does not change the advice provided in 2014

AOTTP

- AZTI Consortium actively tagging in East
- Contracted consortium to start tagging in the SW in 2017
- Training (courses in Azores, Dakar, Abidjan, Tema, Canaries)
- Recovery and awareness activities underway
- Reported to the EU end of June
- Database up and running
- Data collection smartphone Apps up and running
- Almost 20,000 fish tagged
- More than 80 internal tags deployed
- More than 2,000 fish recovered
- 3 internal tag recovered
- delay with psat tagging







Responses to Commission's requests

- 18.1 Evaluate the efficacy of the area/time closure referred to in paragraph 24 for the reduction of catches of juvenile bigeye and yellowfin, [Rec. 14-01] paragraph 26
- 18.2 Revise the provisional limits laid down in paragraph 16 in relation with the limitation of FADs, [Rec. 15-01] paragraph 17
- 18.3 Revise the appropriate coverage level of scientific observers pursuant to Recommendation 10-10. Rec [15-01] paragraph 40

Responses to Commission's requests

Evaluate the efficacy of the area/time closure referred to in paragraph 24 for the reduction of catches of juvenile bigeye and yellowfin, [Rec. 14-01] paragraph 26

Since this time area closure would not be applicable until January 2017, the anticipated effect was estimated based on examination of 2002-2015 fishery data and assuming no change on fleet behaviour, the effects could be:

Major reduction of the Ghanaian catches, because the closed area will reduce most of the traditional Ghanaian fishing zones .The complete closure of the Ghanaian fishery during two months would reduce the catch of small bigeye associated to FADs at an approximate level of 1,700 t from an average reference level of 2006-2012.

- A reduction of 1,300 t. of small bigeye associated to FAD catches from an average reference level of 2006-2012 could be expected from most other purse seiners. However, this figure could be smaller if theses purse seiners redistribute their effort to the areas outside the closure south of 4°S where FAD catches have been quite important in recent years.

The Committee considered this analysis as preliminary and further work is recommended for 2017 and 2018.

Responses to Commission's requests

Revise the provisional limits laid down in paragraph 16 in relation with the limitation of FADs, [Rec. 15-01] paragraph 17

According to the data currently available, the Committee is unable to provide conclusions on any limit of FAD usage. To progress towards a better assessment framework the Committee recommends adopting a common and harmonized approach to gather information based on minimum data collection requirement and comparable common terminology describing fishing activities on FADs.

With this purpose, the Committee suggests adopting the three tables annexed to the SCRS report that contain a description of the type of data and codes to be used to collect information on FAD fishing activities.

Responses to Commission's requests

Revise the appropriate coverage level of scientific observers pursuant to Recommendation 10-10. Rec [15-01] paragraph 40

The SCRS:

- Suggests that current level of scientific observers (5%) seems to be inappropriate to provide reasonable estimates of total by-catch and recommends increasing the minimum level to 20%. Furthermore the SCRS should study further to determine the level of coverage appropriate to meet management and scientific objectives.
- Notes that the current mandatory level of 5% may not have been implemented by many of the fleets and underlined the need for achieving it.
- Notes that some fleets are currently implementing voluntary observer programmes (both human and electronic) that cover 100% of the fishing trips.

MSE Recommendations

- The Group recommends an MSE evaluation to explore the implications of management in a multi-species context.
- The Group noted that MSE requires a broad range of expertise and regular dialogue between SCRS and Commission

Additional recommendations and work plan activities

- Electronic monitoring systems (EMS): SCRS considers that it would be useful to ensure that the different systems available conform to harmonized installation, data collection and reporting protocols, so as to ensure compatibility. The Committee recommends that tropical tuna purse seine fleets or CPCs wishing to voluntarily implement EMS follow the guidelines described in document SCRS/2016/180.
- Recommends that a project is developed between Ghanaian and IRD scientists in 2017 in order to complete the development of the T₃+ software necessary for the overall treatment of Ghanaian statistics.
- Fund an activity between Côte d'Ivoire, EU-France and Senegal and the ICCAT Secretariat to review an update of Task I and Task II data so that it can be adopted and transmitted to ICCAT by the appropriate CPCs.