

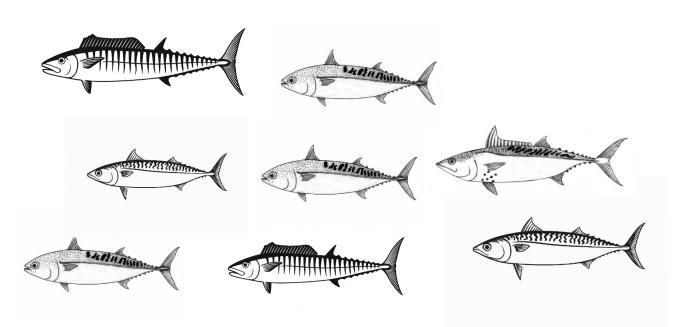
Standing Comittee on Research and Statistics - SCRS



PA4 - Part 2

SMALL TUNAS (SMT)

SHARKS (SHK)



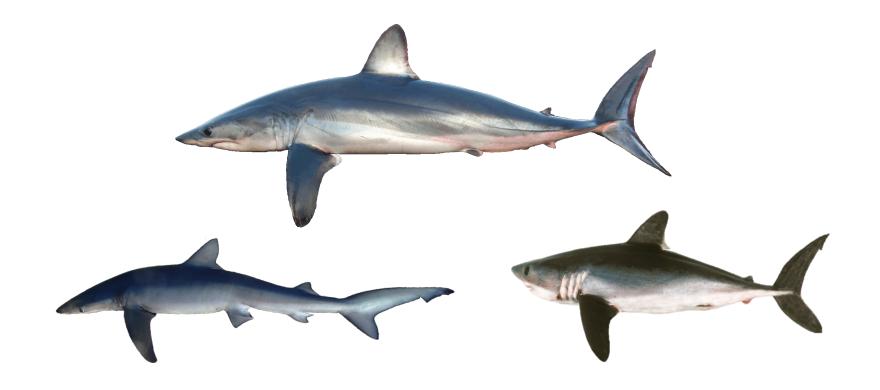




Standing Comittee on Research and Statistics - SCRS



SHARK SPECIES GROUP







Presentation Index (Sharks)

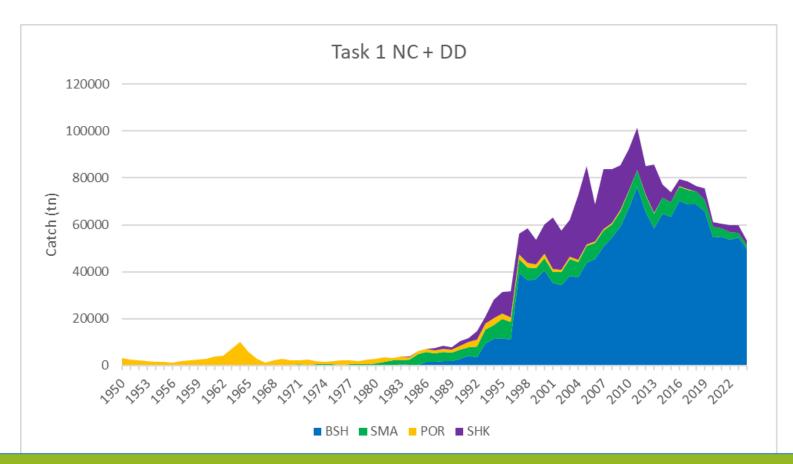
- Review of major SHK catches and stock status.
- 2025 ICCAT Shortfin mako (SMA) Stock Assessment.
- Progress on Blue shark (BSH) MSE.
- 2026 Workplan Plan.
- Responses to the Commission.
- Shark Research and Data Collection Programme





2025 Review of Major SHK catches

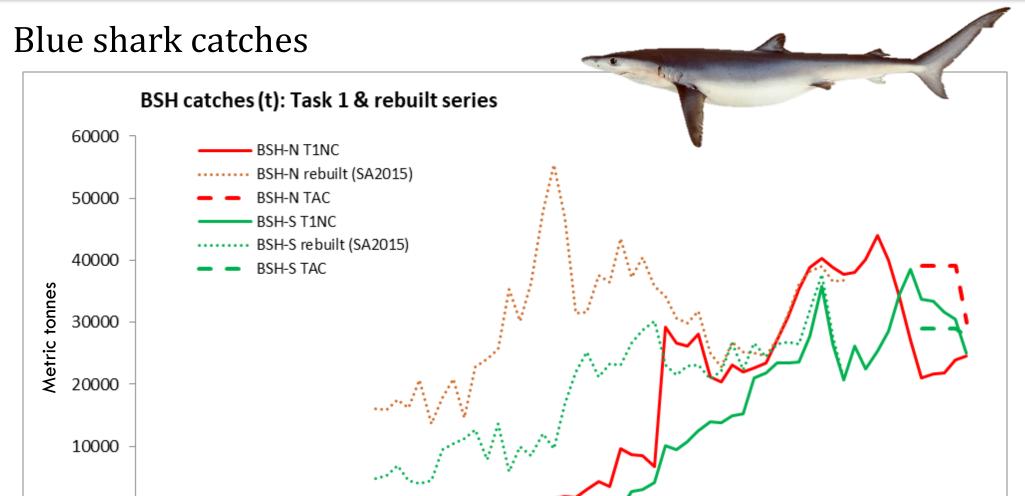
• Total accumulated catches (landings and dead discards, t) by groups of sharks (major, others SHK) and year (1950 – 2024).



- Total catches 2024: 53,319t
- 93% Blue shark (BSH)







1974 1976 1978 1980 1982 1984 1986 North: Captures below the TAC since 2018.

2024: 24,564 t +579 t Rec.23-10 North TAC 30,000 t.

South: Captures over the TAC from 2020 to 2023.

2024: 25,003 t

-5,573 t

Rec.23-11 South
TAC 27,711 t.

1988 1990 1992

year



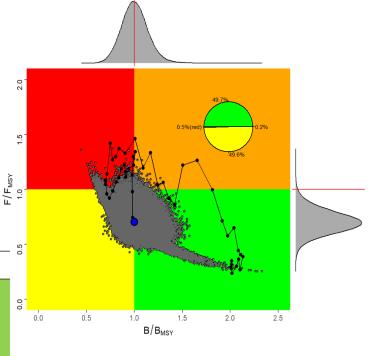


North Atlantic Blue shark stock



Summary table (assessed in 2023 using data through 2021)

Indicator		Stock Status
Maximum Sustainable Yield (MSY) ¹	32,689 t (30,403 t - 36,465 t)	
TAC (2024)	30,000 t	
Current (2024) Yield ²	24,564 t	
Relative Biomass (B ₂₀₂₁ /B _{MSY}) ³	1.00 (0.75 - 1.31)	
Relative Fishing Mortality (F ₂₀₂₁ /F _{MSY}) ³	0.70 (0.50 - 0.93)	
Stock Status	Overfished: NO (50.1% probability of being overfished) ^{4,5}	2021
Management measures in effect	Overfishing: NO (0.7% probability of overfishing) ⁴ Rec. 23-10, Rec. 04-10, Rec. 07-06	





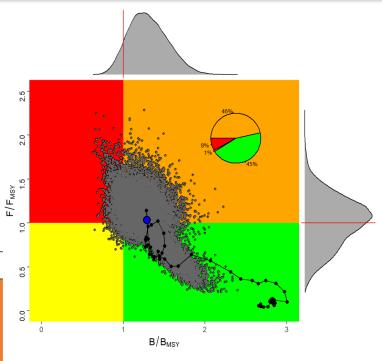


South Atlantic Blue shark stock



Summary table (assessed in 2023 using data through 2021)

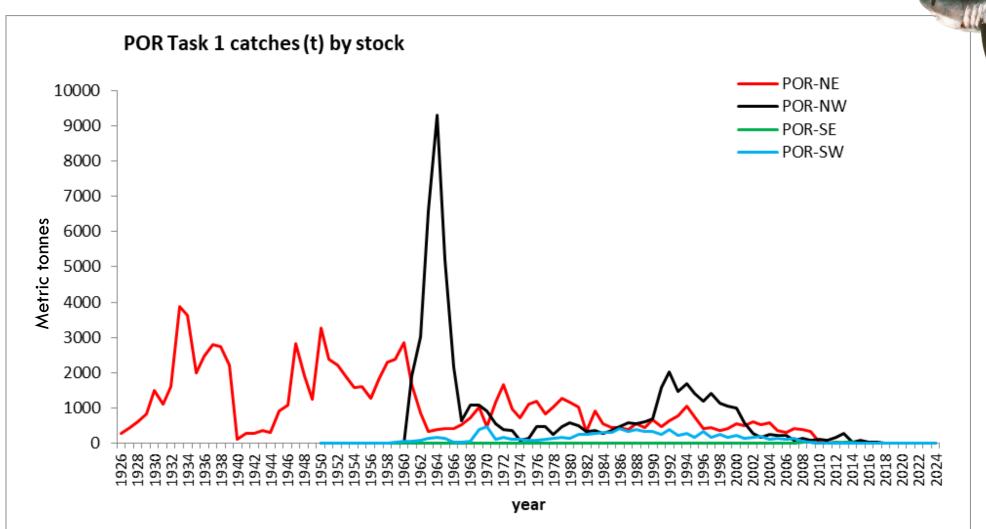
Indicator		Stock Status
Maximum Sustainable Yield (MSY) ¹	27,711 t (23,128 t - 47,758 t)	
TAC (2024)	27,711 t	
Current (2024) Yield ²	25,003 t	
Relative Biomass (B ₂₀₂₁ /B _{MSY}) ³	1.29 (0.89 - 1.81)	
Relative Fishing Mortality $(F_{2021}/F_{MSY})^3$	1.03 (0.45 - 1.55)	
Stock Status	Overfished: NO (8.78% probability of being overfished) ⁴	2021
Management measures in effect	Overfishing: YES (54.52% probability of overfishing) ⁴ Rec. 23-11, Rec. 04-10, Rec. 07-06	
	Rec. 25 11, Rec. 01 10, Rec. 07-00	







Porbeagle shark catches



NW captures 4t Decreasing since 2017.

NE captures 15t.

SW captures are 0t since 2013.

SE captures are 0t since 2019.





Northwest Atlantic Porbeagle shark stock



Summary table (assessed in 2020 using data through 2018)

Indicator		Stock Status
Maximum Sustainable Yield (MSY)	Not available	
TAC (2024)	N/A	
Current (2024) Yield ¹	4 t	
Relative Biomass (B ₂₀₁₈ /B _{MSY})	0.572	
Relative Fishing Mortality (F2010-2018/FMSY)	0.4133	
Stock Status	Overfished: YES (98% probability of being overfished)	2018
Management measures in effect	Overfishing: Unknown probability of overfishing Rec. 04-10, Rec. 07-06, Rec. 15-06	





Northeast Atlantic Porbeagle shark stock



Summary table (assessed in 2022 using data through 2021)

Indicator		Stock Status
Maximum Sustainable Yield	Not available	
TAC (2024)	N/A	
Current (2024) Yield ¹	15 t ¹	
ICES-ICCAT Yield in 2021	7.95 t ²	
Relative Biomass (B ₂₀₂₁ /B _{MSY})	$0.464 (0.15-1.43)^3$	
Relative Fishing Mortality (F2021/FMSY)	0.013 (0.0024-0.073)3	2021
	Overfished: YES (unknown	
Stock Status	probability of being overfished)	
	Overfishing: NO (unknown	
	probability of overfishing)	
Management measures in effect	Rec. 04-10, Rec. 07-06, Rec. 15-06	





South Atlantic Porbeagle shark stocks

Summary table (assessed in 2020 using data through 2018)

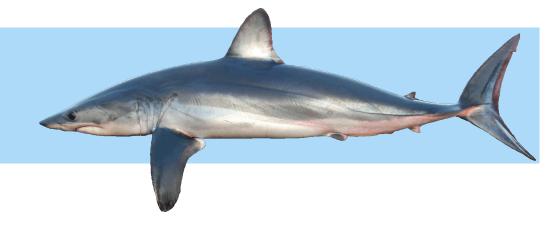


Indicator		Stock Status
Maximum Sustainable Yield (MSY)	N/A	
TAC (2024)	N/A	
Current (2024) Yield ¹	$0.5 t^{1}$	
Relative Biomass (B ₂₀₁₈ /B _{MSY})	Unknown	
Relative Fishing Mortality (F2010-2018/FMSY)	0.0113^2	
Stock Status	Overfished: Undetermined (unknown probability of being overfished) Overfishing: NO (unknown probability of overfishing)	2018
Management measures in effect	Rec. 04-10, Rec. 07-06, Rec. 15-06	





2025 ICCAT Shortfin mako Stock Assessment

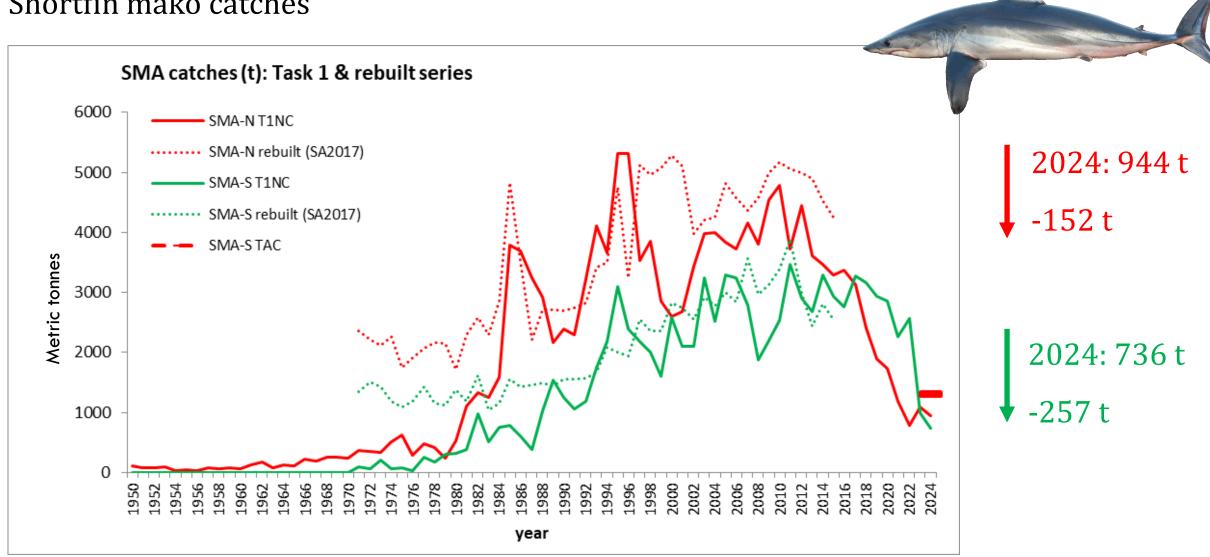


- Data Preparatory Meeting March 10-14 (Málaga, hybrid)
- Stock Assessment Meeting June 9-13 (Madrid, hybrid)





Shortfin mako catches







2025 SMA North Atlantic Stock Assessment

A set of factors made it impossible to finalize the North stock assessment.

- New in life history parameters.
- 2017 SS3 could not be successfully fitted to the updated data.
- Conflicting CPUE indices, contradictory data in recent years.

As a result, the SCRS could not provide advice with scientifically defensible confidence.

The SCRS agreed to continue with the SMA North Stock assessment in 2026.

Produce combined CPUE index to improve model performance.



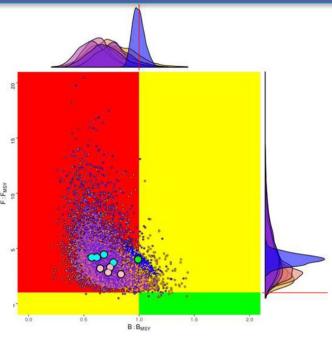


North Atlantic Shortfin mako stock



Summary table (assessed in 2017 using data through 2015)

Indicator		Stock Status
Maximum Sustainable Yield (MSY) TAC (2024) ⁴ Current (2024) Yield ¹	undetermined 250 t 944 t	
Relative Biomass $(B_{2015}/B_{MSY})^2$ Relative Fishing Mortality $(F_{2015}/F_{MSY})^3$ Stock Status	0.57 - 0.95 1.93 - 4.38 Overfished: YES (probability not estimated) Overfishing: YES (probability not estimated)	2015
Management measures in effect	Rec. 21-09, Rec. 04-10 and Rec. 07-06	

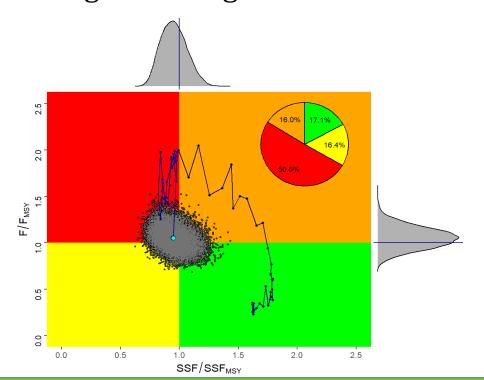


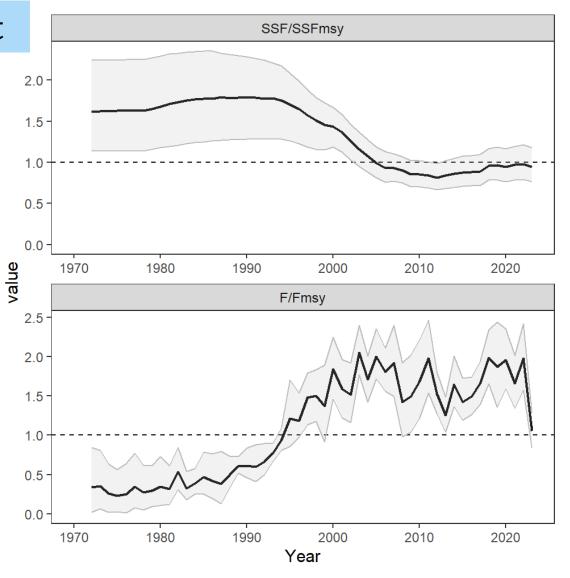




2025 SMA South Atlantic Stock Assessment

 Based on the Stock Synthesis results; the stock was likely to have been overfished and overfishing occurring in 2023.







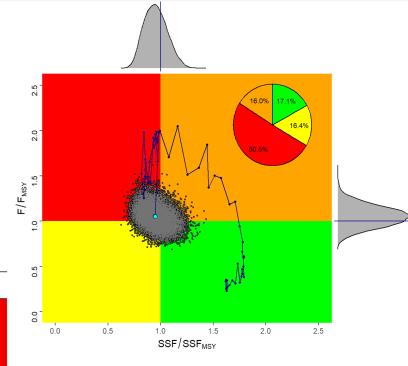


South Atlantic Shortfin mako stock



Summary table (assessed in 2025 using data through 2023)

Indicator		Stock Status
Maximum Sustainable Yield (MSY)	1,648 t (1,519-1,795 t)	
TAC $(2024)^3$	1,295 t	
Current (2024) Yield ¹	736 t	
Relative spawning stock fecundity		
$(SSF_{2015}/SSF_{MSY})^2$	0.949 (0.763-1.179)	
Relative Fishing Mortality (F ₂₀₂₃ /F _{MSY}) ²	1.052 (0.837-1.287)	
Stock Status	Overfished: YES (66.9% probability) Overfishing: YES (66.5% probability)	2023
Management measures in effect	Rec. 22-11, Rec. 04-10, Rec. 07-06	

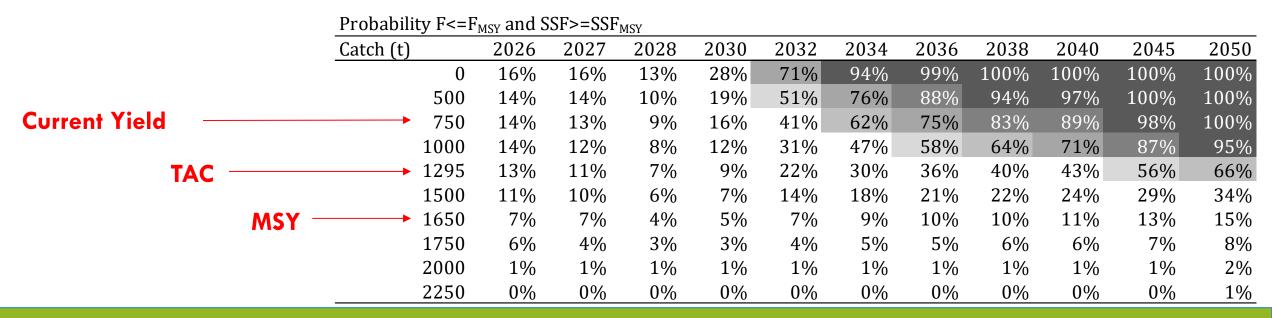






2025 SMA South Atlantic Stock Assessment

- Current TAC of 1,295 t has a probability of 66% of being in the green quadrant by 2050.
- Current total removals of 736 t (794 t considering PRM) would have a probability of being in the green quadrant of 62% by 2034 and 100% by 2050.
- Removals at MSY level would have a 15% probability of being in the green quadrant BY 2050.







2025 SMA South Atlantic Stock Assessment

Management recommendations:

- 2023 South Atlantic SMA stock status was estimated to be likely overfished and undergoing overfishing.
- The Committee indicated that total removals of 1,295 t (current TAC) will bring the stock to the green quadrant of the Kobe plot with at least a 66% probability by 2050.
- The Committee noted that higher total mortality rates would have very low probabilities of being in the green Kobe quadrant by 2050.





Feasibility study on BSH MSE



- A feasibility study elaborated in 2025 was presented (SCRS/2025/078).
 - Technically feasible, cost-effective, and aligned with existing ICCAT MSE practices.
 - Efficiency can be gained by implementing a joint approach for both stocks.
 - Two implementation schedules were identified, a two and three-year process.
 - The SCRS and the SHK SG considered that a 3-year option, starting in 2027, would be the best one.
 - In 2026 a technical team will start working on the Atlantic BSH MSE.





Sharks Workplan and Research Plan for 2026

- Continue the stock assessment for the North Atlantic shortfin make in 2026.
- Continue preparations for the North and South Atlantic blue shark MSEs.
- Start planning the 2027 intersessional meeting of the Sharks Species Group focused on the Mediterranean.
- Continue with the activities of the SRDCP.





Responses to the Commission

Items 19.19 to 19.29 - Document PLE 104

- 12 Commission requests were attended.
 - Recs. 18-06, 21-09, 22-11, 23-10, 23-11.
- A protocol for requesting the exemption of the SHK Check Sheet was developed (COC 328).
- The total retention allowance of shortfin mako, north and south, was calculated for 2026.
- Advances of SRDCP were presented as part of research on shortfin make requested by de Commission.
- A feasibility study on blue shark MSE, north and south, was presented.



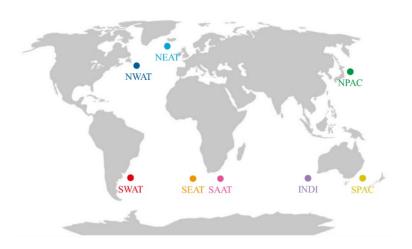


Shark Research and Data Collection Programme

Currently:

- Age and growth of shortfin make concluded
- Advances on age and growth other species (FAL, SPN, OCS, BTH, LMA)
- Genetic analysis of porbeagle in the Atlantic Ocean





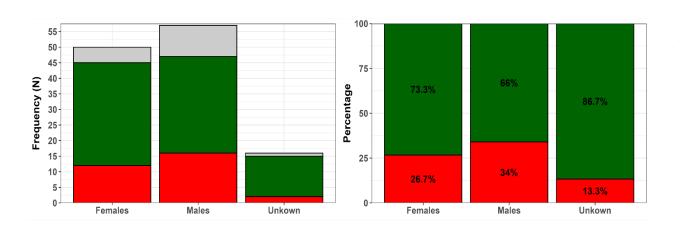


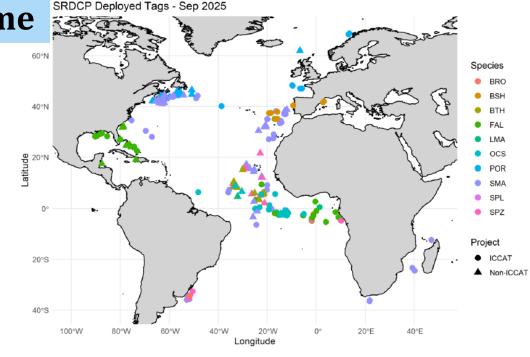


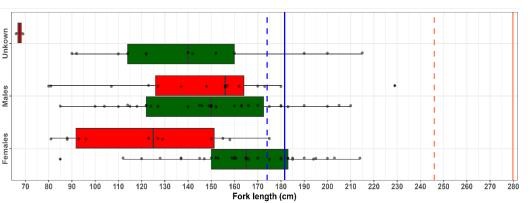
Shark Research and Data Collection Programme

Currently:

- Satellite tagging studies of several species.
- Dedicated tagging campaigns.
- Post-release mortality of SMA.



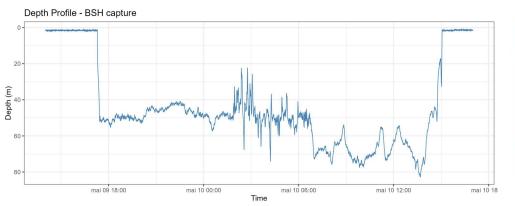








• Temperature and Depth Recorders (TDRs) successfully tested.







Reproduction study on North Atlantic shortfin mako.

Collect. Vol. Sci. Pap. ICCAT, 81(9), SCRS/2024/155: 1-9 (2024)

QUANTIFYING REPRODUCTIVE HORMONES IN SKELETAL MUSCLE TISSUE OF THE SHORTFIN MAKO (ISURUS OXYRINCHUS)

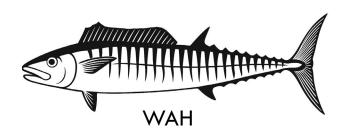
J. Sulikowski^{12*}, K. Kappos¹, L. Horstmyer¹, K. Ballard¹, E. Ekelund¹, M. Schlaf¹, M. Passerotti³, E. Cortés⁴, H. Bowlby⁵

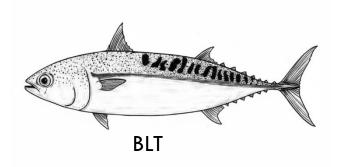


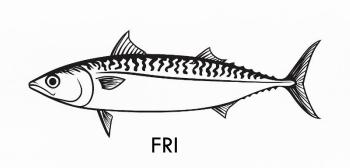
Standing Comittee on Research and Statistics - SCRS

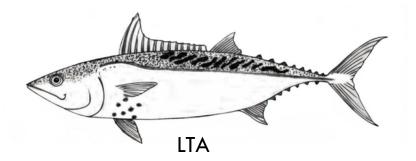


SMALL TUNAS SPECIES GROUP





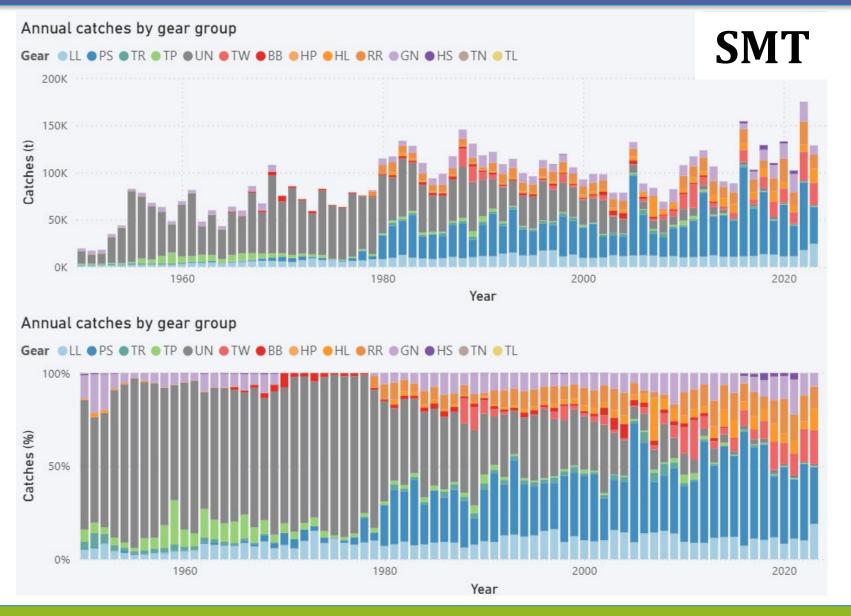




And 9 more...







Panel 4 | 29th Regular Meeting of the Commission | 2025





I - Summary of 2025 Activities

Objectives

Intersessional Meeting

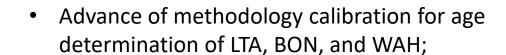
(Hybrid/Olhão, Portugal, 26-28 May 2025)

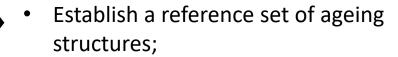


- Review data and present new life-history information and advances achieved within the Small Tunas Year Programme (SMTYP);
- Planning to assess small tunas stocks for the first time.

Technical capacity building workshop on small tuna ageing

(Olhão, Portugal , 29-31 May 2025)





Plan the next steps for ageing studies on BLT and FRI.

Results

- Several new age and growth parameters, but data review is still incomplete and uneven-quality fishery data;
- The group planned to start assessing the stocks in 2027 with previous work in 2026.
 - Establishing reference sets for ageing structures will be finished by 2025 for BON, and LTA.
- Growth studies will continue under improved logistics conditions;

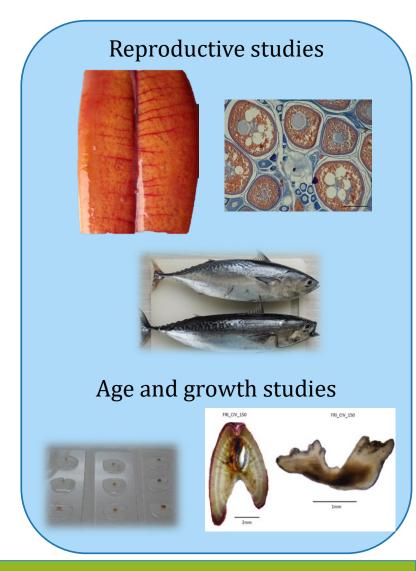






II - Workplan for 2026 and beyond

- 1. Conclude ongoing studies on Reproduction, Age and growth and Genetics
- 2. Conduct a feasibility study to identify the requirements for comparing morphometric and morphological traits of LTA from four Atl. and Med. Regions
- 3. Continue to update the biological meta-database maintained since 2016
- 4. Data from the Northwest Atlantic, a contract should be issued to carry out additional data mining activities in selected countries/regions
- 5. An expert group will perform a feasibility study in 2026. The goal is to assess at least one SMT stock by 2027
- 6. Intersessional Meeting of the Small Tunas Species Group in 2027







III - RECOMMENDATIONS

With Financial implications

Continuing to support to the SMTYP

Research programme activities in 2026-2029 to further improve the biological information

Historical Data Mining

Data from the Northwest Atlantic is entirely absent from the minor tuna species database.

Other general recomendations

Capacity Building

Continue training CPCs scientists in stock assessment fundamentals to enhance participation and support science-based management of data-limited small tuna stocks.

Data Improvement

Address underreporting through dedicated discussions, long-term data collection strategies, and data-mining initiatives to strengthen the accuracy of ICCAT's small tuna statistics.





I would like to express my gratitude to the SCRS Shark Species and Small Tunas officers for their work over the year and for preparing this presentation.

SHARK SPECIES GROUP: Mr. Rodrigo Forselledo (Uruguay)

SMALL TUNA GROUP: Madam N'Guessan Constance Diaha (Côte d'Ivoire)



Standing Comittee on Research and Statistics - SCRS



THANK YOU!

SMALL TUNAS (SMT)

SHARKS (SHK)

