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INFORMATION REQUESTED BY THE IMM WORKING GROUP

ICCAT Secretariat in consultation with PWG Chair

At the 12th meeting of the Working Group on Integrated Monitoring Measures (IMM), the Secretariat was requested to compile, to the extent possible and in close coordination with the Chair of the PWG and the SCRS, information to inform an assessment by the Commission, through the PWG, of the risk of IUU activities and other relevant threats to the conservation status of ICCAT species/stocks. In that regard, the PWG will consider ways to address these threats, including the potential need for and, where appropriate, the possible roles that a Catch Documentation Scheme could play in addressing IUU fishing and enhancing the conservation and management of these stocks/species.

The information compiled by the Secretariat should, to the extent possible, relate to the factors below, and, as appropriate, others set forth in Recommendation 12-09 and the 2017 FAO Voluntary Guidelines on Catch Documentation Schemes.

A note on the information available in ICCAT data bases is shown under each factor:

- i. The overall level of trade by species and product type as well as the CPCs and non-Contracting Parties, Entities or Fishing Entities (NCPs) involved;

Import data from Statistical Document programmes (bigeye and swordfish), in accordance with current requirements. The detailed information available includes Year; Semester; Species; Fishing Flag; Area; Gear; Export Flag 1; Point of Export; Product Type; Product Shape; Quantity(t), but is normally aggregated as shown in tables 22 and 23 of **PLE-105/2018**.

Other import data is available through the information submitted under 06-13, but as the Recommendation requires only “relevant” information, with the definition of “relevant” having been left to each CPC, such information is sporadic and incomplete. An example, the data submitted in 2018 is contained in **COC-303/2018-Annex 1**.

- ii. The overall landed value of the targeted species/stock as well as the retail values at point of landing and on major markets;

The Secretariat does not hold, nor have access to, any information on the value of tuna or tuna like species.

- iii. The conservation status and the vulnerability (including low reproductive output or high age at maturity, or both) of the respective ICCAT species/stocks;

Vulnerability of the stock is determined by SCRS, the current status of ICCAT stock is summarized in - **Appendix 1**.

- iv. The monitoring and control measures currently in place, including catch and trade tracking programmes, and their scope of effectiveness (i.e., percentage of the overall fleet, landings, or product in trade covered under each of the various measures);

Table 1 shows a summary of the monitoring and control measures currently in place, but the Secretariat is not in a position to evaluate the scope of their effectiveness. It is not possible to make any reliable estimate of percentage of the overall fleet, landings, or product in trade covered under each of the various measures with the information currently collected. If such data is collected, this information would take considerable resources to compile. The Secretariat does not currently have the staff resources available for such an undertaking, unless previously assigned tasks are removed from the mandate.

- v. The level of incidence of non-compliance events detected for each fishery/stock;

No record of such events is kept; currently only potential non-compliance events reported by observer or reported through inspection reports could be compiled, but with the exception of eastern Atlantic and Mediterranean bluefin tuna (observer reports and inspection reports, or Mediterranean swordfish (inspection reports), such events are not recorded by stock. The use of those under observer/inspection reports could lead to skewed analysis given that similar inspection programmes are not in place for other species / stocks.

- vi. How ICCAT fisheries are conducted (e.g., fishing grounds, gear types, transshipment activities, harvesting CPCs, etc.);

This information is available in part through the annual reports and other documentation at the Secretariat, including the use of statistical data, but would take considerable resources to compile. The Secretariat does not currently have the staff resources available for such an undertaking unless previously assigned tasks are removed from the mandate.

- vii. The ways in which products from ICCAT fisheries are processed, transported, and traded;

This information is not currently available to the Secretariat. Some information on product type may be extracted from existing data bases (transshipment / statistical document), but would be limited to very few species / proportion of the catch and hence could not be compared to other species / stocks for lack of data.

- viii. Any other relevant factors, including, but not restricted to, potential duplication with existing catch document schemes.

This would pertain mainly to other schemes currently being implemented by CPCs. The Secretariat does not have any inventory of these. In addition, information submitted under Rec. 06-16 is sadly lacking.

Table 1. Summary of management measures in place for major ICCAT species (tuna, tuna-like and shark).

<i>Stock</i>	<i>Species</i>	<i>Catch limits</i>	<i>MCS measures</i>	<i>Trade tracking measures</i>	<i>Other measures</i>	<i>Non-binding measures</i>
North	ALB	yes	yes	no	no	yes
South	ALB	yes	yes	no	no	yes
Med	ALB	no	yes	no	no	yes
Atl	BET	yes	yes	yes	yes	yes
East	BFT	yes	yes	yes	yes	yes
West	BFT	yes	yes	yes	yes	yes
Atl	BUM	yes	no	no	yes	yes
Atl	SAI	no	no	no	yes	no
Atl	SKJ	no	yes	no	yes	no
Atl	SPF	no	no	no	no	no
North	SWO	yes	yes	yes	yes	yes
South	SWO	yes	yes	yes	yes	yes
Med	SWO	yes	yes	yes	yes	yes
Atl	WHM	yes	no	no	yes	yes
Atl	YFT	yes (TAC only)	yes	no	yes	yes
Atl	BSH	no	no	no	yes	yes
Atl	POR	no	no	no	yes	yes
Atl	SMA	no	no	no	yes	no
Atl	ALV	no	no	no	no	yes
Atl	BTH	catch prohibition with exceptions	no	no	no	yes
Atl	FAL	no	no	no		
Atl	OCS	catch prohibition	no	no	yes	no
Atl	SPK	catch prohibition with exceptions	no	no	no	yes
Atl	SPL	catch prohibition with exceptions	no	no	no	yes
Atl	SPZ	catch prohibition with exceptions	no	no	no	yes

Appendix 1

Summary status of ICCAT species as evaluated by the SCRS on September 2018, based on the latest stock assessment for each stock unit. Highlighted text shows stock units that at present are considered overfished and or under overfishing status. Please review the SCRS annual report for further details (PLE-104).

ATLANTIC YELLOWFIN TUNA SUMMARY

Maximum Sustainable Yield (MSY)	126,304 t (119,100 - 151,255 t)
2017 Yield	139,316 t
Relative Biomass B_{2014}/B_{MSY}	0.95 (0.71-1.36)
Relative Fishing Mortality: $F_{CURRENT(2014)}/F_{MSY}$	0.77 (0.53-1.05)
2014 Total Biomass	464,712 t (308,287 - 731,485 t)
Stock Status (2014)	Overfished: Yes Overfishing: No

ATLANTIC BIGEYE TUNA SUMMARY

Maximum Sustainable Yield	76,232 t (72,664-79,700 t)
Current (2017) Yield	78,482 t
Relative Spawning Biomass (SSB_{2017}/SSB_{MSY})	0.59 (0.42-0.80)
Relative Fishing Mortality (F_{2017}/F_{MSY})	1.63 (1.14-2.12)
Stock Status (2017)	Overfished: Yes Overfishing: Yes

ATLANTIC SKIPJACK SUMMARY TABLE

	East Atlantic	West Atlantic
Maximum Sustainable Yield (MSY)	Probably higher than previous estimates (143,000-170,000 t)	Around 30,000-32,000 t
Current yield (2017)	242,289 t	23,276 t
Current Replacement Yield	Unknown	Somewhat below 32,000 t
Relative Biomass (B_{2013}/B_{MSY})	Likely >1	Probably close to 1.3
Mortality due to fishing (F_{2013}/F_{MSY})	Likely <1	Probably close to 0.7
Stock Status		
Overfished:	Not likely	Not
Overfishing:	Not likely	Not

ATLANTIC AND MEDITERRANEAN ALBACORE SUMMARY			
	North Atlantic	South Atlantic	Mediterranean
Maximum Sustainable Yield	37,082 t (35,396-42,364)	25,901 t (15,270-31,768)	3,419 t (2,187-7,842)
Current (2017) TAC	28,000 t	24,000 t	Not established
Current (2017) Yield	28,310 t	13,806 t	2,780 t
Yield in last year of assessment (2014)	26,651 t	13,677 t	
Yield in last year of assessment (2015)			2,774 t
B _{MSY}	407,567 t (366,309-463,685)	120,465 t (71,312-208,438)	29,168 t (17,939-65,861)
F _{MSY}	0.097 (0.079-0.109)	0.202 (0.119-0.373)	0.119 (0.072-0.192)
B ₂₀₁₅ /B _{MSY}	1.36 (1.05-1.78)	1.10 (0.51-1.80)	1.002 (0.456-1.760)
B ₂₀₁₅ /B _{LIM}	3.4		
F ₂₀₁₄ /F _{MSY}	0.54 (0.35-0.72)	0.54 (0.31-0.87)	
F ₂₀₁₅ /F _{MSY}			0.830 (0.223-2.194)
Stock Status	Overfished: NO	Overfished: NO	Overfished: NOT LIKELY
	Overfishing: NO	Overfishing: NO	Overfishing: NOT LIKELY

EAST ATLANTIC AND MEDITERRANEAN BLUEFIN TUNA SUMMARY	
Current reported yield (2017)	23,616 t
F _{0.1}	0.107(0.103-0.120)
F ₂₀₁₂₋₂₀₁₄ /F _{0.1}	0.339 (0.254-0.438)
Stock Status	Overfishing: No
Rec. 17-07 TAC 2018-2020	28,200 - 32,240 - 36,000

WEST ATLANTIC BLUEFIN TUNA SUMMARY	
Current Catch including discards (2017)	1,851
F _{CURRENT} (2012-2014)	0.05 (0.04-0.10)
F _{0.1}	0.09 (0.08-0.12)
Ratio of recent F to F _{0.1}	0.59 (0.44-0.79)
Estimated probability of overfishing	0.002
Stock status	Overfishing : No

ATLANTIC SWORDFISH SUMMARY

	North Atlantic	South Atlantic
Maximum Sustainable Yield	13,059 (11,840-14,970)	14,570 (12,962-16,123)
Current (2017) TAC	13,700 t	14,000 t
Current (2017) Yield	10,046 t	10,512 t
Yield in last year used in assessment (2015)	10,668 t	10,227 t
B _{MSY}	82,640 t (51,580-132,010)	52,465 t (35,119-80,951)
SSB _{MSY}	21,262 t (14,797-27,728)	Unknown
F _{MSY}	0.17 (0.10-0.27)	0.28 (0.17-0.44)
Relative Biomass (B ₂₀₁₅ /B _{MSY})	1.04 (0.82 - 1.39)	0.72 (0.53 - 1.01)
Relative Fishing Mortality (F ₂₀₁₅ /F _{MSY})	0.78 (0.62-1.01)	0.98 (0.70 - 1.36)
Stock Status (2015)	Overfished: NO	Overfished: YES
	Overfishing: NO	Overfishing: NO

MEDITERRANEAN SWORDFISH SUMMARY

Maximum Sustainable Yield	19,683 t
Current (2017) Yield	8,402 t
SSB _{MSY}	63,426 t
F _{MSY}	0.25
Relative Spawning Biomass (SSB ₂₀₁₅ /SSB _{MSY})	0.12
Relative Fishing Mortality	
F ₂₀₁₅ /F _{MSY}	1.85
F ₂₀₁₅ /F _{0.1}	2.64
Stock Status (2015)	Overfished: Yes
	Overfishing: Yes

ATLANTIC WHITE MARLIN SUMMARY

MSY	874 t - 1604 t
Current (2017) Yield	401 t
Relative Biomass:	
B ₂₀₁₀ /B _{MSY}	0.50 (0.42-0.60)
SSB ₂₀₁₀ /SSB _{MSY}	0.322 (0.23-0.41)
Relative Fishing Mortality:	
F ₂₀₁₀ /F _{MSY}	0.99 (0.75-1.27)
	0.72 (0.51-0.93)
Stock Status (2010)	Overfished: Yes
	Overfishing: Not likely

ATLANTIC BLUE MARLIN SUMMARY

Maximum Sustainable Yield	3,001 t (2,399 – 3,537 t)
Current (2017) Yield	1,987 t
Relative Biomass (SSB ₂₀₁₆ /SSB _{MSY})	0.69 (0.52 – 0.91)
Relative Fishing Mortality (F ₂₀₁₆ /F _{MSY})	1.03 (0.74 -1.50)
Stock Status (2016)	Overfished: Yes Overfishing: Yes

ATLANTIC SAILFISH SUMMARY

	West Atlantic	East Atlantic
Maximum Sustainable Yield (MSY)	1,438-1,636 t	1,635-2,157 t
Current (2017)	1,076 t	1,591 t
SSB ₂₀₁₄ /SSB _{MSY}	1.81 (0.51-2.57)	
	1.16 (0.18-1.69)	
B ₂₀₁₄ /B _{MSY}		0.22-0.70
F ₂₀₁₄ /F _{MSY}	0.33 (0.25 – 0.57)	0.33-2.85
	0.63 (0.42 – 2.02)	
Overfished	Not likely	YES
Overfishing	Not likely	Possibly

NORTH ATLANTIC BLUE SHARK SUMMARY

Provisional Yield (2017)		39,675 t
Yield (2013)		36,748 t
Relative Biomass	B ₂₀₁₃ /B _{MSY}	1.35-3.45
	B ₂₀₁₃ /B ₀	0.75-0.98
Relative Fishing Mortality	F _{MSY}	0.19-0.20
	F ₂₀₁₃ /F _{MSY}	0.04-0.75
Stock Status (2013)	Overfished	Not likely
	Overfishing	Not likely

SOUTH ATLANTIC BLUE SHARK SUMMARY

Provisional Yield (2017)		28,232 t
Yield (2013)		20,799 t
Relative Biomass	B_{2013}/B_{MSY}	0.78-2.03
	B_{2013}/B_0	0.39-1.00
Relative Fishing Mortality	F_{MSY}	0.10-0.20
	F_{2013}/F_{MSY}	0.01-1.19
Stock Status (2013)	Overfished	Undetermined
	Overfishing	Undetermined

NORTH ATLANTIC SHORTFIN MAKO SUMMARY

Provisional Yield (2017)		3,112 t
Yield (2015)		3,227 t
Relative Biomass	B_{2015}/B_{MSY}	0.57-0.95
	B_{2015}/B_0	0.34-0.57
Relative Fishing Mortality	F_{MSY}	0.015-0.056
	F_{2015}/F_{MSY}	1.93-4.38
Stock Status (2015)	Overfished	Yes
	Overfishing	Yes

SOUTH ATLANTIC SHORTFIN MAKO SUMMARY

Provisional Yield (2017)		2,742 t
Yield (2015)		2,686 t
Relative Biomass	B_{2015}/B_{MSY}	0.65-1.75
	B_{2015}/B_0	0.32-1.18
Relative Fishing Mortality:	F_{MSY}	0.030-0.034
	F_{2015}/F_{MSY}	0.86-3.67
Stock status (2015)	Overfished	Possibly
	Overfishing	Possibly

NORTHWEST ATLANTIC PORBEAGLE SUMMARY

Current Yield (2008)		144.3 t
Relative Biomass	B_{2008}/B_{MSY}	0.43-0.65
Relative Fishing Mortality	F_{MSY} F_{2008}/F_{MSY}	0.025-0.075 0.03-0.36
Domestic Management Measures in Effect		TACs of 185 t and 11.3 t
Stock Status (2008)	Overfished Overfishing	Yes No

SOUTHWEST ATLANTIC PORBEAGLE SUMMARY

Current Yield (2008)		164.6 t
Relative Biomass	B_{2008}/B_{MSY}	0.36-0.78
Relative Fishing Mortality	F_{MSY} F_{2008}/F_{MSY}	0.025-0.033 0.31-10.78
Stock Status (2008)	Overfished Overfishing	Yes Undetermined

NORTHEAST ATLANTIC PORBEAGLE SUMMARY

Current Yield (2008)		287 t
Relative Biomass	B_{2008}/B_{MSY}	0.09-1.93
Relative Fishing Mortality	F_{MSY} F_{2008}/F_{MSY}	0.02-0.03 0.04-3.45
Stock Status (2008)	Overfished Overfishing	Yes No
