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Organization of the  
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Indian Ocean Tuna Commission  
Commission des Thons de l'Océan Indien

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# OBSERVER PROGRAM DEVELOPMENT and OBSERVER LOGISTICAL COORDINATION WORKSHOP



CapMarine  
Capricorn Marine Environmental



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# Strategic plan for CPC Observer Programme

***IOTC ROS OLC TR2.01***

Category: Programme coverage and  
number of observers required

*[IOTC ROS OLC TR2]*



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# Observer Programme coverage and stratification

- **Depends of programme objectives**
- **Has to meet CPC requirements**
- **Has to meets IOTC requirements (Res. 11/04 and ROS standards)**
  - *5% minimum coverage of the number of operations/sets for each gear type by the fleet of each CPC while fishing in the IOTC area of competence*
  - *Stratification across gear type, vessel size, target species, area and season, to be representative of the entire fleet;*
  - *Adequate observer representation across all individual vessels over the long term.*





# Strategic plan for the Observer Programme

Information required to draft Observer Programme strategic plan:

- **CPC coverage requirements per fleet**
- **IOTC coverage requirements for fleets flagged by the CPC**  
(to ensure meeting the 5% minimum observer coverage per gear effort  
CPCs should plan for 10% observer coverage)
- **Number of vessels per fleet to be covered**
- **Fleet/vessel operational details** (length, gear, n<sup>o</sup> sea-days/year, average n<sup>o</sup> of fishing events/year, fishing season, etc.)
- **Number of observers required**
- **Available resources**





# Strategic plan for the Observer Programme

## Example of coverage calculation:

- **Fleet:** national pelagic longline
- **Fleet details:** 3 vessels >24 m length overall, operating the same type of gear (i.e. drifting longline), fishing in average 250 days a year, doing 2,5 months trips .
- **CPC coverage requirements:** 100% observer coverage in 5 years.
- **Current CPC Observer Programme coverage:** 60%
- **IOTC coverage requirements:** 5% coverage of fishing events

	N° vessels	Av days year	10%	20%	30%	40%	50%	60%	70%	80%	90%	100%
<b>Longline national flag</b>	3	250	75	150	225	300	375	450	525	600	675	750
2,5 months trip	NA	NA	2	3	5	7	8	10	12	13	15	17
N° observers	NA	NA	0,4	0,8	1,2	1,6	2,0	2,4	2,9	3,3	3,7	4,1

Fleet	Year	2020	2021	2022	2023	2024	2025
Pelagic longline national	Coverage (%)	60%	65%	70%	80%	90%	100%
	N° of observers	2	3	3	4	4	4





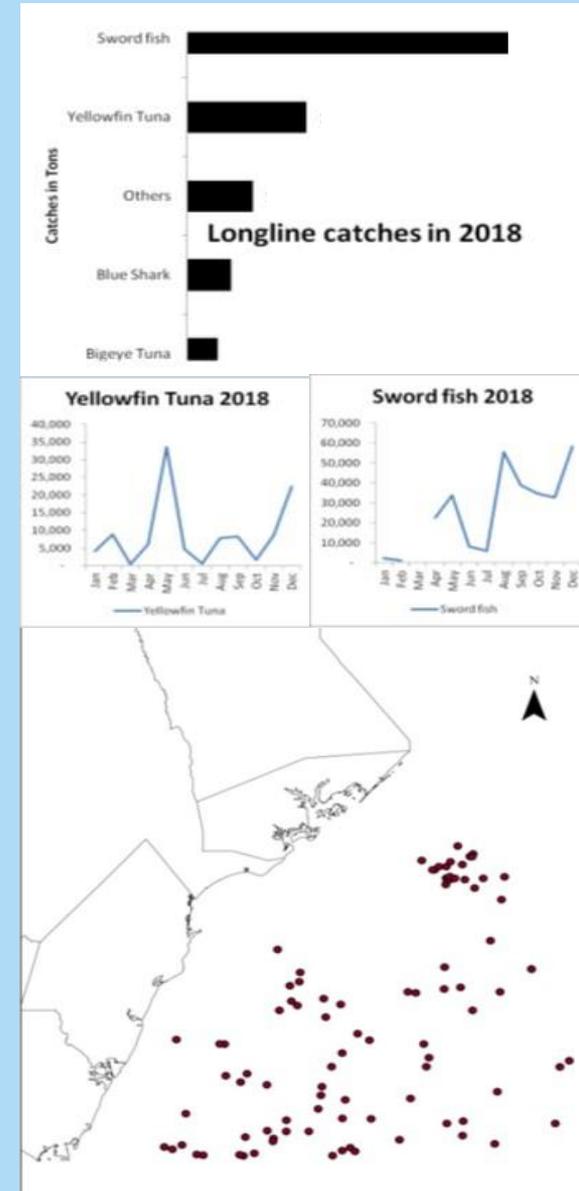
# Strategic plan for the Observer Programme

## Example of coverage stratification:

- National pelagic longline fleet catches are analysed for:
  - Catch composition to ascertain target species
  - Catches per target species and month to ascertain seasonality
  - Catches per target species and area to ascertain areas fished

Year	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sept	Oct	Nov	Dec
2020	1	--	1	1	1	1	1	1		1	1	1
2021	1	--	1	1	1	1	1	1	1	1	1	1
2022	1	1	1	1	1	1	1	1	1	1	1	1
2023	1	1	1	1	1	2	1	1	1	1	1	1
2024	1	1	1	2	1	2	1	1	1	1	2	1
2025	1	1	1	2	1	2	2	1	1	2	1	2

Observer coverage stratification per season to ensure that main target species, areas & seasons fished are representative of the entire fleet.





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# THANK YOU FOR YOUR PARTICIPATION



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