

# Missing Sharks 2

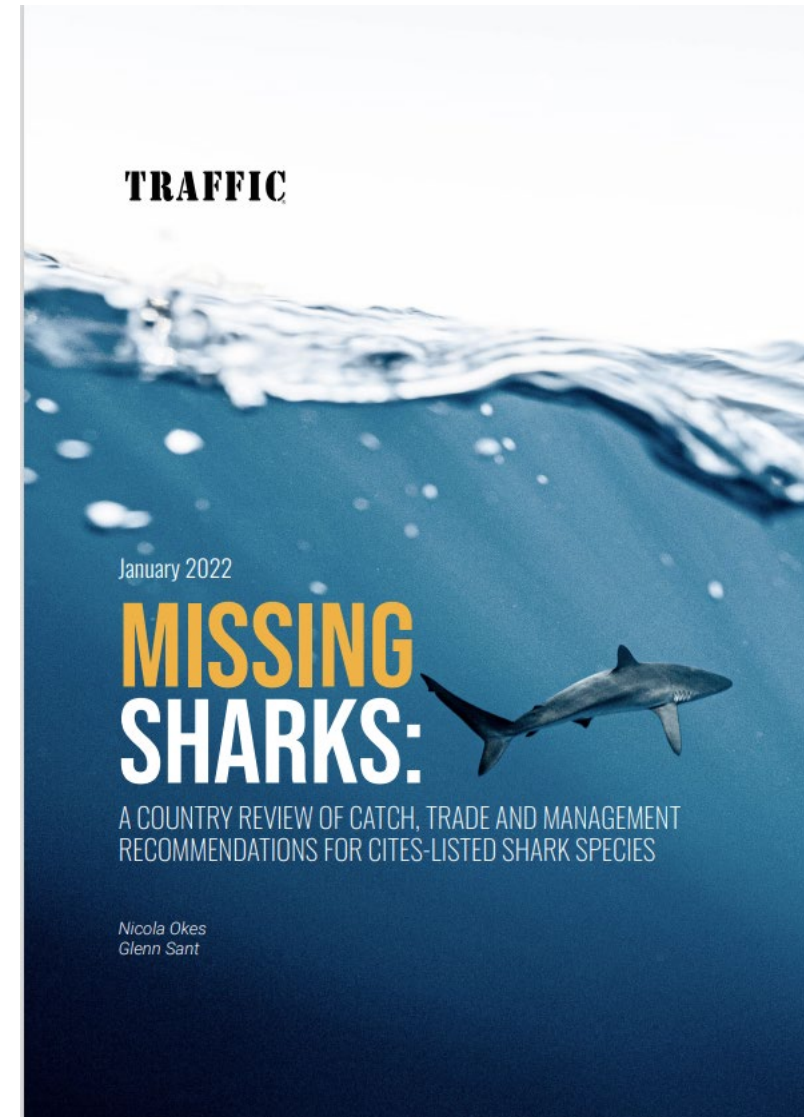
Study conducted under Decision 19.223 paragraph c)

Glenn Sant & Samantha Sherman



# Missing Sharks – Mismatch

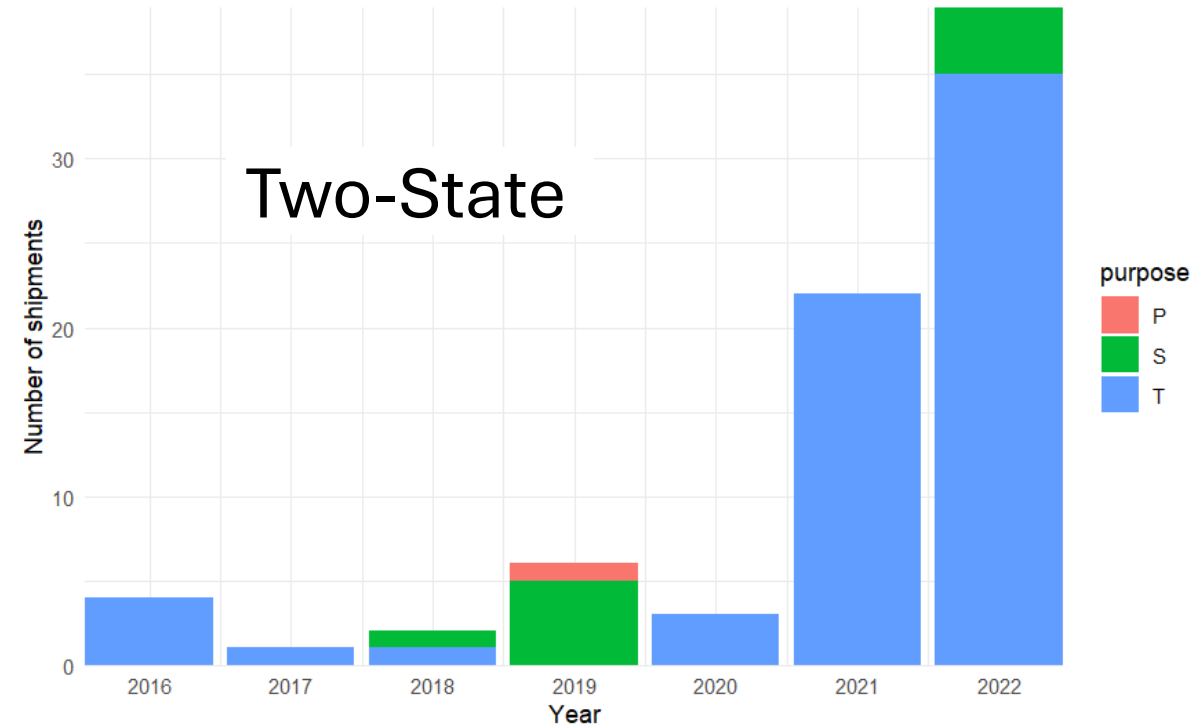
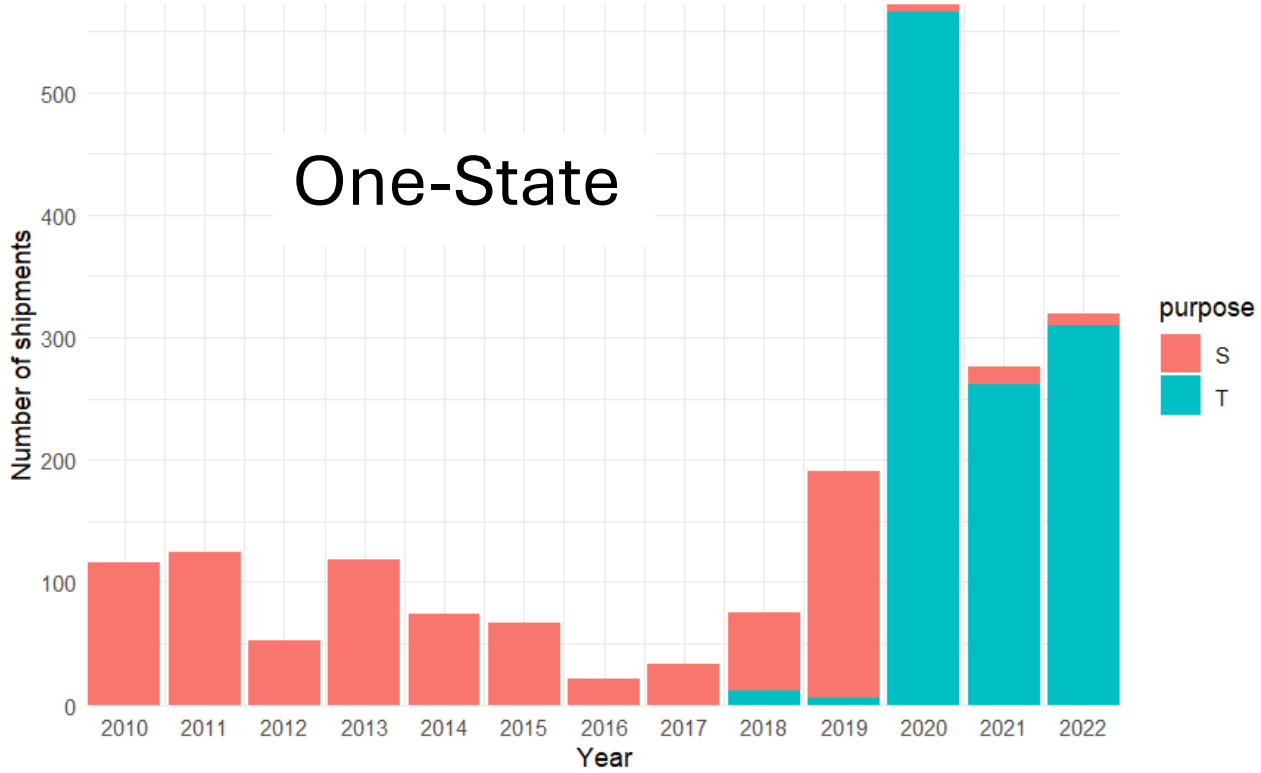
- CITES Parties raised concerns that trade data reported by Parties does not match expert expectations and that international trade in CITES-listed sharks may be going undetected and unreported and therefore request a Mismatch review - Decision 18.211
- CITES Parties note the findings of Missing Sharks 1 Review and request further examination of Mismatch – Decision 19.223 paragraph c)
  - A quantitative approach



# Catch in ABNJs and IFS reporting

- Issues arose with quantitative analyses due to lack of reporting to CITES
- For example – Introduction From the Sea:
  - **FIFTY-SEVEN** countries report **catch** of CITES-listed sharks to tRFMOs (excl. WCPFC and CCSBT)
  - Only **SIX** countries report **IFS** of CITES-listed sharks to Secretariat
  - Unknown proportion of tRFMO catch within EEZ vs. ABNJs
  - Catch data suggests IFS reported should be much greater than it is

# ABNJ Trade – Number of Transactions

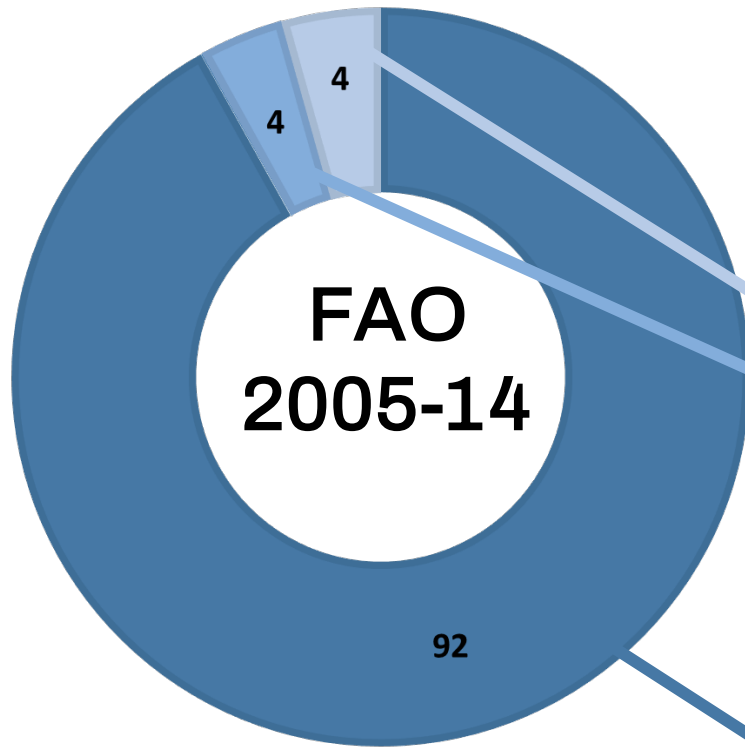




# CITES Trade Database

- 95 nations trade in at least 1 shark/ray species
  - **48** (50.5%) report **ALL** species
  - **32** (34%) report **SOME** species
  - **15** (16%) report **NO** species

Per Species	Average (%)	Low (%) N > 5	High (%) N > 5	Average (#)	Low (#)	High (#)
Nations Reporting	<b>84</b>	56	100	<b>10.4</b>	0	35
Nations Not Reporting	<b>16</b>	0	43	<b>2.9</b>	0	12
Total Trading	-	-	-	<b>13.3</b>	1	43



Species level reporting:

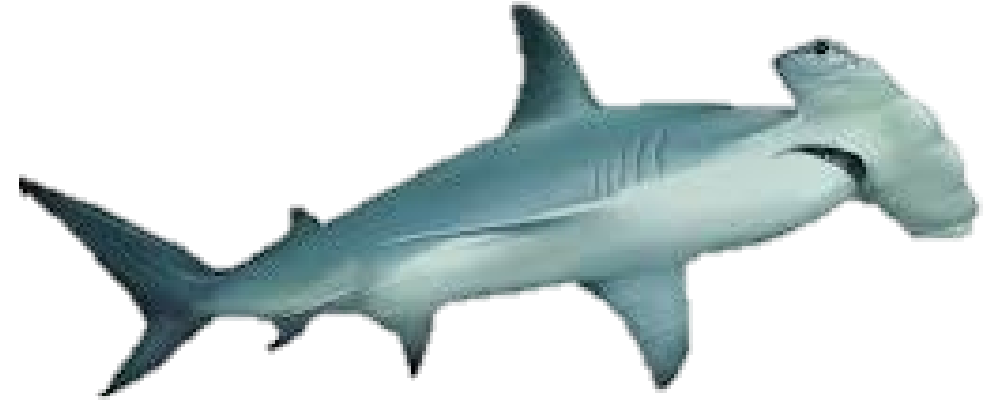
*Sphyrna lewini*

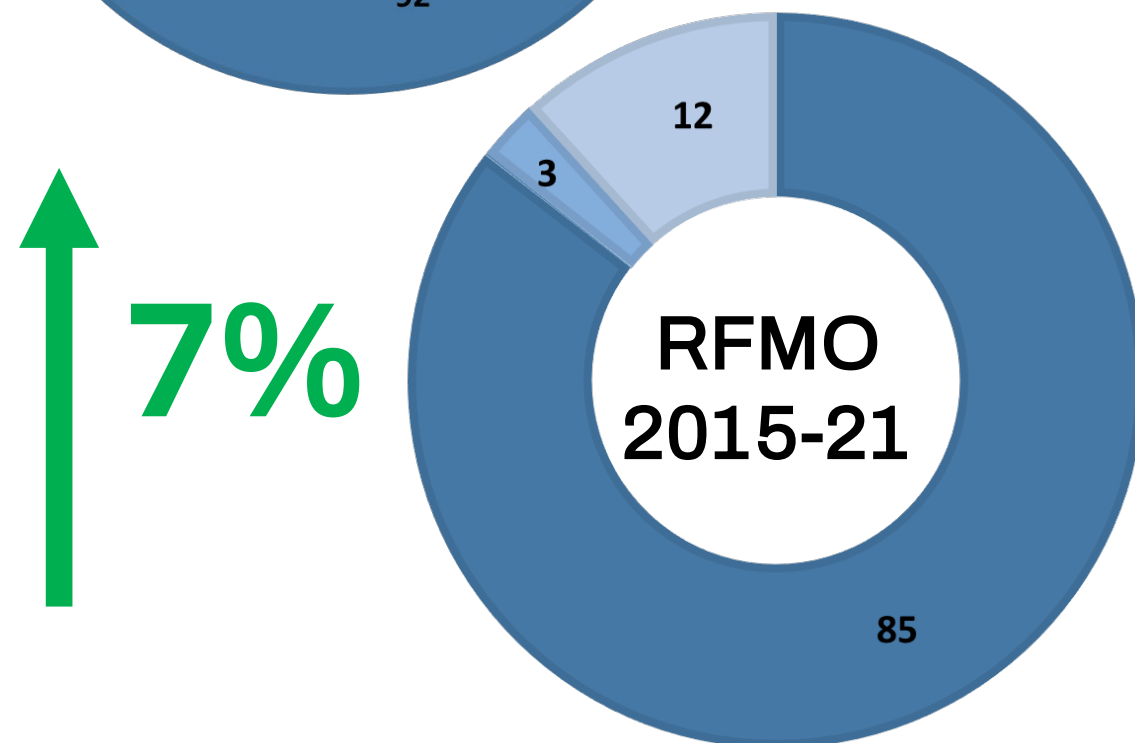
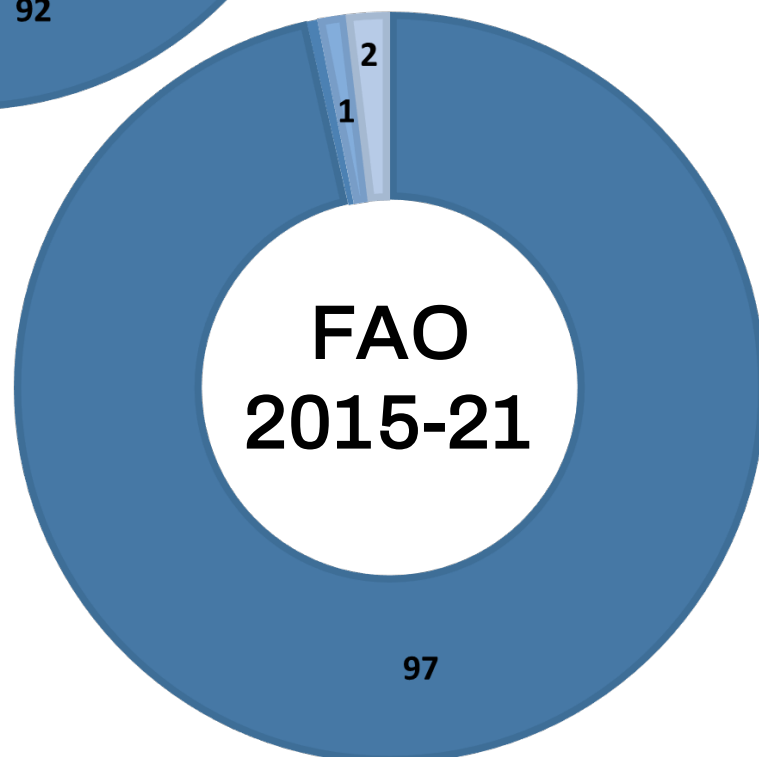
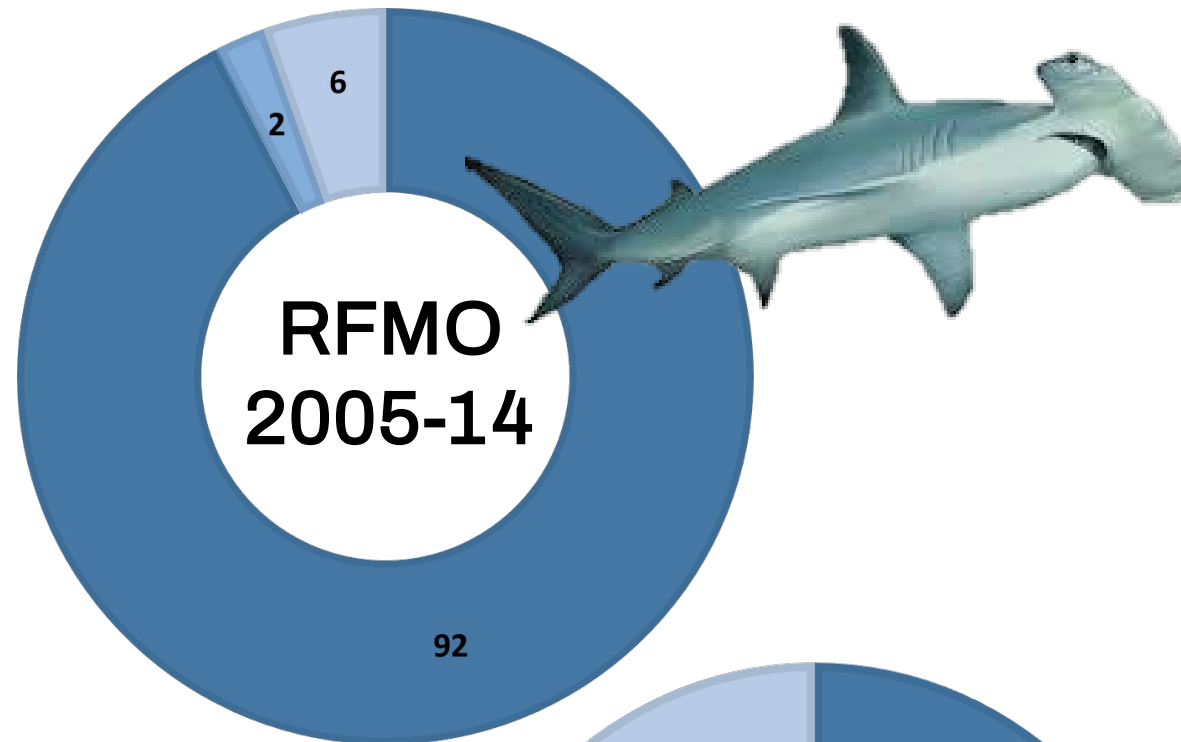
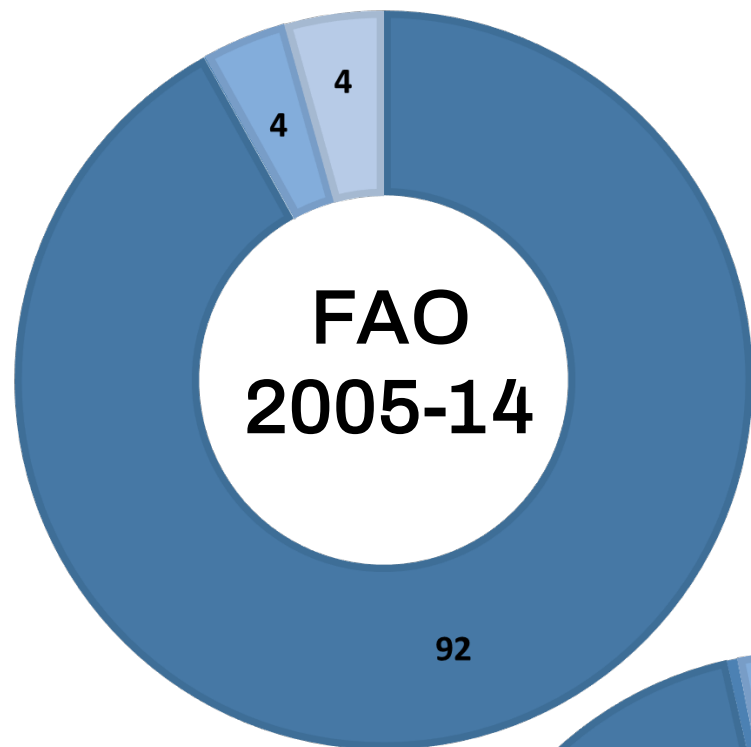
*Sphyrna zygaena*

Genus / Family reporting:


*Sphyrna* spp.

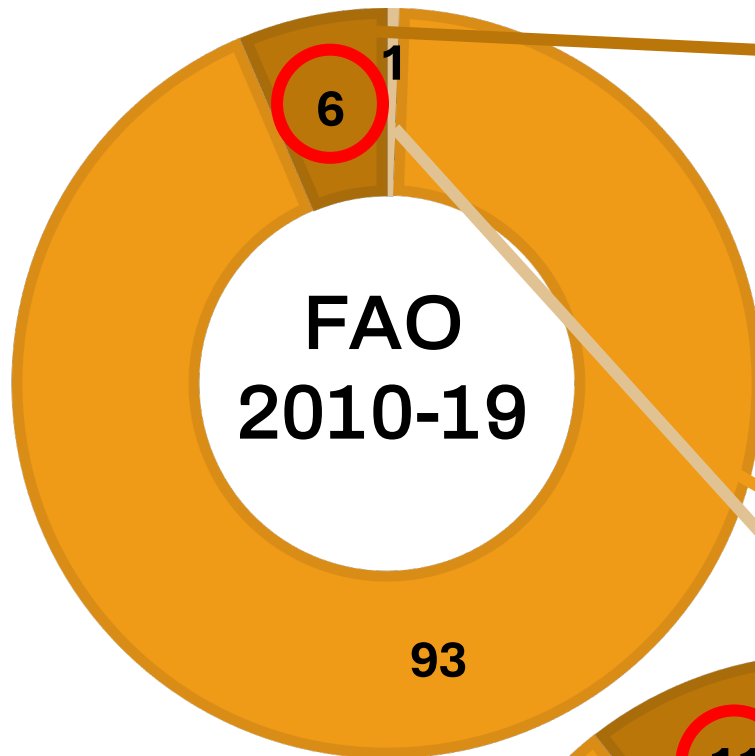
Sphyrnidae





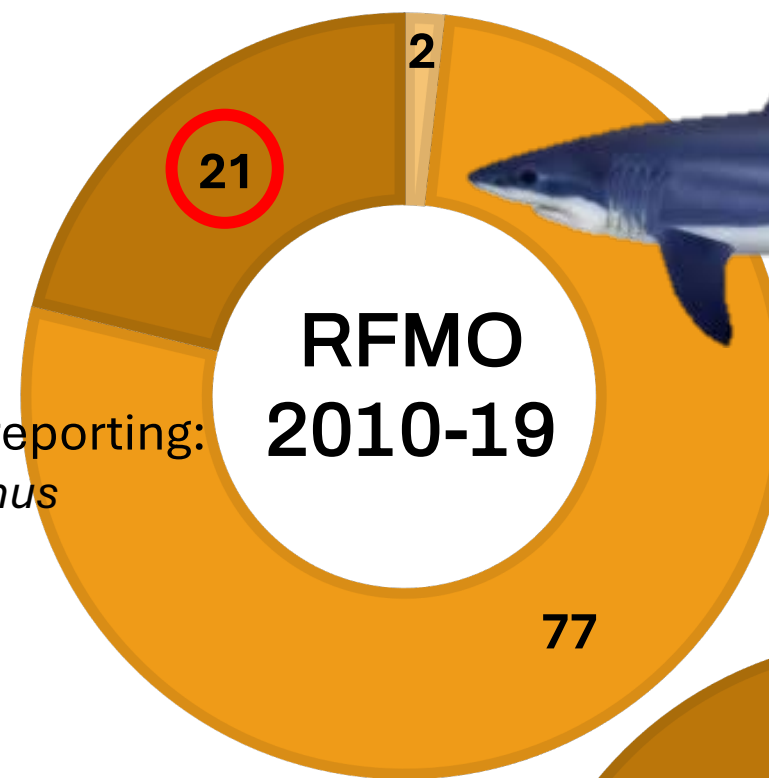
 **5%**

 **7%**

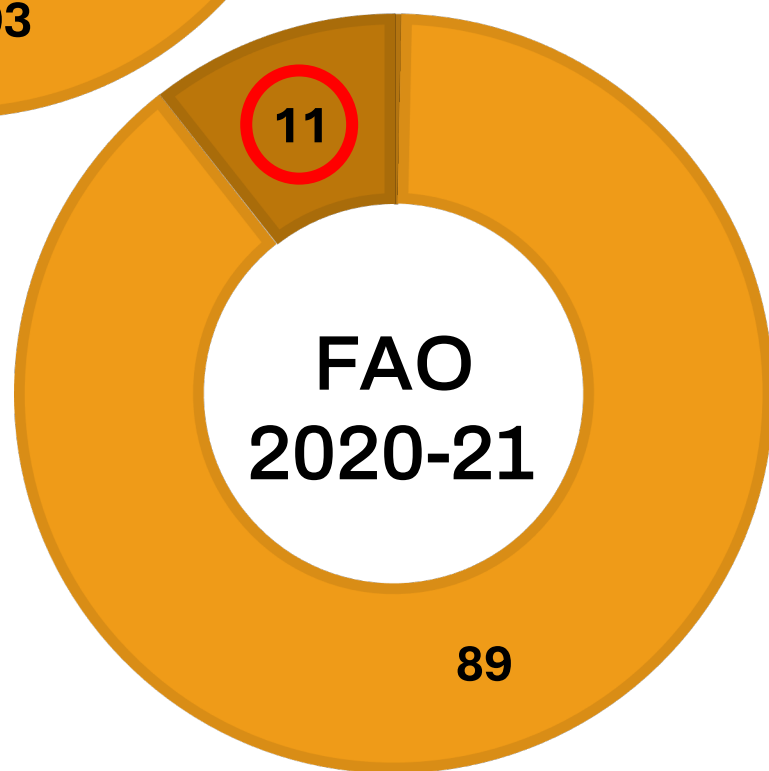


Genus reporting:  
*Isurus* spp.

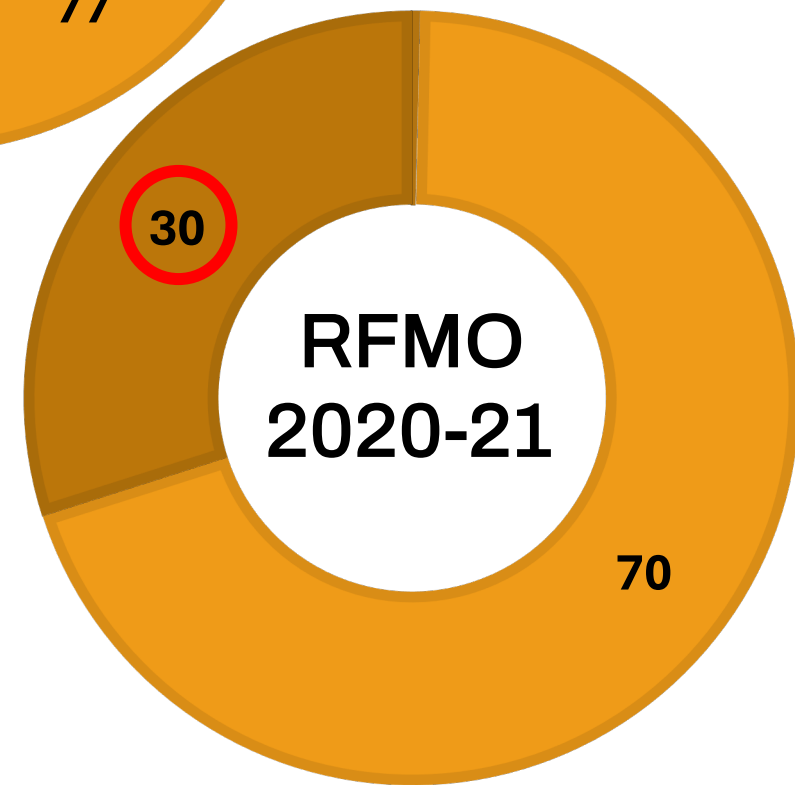
Species level reporting:  
*Isurus oxyrinchus*  
*Isurus paucus*



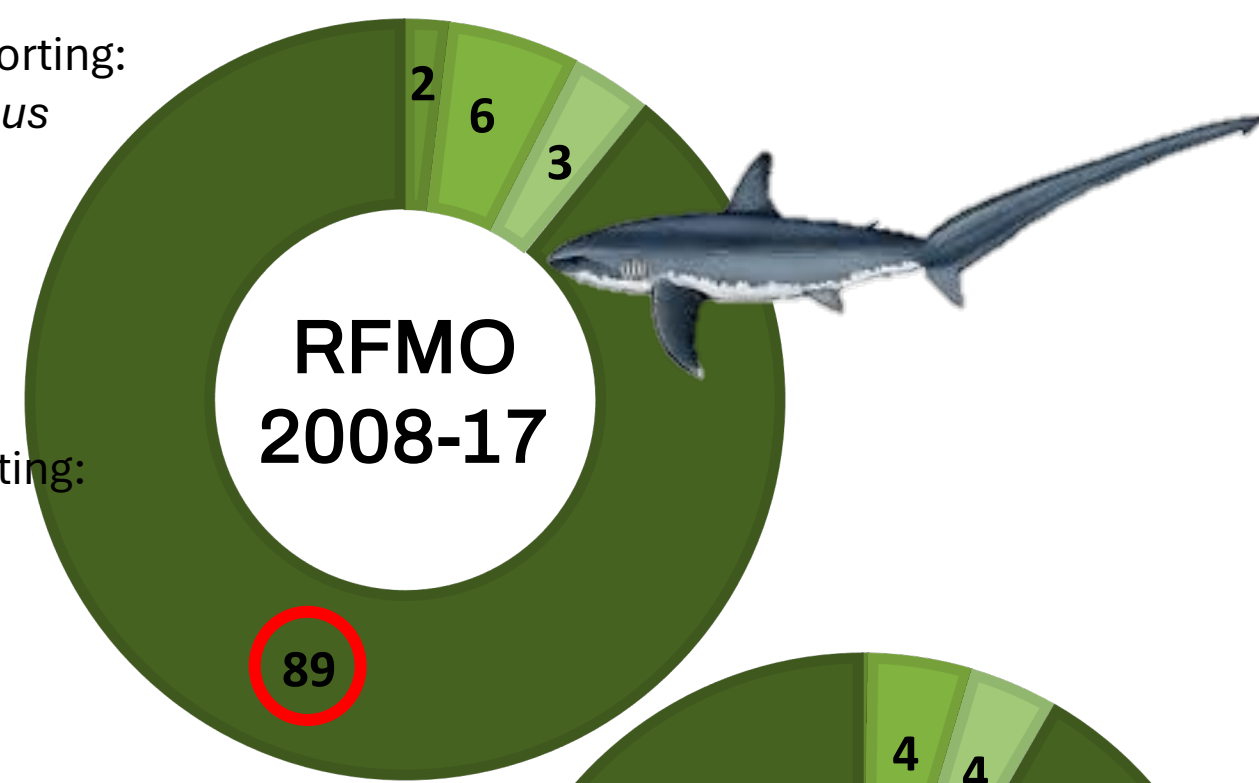
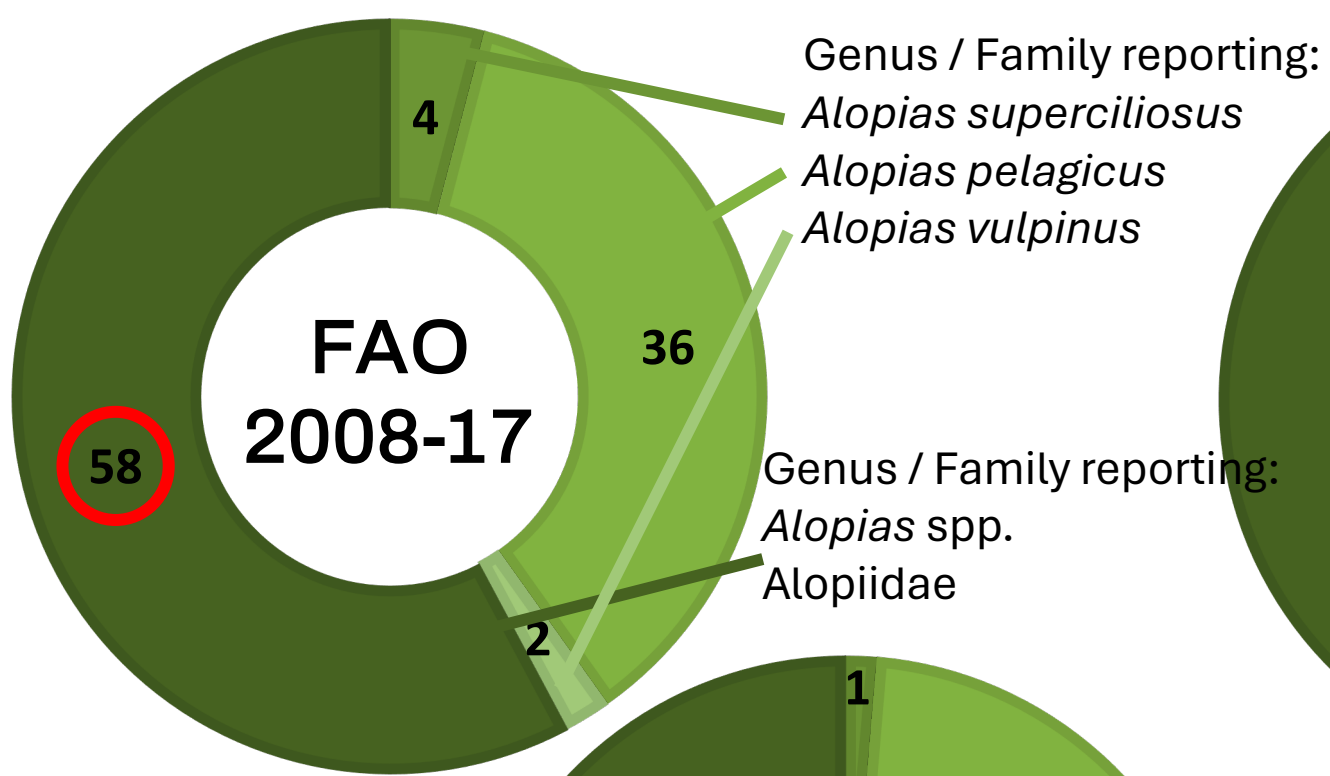
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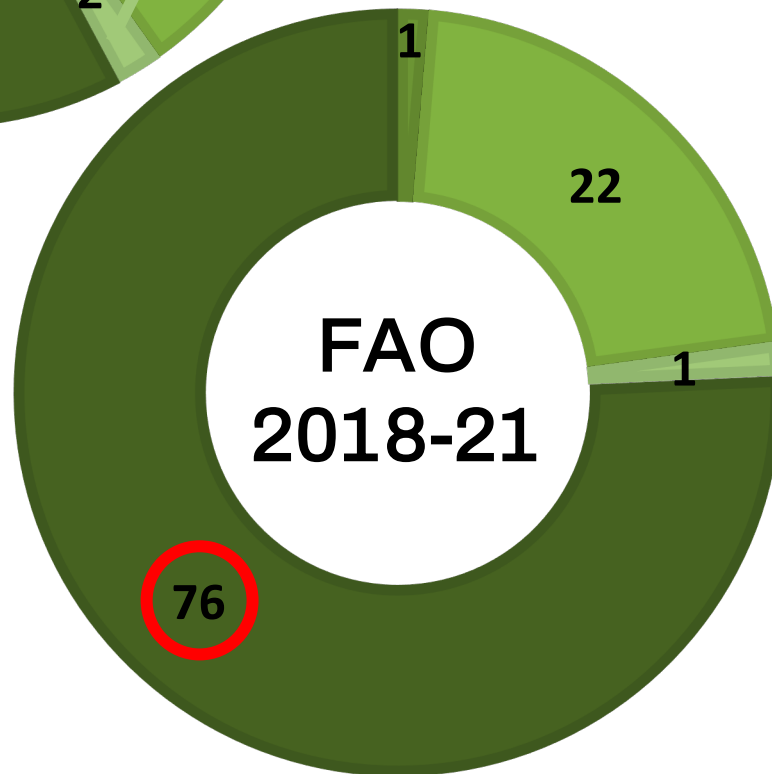
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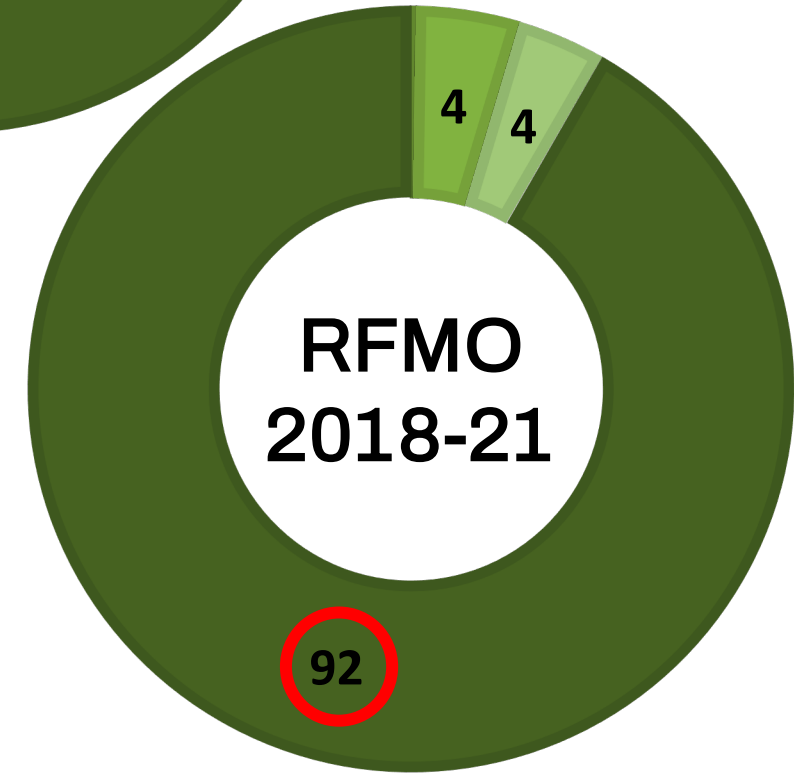




↓ 18%



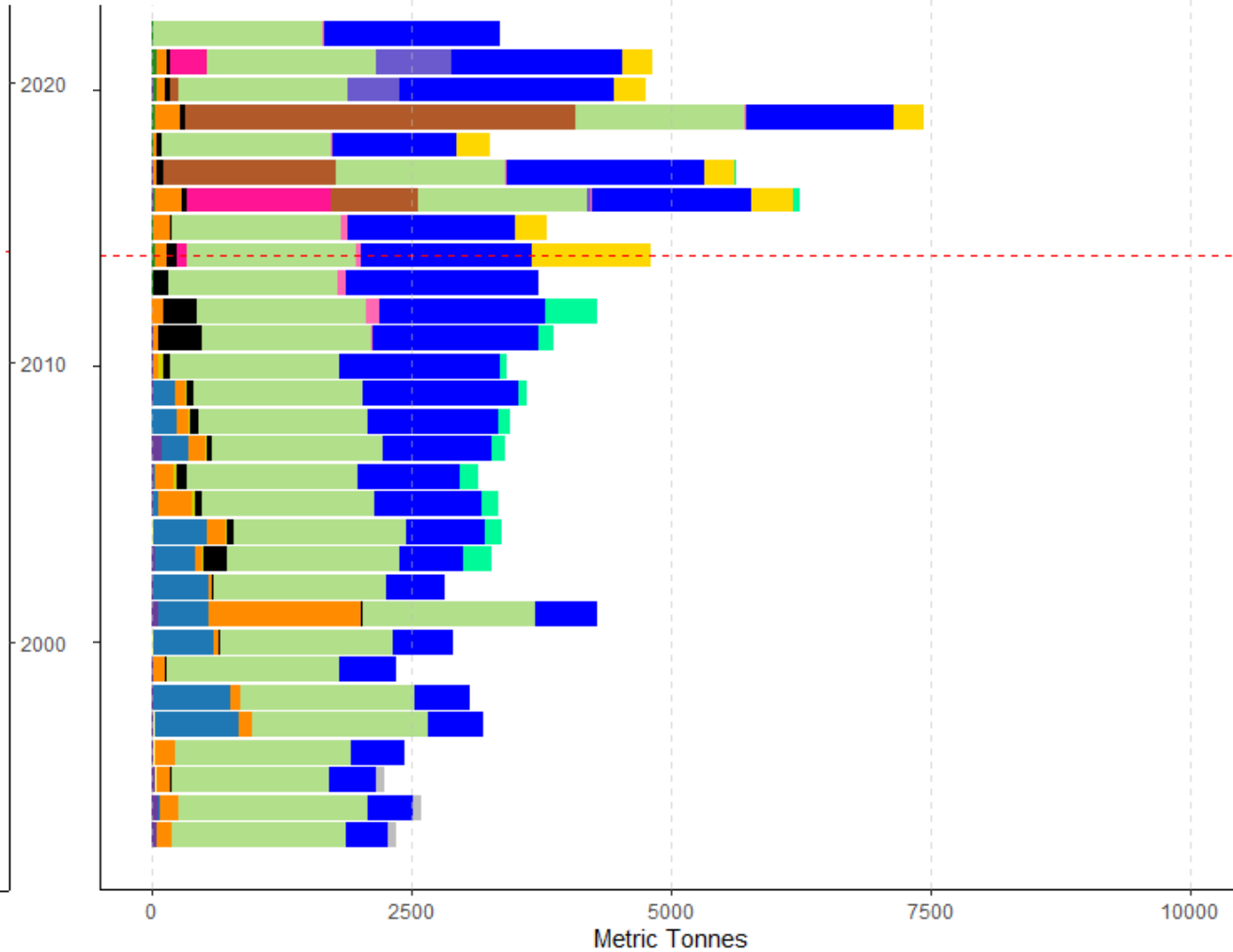
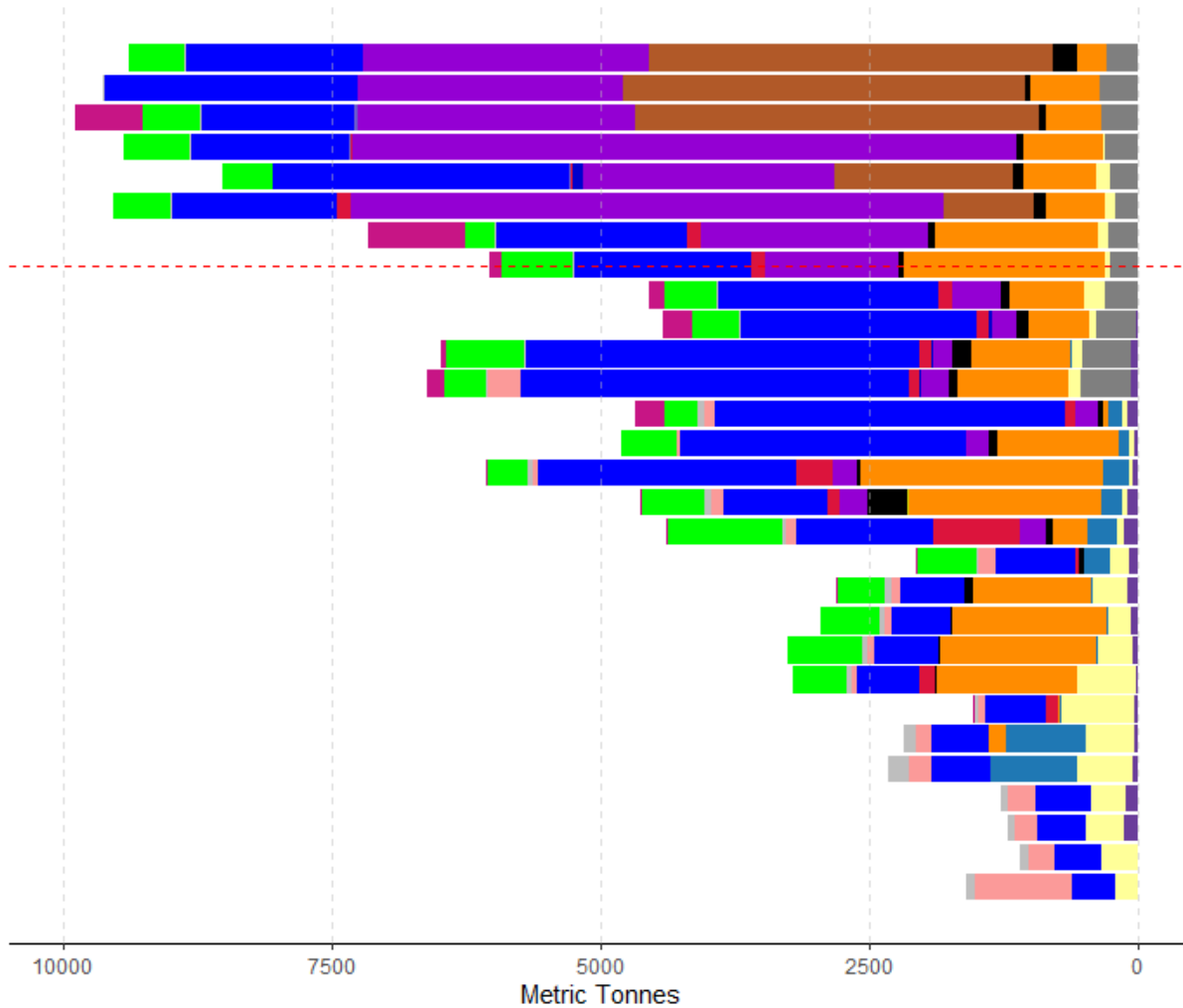
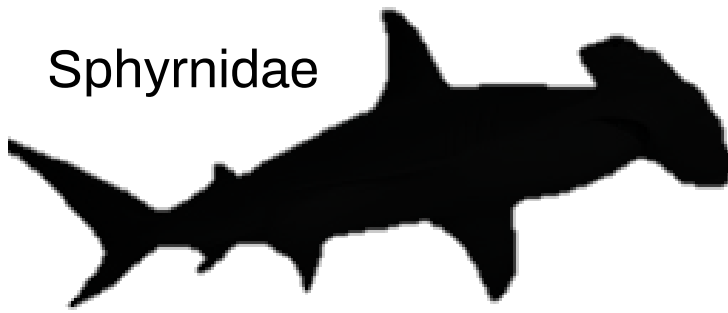
↓ 3%



# FAO

## Sphyrnidae

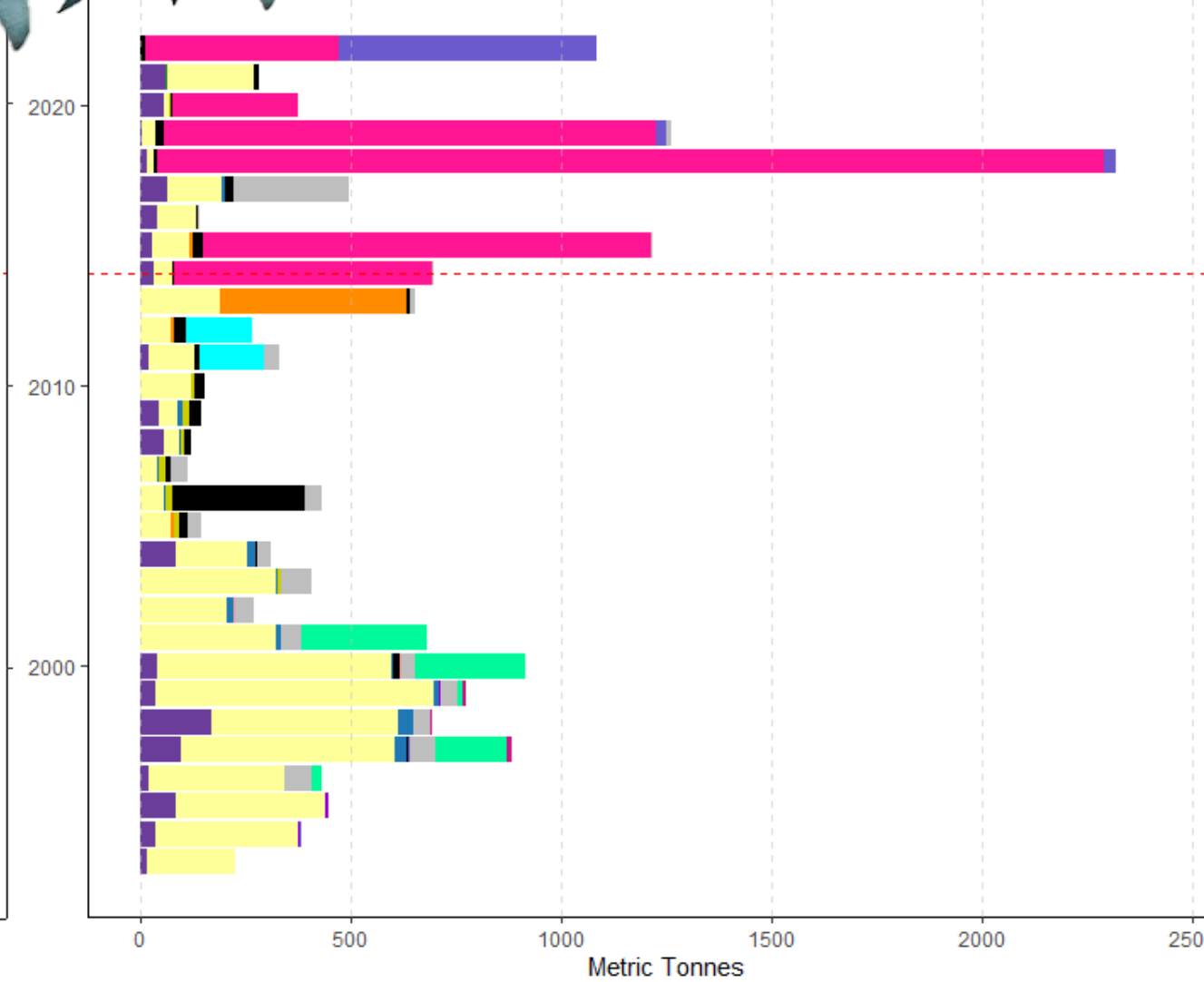
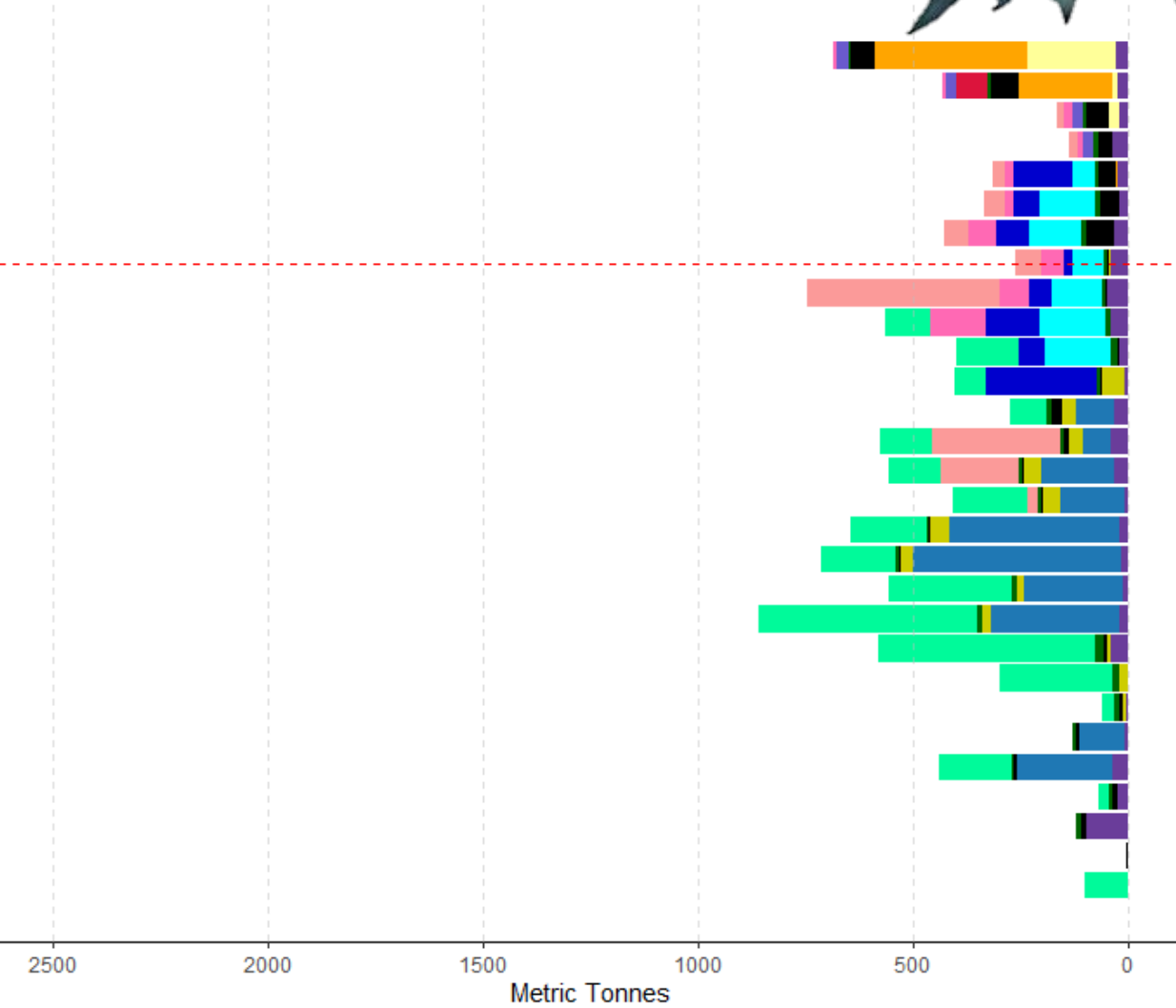
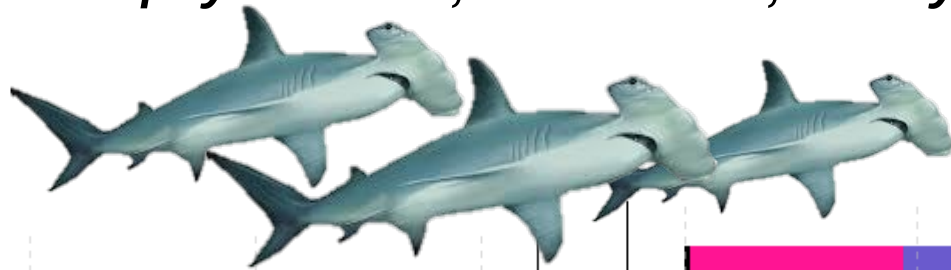
# RFMO



*Sphyrna lewini*, *S. mokarran*, & *S. zygaena*

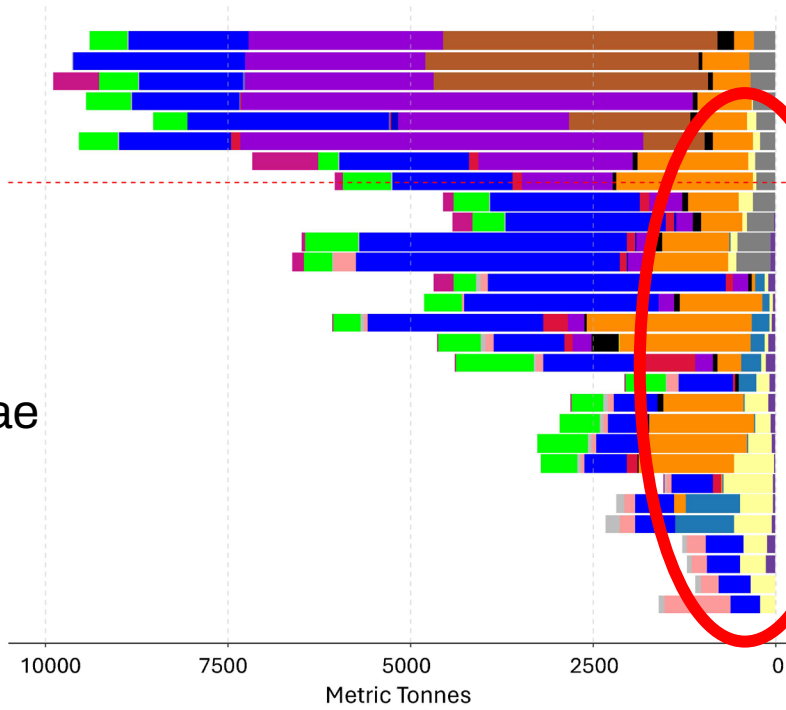
FAO

RFMO

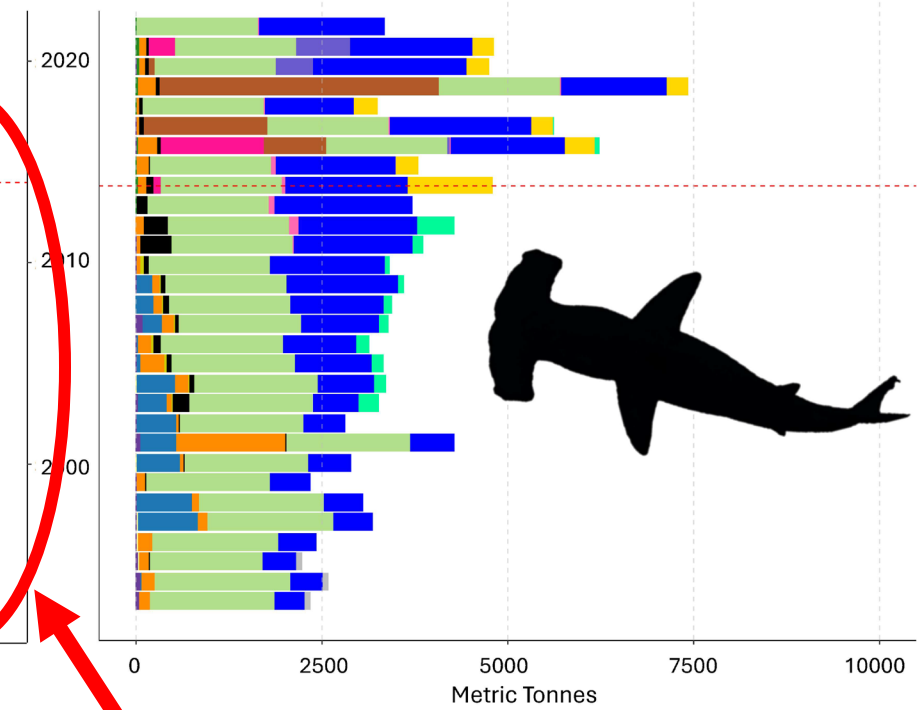


Sphyrnidae

FAO



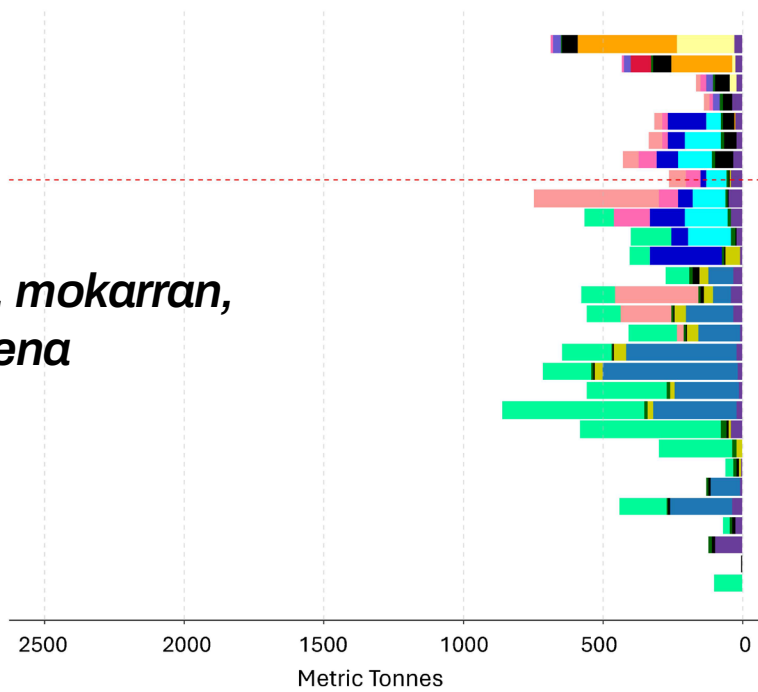
Metric Tonnes



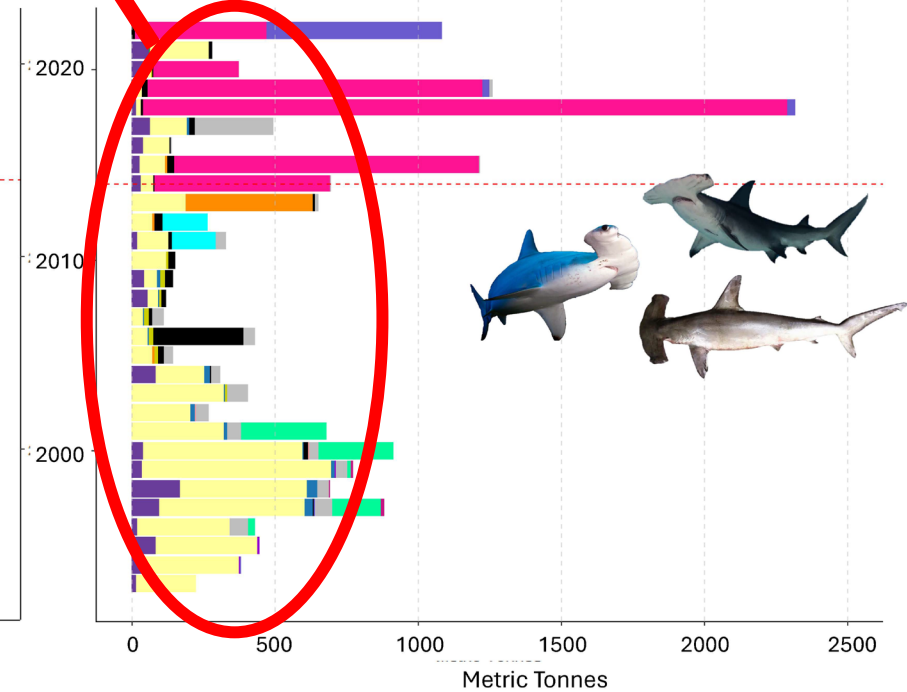
Metric Tonnes

RFMO

*Sphyrna lewini*, *S. mokarran*,  
& *S. zygaena*



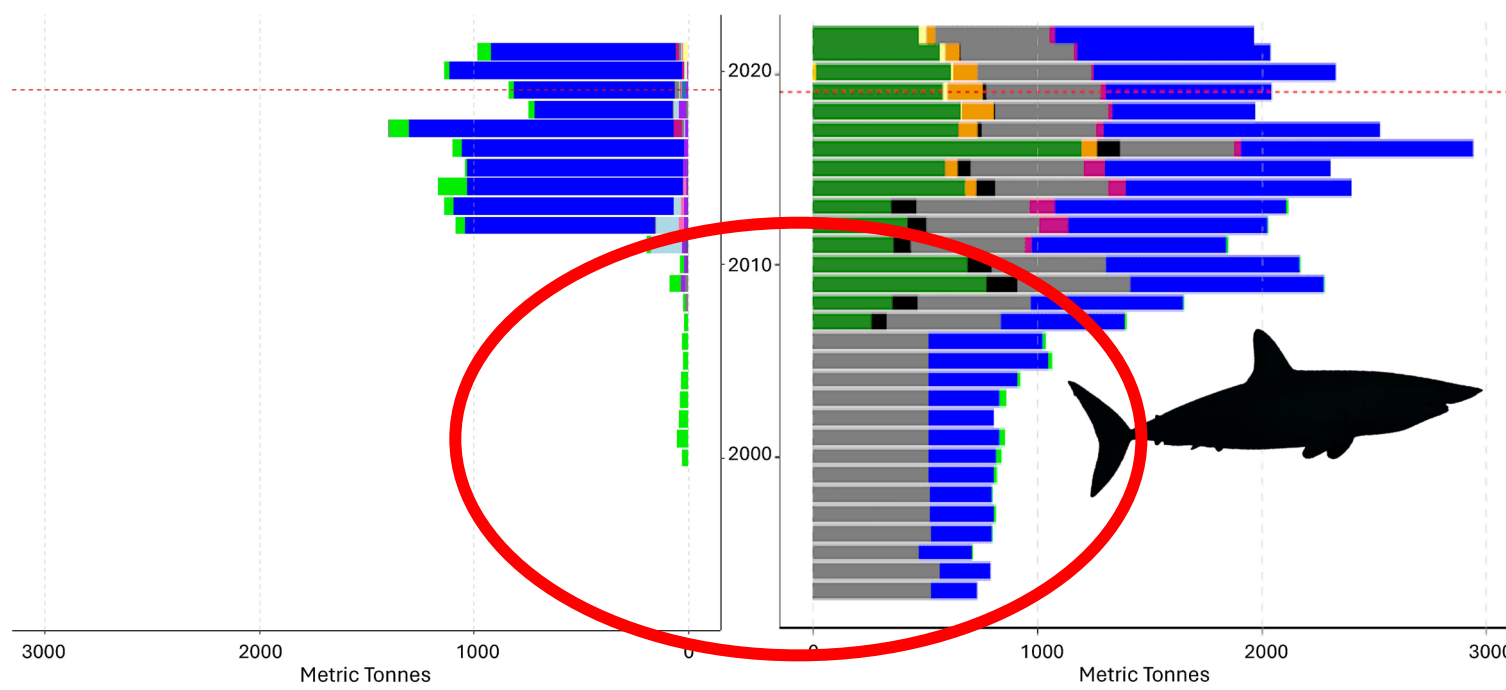
Metric Tonnes



Metric Tonnes

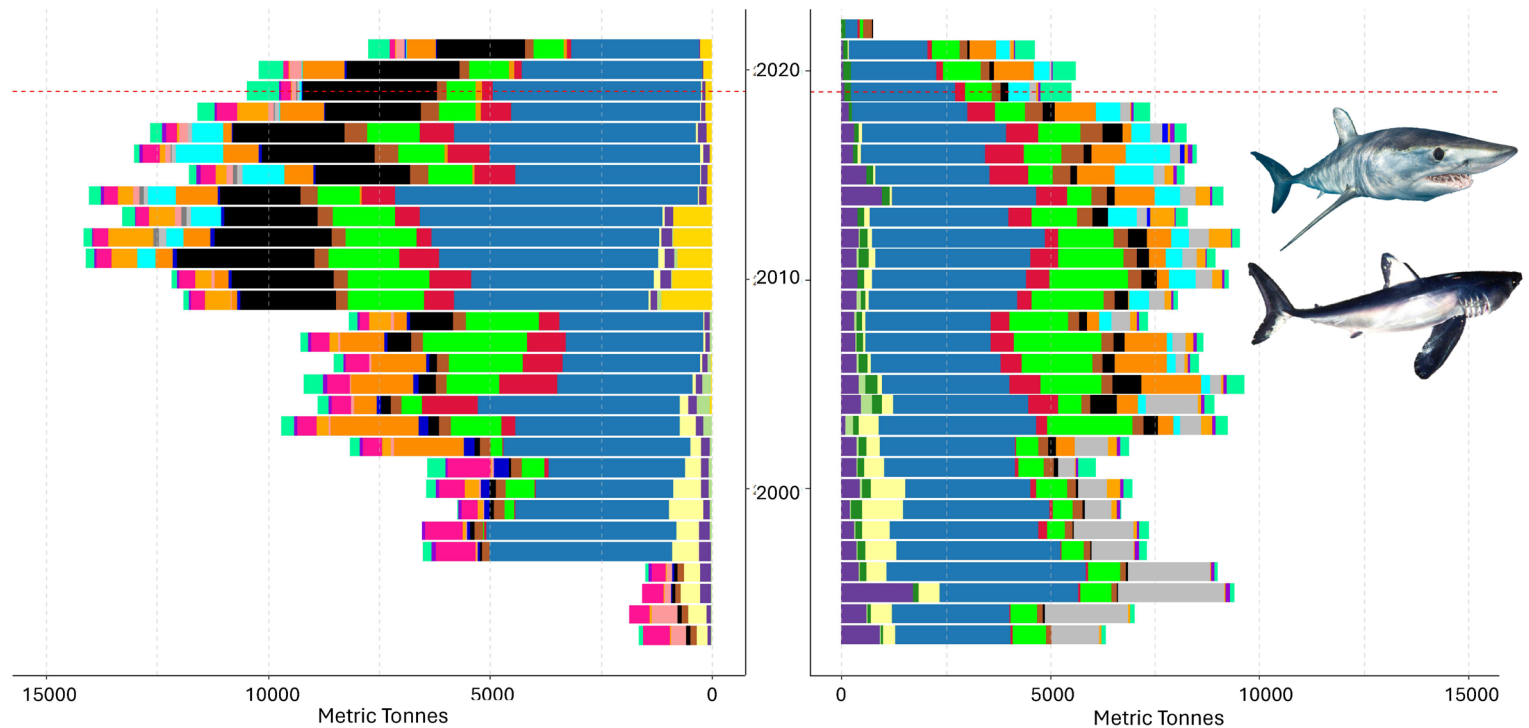
*Isurus* spp.

FAO



RFMO

*Isurus paucus* &  
*Isurus oxyrinchus*



# Catch in ABNJs?

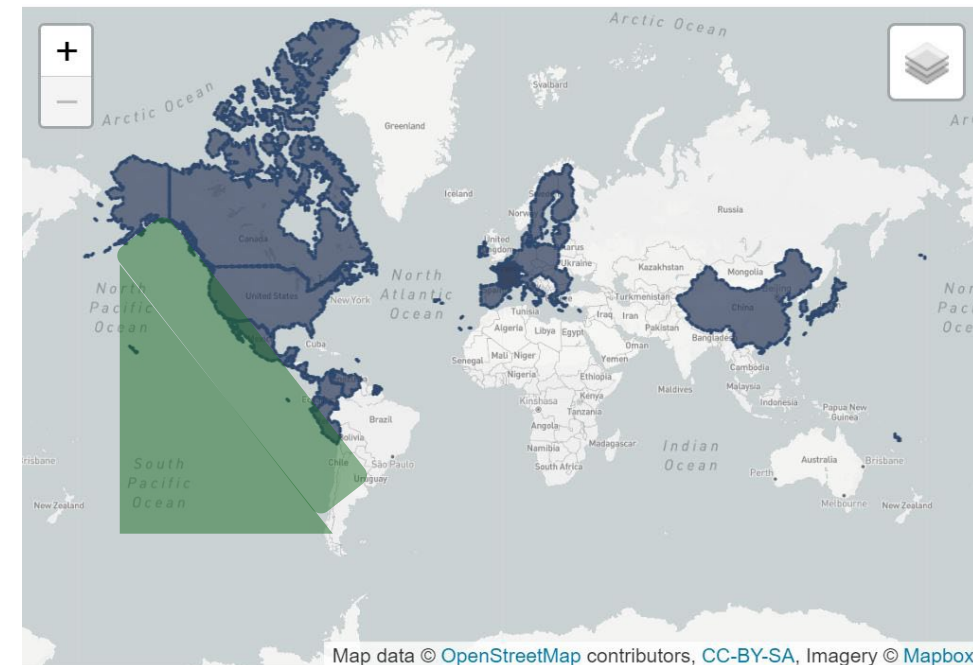
Species Group	CITES* <small>* product weight ≠ total catch</small>	RFMO	FAO	CITES/RFMO	CITES/FAO	RFMO:FAO
Alopiidae	1,935	33,637	51,218	5.8%	17.4%	0.66 X
Isurus spp.	12,833	20,488	20,055	62.6%	64.0%	<b>1.02 X</b>
Sphyrnidae	726	52,644	76,243	1.4%	0.9%	0.69 X
Mobulidae	97.5	7,623	31,654	1.3%	0.3%	0.24 X

- 8 countries higher volume of trade than catch in FAO db; 12 with nothing in FAO db
- 9 higher RFMO incl. 2 with nothing in FAO db; 13 with trade but no RFMO catch
- 5 countries trade but no CITES-species catch in RFMO or FAO databases



# Key Findings

- NDFs require consideration of all mortality (landings and dead discards)
  - Not publicly available in **ANY** dataset
- Species-specific data is required for countries to produce scientifically sound NDFs
  - Particularly for non-CPC countries of RFMOs
- Need for access to catch, effort, and catch disposition data *for all countries from all RFMOs* and relevant non-CPC countries to enable completion of comprehensive NDFs



IATTC Range and CPCs