

Management of Shark International IPOA Perspective

19 February 2024

Stakeholder Consultation on National Plan of Action for Conservation & Management of Sharks in India (NPOA-Sharks, India)

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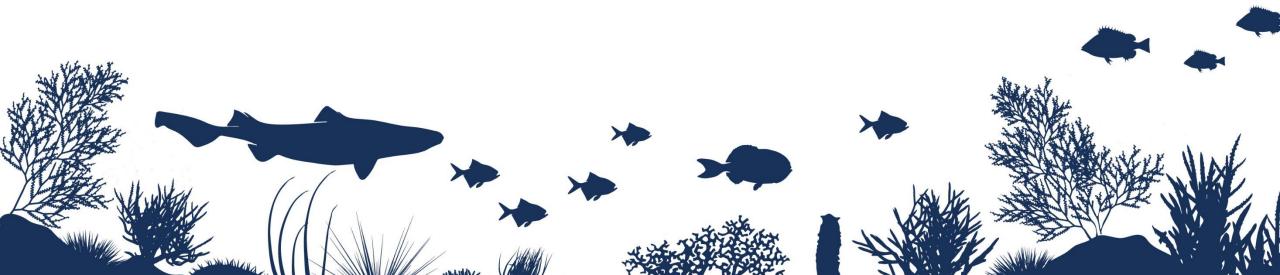


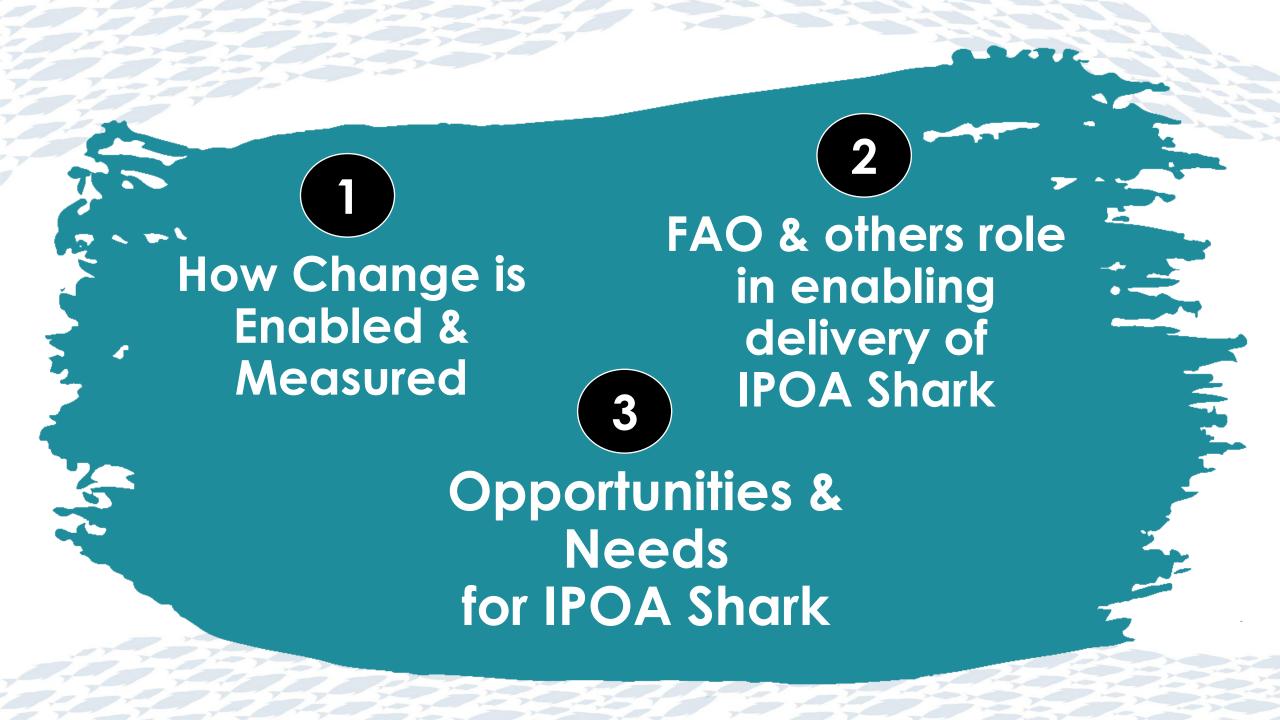






Management of Sharks: A Global Perspective









STATE OF HIGH SEAS RESOURCES

S.M. Garcia and J. Majkowski* FAO Fisheries Department Rome, Italy

Total reported catches of identified sharks in FAO statistics have increased from 280,000 tons in 1970-1974 to 358,000 tons. Forty-eight to 58 percent of the production is from the Atlantic, especially in the North; 23-33 percent is from the Pacific North, Central and South; 12-21 percent is from the Indian Ocean, especially from the West. During the same period, the landings of unidentified elasmobranches has increased from 250,000 tons to 360,000 tons, part of which are certainly sharks. On the U.S. Atlantic coast and Gulf of Mexico, estimated landings increased from 13,000 tons in 1965 to 27,000 tons in 1980. This is largely due to increased recreational fisheries, up from 2 to 59 percent during that period (NMFS, 1985).

Most of the reported catches of sharks are taken on the continental shelf (or at its edge) and around islands, but some species are truly oceanic-pelagic and of more direct concern for this paper. Oceanic Papers presented at the

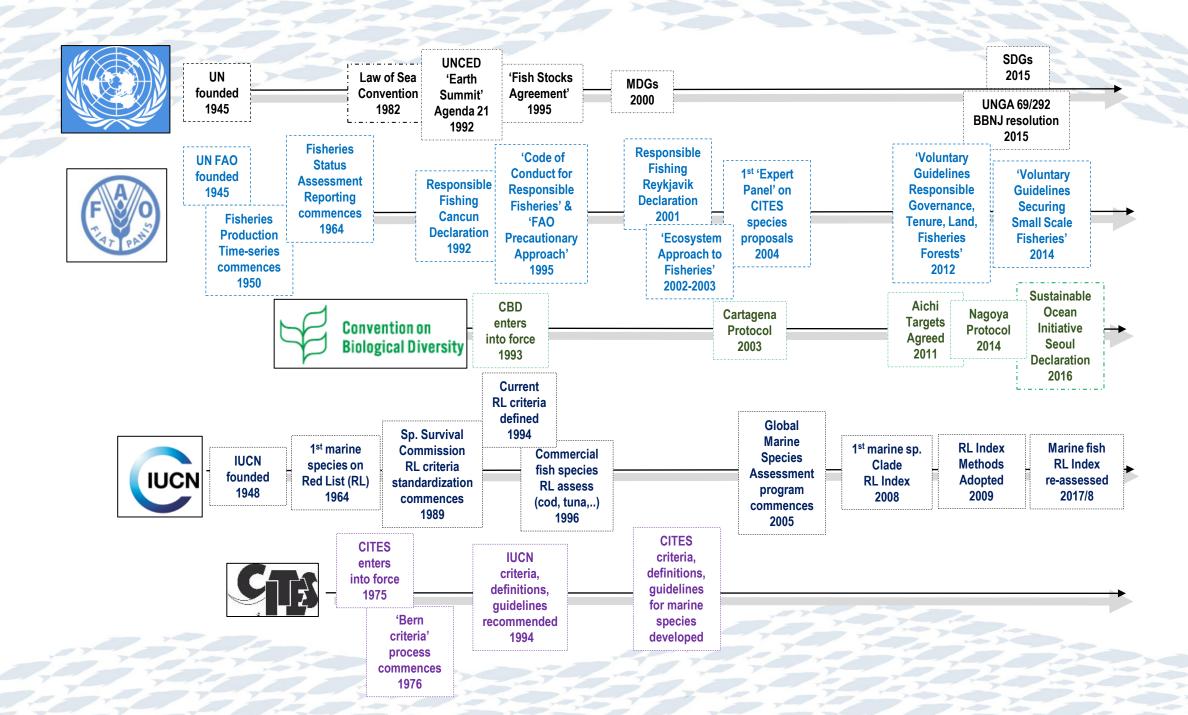
TECHNICAL CONSULTATION ON HIGH SEAS FISHING

FAO Fisheries Report No. 484 Supplement

21. The present issues concerning high seas fisheries are directed at the bycatch of marine mammals, turtles and seabirds and other species. Few coastal States today maintain statistics on bycatches, including the species mentioned above. In the same way, discards of unwanted fish species are not recorded except for those countries using onboard observer programmes on their fishing vessels. It should be noted, however, that I-ATTC requests data on sharks caught in tuna fishing operations, and ICCAT, concerned that the catch of pelagic sharks is reaching considerable proportions, is making estimates of the shark bycatch. There is presently no identifiable solution to the recording of bycatch/discard information, since cross-checking of such data would not be possible with no commercial trade involvement. The Consultation may therefore, wish to consider the issue of the bycatch of mammals, turtles, seabirds and other species under the agenda items covering research and management.

Rome, 7-15 September 1992

GARCIA S.M. and J. MAJKOWSKI, 1992. State of high seas resources. <u>In</u>: T. Kuribayashi and E.L. Miles (Eds.), The law of the sea in the 1990s: a framework for further international cooperation. The Law of the Sea Institute. University of Hawai: 175–236



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THE IUCN RED LIST STATUS OF SHARKS, RAYS, AND CHIMAERAS



EXTINCT



CRITICALLY ENDANGERED



ENDANGERED



VULNERABLE



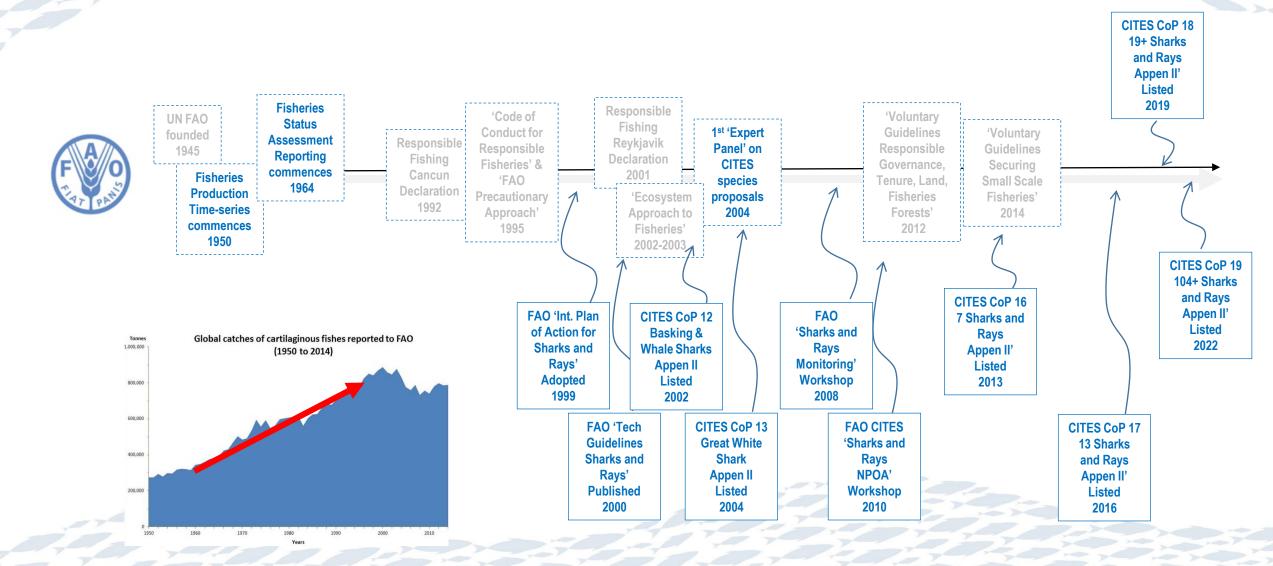
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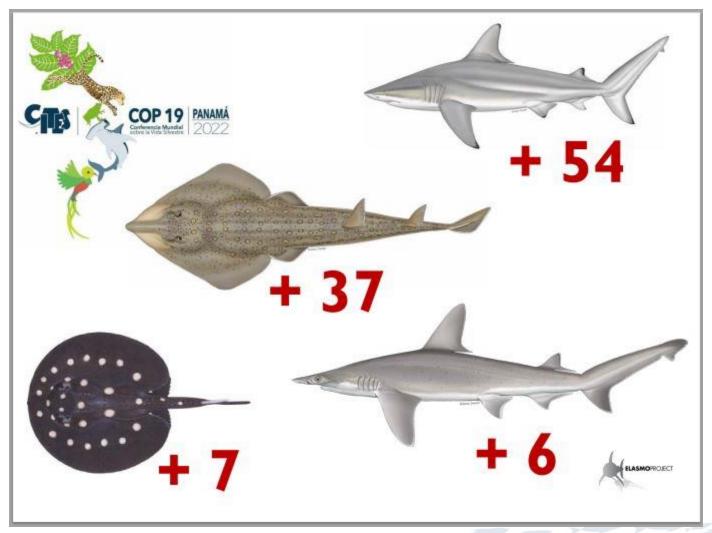


DATA DEFICIENT

Data extracted January 2024

Fisheries Evolution: Progress across global processes





sharkspecialistgroup@gmail.com http://www.iucnssg.org/



FAO & others role in enabling delivery of IPOA Shark



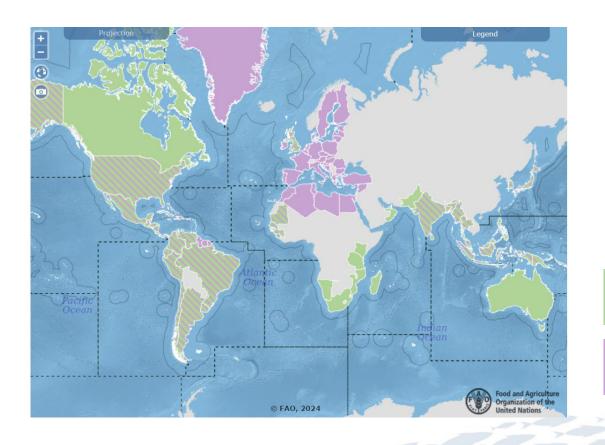








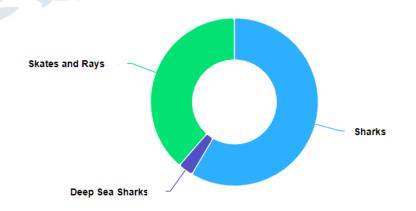
National and Regional Plans of Action



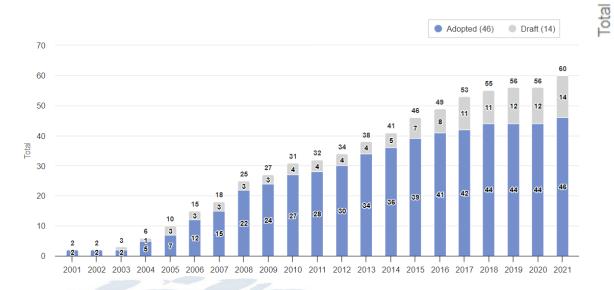
National Plans of Action

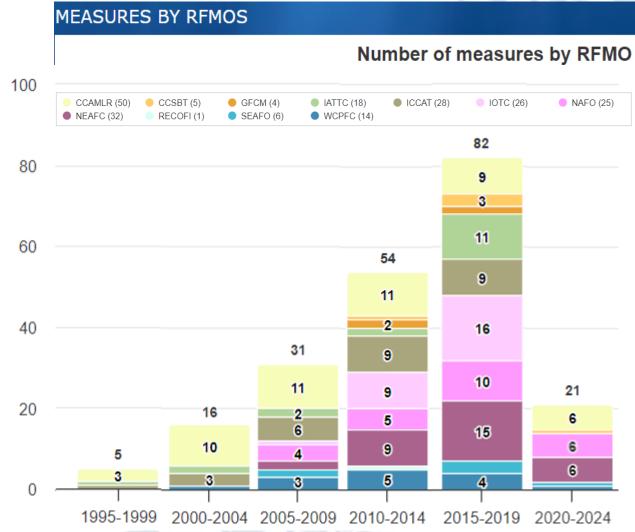
Regional Plans of Action



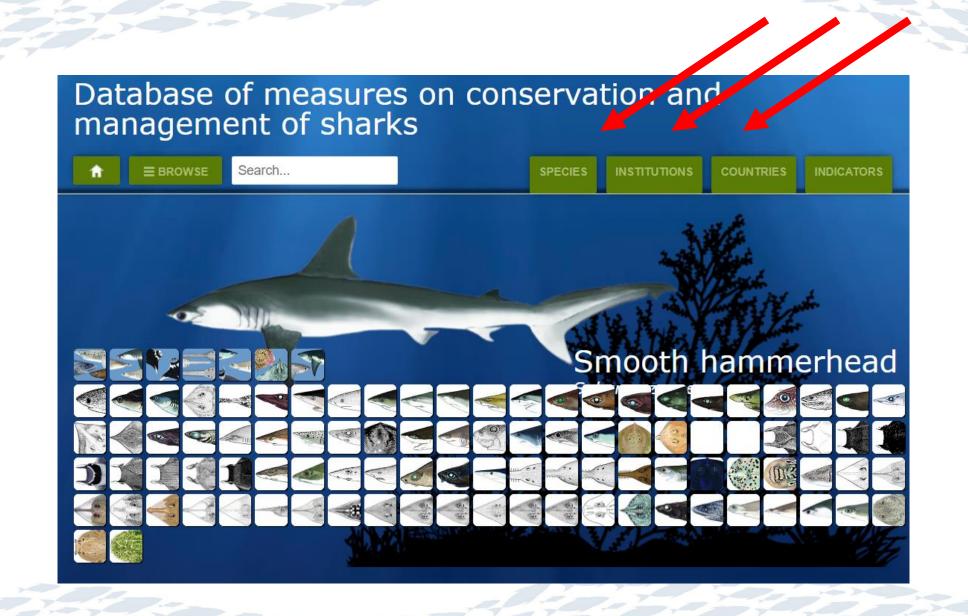


NPOA-Sharks adoption (cumulated)

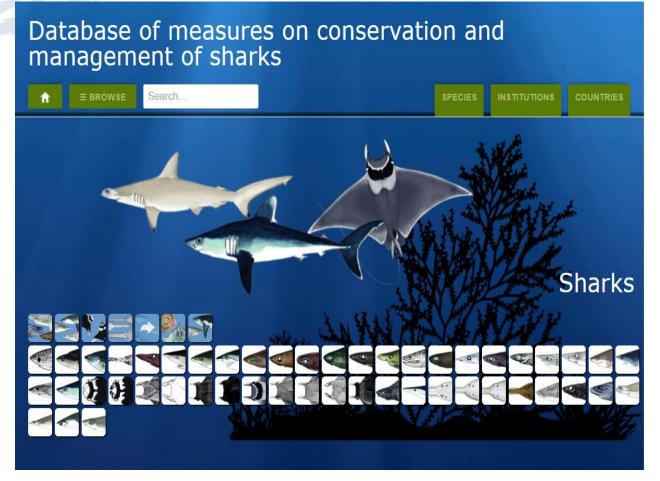


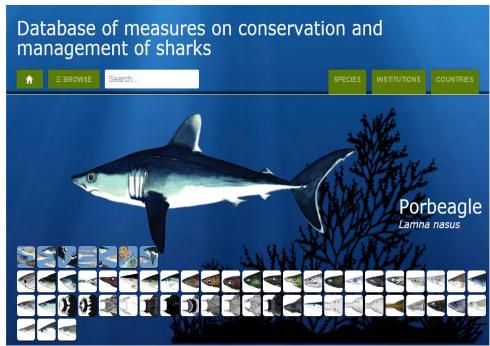












http://www.fao.org/ipoa-sharks/database-of-measures/en/

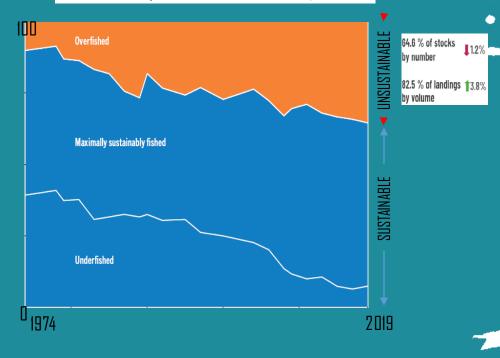




Opportunities & Needs for IPOA Shark



TOTAL FISHERIES AND AQUACULTURE PRODUCTION 2021 = 218.4 Mt, A NEW RECORD



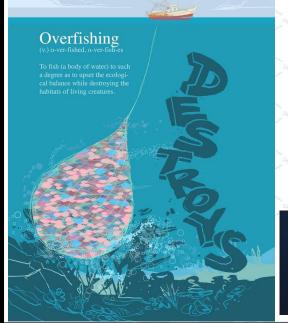


Scientists Reveal How Ocean Acidification Could Lead to Mass Extinctions











SHARKS

on the brink of

EXTINCTION



Our marine life has been replaced by trash SaveMyOceans.com





Positive narratives for Fisheries contributions





CONFÉRENCE DES MINISTRES DES PÉCHES Sud-Ouest de l'océan Indien : S'unir pour



















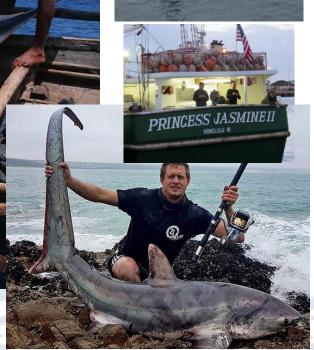












Making & measuring orderly progress

Component & Complementary Indicator(s)



Indigenous People, Communities

National Ministries [Fish & Env]

National Stat Offices, RFBs & RFMOs

International Organizations, Data Repositories



FISHERY AND AQUACULTURE STATISTICS YEARBOOK 2020

FISHERIES AND AQUACULTURE PRODUCTION BY ISSCAAP GROUP, BY QUANTITY AND ESTIMATED VALUE (CONTINUED)

ISSCAAP group Production source	Unit	2014	2015	2016	2017	2018	2019	2020
Sharks, rays, chimaeras								
Capture production	Thousand tonnes	7 927	7 683	6 746	7 253	7 638	6 211	6 464
	USD/tonne	700	630	690	900	850	920	910
	USD millions	5 549	4 840	4 655	6 528	6 492	5714	5 882

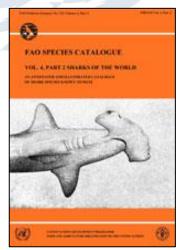
CAPTURE FISHERIES PRODUCTION OF AQUATIC ANIMALS BY ISSCAAP CLASSIFICATION

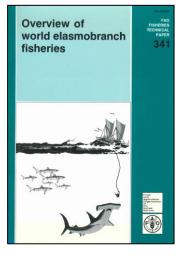
ISSCAAP Division / ISSCAAP Group	Production ¹ (annual average)					Prod	Share ² of total division production,	Share ² of total production,		
	1980s	1990s	2000s	2010s	2017	2018	2019	2020	2020	2020
Miscellaneous pelagic fishes	10 987	12 668	11 164	10 580	10 849	10 965	9 847	9 689	14.8%	10.7%
Sharks, rays, chimaeras	615	769	800	736	683	694	660	666	1.0%	0.7%
Marine fishes not identified	7 924	9 778	9 280	9 343	9 837	10 <i>517</i>	10 563	10 742	16.4%	11.9%

EXPORTS OF AQUATIC PRODUCTS BY ISSCAAP CLASSIFICATION

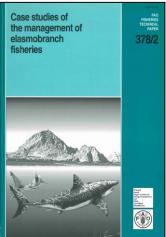
ISSCAAP Division / ISSCAAP Group	Exports ¹ (annual average)				Exports 1				Share ² of total division,	Share ² of total exports,
	1980s	1990s	2000s	2010s	2017	2018	2019	2020	2020	2020
Sharks, rays, chimaeras	114	307	462	514	481	491	504	365	0.5%	0.2%
Marine fishes not identified	4 687	9 674	14764	20 619	20 074	21 821	21 485	21 047	31.1%	13.8%



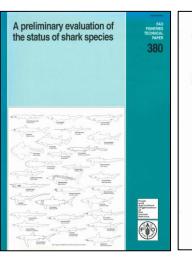


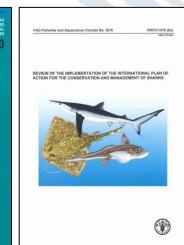


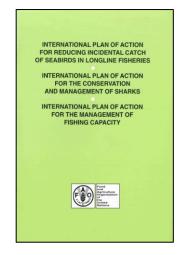


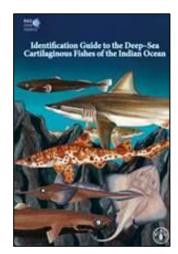


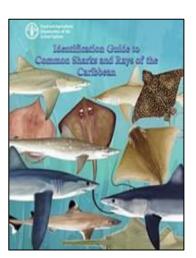










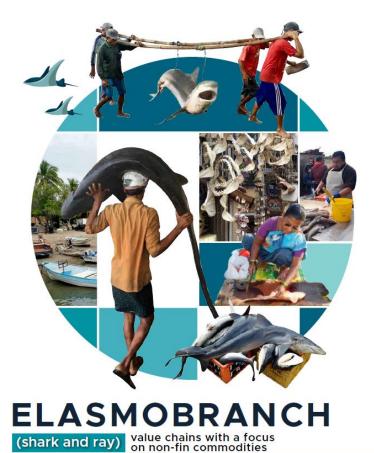














APPENDIX 1: INDIA VALUE CHAIN STUDY REPORT

A STUDY OF SHARK & RAY NON-FIN COMMODITIES IN INDIA

Report

Prepared by

ICAR- Central Marine Fisheries Research Institute Kochi, India 2020







DOI: 10.1111/faf.12788

ORIGINAL ARTICLE



Global governance guard rails for sharks: Progress towards implementing the United Nations international plan of action

Eric Gilman¹ | Milani Chaloupka^{2,3} | Nathan Taylor⁴ | Lauren Nelson⁵ | Kim Friedman^{6,7} | Hilario Murua⁸

Abstract

There is growing concern over the conservation status of sharks and relatives exposed to fishing mortality. The Food and Agriculture Organization of the United Nations in 1999 adopted the *International Plan of Action for the Conservation and Management of Sharks* (IPOA), which provides nations with advice on adopting and implementing national plans. An assessment of global national and regional plans of action on sharks (NPOAs) found that: most are out of date; limited use of specific, measurable and timebound objectives and activities; no outcome objectives; and few performance assessments. This makes most NPOAs inadequate for planning and assessing efficacy. Over 33% of the annual retained catch of sharks and relatives was from countries

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⁵Indian Ocean Tuna Commission, Mahé, Seychelles

⁶Food and Agriculture Organization of the United Nations, Rome, Italy

HOW CAN WE PROVIDE BETTER PROTECTIONS FOR SHARKS & RELATIVES?

New study recommends improving the United Nations International Plan of Action for the Conservation and Management of Sharks

33%

of sharks and rays are threatened with extinction primarily due to fisheries bycatch

88% of is to

of annual shark catch is from countries without current national plans

Recommendations

Improve the International Plan of Action to provide guidance on:

- Applying specific criteria to determine when a national shark plan is needed;
- Including specific, measurable, and timebound objectives and activities;
- Including 'outcome' objectives that specify an end result improvement in the conservation status of a shark population;
- Addressing deficits with all components of fisheries management frameworks;
- The full suite of approaches for managing bycatch;
- Accounting for costs to commercial viability, likelihood of compliance, and multispecies conflicts when evaluating alternative bycatch management strategies, and
- The complementary role of regional shark plans.

Fish and Fisheries http://tinyurl.com/sharkIPOA

Financing progress

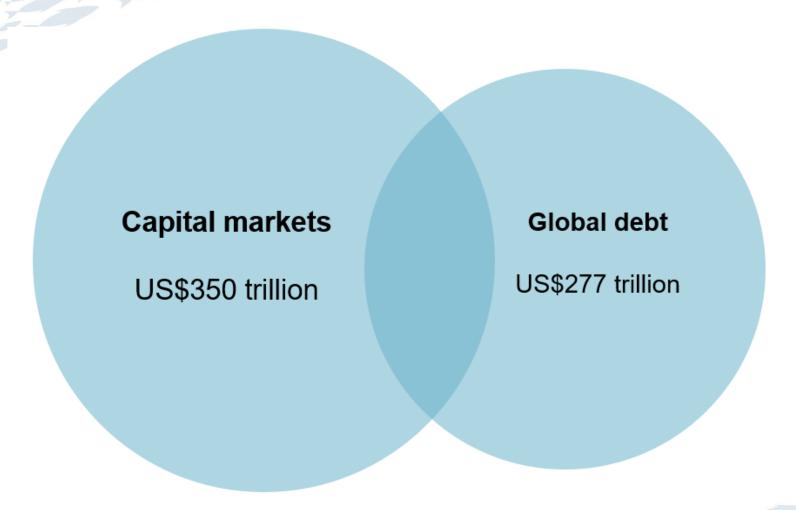


Figure adapted from Jeremey Eppel



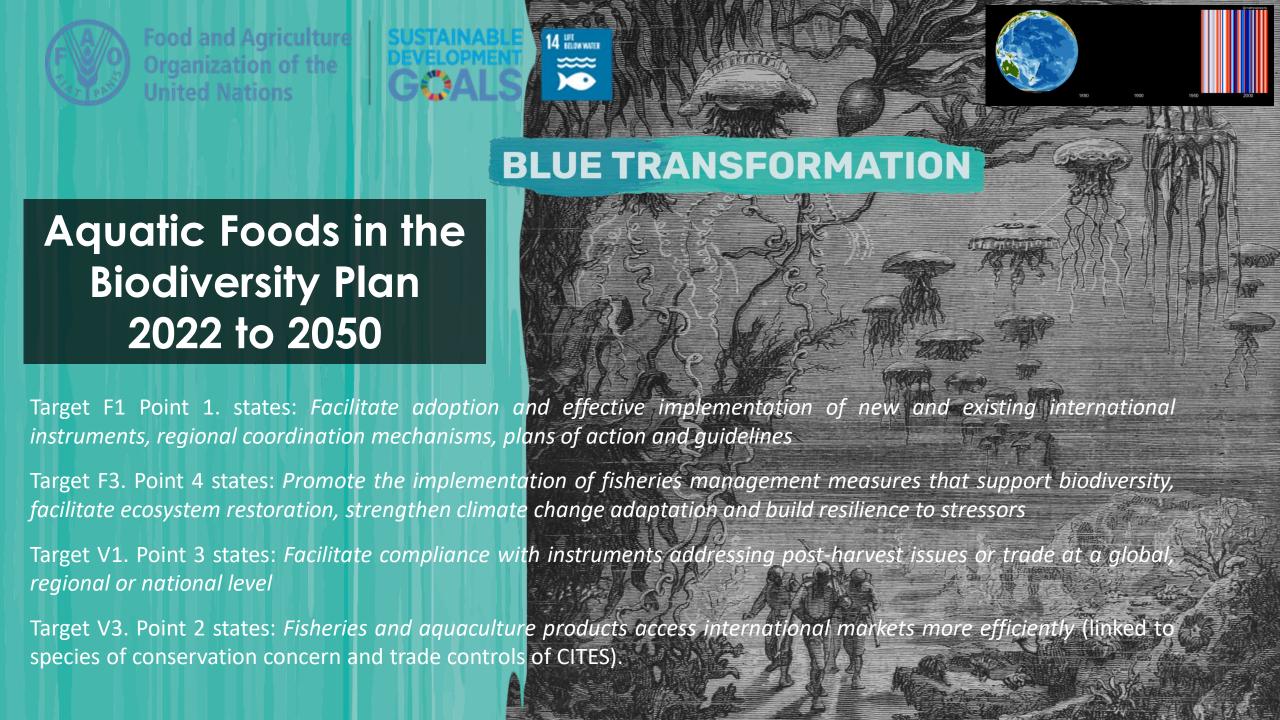












Photo: Louise Goggin