Realizing Value:
Tuna Sustainability Progress & Market Priorities

ISSF 2026 Tuna Sustainability Market Forum | 9 October 2026

ISSF INTERNATIONAL SEAFOOD SUSTAINABILITY FOUNDATION

Welcome and Event Overview

9 October 2026

Michael Cohen
ISSF Market Outreach Associate

ISSF INTERNATIONAL SEAFOOD SUSTAINABILITY FOUNDATION

Today's Presenters



Susan Jackson
ISSF

President, ISSF



Dr. Victor Restrepo
ISSF

Vice President, Science



Michael Cohen
ISSF

Market Outreach Associate



Dr. Laurent Dagorn
Institut de recherche pour le développement (IRD)

Today's Presenters

ISSF INTERNATIONAL SEAFOOD SUSTAINABILITY FOUNDATION



Amélie Martinez
Marine Stewardship Council France
Senior Manager Corporate Partnerships



Dr. Alexandra Maufroy
Marine Stewardship Council France
Senior Fisheries Outreach Manager



David Parreño Duque
Sustainable Fisheries Partnership
Partnerships & Markets Engagement Specialist



Cody Pajunen
Sustainable Fisheries Partnership
Fisheries Policy and Information Analyst

Ordre du jour

HORAIRE	INTERVENANT(S)	SUJET
9h30–9h45	Michael Cohen (ISSF)	Welcome and Event Overview
9h45–11h15	**Session 1**	
	Susan Jackson (ISSF)	Driving Sustainability Progress & Supporting Market Strategic Priorities
	Dr. Victor Restrepo (ISSF)	Turning Science into Action: Global Tuna Progress Through ISSF Collaboration
	Dr. Laurent Dagorn (IRD)	Une approche holistique de la durabilité écologique de la pêche à la senne du thon tropical
	Discussion/Q&A	
11h15-11h45	Pause café	
12h00–13h30	**Session 2**	
	Amélie Martinez & Dr. Alexandra Maufroy (MSC)	Filière Thon Durable MSC: Progrès et Engagement
	David Parreño Duque & Cody Pajunen (SFP)	Données par navire et outils de l'ISSF au service d'une pêche au thon plus durable
	Michael Cohen (ISSF)	Activating Market Influence & Creating Strategic Value
	Susan Jackson (ISSF)	Closing Comments
	Discussion/Q&A	
13h30–14h30	Cocktail déjeunatoire	

Driving Sustainability Progress & Supporting Market Strategic Priorities

9 October 2026

Susan Jackson
President

ISSF INTERNATIONAL SEAFOOD SUSTAINABILITY FOUNDATION

Driving More than a Decade of Measurable Change

For 15+ years, ISSF partners — scientists, seafood companies, environmental NGOs — have worked side-by-side to transform global tuna fisheries

- **Science-Led Action:** Advancing cutting-edge research, practical tools to guide management
- **Global Collaboration:** Uniting industry, governments, & NGOs across every tuna-fishing region
- **Verified Impact:** Independent audits, transparent reporting that prove measurable progress

Sustained commitment has turned early challenges — data gaps, weak management, and limited accountability — into tangible wins:

- Healthier tuna stocks
- Stronger RFMO policies
- Market-recognized best practices
- More than half of global tuna catch from MSC-certified fisheries



Our journey shows that long-term collaboration can deliver improved sustainability

From Challenge to Change

More than a Decade of Sustainable Tuna Progress

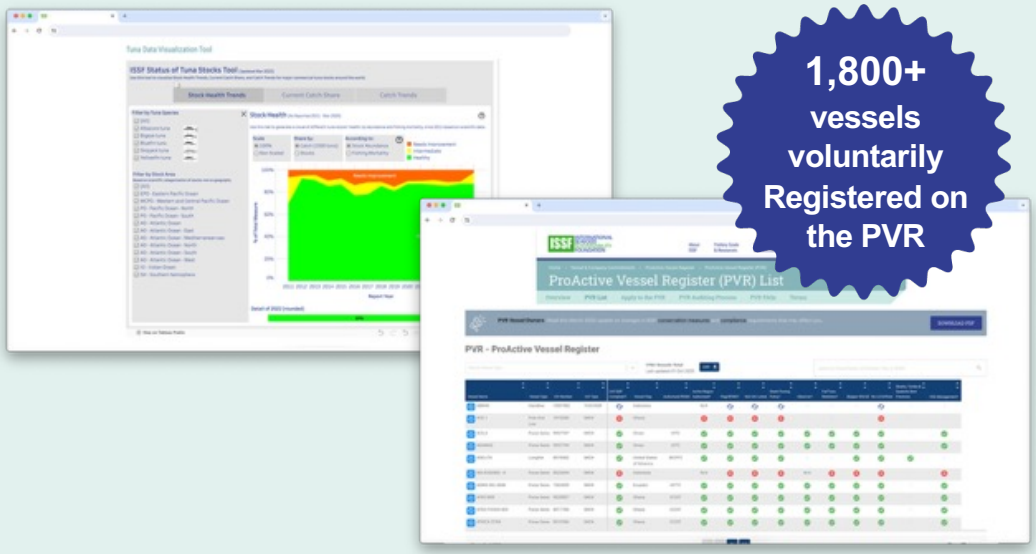
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DATA & TRANSPARENCY

THEN: Global tuna stock information fragmented, with no single harmonized source—minimal verifiable vessel reporting



NOW: Publicly available ISSF Status of the Stocks reports, vessel-level transparency through ProActive Vessel Register (PVR) and Vessels in Other Sustainability Initiatives (VOSI) platform



1,800+ vessels voluntarily Registered on the PVR

From Challenge to Change

More than a Decade of Sustainable Tuna Progress

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BYCATCH & ECOSYSTEM IMPACTS

THEN: Sparse data on non-target species in tuna fisheries and few safeguards for sharks, sea turtles, and seabirds



NOW: Widespread adoption of ISSF bycatch mitigation best practices and fishing gear designs that reduce animal entanglement; RFMO-adopted shark-finning bans and seabird mitigation measures



From Challenge to Change

More than a Decade of Sustainable Tuna Progress

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HARVEST STRATEGIES

THEN: Only a handful of tuna stocks had harvest control rules

NOW: All 4 tropical tuna management organizations have adopted harvest strategies or interim harvest control rules for key species like skipjack and yellowfin, with implementation timelines for others



From Challenge to Change

More than a Decade of Sustainable Tuna Progress

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INDUSTRY & MARKET ENGAGEMENT

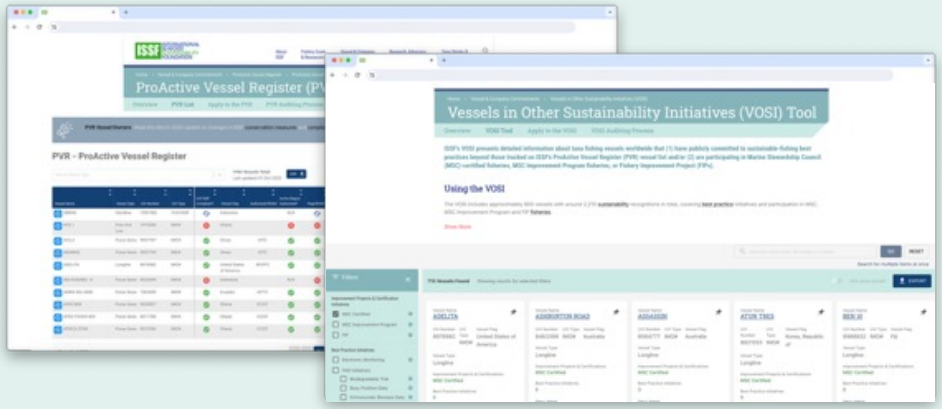
THEN: Inconsistent industry engagement and transparency

NOW: ISSF participating companies undergo independent, publicly reported audits and use PVR and VOSI to demonstrate best practice commitments

THEN: Retail expectations for demonstrable sustainability just beginning to take shape



NOW: Globally, 73 major retailers reference ISSF participation and PVR/VOSI listings in sourcing policies, helping companies de-risk investments



From Challenge to Change

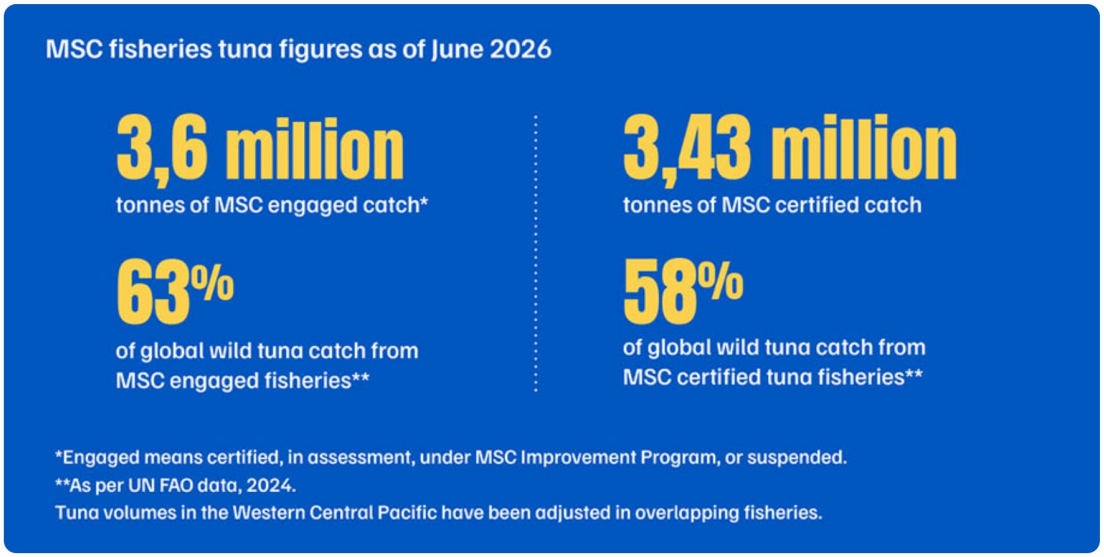
More than a Decade of Sustainable Tuna Progress

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MARINE STEWARDSHIP COUNCIL-CERTIFIED TUNA CATCH

THEN: 14% of the world's annual tuna catch came from Marine Stewardship Council (MSC)-certified catch

NOW: 58% of the world's annual tuna catch comes from MSC-certified fisheries



Source: Marine Stewardship Council, June 2026



How Did We Get Here?

The ISSF Approach

The ISSF Approach

Science-Led Innovation • Global Influence • Implementation Integrity

ABOUT ISSF

In 2009, acclaimed scientists, leaders in industry, and environmental champions launched the International Seafood Sustainability Foundation (ISSF) based on shared concerns about the future of tuna fisheries and a desire to do something about it — together.

ISSF MISSION

To undertake and facilitate science-based initiatives to continuously improve the sustainability of global tuna fisheries and the health of the ecosystems that support them.

ISSF OBJECTIVE

To continuously improve the sustainability of global tuna fisheries and the ecosystems that support them to result in those fisheries meeting and maintaining the MSC certification standard.

We achieve this through:

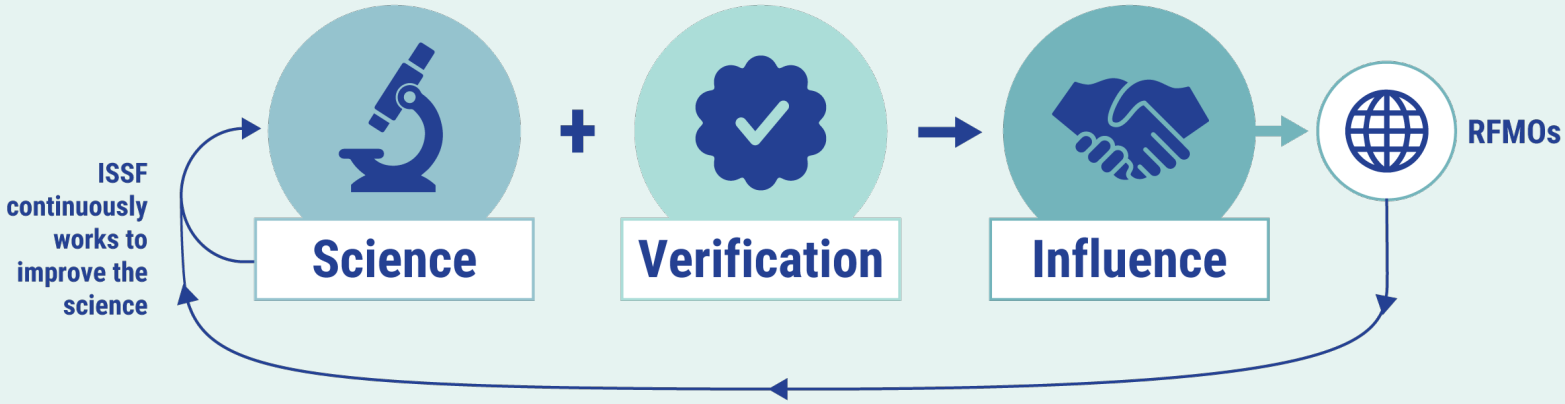
- **The development and implementation of verifiable, science-based practices, measurable commitments, and conservation management measures by participating companies**
- **Advocacy to tuna RFMOs**



RFMOs: Regional Fisheries Management Organizations
IATTC: Inter-American Tropical Tuna Commission
ICCAT: International Commission for the Conservation of Atlantic Tunas
IOTC: Indian Ocean Tuna Commission
WCPFC: Western and Central Pacific Fisheries Commission
CCSBT: Commission for the Conservation of Southern Bluefin Tuna

ISSF Theory of Change

Sustainable Management Requires Continuous Improvement



- ISSF advocacy to RFMOs is grounded in what the best current science requires.
- Simultaneously, ISSF continuously works to improve the science.
- **The intended result of our efforts is the adoption & implementation of science-based management measures by industry and RFMOs.**
- We recognize that comprehensive and sustainable management requires continuous improvement.

ISSF Theory of Change

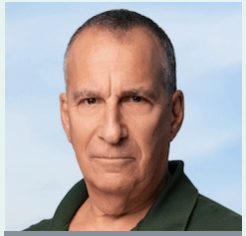
ISSF BOARD OF DIRECTORS

Click here for full bios



Tony Lazazzara
ISSF Board Chair

Group Director of Global Fish Procurement, Thai Union Group



Dr. Andrew Rosenberg
ISSF Board Vice Chair

Marine Scientist & Environmental and Science Policy Expert



Susan Jackson
President, ISSF



Javier Garat
Secretary General, Spanish Fishing Confederation, Cepesca / President, Association of National Organizations of Fishery Enterprises in the European Union (Europêche)



William Gibbons-Fly
Executive Director, American Tunaboat Association (ATA)



Ben Gilmer
Chair, ISSF Environmental Stakeholder Committee / Director, Large-Scale Fisheries, The Nature Conservancy (TNC)



Melissa Murphy
Distinguished Service Professor of Marketing and Corporate Entrepreneurship, Tepper School of Business, Carnegie Mellon University / President, Melissa Murphy Marketing



Ichiro Nomura
Fisheries Policy Advisor, Ministry of Marine Affairs and Fisheries, Republic of Indonesia



Dr. Victor Restrepo
Vice President – Science, ISSF / Chair, Scientific Advisory Committee



Dr. Josu Santiago
Head of the Tuna Research Area, AZTI



Amanda Stern-Pirlot
Chief Standards Officer, Marine Stewardship Council

ISSF's governance intentionally brings together leaders from science, the seafood industry, environmental NGOs, and independent experts to help ensure solutions are scientifically credible, practical, and broadly supported.

Mobilizing FUNDS Toward Sustainable Fisheries

ISSF INTERNATIONAL SEAFOOD SUSTAINABILITY FOUNDATION

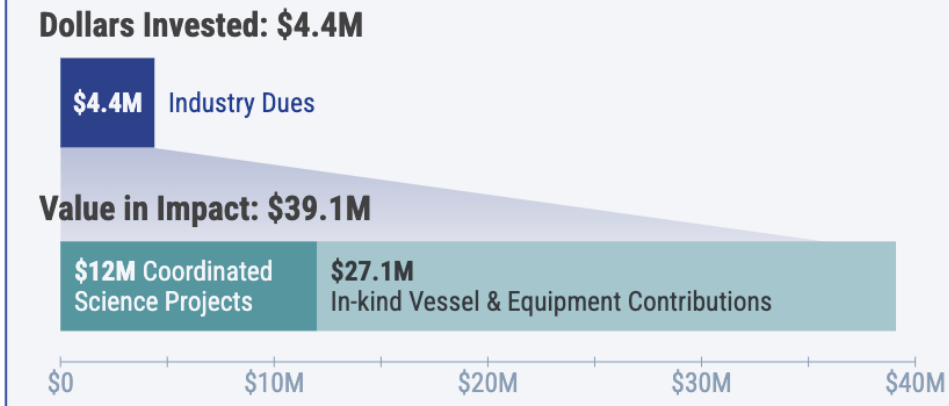
OUR IMPACT IN NUMBERS

Over our history, ISSF

PARTICIPATING COMPANIES have invested more than $62 MILLION in ISSF's work

IMPACT OF INDUSTRY DOLLARS INVESTED IN ISSF SCIENCE

Each seafood-industry dollar invested in our organization **generates over eight times its value** in impact through our programs.



Mobilizing FISHERS Toward Sustainable Fisheries

ISSF INTERNATIONAL SEAFOOD SUSTAINABILITY FOUNDATION

OUR IMPACT IN NUMBERS

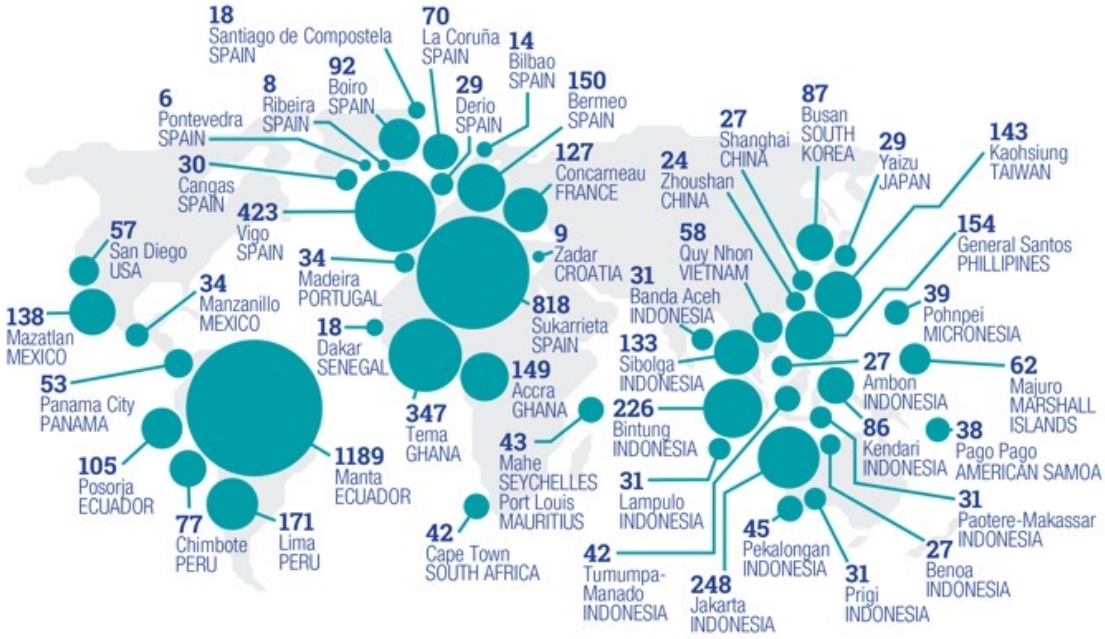
ISSF SKIPPERS WORKSHOP PARTICIPANTS

By Profession (2010–June 2025)



ISSF SKIPPERS WORKSHOP ATTENDANCE

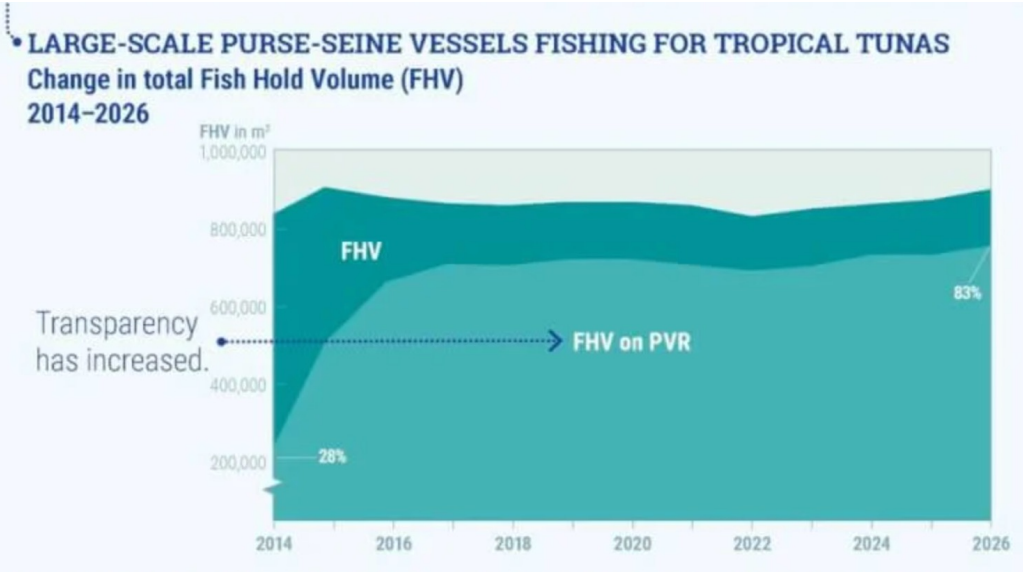
2009–June 2025

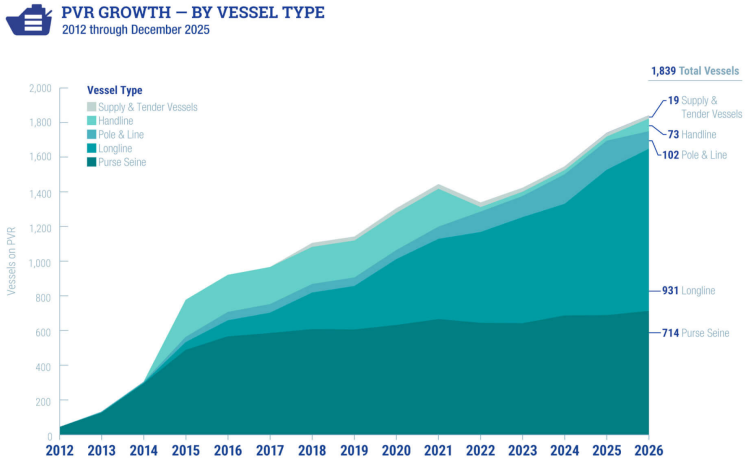


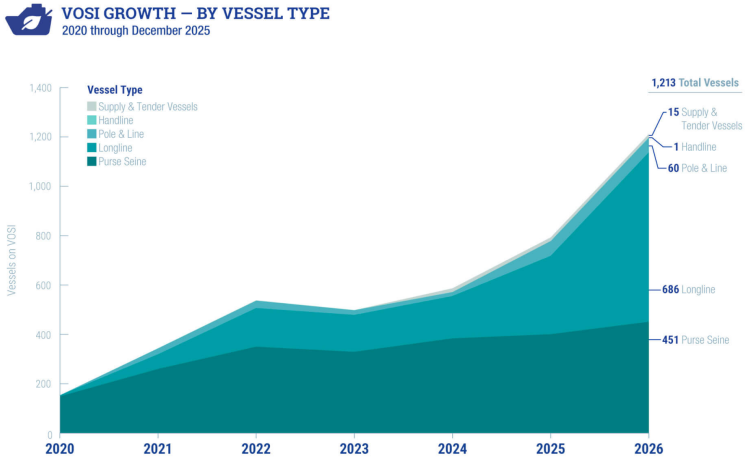
Verified Transparency in Vessel Practices

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OUR IMPACT IN NUMBERS







ISSF Participating Companies

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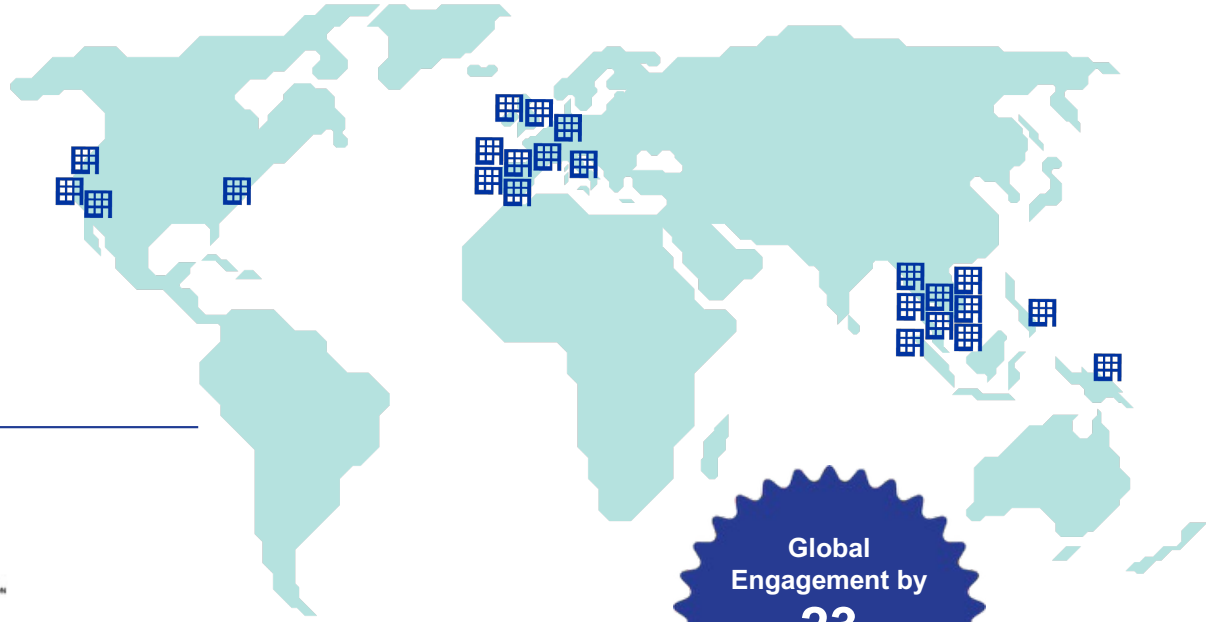
OUR PARTNERS — INDUSTRY

Founding Companies

BOLTON FOOD, RIO mare, Saupiquet, THE BUMBLE BEE SEAFOOD COMPANY, CLOVER LEAF, PRINCES GROUP, SeaValue, StarKist, Thai Union (Europe), Thai Union (COSI), TRI MARINE

Full Companies

CMC, EVERWIN, FOT FOODTECH, Frinsa, GENERAL TUNA CORPORATION, ISABEL, JEALSA, KINGFISHER FOODS, KTC FOOD, PFG PATAYA FOOD GROUP, RS CANNERY COMPANY LIMITED, SALICA, SOUTH SEAS TUNA, POMPON ROUGE, TROPICAL



Global Engagement by 23 Participating Companies

Charitable Foundations & Other Partners Supporting ISSF

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OUR PARTNERS — FUNDING

GORDON AND BETTY MOORE FOUNDATION

NOAA — National Oceanic and Atmospheric Administration — U.S. Department of Commerce

KINGFISHER FOUNDATION

the David & Lucile Packard FOUNDATION

SEARCULAR — Circular Solutions for Fishing Gears

Ocean Conservancy®

Sustainable Fisheries™ PARTNERSHIP

oceankind

Food and Agriculture Organization of the United Nations

Fisheries Improvement Fund

Marine Stewardship Council

Charitable Foundations & Other Partners Supporting ISSF

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OUR PARTNERS — RESEARCH

AZTI
MEMBER OF BASQUE RESEARCH & TECHNOLOGY ALLIANCE

IRD
Institut de Recherche pour le Développement
FRANCE

Pacific Community
Communauté du Pacifique

iotc ctoi

FAO
FIAT PANIS

MARELA
MARINE ELITE ANALYTICS

ICCAT CICTA CICAA

NGO TUNA Forum

CIAT
IATTC

UNIVERSITY OF HAWAI'I

MARINE RESEARCH CENTRE

NOAA FISHERIES

Western & Central Pacific Fisheries Commission

CSIC

IPNLF
INTERNATIONAL POLE & LINE FOUNDATION

NRF National Research Foundation
SAIAB South African Institute for Aquatic Biodiversity

WWF

HAWAI'I PACIFIC UNIVERSITY

The Nature Conservancy

PLUS Fishing Vessel Owners & Crew

NGO Tuna Forum Participation

ISSF INTERNATIONAL SEAFOOD SUSTAINABILITY FOUNDATION

BirdLife INTERNATIONAL

BLUE MARINE FOUNDATION

CONSERVATION INTERNATIONAL

DEUTSCHE STIFTUNG MEERESSCHUTZ (DSM)

Ecology Action Centre

Environmental Defense Fund

ISSF INTERNATIONAL SEAFOOD SUSTAINABILITY FOUNDATION

MARINE STEWARDSHIP COUNCIL

MDPI Happy People, Many Fish©

EJF ENVIRONMENTAL JUSTICE FOUNDATION Protecting People and Planet

Fair Trade USA™

FishChoice

FISH WISE

Galapagos Conservation Trust

Global Fishing Watch

OCEAN OUTCOMES Fish | Food | Livelihoods

OCEANA

OCEANIKA

GLOBAL GHOST GEAR INITIATIVE®

GLOBAL TUNA ALLIANCE

创绿研究院 GREENOVATION HUB

GREENPEACE

THE INTERNATIONAL GAME FISH ASSOCIATION

IPNLF INTERNATIONAL POLE & LINE FOUNDATION

MCS 青岛市海洋生态研究会

The Safina Center

SEAFOOD LEGACY

Monterey Bay Aquarium

The Nature Conservancy

THE OCEAN FOUNDATION

SFACT SUSTAINABLE FISHERIES AND COMMUNITIES TRUST

SHARK ADVOCATES INTERNATIONAL

SHARKPROJECT

OCEANSASIA

OLIVE RIDLEY PROJECT

Pew

Sustainable Fisheries PARTNERSHIP

Wild Oceans

WWF

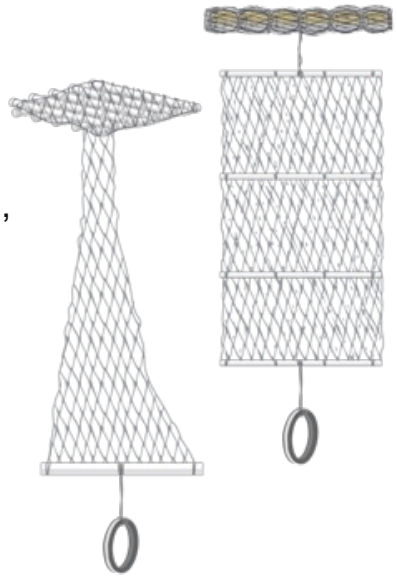
Improved Fishing Gear Design to Minimize Ecosystem Impacts

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SCIENCE-LED INNOVATION

Conventional FAD

- Bulky and heavy
- Hard to build
- Results in ghost fishing, marine pollution, and damage to habitats



Jelly-FAD

- Light and easy to handle
- Materials available worldwide
- Easy to build and low cost



Consistent, Coordinated Advocacy to RFMOs

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GLOBAL INFLUENCE

ISSF and its participating companies have driven policy change through sustained advocacy.

- ✓ Direct meetings
- ✓ Input via national advisory committees
- ✓ Engagement with vessels, MSC clients, FIPs

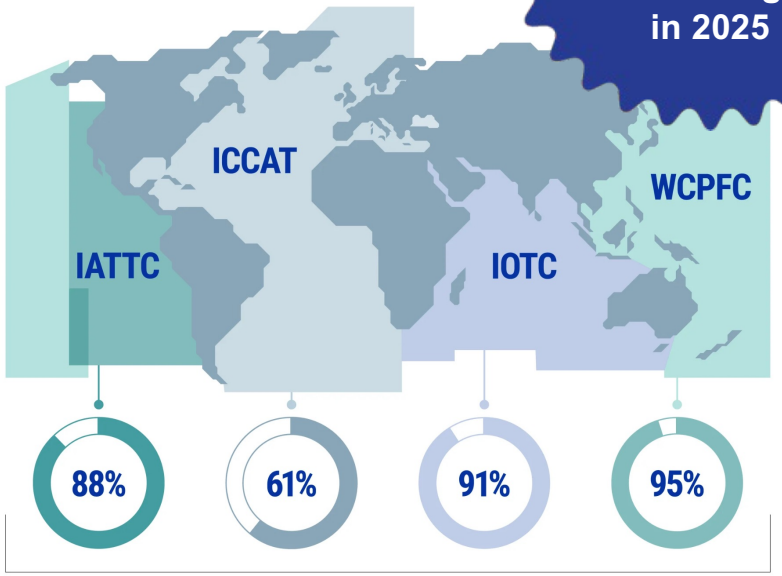
~50 NGOS were ALIGNED



on about 90% of the ADVOCACY ISSUES

ISSF supported in 2025

450+
advocacy letters delivered to RFMO delegates across four tuna regions in 2025



Influence saturation by RFMO

Independent Audits • Transparent Reporting • Verified Action

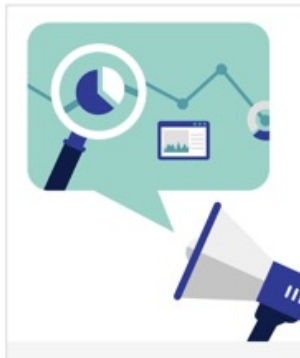
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IMPLEMENTATION INTEGRITY

Our approach for tuna fisheries & stakeholders promotes the verifiable implementation of best practices in tuna supply chains

- **Independent auditing** of tuna company compliance with ISSF conservation measures
- **Independent auditing** of vessel compliance with best practices

ISSF works with tuna vessels & processors **globally**



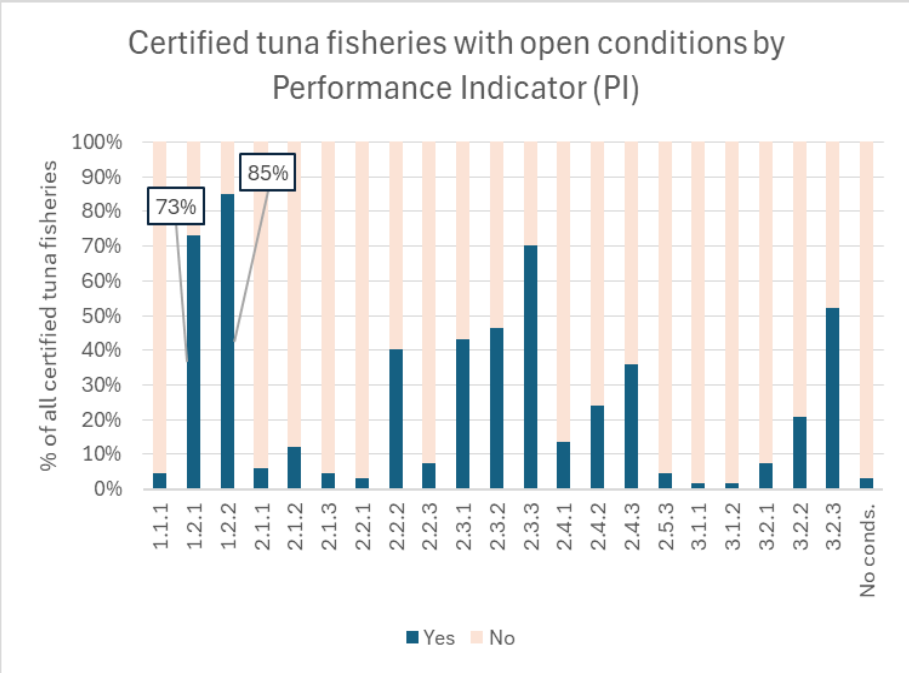
The Path Ahead

CLOSING OPEN CONDITIONS FOR MSC-CERTIFIED TUNA FISHERIES

Of all open conditions for tuna fisheries certified against the MSC Fisheries Standard, the two PIs with the highest number of conditions are 1.2.1 and 1.2.2.

Over half of these conditions correspond to harmonized conditions opened during application of Section SE to Western Pacific stocks

The rest correspond to other stocks in the Pacific, Atlantic and Indian oceans



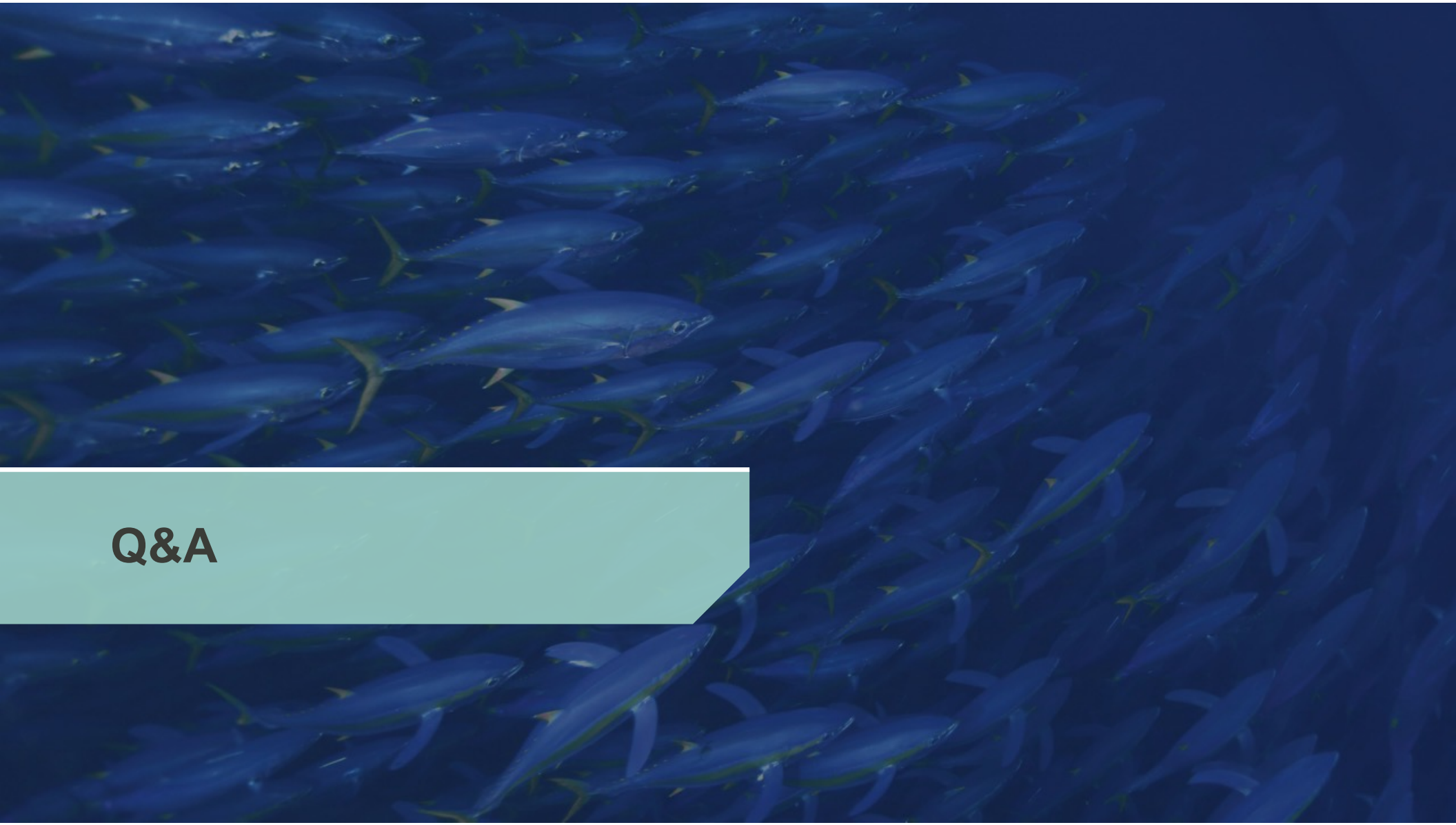
PI 1.2.1 – Harvest Strategy
PI 1.2.2 – Harvest Control Rules & Tools

The Path Ahead

ISSF is the only NGO exclusively dedicated to achieving sustainable tuna fisheries

- Stands apart for its **expertise across tuna science, fishery management, and industry operations**
- **Diverse governance structure includes scientists, environmental NGOs, and seafood companies —** bringing all stakeholders to the table in an aligned, science-forward approach
- Leads collaborative efforts to improve tuna fishery sustainability through **innovation, implementation integrity** — a powerful force for change





Q&A

Turning Science into Action: Global Tuna Progress Through ISSF Collaboration

9 October 2026

Dr. Victor Restrepo
Chair, ISSF Scientific Advisory Committee

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Turning Science into Action:

Global Tuna Progress Through ISSF Collaboration

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TODAY'S TOPICS



Tuna Stock Health



Traceability & Mitigating IUU



Harvest Strategies



Observer Coverage & Electronic Monitoring



Bycatch Mitigation & FAD Management

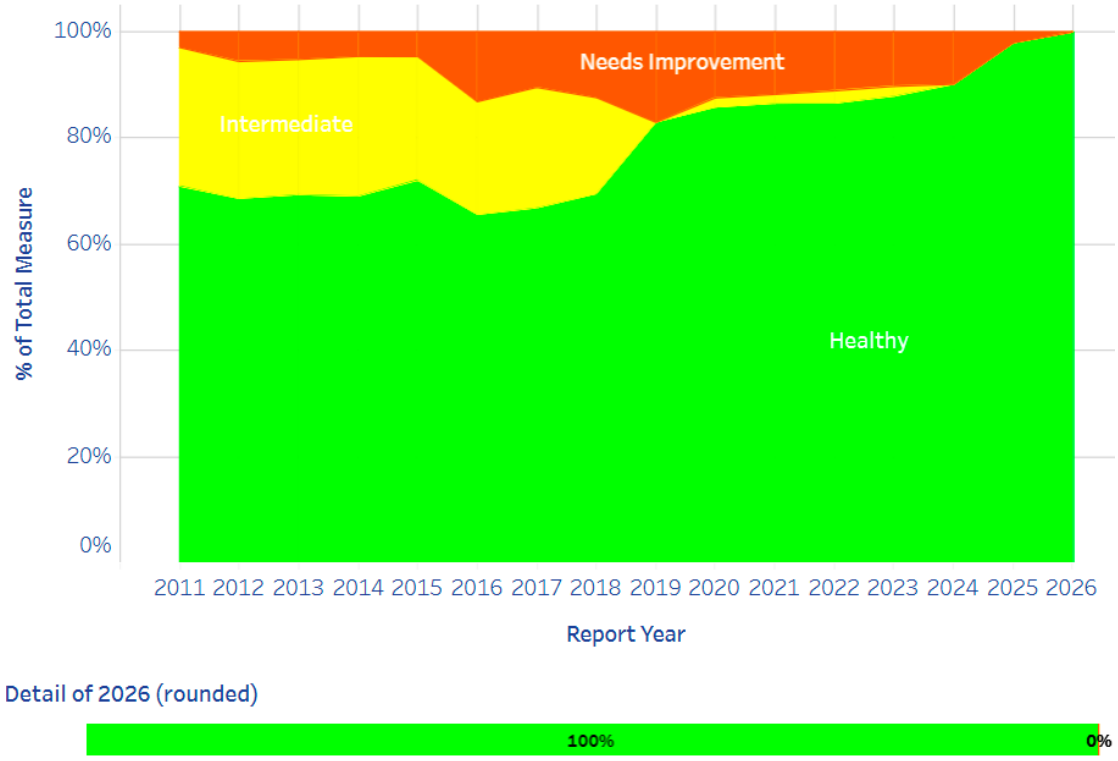


Tuna Stock Health

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Status of the 23 Major Tuna Stocks

AS OF JANUARY 2026

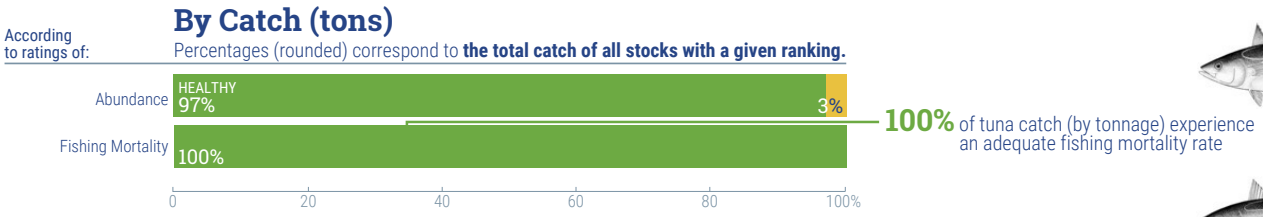


A growing share of the global tuna catch comes from stocks that are not subject to overfishing, thanks largely to improved management by RFMOs.

Status of the Major Commercial Tuna Stocks

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AS OF JANUARY 2026

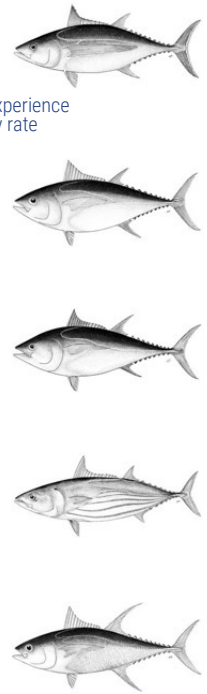




Compiled from RFMO reports.

7 Species, 23 stocks

In 2024, global catch was **5.8 million tonnes**



STOCK	CATCH	SSB	F
Albacore tuna			
PO-ALB-N	42		
PO-ALB-S	74		
AO-ALB-N	24		
AO-ALB-S	21		
AO-ALB-M	2		
IO-ALB	36		
Bigeye tuna			
EPO-BET	55		
WPO-BET	141		
AO-BET	55		
IO-BET	87		
Bluefin tuna			
PO-PBF	18		
AO-BFT-E	39		
AO-BFT-W	3		
SH-SBT	18		
Skipjack tuna			
EPO-SKJ	642		
WPO-SKJ	2052		
AO-SKJ-E	182		
AO-SKJ-W	23		
IO-SKJ	625		
Yellowfin tuna			
EPO-YFT	307		
WPO-YFT	716		
AO-YFT	140		
IO-YFT	490		

IO Yellowfin

IO YFT	
STOCK ABUNDANCE	FISHING MORTALITY
According to the latest assessment, SSB_{2023} is likely above SSB_{MSY}.	Catches have generally decreased since 2018, when the rebuilding plan began, until 2023. F_{2023} is likely below F_{MSY} indicating that the stock is not being overfished.

Last date of a change in Color Ratings: January, 2026.
Changes from the previous (March, 2025) Color Ratings: The Abundance rating changed from Yellow to Green.

The ISSF SAC acted conservatively and waited a year for the assessment inputs to be reviewed.

IO YFT accounts for more than 8% of the global tuna catch, so this change is influential in the statistics cited earlier



Carbon Footprint & Climate Change

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Building Climate-Ready Fisheries Management at Tuna RFMOs

Climate considerations being integrated into:

- Stock assessments
- Management Strategy Evaluation (MSE)

Development of climate & ecosystem indicators:

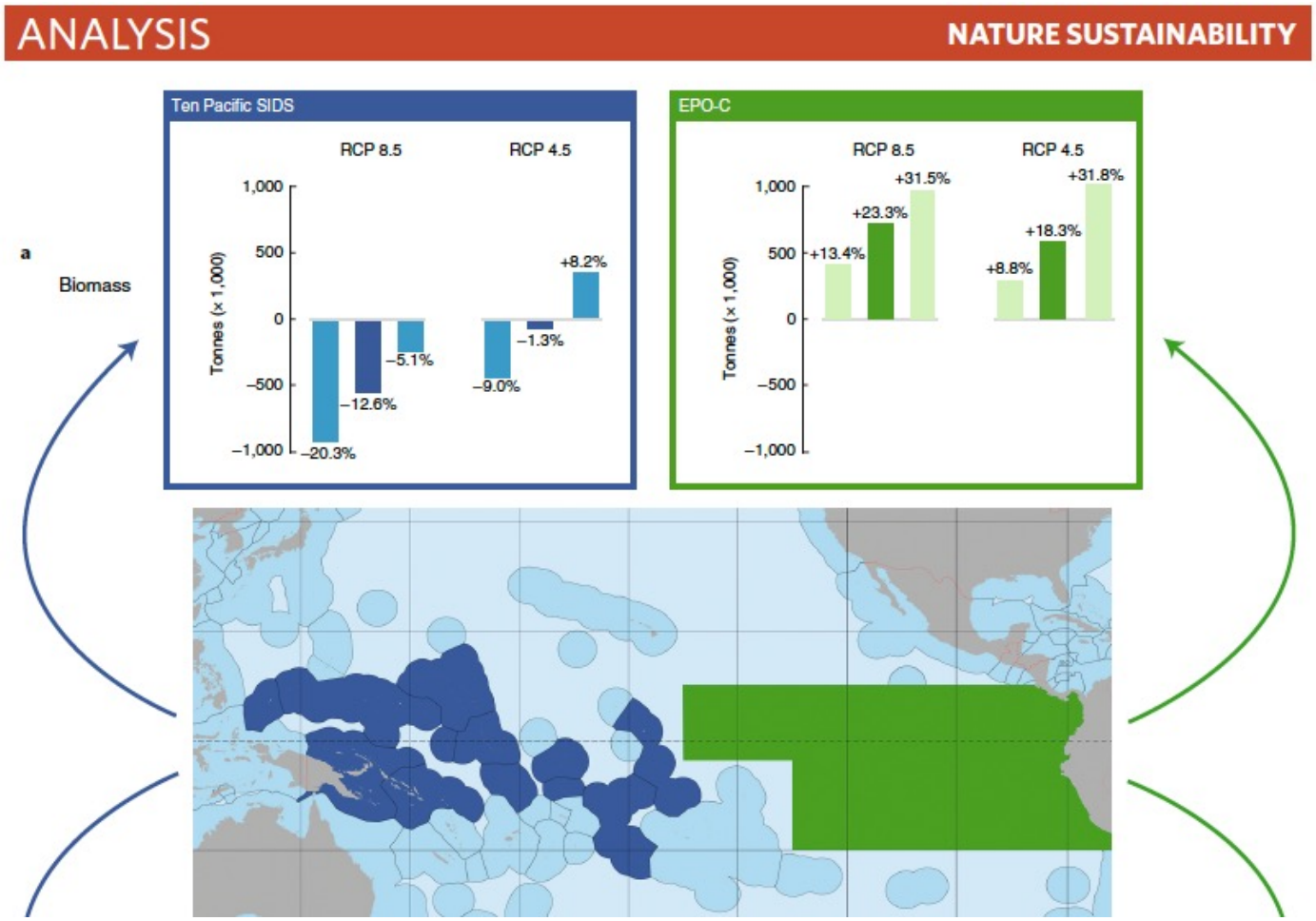
- Ocean temperature (SST), ENSO, warm pool size
- Habitat and fish condition trends

New tools emerging:

- Ecosystem “report cards” (EcoCards)
- Climate-resilient management roadmaps

- **Progress is real, but most work still at scientific level**
- **Full integration into management decisions is still evolving**

Projected redistribution of tropical tuna biomass in the P.O.



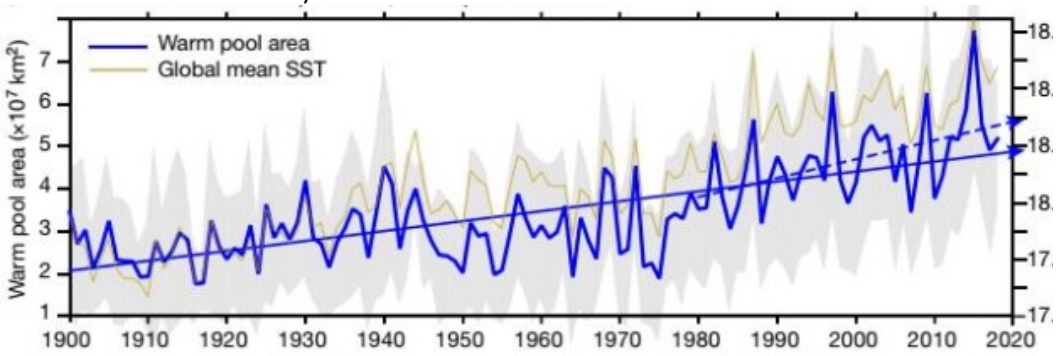
Projected change from 2009-18 to 2050 under two climate change scenarios

Source: Bell et al., 2021. Nature Sustainability 4: 900–910

Example Candidate Climate Indicators

WARMPOOL AREA/VOLUME

2024 TFAR (HTTPS://FAME.SPC.INT/RESOURCES/DOCUMENTS/TUNA-FISHERIES-ASSESSMENT-REPORT)



Indo-Pacific Warm Pool has expanded since 1980s, potentially expanding the spawning habitat of tropical tunas like skipjack.

Estimated skipjack recruitment has increased, but a mechanistic relationship is yet to be established.

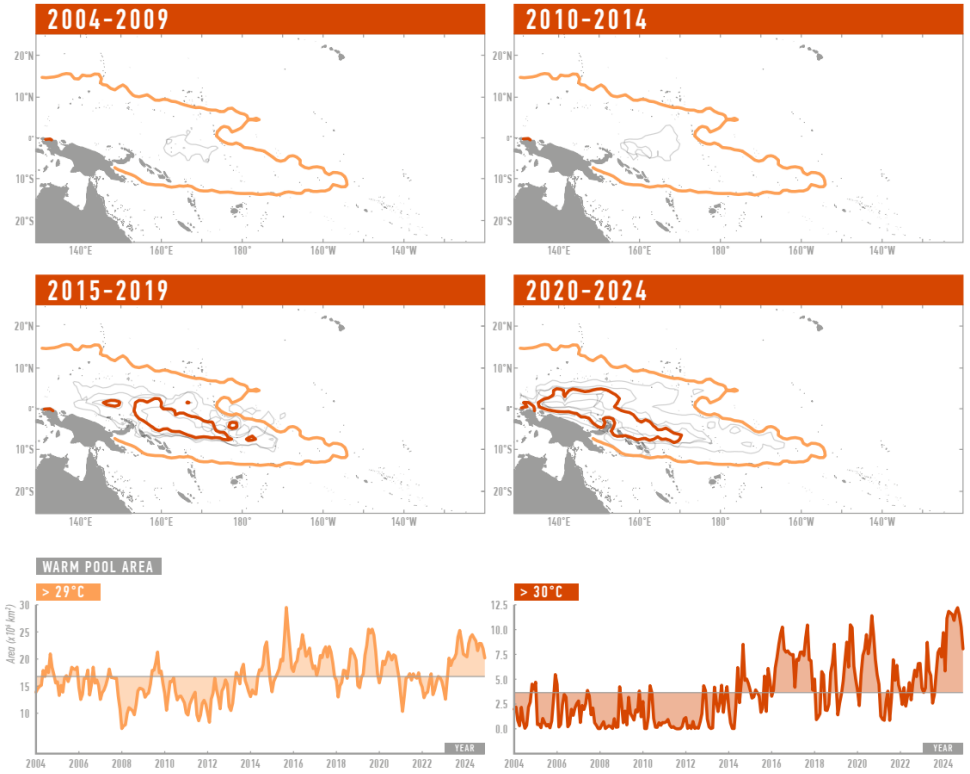
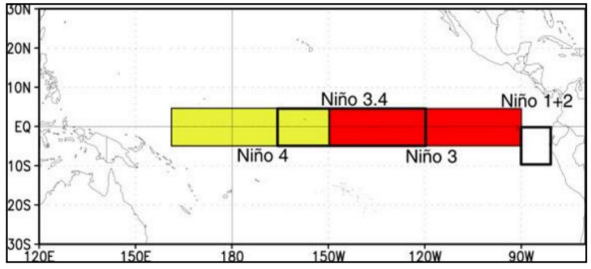


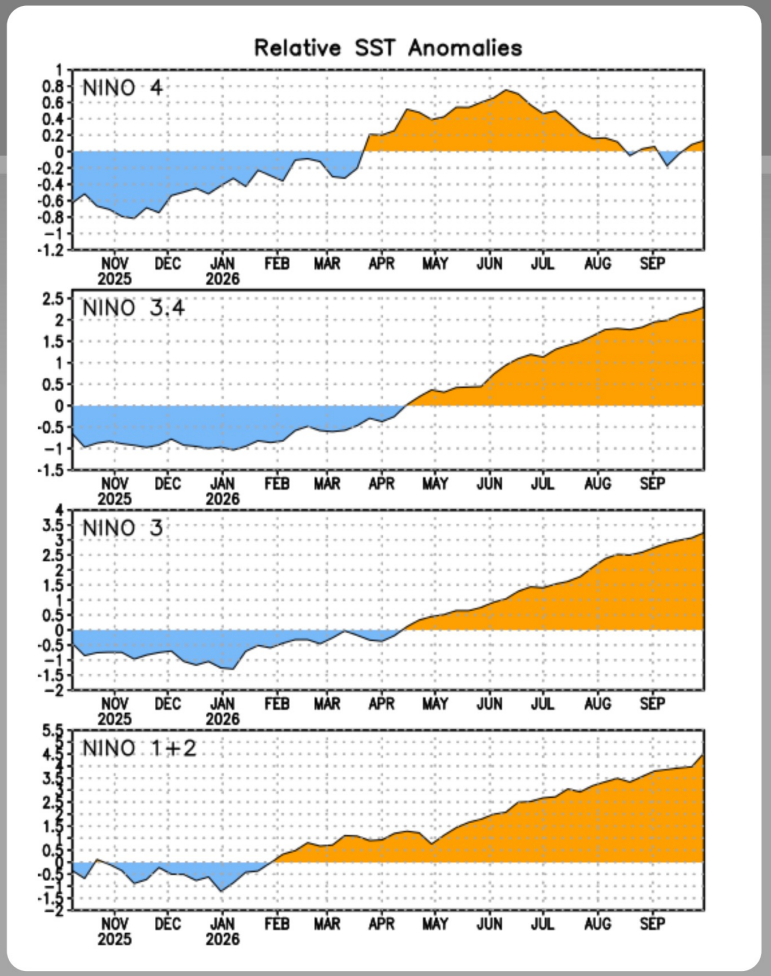
Figure 27. Trends in the 29°C warm pool area and 30°C waters within it from 2004–2024. Maps show the increase in 30°C waters within the warm pool over time. Orange line = 2004–2024 29°C mean warm pool size, red line = mean 30°C area for each time period, grey lines = individual years. Line plots show area of 29°C and 30°C waters from 2004 to 2024 relative to their overall mean (29°C mean = 16.8 million km², 30°C mean = 3.65 million km²).

Niño Region SST Departures (ºC) Recent Evolution

The latest weekly SST departures are:

Niño 4	0.1ºC
Niño 3.4	2.3ºC
Niño 3	3.3ºC
Niño 1+2	4.5ºC





Baseline: 1991-2020

Source: NOAA



Harvest Strategies

ISSF INTERNATIONAL SEAFOOD SUSTAINABILITY FOUNDATION

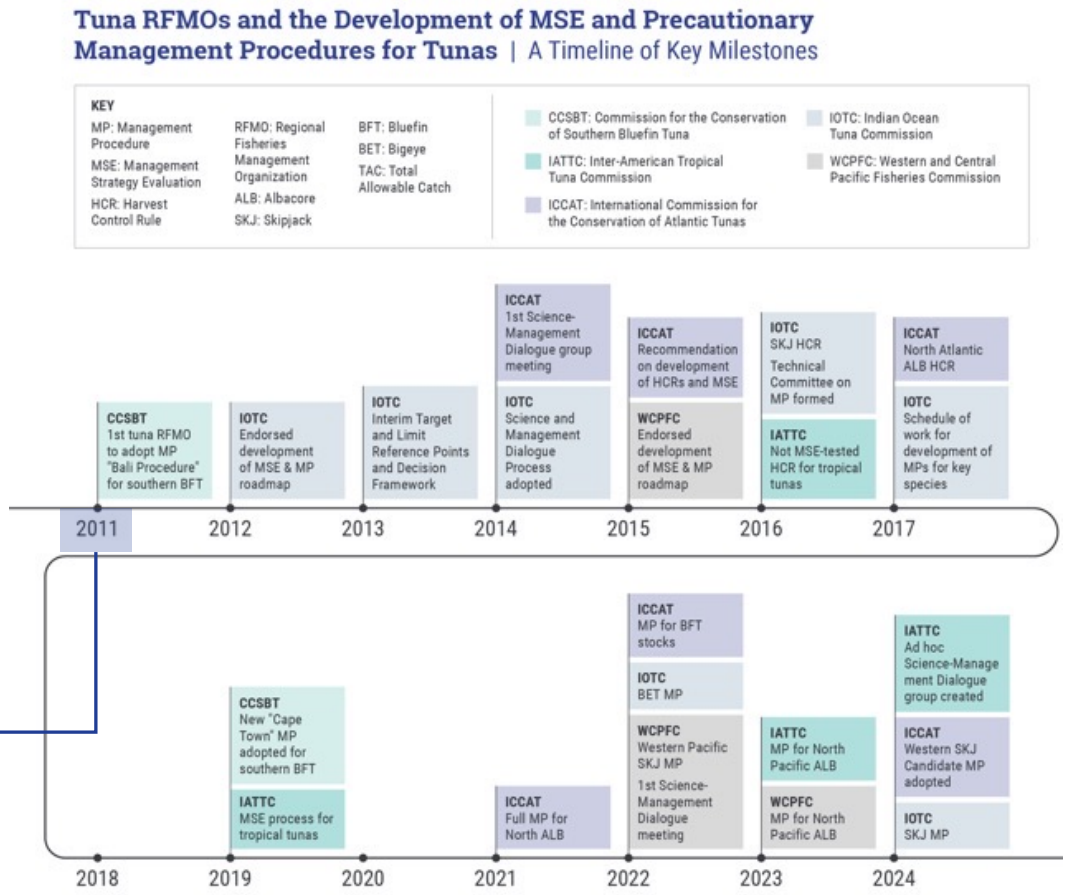
Why Harvest Strategies Matter

Harvest strategies (aka management procedures or MPs) are essential tools for sustainable, science-driven fisheries management

- Include monitoring programs, stock assessments, harvest control rules (HCRs), & reference points to guide management
- Define management responses in advance to help reduce political pressure and promote transparency, consistency, and long-term stock health

15 Years Ago

RFMOs just beginning to consider the adoption of harvest strategies

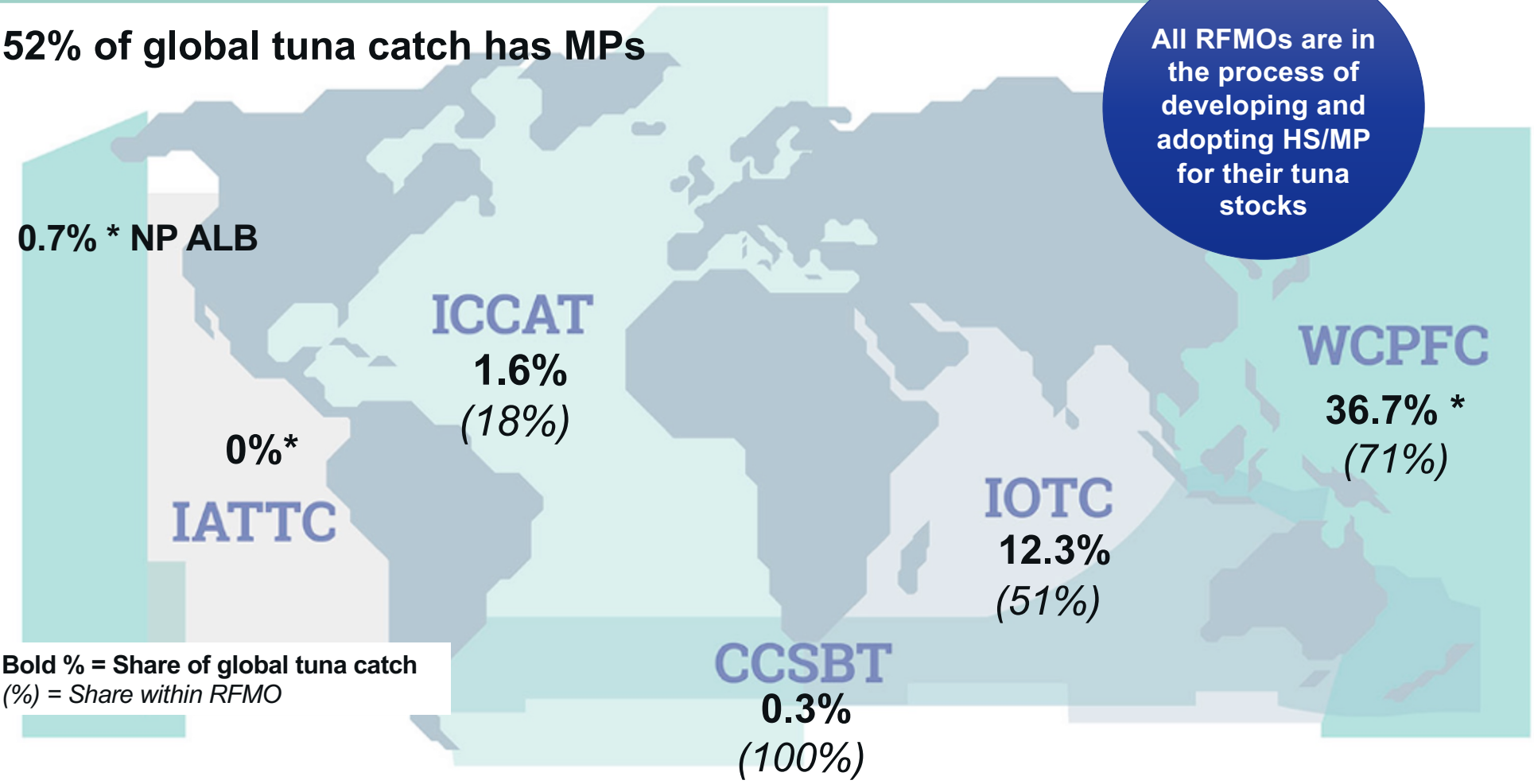


HS/MP progress in tuna RFMOS

ISSF INTERNATIONAL SEAFOOD SUSTAINABILITY FOUNDATION

52% of global tuna catch has MPs

All RFMOs are in the process of developing and adopting HS/MP for their tuna stocks



Bold % = Share of global tuna catch
(%) = Share within RFMO



Bycatch Mitigation & FAD Management

ISSF INTERNATIONAL SEAFOOD SUSTAINABILITY FOUNDATION

All Fisheries Have Impacts

ISSF INTERNATIONAL SEAFOOD SUSTAINABILITY FOUNDATION

Non-Target Species
Caught in Tuna Fisheries

Order of mortality - from highest to lowest
(gears with minimal impact are not listed)

> ! All fishing gears have environmental impacts. Depending on the species, some gears have more impact than others.



MANTA RAYS

Purse Seine free school set > *more than* **Purse Seine** floating object set > **Longline**



WHALE SHARKS

Purse Seine whale shark set ≈ *about the same as* **Gillnet**



SEA TURTLES

Gillnet >> **Longline** >> *much more than* **Purse Seine**



CETACEANS

Gillnet > **Trawl** ≈ **Longline** ≈ **Purse Seine** dolphin set >> **Purse Seine** other



SEABIRDS

Longline >> **Trawl** ≈ **Gillnet**



SHARKS

Gillnet ≈ **Longline** >> **Purse Seine** floating object set > **Purse Seine** free school set

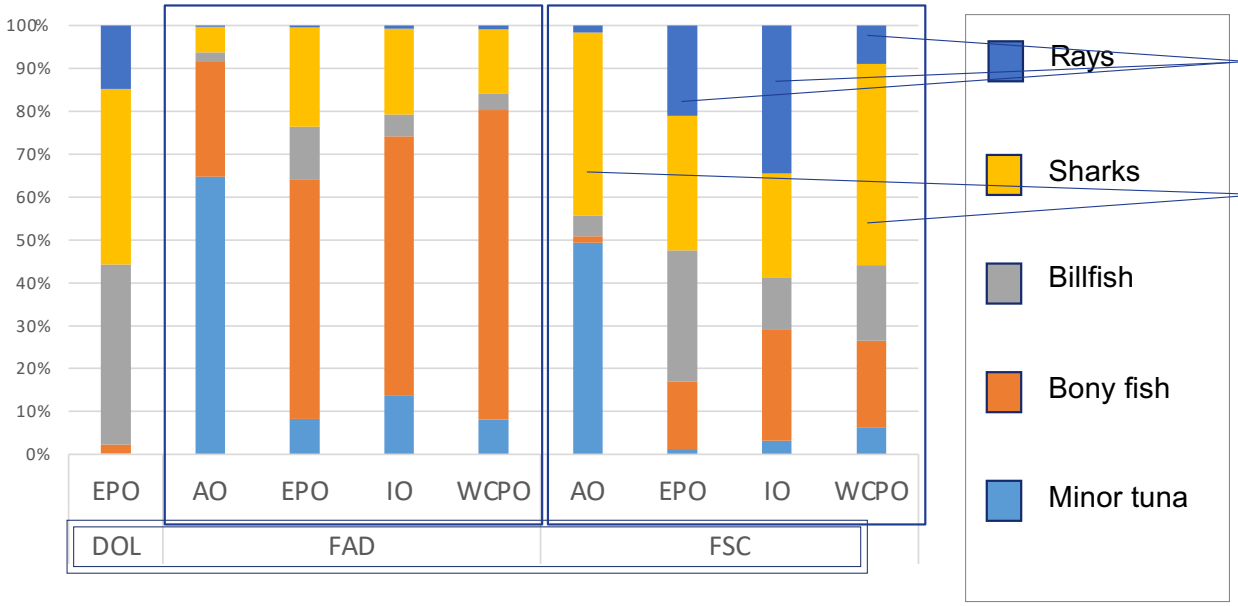
Source: ISSF Technical Report 2015-02 – Preliminary study of the relative fishery impacts on non-tuna species caught in various tuna fisheries

Purse Seine Bycatch

BY SPECIES GROUP

ISSF INTERNATIONAL SEAFOOD SUSTAINABILITY FOUNDATION

ALL OCEANS — Current % Bycatch by Species Group & Set Type

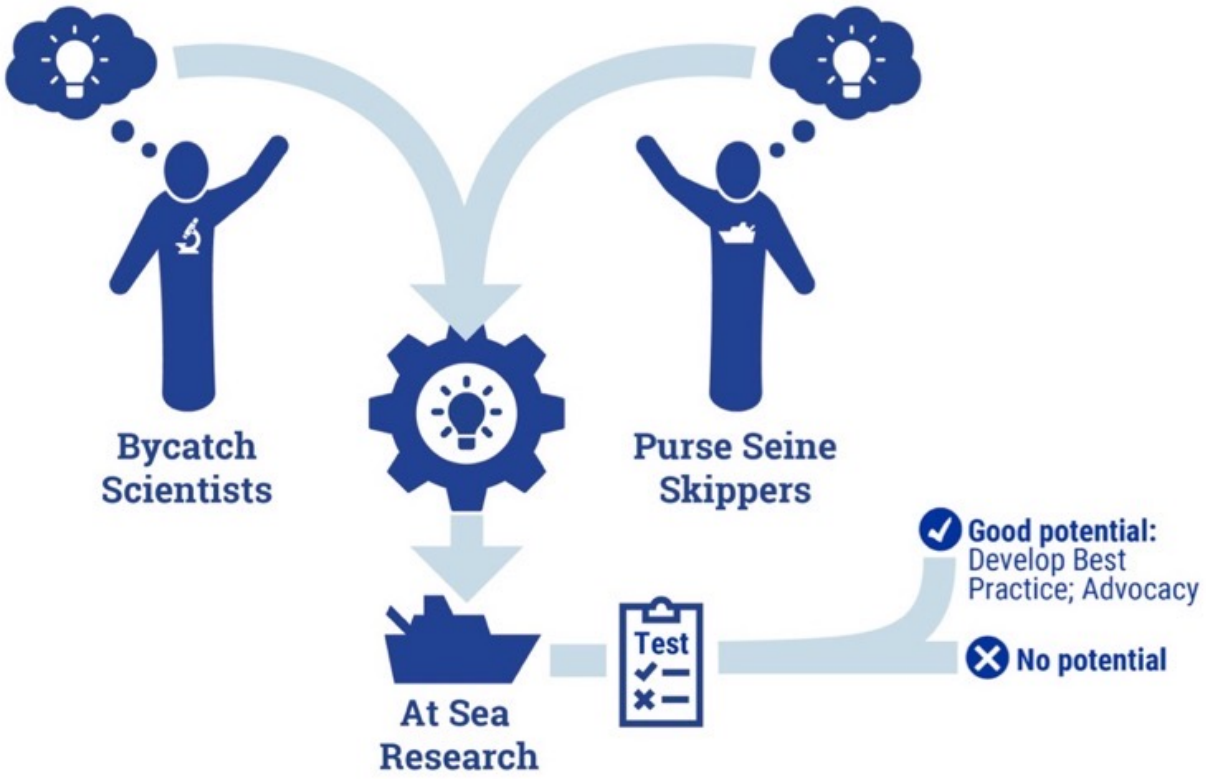


Rays are more common in free school sets.

In some regions, **shark bycatch** % is higher in free school sets.

Source: Observer data provided from SPC (WCPO), IATTC (EPO) and by the research institutes in charge of EU-PS observer programs in the Atlantic and Indian oceans. Data is 2013-2017 for all oceans, except Atlantic Ocean, which is 2012-2016. Note:"FAD" to include all associated sets, e.g. sets on natural logs would be included there too.

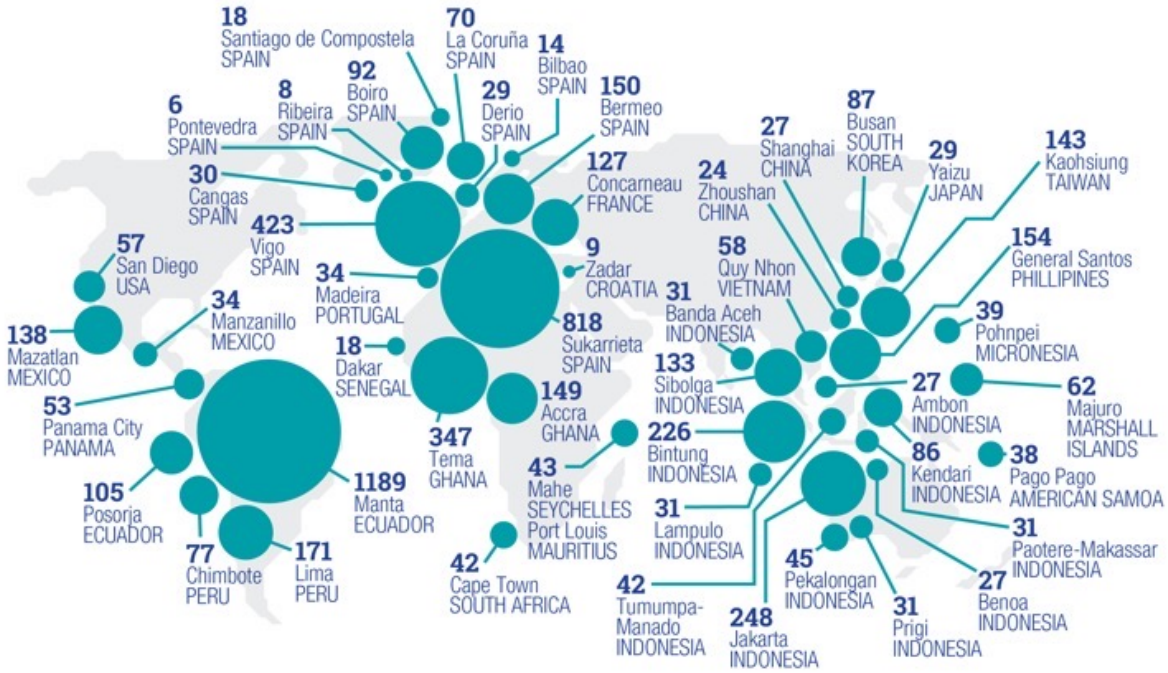
Our Approach to (Bycatch) SCIENCE



Our Approach to (Bycatch) SCIENCE

ISSF INTERNATIONAL SEAFOOD SUSTAINABILITY FOUNDATION

ISSF SKIPPERS WORKSHOP ATTENDANCE | 2009–June 2025









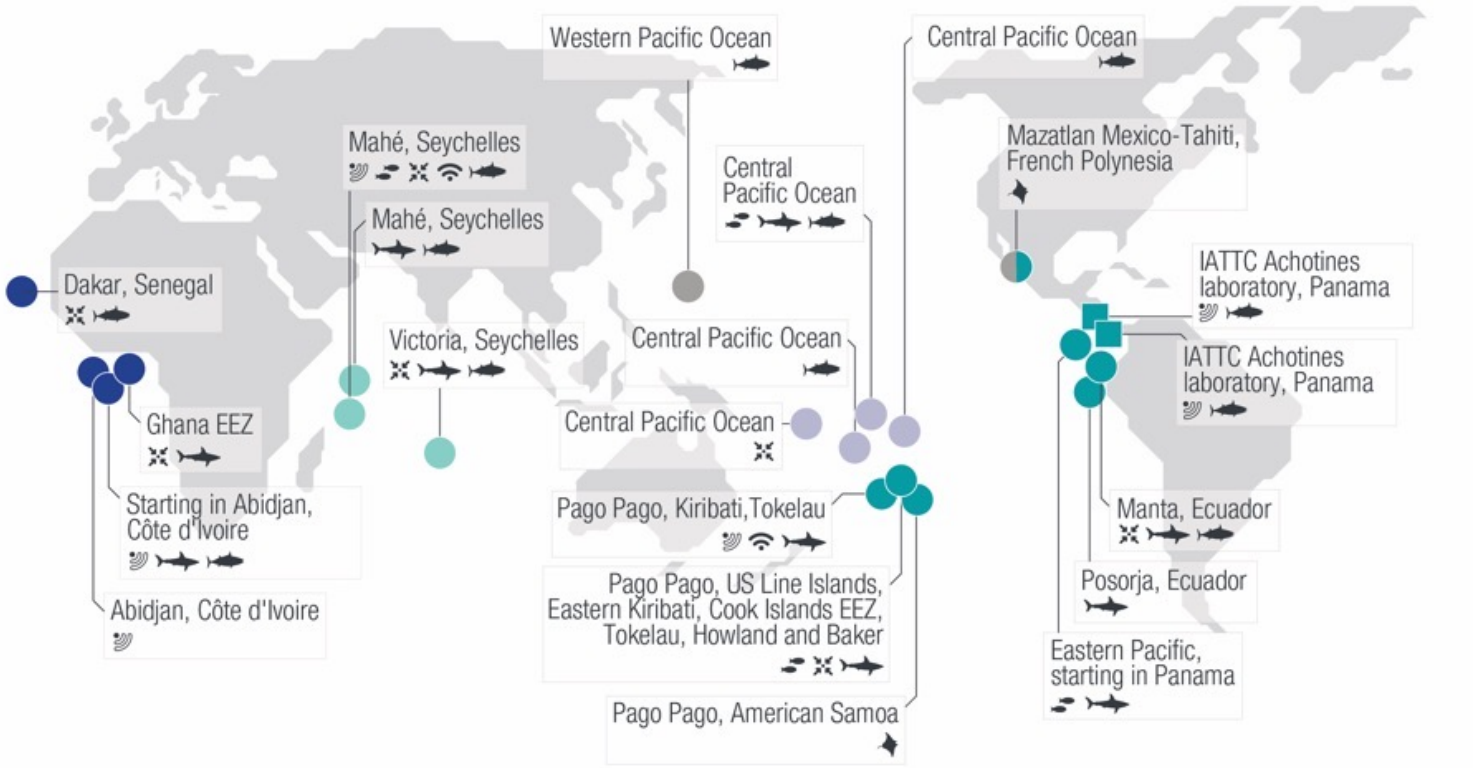
ISSF has conducted **135 Workshops**, in **44 Locations** / **23 Countries**, with **4,900 Skippers** and **Crew**

At-Sea Research & Experiments

ISSF INTERNATIONAL SEAFOOD SUSTAINABILITY FOUNDATION

2011–2024

Excludes biodegradable FAD tests



Type of Research

- Cruises
- Field Work

Location

- Atlantic Ocean
- Indian Ocean
- Eastern Pacific Ocean
- Central Pacific Ocean
- Western Central Pacific Ocean

Research Subject

- Acoustic discrimination
- Bycatch mitigation
- FAD designs
- Mobula rays
- Monitoring
- Sharks
- Tuna

Chronological Hierarchy of Bycatch Mitigation



Understanding Entanglement at FADs

Scientists, Managers, Fishers:

Problem of entanglement of sharks in nets of FADs was considered negligible compared to fishery mortality.

Filmalter, J.D., Capello, M., Deneubourg, J., Cowley, P.D. and Dagorn, L. (2013), Looking behind the curtain: quantifying massive shark mortality in fish aggregating devices. Frontiers in Ecology and the Environment, 11: 291-296. https://doi.org/10.1890/130045





Fully NEFADs Without Netting

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NON-Entangling FADs

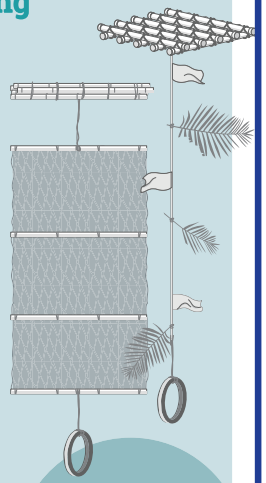
RAFT

Not constructed or covered with canvas, tarpaulin or shade clothes.

TAIL

Subsurface structure is made with ropes, canvas or nylon sheets, or other non-entangling materials.

More detail on the previous page.



No netting is used in any components (raft and tail)

These FADs are expected to have no risk of causing entanglement.

LOWER Entanglement Risk FADs

RAFT

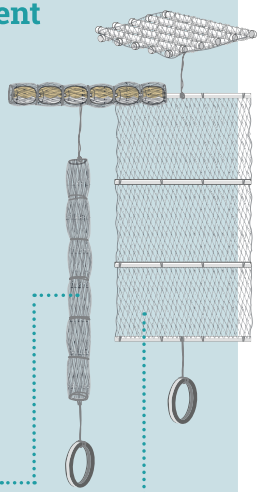
Use only small mesh netting (< 2.5 inch / 7 cm stretched mesh) if covering with net (both upper and submerged parts).

If small mesh netting is used as cover, it is tightly wrapped, with no loose netting hanging from the raft.

TAIL

If net is used as submerged tail, could be of any mesh size if tightly tied into sausage-like bundles.

If open panel netting is used, only small mesh size (< 2.5 inch [7 cm] stretched mesh) can be used, but weight the panel to keep it taut.



Despite using netting, these design elements reduce the risk of entanglement events.

HIGH Entanglement Risk FADs

RAFT

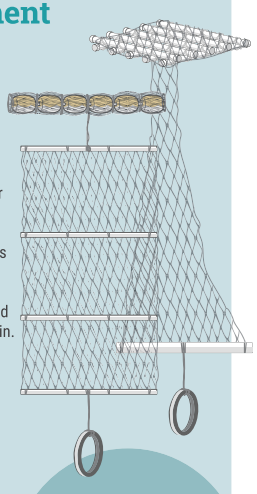
Covered with large mesh netting (e.g. > 2.5-inch mesh).*

If mesh size is larger than 2.5 inches (both in the upper or submerged part), it is high entanglement, whether the net is tightly tied or covered by canvas or tarpaulin.

TAIL

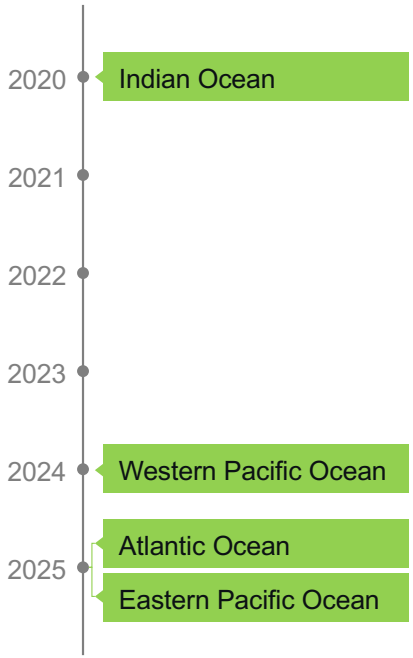
Submerged part of the FAD constructed with open panels of large mesh netting (> 2.5-inch mesh).

*Accounting for mesh sizes available in the market, 2.5 inch (7 cm) mesh size offers the lowest likelihood of entanglements across species and body parts.



These FADs are known to cause entanglements with turtles and sharks.

Non-Entangling Timeline



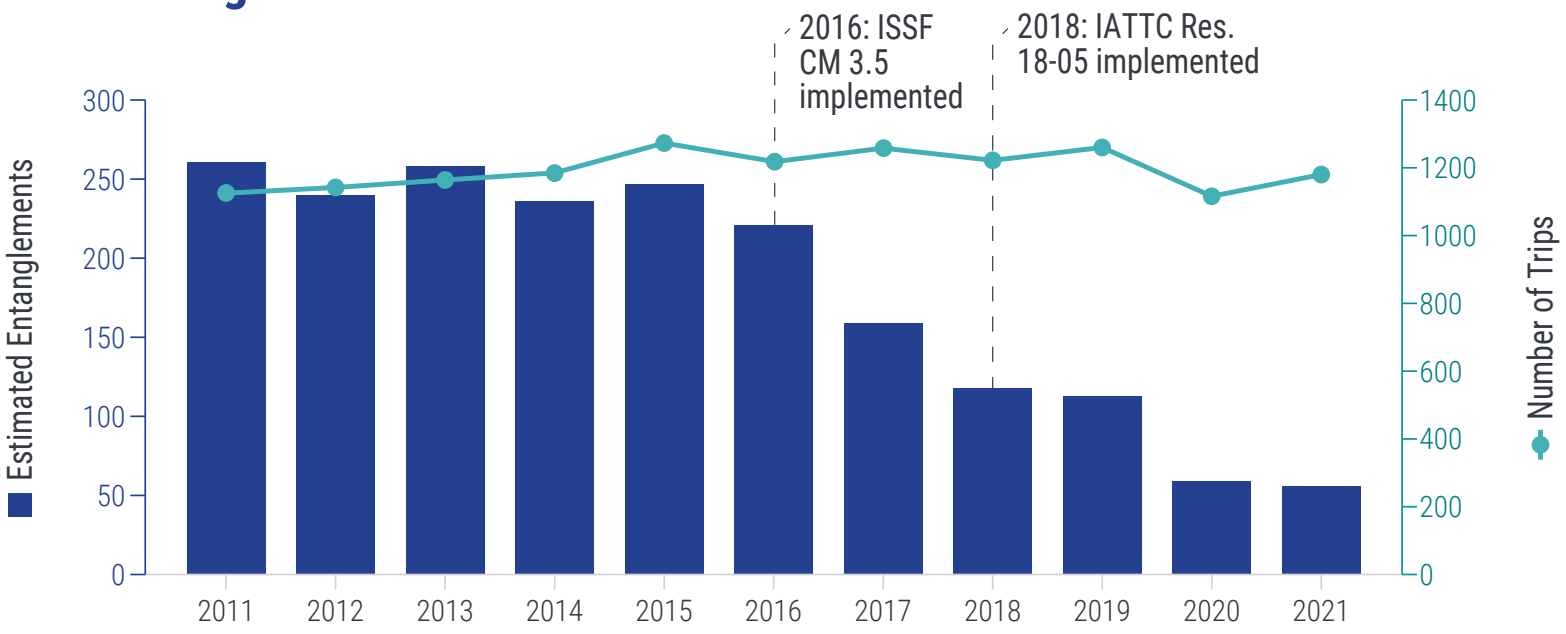
Entanglements at FADs in the Eastern Pacific

ISSF INTERNATIONAL SEAFOOD SUSTAINABILITY FOUNDATION

OBSERVER DATA REVIEW

Sea Turtle

Rate of Entanglement in Tuna Fisheries



Non-Entangling AND Biodegradable: Jelly-FAD Design

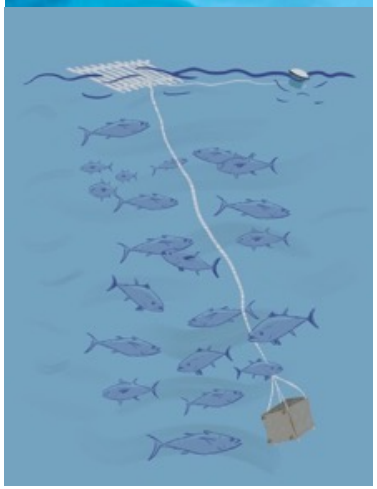
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Conventional FAD



Jelly-FAD





Marine Policy 147 (2023) 105352

Contents lists available at ScienceDirect

Marine Policy

journal homepage: www.elsevier.com/locate/marpol

The Jelly-FAD: A paradigm shift in the design of biodegradable Fish Aggregating Devices

Gala Moreno [a,*], Joaquín Salvador [b], Iker Zudaire [c], Jefferson Murua [c], Josep Lluís Pelegrí [b], Jon Uranga [c], Hilario Murua [a], Maitane Grande [c], Josu Santiago [c], Victor Restrepo [a]

[a] International Seafood Sustainability Foundation (ISSF), 3706 Butler Street Suite #316, Pittsburgh, PA 15201-1820, USA
[b] Institut de Ciències del Mar (ICM), Passeig Marítim de la Barceloneta, 37-49, 08003 Barcelona, Spain
[c] AZTI, Marine Research, Basque Research and Technology Alliance (BRTA), Pasaia, Gipuzkoa, Spain

WINNER
Responsible Seafood Innovation Award

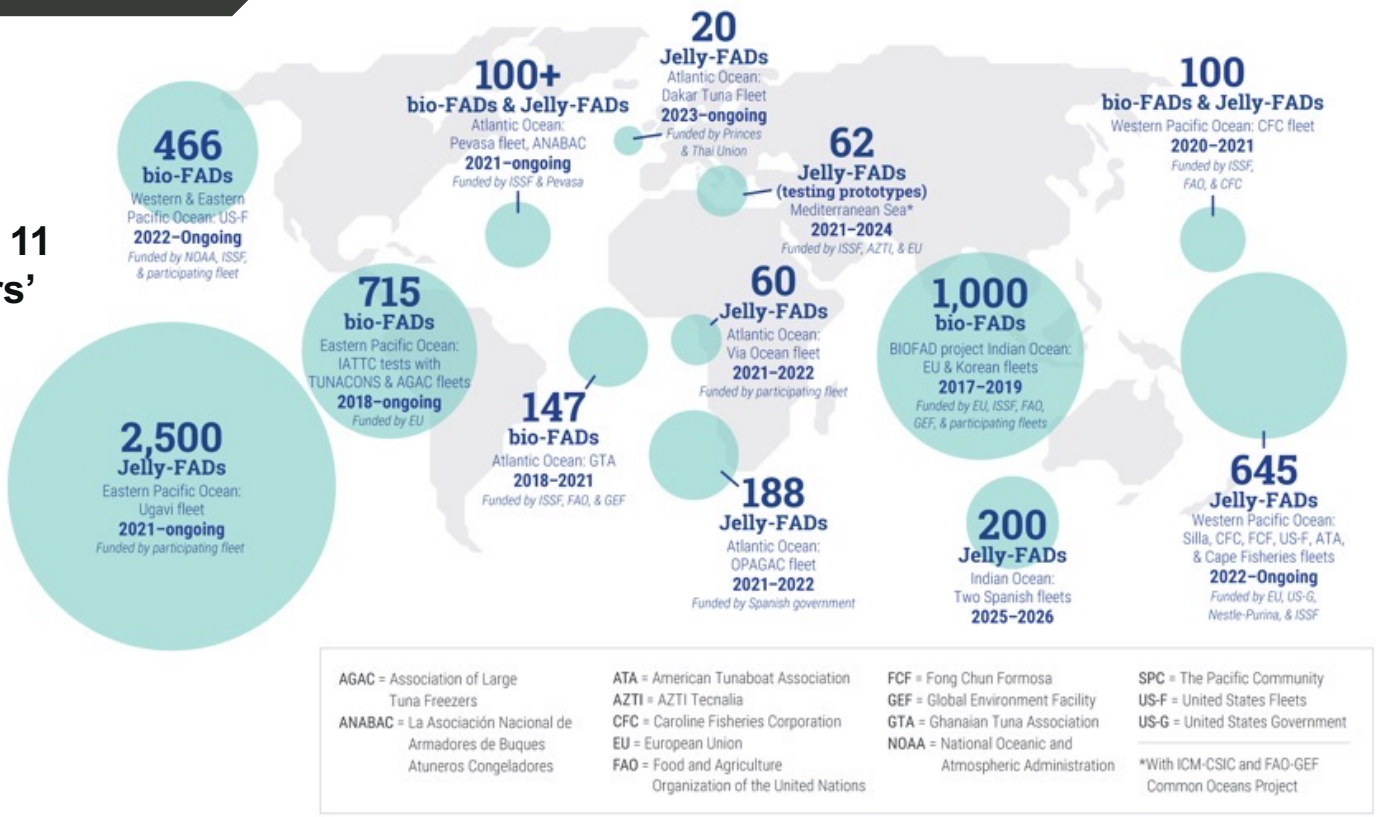
Conclusion from bioFAD Trials

ISSF INTERNATIONAL SEAFOOD SUSTAINABILITY FOUNDATION

NEW ISSF TRIALS & LARGE-SCALE DEPLOYMENT

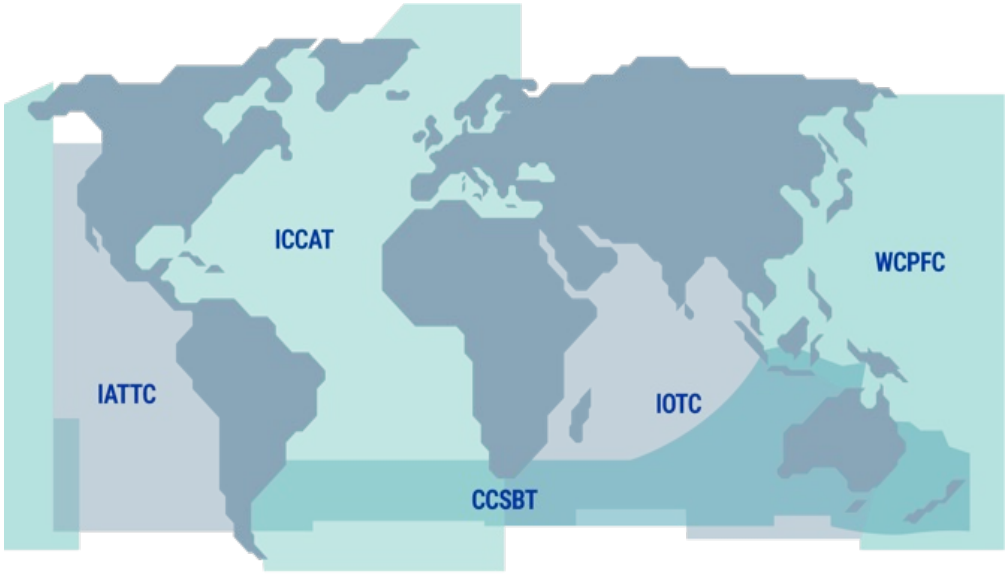
2018–PRESENT

- **Achieve similar catches and performance** as conventional FADs
- **Lifespan**: sets were made after **11 months at sea**, **meeting fishers' needs for lifespan**
- Success relies on **number of Jelly-FADs deployed**
- **Ongoing tests** w/ fleets from Korea, Taiwan, China, Spain, FSM, USA and Ecuador
- **Next Steps**: Test a new generation of Jelly-FADs in controlled conditions



Management Measures on Biodegradable FADs

RFMO	Management Measures
IATTC 2023	**Stepwise implementation** from 2026 to 2029 (Except plastic flotation). In 2030, decide about plastic flotation.
WCPFC	**Not required but encouraged**
IOTC	**Stepwise implementation** from 2026 to 2030. Including flotation.
ICCAT	**Stepwise implementation** from 2025 to 2028. Including flotation.



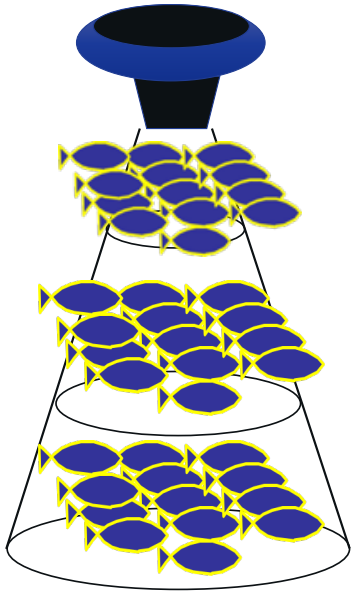
Chronological Hierarchy of Bycatch Mitigation



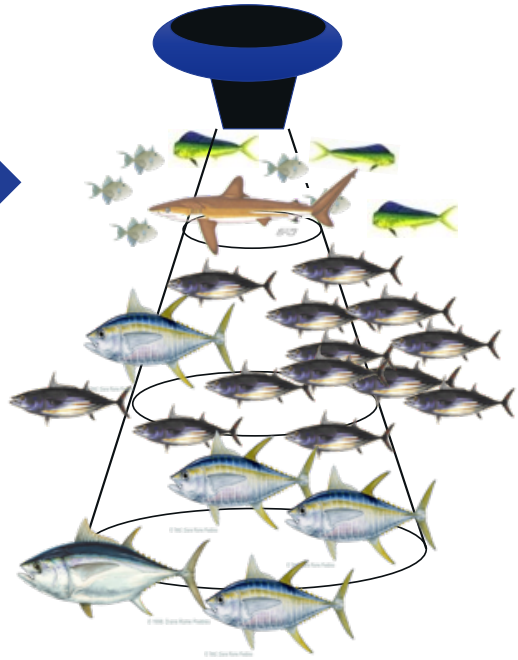
Acoustic Discrimination

ISSF INTERNATIONAL SEAFOOD SUSTAINABILITY FOUNDATION

ROUGH BIOMASS ESTIMATES

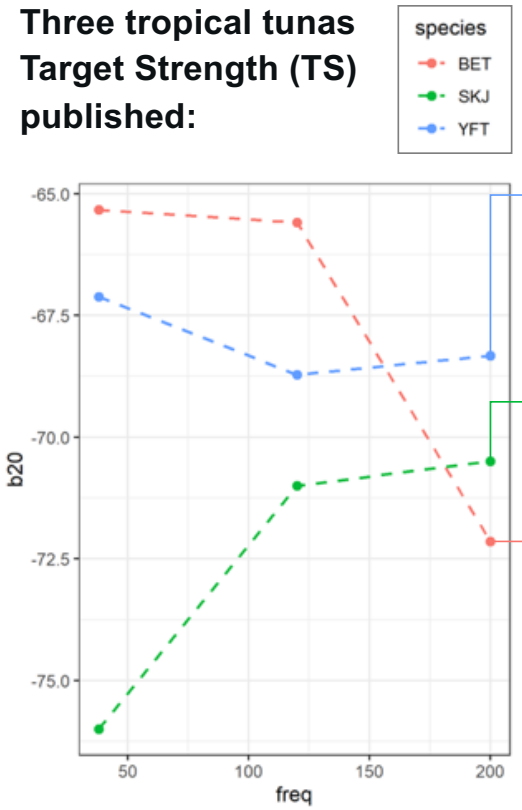


BIOLOGICALLY RELEVANT MEASURES



Acoustic Discrimination

Three tropical tunas Target Strength (TS) published:



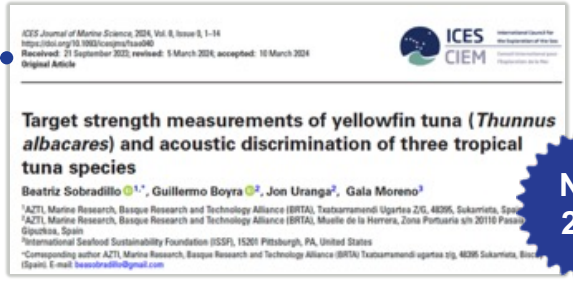
YFT TS obtained in Panama has an intermediate value between BET and SKJ and a fairly flat frequency response.

SKJ TS grows with frequency, as expected, due to its lack of swimmbladder.

BET TS is much higher, staying at 38 and 120, dropping drastically at 200 kHz.



Yellowfin
Thunnus albacares



NEW 2024



Skipjack
Katsuwonus pelamis





Bigeye
Thunnus obesus



Acoustic Discrimination

- Support buoy manufacturers in enhancing their hardware to **differentiate tuna species.**
- Provide support to **refine algorithms** for tuna species discrimination.
- Develop a **training curriculum.**



PLOS ONE

RESEARCH ARTICLE

Towards acoustic discrimination of tropical tuna associated with Fish Aggregating Devices

Gala Moreno[1]*, Guillermo Boyra[2], Igor Sancristobal[3], David Itano[4], Victor Restrepo[1]

1 International Seafood Sustainability Foundation (ISSF), Washington DC, United States of America, **2** Sustainable fisheries management, Marine Research, Azti-Tecnalia, Pasaia, Gipuzkoa, Spain, **3** Sustainable Management of Fisheries, Collecte Localisation Satellites (CLS), Ramonville-Saint-Agne, France, **4** Fisheries consultant, Honolulu, Hawaii, United States of America

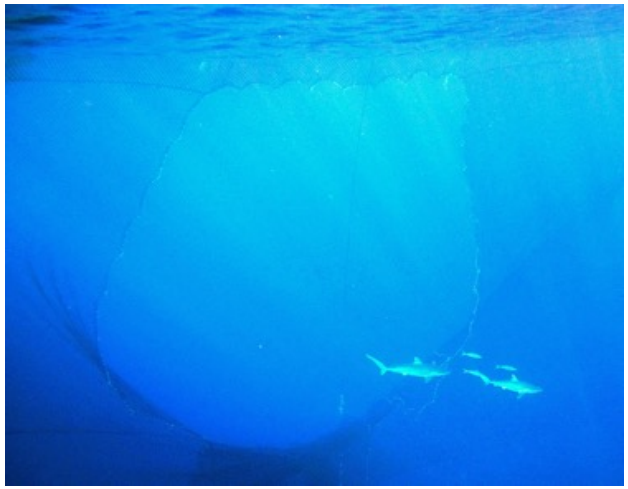
Chronological Hierarchy of Bycatch Mitigation



Shark Releases from the Net

INTERNATIONAL SEAFOOD SUSTAINABILITY FOUNDATION

TESTING VARIOUS METHODS



Sharks aggregate in a particular area of the net → **Create a window** in the net to let the sharks swim out.



Fish and Release → **Fishing for shark in the net**



Attracting shark on the net → Can we **attract sharks away from FADs** (e.g. using bait), then set on tunas?

50% success

Chronological Hierarchy of Bycatch Mitigation



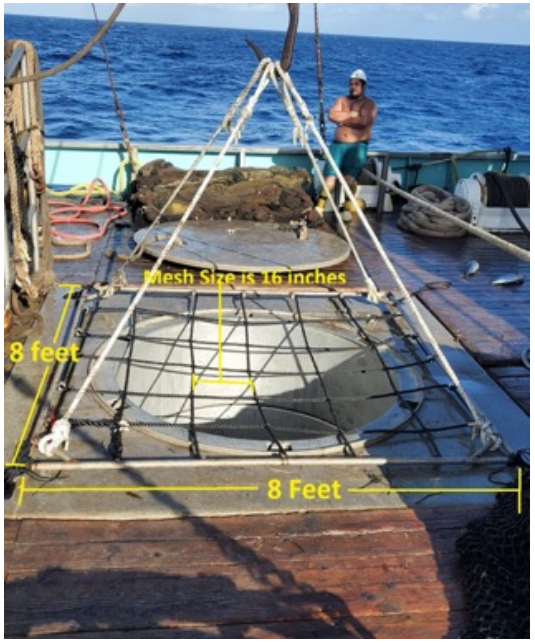
Design & Testing of Sorting Grids

Sorting grids constructed for each of the 12 U.S. tropical tuna purse seine vessels

Design varied based on vessel specifications.







Design & Testing of Sorting Grids



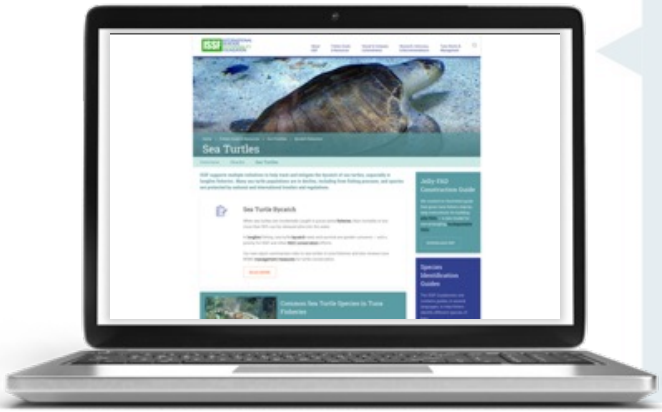
Chronological Hierarchy of Bycatch Mitigation



ISSF Sea Turtle Conservation

PROJECTS TO DATE

ISSF supports sea turtle **research, conservation,** and **educational projects** worldwide — including in Brazil, Tanzania, Peru, and Oman — through a more than $100,000 annual fund created by several ISSF Participating Companies.



iss-foundation.org/fishery-goals-and-resources/our-priorities/bycatch-reduction/sea-turtles

WESTERN **PACIFIC OCEAN**

- Leatherback Conservation in Bird's Head Region, Papua Barat, Indonesia* – Turtle monitoring and nest protection year-round at two index beaches; team in 2022 protected 1,443 leatherback nests, which produced an estimated 110,090 hatchlings, and 213 hard-shelled **species**
- Community-Based Leatherback Conservation in Solomon Islands

EASTERN PACIFIC OCEAN

- Prevention and Reduction of Marine Turtle Fishery Bycatch in Peru, Ecuador, and Chile* – In 2023, project supports rapid bycatch assessments and **bycatch mitigation**, including fisher and **observer** training in safe handling and release techniques, as well as use of LEDs to reduce turtle bycatch
- Hawksbill Conservation in Nicaragua and El Salvador*– Project spans two nesting beaches and two bycatch reduction sites; in 2022, 98% of nests laid were protected, and more than 35,000 hawksbill hatchlings were released

INDIAN OCEAN

- Monitoring and conservation of sea turtles in the Andaman and Nicobar Islands, India* – Underway since 2011, this project has enabled local community and government programs to carry out sea turtle conservation; program is well established on Little Andaman Island and is expanding to remote Nicobar Islands
- Community based sea turtle conservation in Tanzania* – Project has included advocacy meetings with municipal representatives, education sessions at secondary **schools**, and awareness activities for 10 villages; in 2023, a Conservation Officer network will lead conservation efforts on 19 nesting beaches in Kigamboni Municipality
- Seychelles Islands Sea Turtle Conservation
- Working with Local **Fishermen** to Mitigate Loggerhead Bycatch on Masirah Island, Oman

ATLANTIC OCEAN

- Sea Turtle Conservation in Brazil* – Local team has protected 1,334 seat turtle nests, including 341 loggerhead nests that produced 18,820 hatchlings, as well as 30km of beaches on the cost of Bahia, the most important loggerhead nesting area in the South Atlantic
- Mitigation of Turtle Meat Consumption on Santiago Island, Cape Verde* – Project funds have supported a radio program with fishers and fishwives, developing an educational video, and outreach awareness materials; the Cape Verde Islands have one of the world's largest loggerhead nesting populations

*Current project

Source: © ISSF website

Conclusions

ISSF INTERNATIONAL SEAFOOD SUSTAINABILITY FOUNDATION

PROJECTS TO DATE

- **To improve fundamental knowledge** of tunas, sharks and other vulnerable species (sensory cues, habitat and distribution)
- **To develop new techniques,** devices and fishing strategy/methods (innovative technology, improved deck configuration to handle bycatch)
- **To assist fleets in transitioning** to fully NEFAD and biodegradable FADs (evaluate whether current bioFAD designs are sufficient)
- **To develop potential management measures** to further mitigate bycatch impacts
- **To promote** fewer FADs, but “better” FADs (continue trials of innovative FADs)

HOW?

- **Interdisciplinary approach** involving oceanographers, shipyard engineers, NGOs, RFMOs
- **Collaborate closely with fishers** selecting proactive and influential participants
- **Value and Respect** fishers’ input: engage knowledgeable scientists with fishers
- **Incentives:** Support Implementation of voluntary measures
- **Monitor and Verify** the best practices and measures implemented.



Traceability & Mitigating IUU

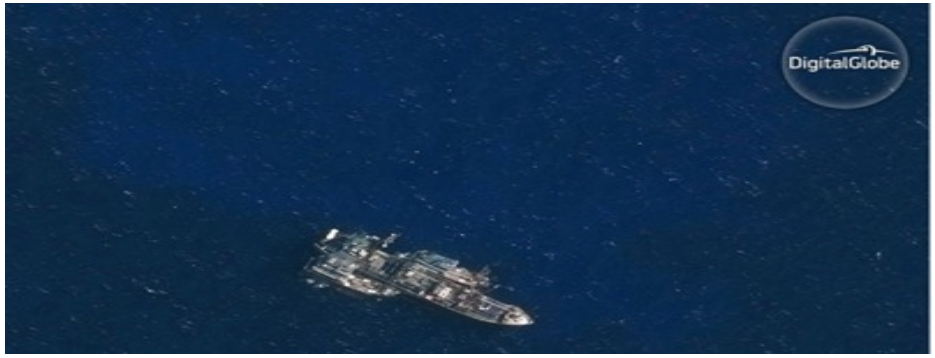
ISSF INTERNATIONAL SEAFOOD SUSTAINABILITY FOUNDATION

Monitoring Transshipment — At Sea vs. In Port

INTERNATIONAL SEAFOOD SUSTAINABILITY FOUNDATION

AT SEA

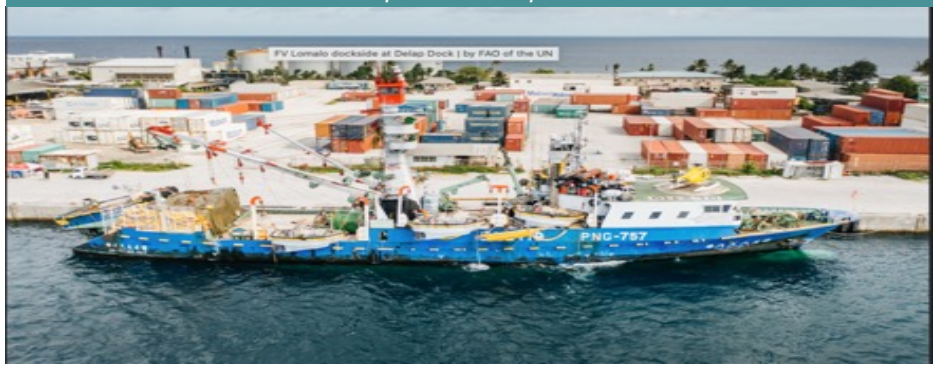
Primarily large-scale longline



- Catch is transferred to carrier vessels at sea, including on the high seas or within EEZs
- Remote locations create greater monitoring and oversight challenges

IN PORT

Standard practice for purse seine



- Catch transfer occurs in port, where monitoring and verification are more readily available
- Port-based controls provide greater opportunities for direct oversight and catch verification

MORE CHALLENGING TO MONITOR → **GREATER OPPORTUNITY FOR DIRECT OVERSIGHT**

Strengthening Transshipment Regulations

TRANSSHIPMENT AT SEA (mostly longline, mostly high-seas)

ISSF's at-sea transshipment requirements primarily address large-scale longline vessels

ISSF advocates for RFMOs to align their transshipment regulations with FAO's 2023 Voluntary Guidelines Transshipment. Not all RFMOs have the same requirements, so our asks differ, depending on the RFMO.



Tackling IUU From Multiple Angles

Tuna processors globally commit to ISSF Conservation Measures: traceability, data collection and transshipment, among many others that deter IUU activities







Tackling IUU From Multiple Angles

Tuna fishing vessels worldwide signaling their commitment to fishing best practices that combat IUU:

- ✓ **UVI**
- ✓ **Not IUU Listed**
- ✓ **Observer Coverage**
- ✓ **Use of EM**
- ✓ **& MORE**

ProActive Vessel Register (PVR): 3rd-party auditing validates vessels following science-based, sustainable tuna fishing practices

Vessels in Other Sustainability Initiatives (VOSI): Verified resource shows which vessels have made public sustainability commitments beyond PVR

UVI and IMO Databases: Track permanent, unique vessel identifiers

ISSF scientific research and advocacy guides outreach to RFMOs and governments:

- **Technical advice**
- **Recommendations on effective RFMO governance**
- **Scientific research reports**

Today

All 4 tropical tuna RFMOs have adopted EM minimum standards



Observer Coverage & Electronic Monitoring

ISSF INTERNATIONAL SEAFOOD SUSTAINABILITY FOUNDATION

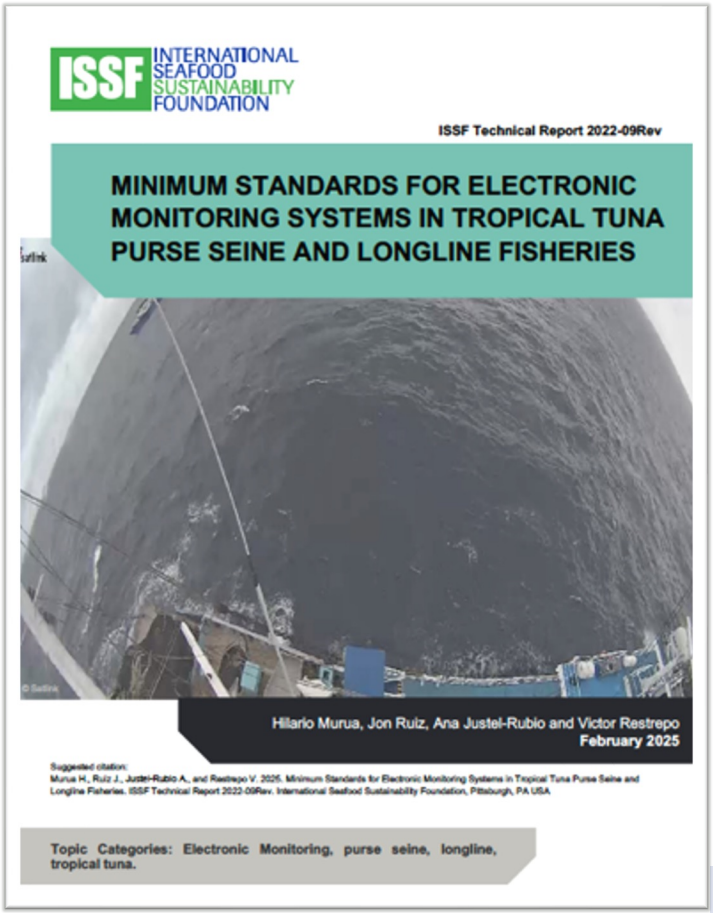
A Collaborative Push to Embrace and Standardize EM

ISSF and other partner NGOs have created EMS resources for fishers, policymakers and authorities

- Best-practices reports
- Minimum standards recommendations
- Data submission guides
- Snapshot assessments of RFMO performance toward EM requirements

EMS continuously watch, record, transmit data about activities to governments, RFMOs, other oversight organizations

- **Substitute for or supplement onboard human observer coverage**, for example, documenting catch, bycatch, transshipment and landing activities
- **Detects overfishing, safety violations and other forms of noncompliance**, including IUU fishing



Vessels in Other Sustainability Initiatives (VOSI)

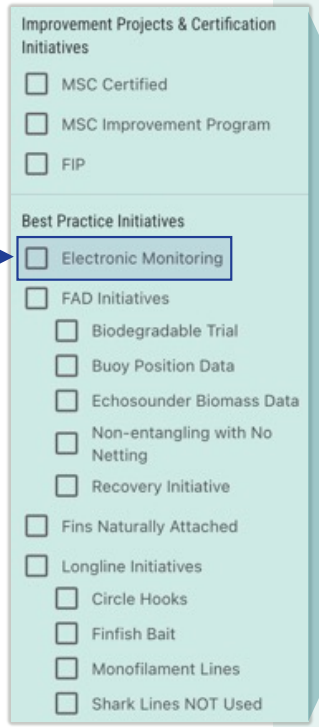
ISSF INTERNATIONAL SEAFOOD SUSTAINABILITY FOUNDATION

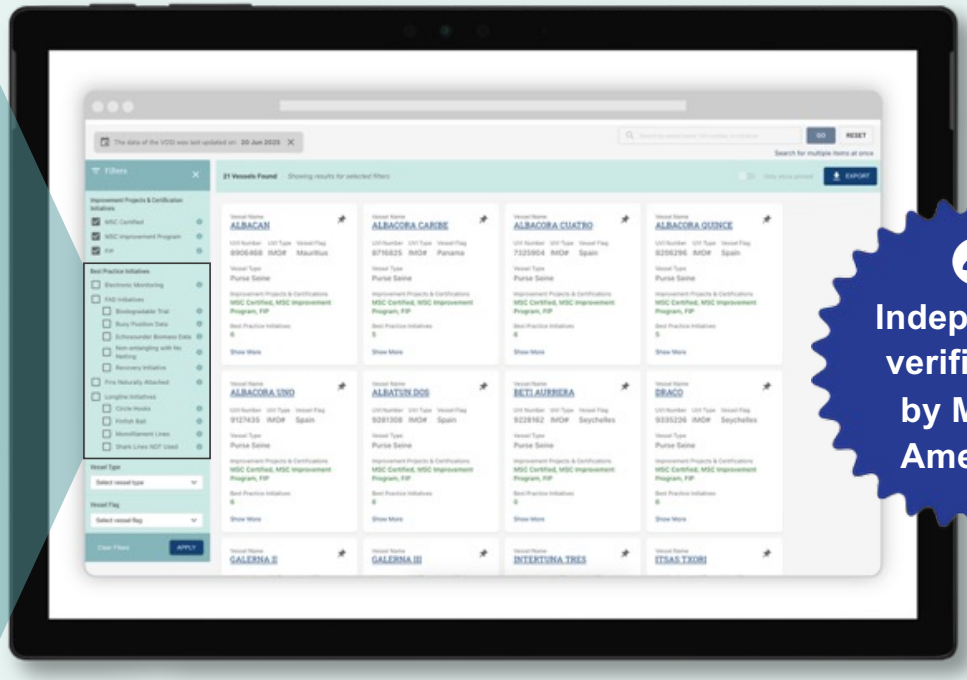
A RECENTLY UPDATED & EXPANDED TOOL

A transparency tool for the public that want to understand which tuna vessels have made public commitments to more sustainable fishing beyond the commitments reflected on the PVR

EM field in the VOSI tool is mechanism for verifying vessel participation in **The Nature Conservancy's Tuna Transparency Pledge**

VOSI tracks:





~110 Vessels with EM on VOSI

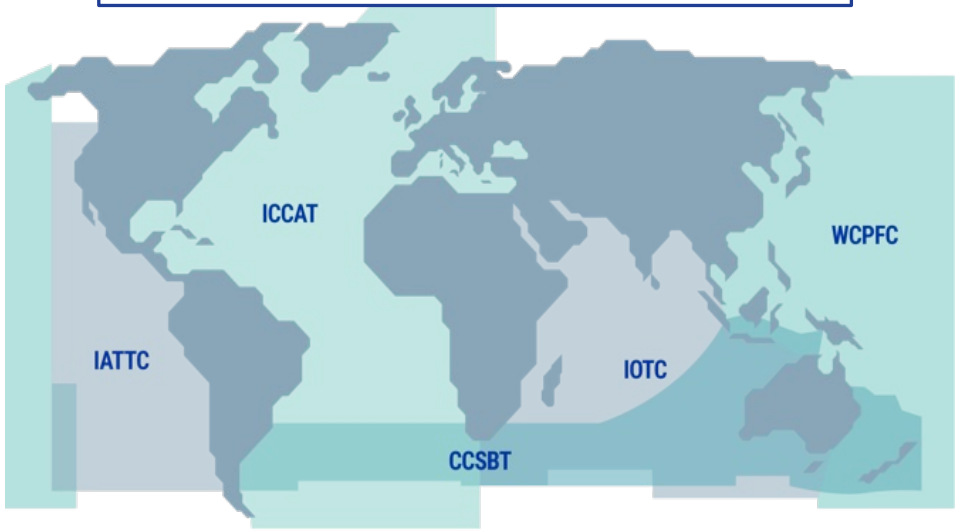
Independent verification by MRAG Americas

Dramatic Strides toward Worldwide EMS Use in Recent Years

- **IATTC** - LL and PS Interim EM Minimum Standards
  ADOPTED September 2024
- **ICCAT -** LL and PS EM Minimum Standards
  ADOPTED November 2023
- **IOTC** - ADOPTED LL, PS, P&L EM definitions, EM program and data minimum standards May 2023 (1st RFMO to do so)
- **WCPFC** - LL and PS Interim EM Minimum Standards
  ADOPTED September 2024

Today

All RFMOS poised to remedy longstanding problem of subpar observer coverage on longline vessels





Une approche holistique de la durabilité écologique de la pêche à la senne du thon tropical

Laurent DAGORN

IRD Institut de Recherche pour le Développement FRANCE

Ifremer

Université de Montpellier

cnrs dépasser les frontières

INRAE

Durabilité écologique

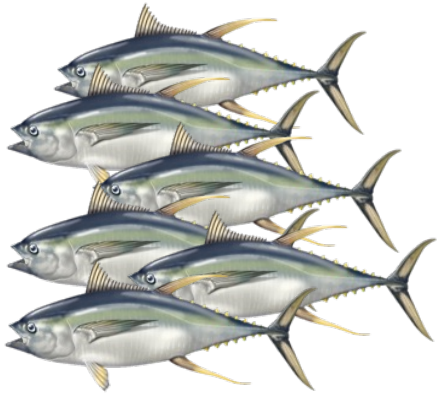
- Pêcher des juvéniles est-il mauvais ?
- Peut-on envisager une pêche FAD-free ?



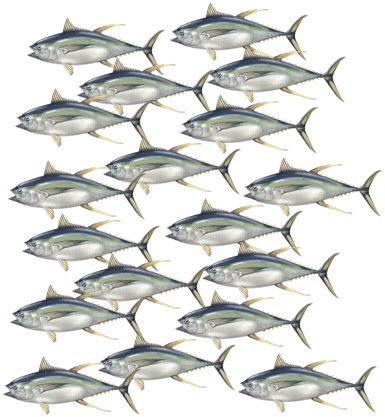
Un stock est surexploité quand on pêche trop

Un stock peut être surexploité quand on pêche :

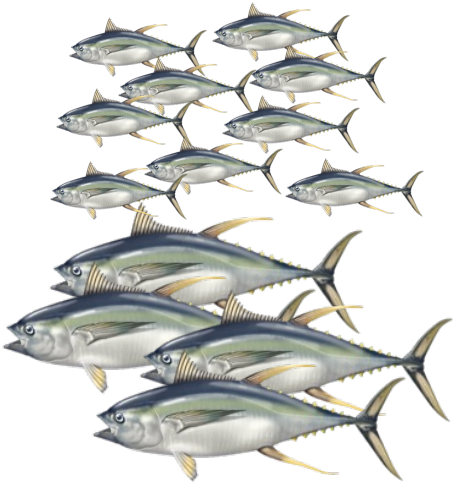
Trop d'adultes



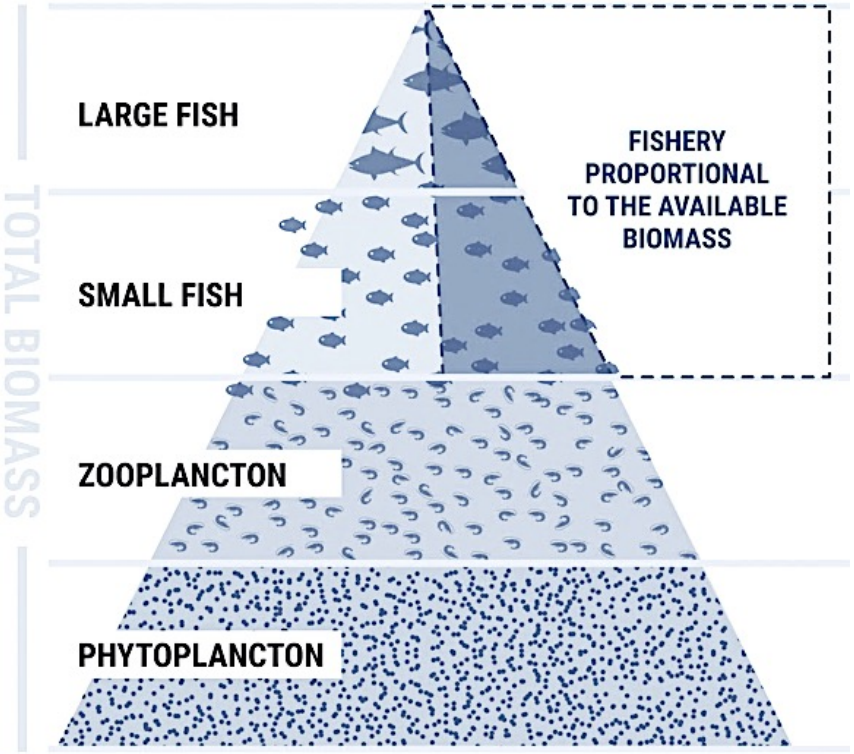
Trop de juvéniles



Trop d'adultes et de juvéniles



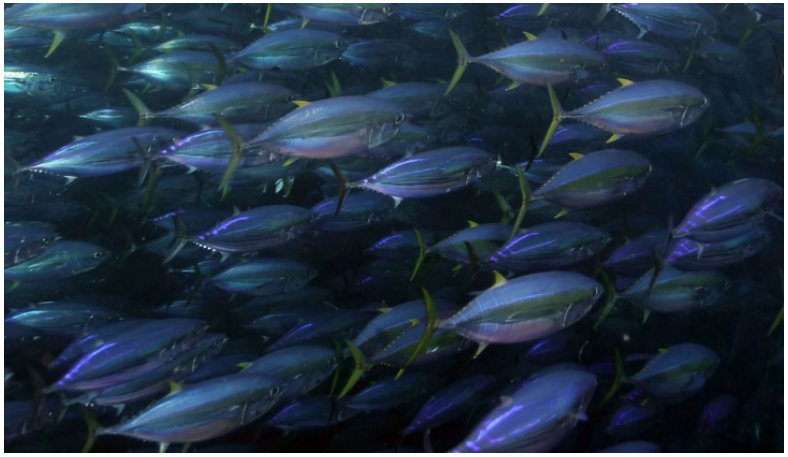
La nature produit plus de petits que de grands

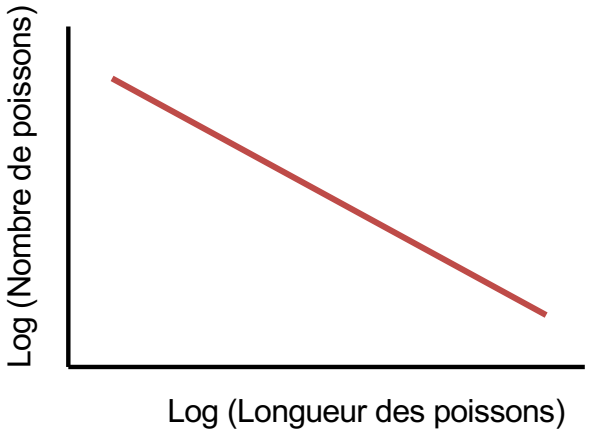


La pêche doit respecter la **structure** de l'écosystème *(Convention pour la Diversité Biologique CBD)*

La pêche doit prélever **plus de petits** que de grands

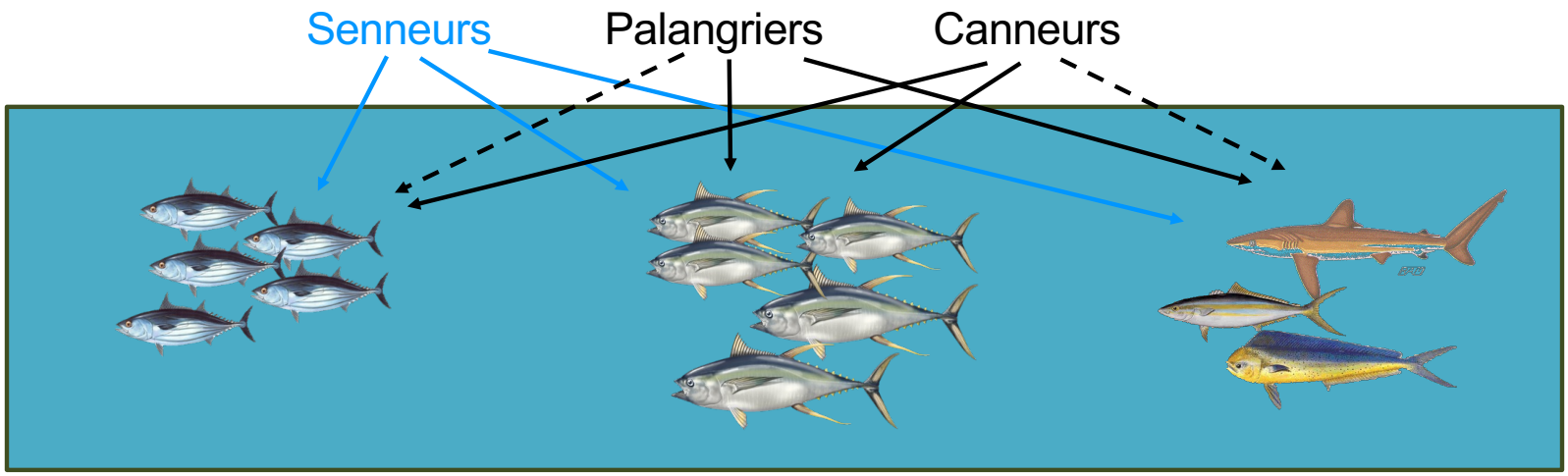
Quels efforts de pêche, répartis entre pêcheries, faut-il pour atteindre un bon équilibre de structure de tailles dans 20 ans ?





Un stock (espèce) est pêché par plusieurs engins de pêche

Un engin de pêche exploite plusieurs stocks (espèces)



Toutes les pêcheries qui exploitent un même écosystème (mêmes stocks) doivent être gérées,
en prenant en compte les diagrammes d'exploitation (espèces, tailles) de chaque pêcherie

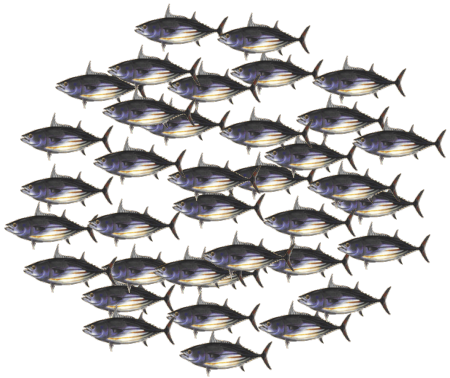
Pêche à la senne du thon tropical
Deux modes de captures

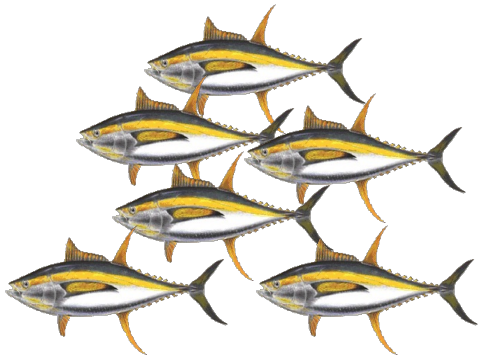
DCP



Bancs libres







Sélectivité par tailles des engins de pêche (océan Indien)

Canne

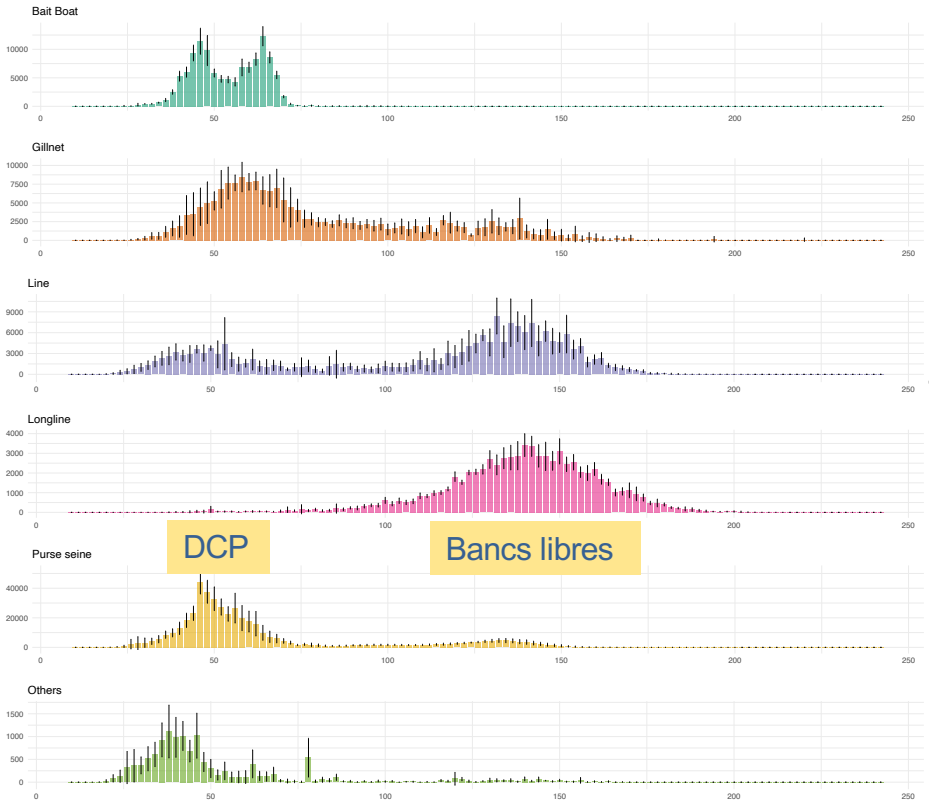
Filet maillant

Ligne

Palangre

Senne

Autres





marbec MARINE BIODIVERSITY EXPLOITATION & CONSERVATION

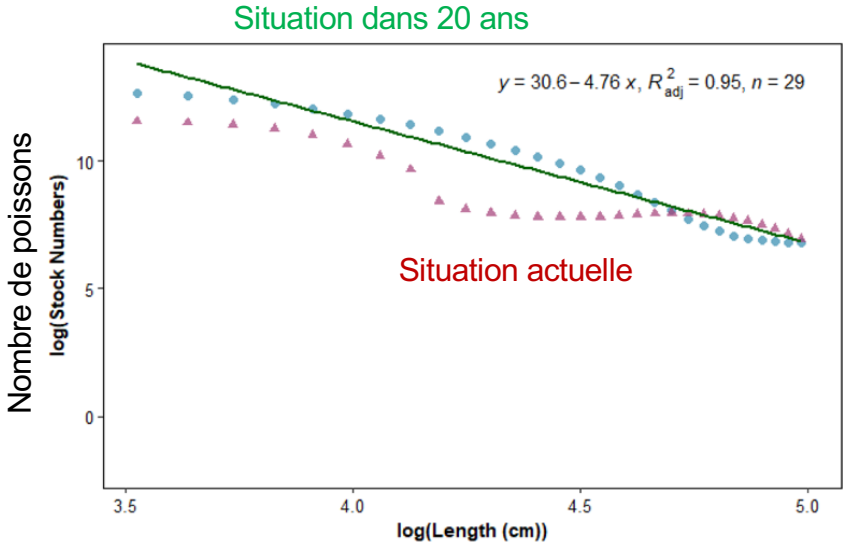
Quels efforts de pêche faut-il pour atteindre un équilibre de structure de tailles dans 20 ans ?



Balancing fishing effort along the tropical tuna abundance-size spectrum

Alex Tidd *, Mariana Travassos Tolotti, Patrice Guillotreau, Nicolas Barrier, Laurent Dagorn

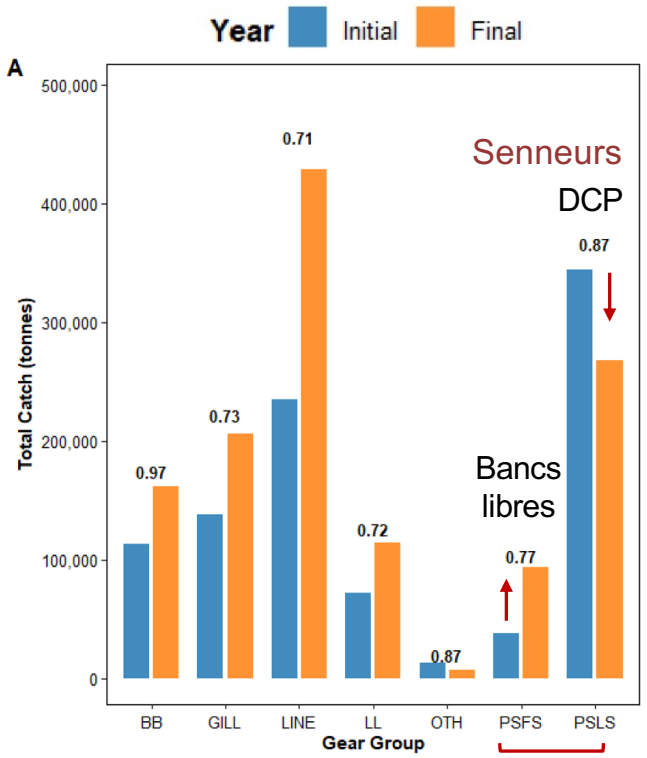
Modification des
efforts de pêche de chaque pêcherie,
pour atteindre
une situation équilibrée
dans 20 ans



Longueur des poissons

marbec MARINE BIODIVERSITY EXPLOITATION & CONSERVATION

Le modèle propose de réduire l'effort de pêche de **Tous** les engins de pêche



Le modèle **ne propose pas de supprimer** la pêche sous DCP (FAD-free), ou toute autre pêcherie, mais propose **une autre proportion** des captures entre pêcheries

Senne : il faut optimiser la proportion des captures entre Bancs Libres et DCP

FAD-free ?

- 100% FAD-free provoquerait rapidement
  un effondrement du stock d'albacore (Yellowfin)

- Quels objectifs rechercherait-on avec le FAD-free ?

Objectifs	Solutions	Disponibilité de la solution
Juvéniles	Equilibrer effort de pêche entre DCP et bancs libres	✓
Prises accessoires (requins, raies)	Mise en place de bonnes pratiques, sur DCP et bancs libres	✓
Pollution des DCP	DCP Biodégradables Réduire le nombre de DCP	✓ ?

Peut-on réduire le nombre de DCP en augmentant le partage d'informations ?

Situation actuelle

Chaque bateau a ses propres DCP

Certains bateaux partagent leurs DCP

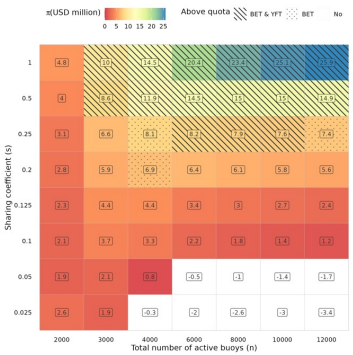
Mais pas de partage complet

Partage des informations des DCP

Idée inspirée des pêcheries sur DCP ancrés (gestions privées ou centralisées)



Résultats du modèle



Gestion centrale des DCP → Nombre de DCP divisé par 4 →

Respect des quotas

Diminution de la pollution des DCP

Réduction de la consommation de fuel

Meilleure profitabilité des navires

Mais problème d'acceptabilité

marbec MARINE BIODIVERSITY EXPLOITATION & CONSERVATION

Conclusions

- Avoir une approche écosystémique et holistique :
  - Bon état des stocks de thons (quotas, limites d'efforts de pêche)
  - Bon état des populations d'espèces accessoires, vulnérables (bonnes pratiques)
  - Respect de la structure des écosystèmes (gestion multi-spécifique)
  - Bon état des habitats (réduction des modifications anthropiques)





Q&A

ISSF INTERNATIONAL SEAFOOD SUSTAINABILITY FOUNDATION

Marine Stewardship Council

FILIÈRE THON DURABLE MSC :
PROGRÈS ET ENGAGEMENT

Paris, 9 octobre 2026



LA MISSION DU MSC

Depuis plus de 25 ans, le MSC lutte contre la surpêche et œuvre pour la préservation des ressources marines au niveau mondial en s'appuyant sur une approche scientifique.

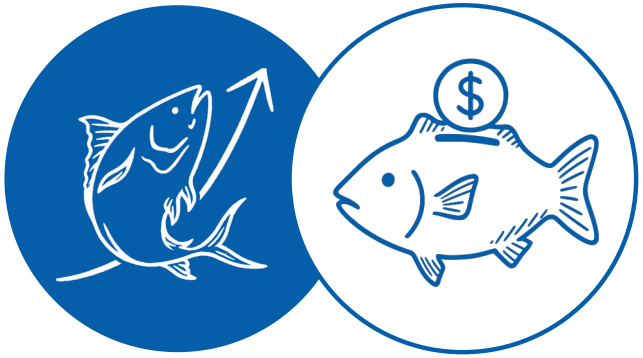
Marine Stewardship Council

COMMENT ACCOMPLIR CETTE MISSION



Référentiels et label bleu

MSC Pêche Durable et
Chaine de Garantie d'Origine



Amélioration continue

MSC Improvement Program et
Ocean Stewardship Fund



Sensibilisation

et valorisation

Marine Stewardship Council

LE PROGRAMME DU MSC

Programme volontaire et non discriminatoire
Evaluations scientifiques, tierce-parties et indépendantes

RIGOUREUX



EXIGENCE DE RÉSULTATS

Démonstration des performances du programme et amélioration continue

CRÉDIBLE



TRANSPARENCE

Consultations et rapports d'évaluation publics

TIERCE PARTIE



IMPARTIALITÉ

Absence de conflits d'intérêts et évaluation externe

RECONNAISSANCE

Conférence des Nations Unies sur la biodiversité (COP-15) : **Reconnaissance du MSC comme un indicateur global pour lutter contre la perte de biodiversité**

Marine Stewardship Council

Marine Stewardship Council

LES PÊCHERIES DE THONS ENGAGÉES AVEC LE MSC

Alexandra Maufroy, Responsable du Pôle Pêcheries
MSC France



LES PÊCHERIES DE THONS
ENGAGÉES AVEC LE MSC

3,6

MILLIONS DE TONNES ENGAGÉES

dont 3,43 millions de tonnes proviennent de pêcheries de thonidés certifiées.

63%

DES CAPTURES MONDIALES

soit 58% provenant de pêcheries de thonidés certifiées.

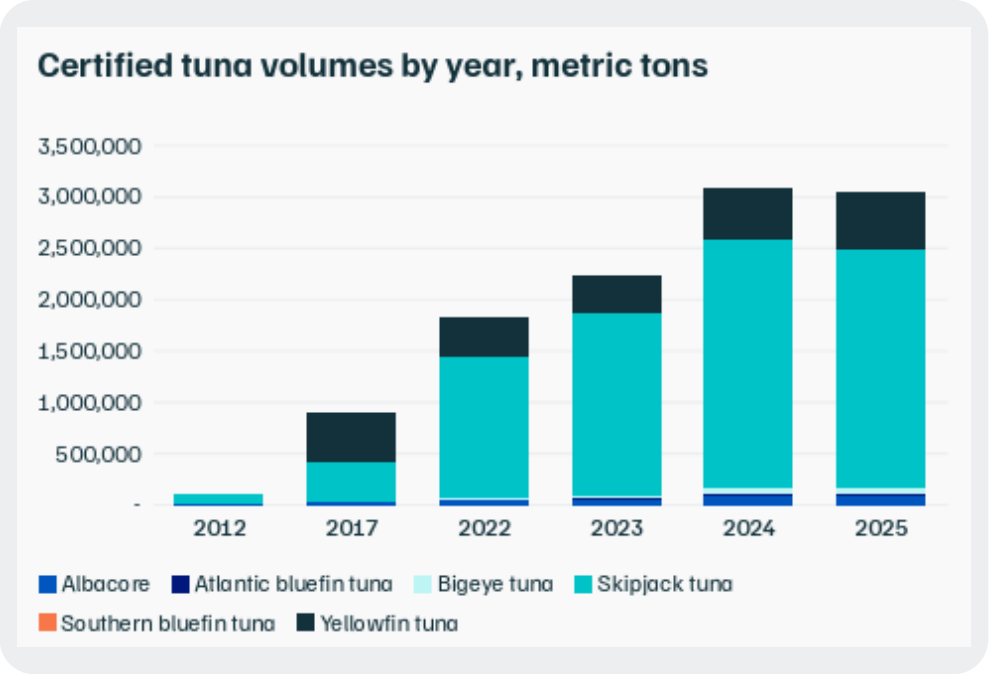
** certifiées, en évaluation, MSC Improvement Program ou suspendues.*
*** données MSC 2026 et FAO 2024*

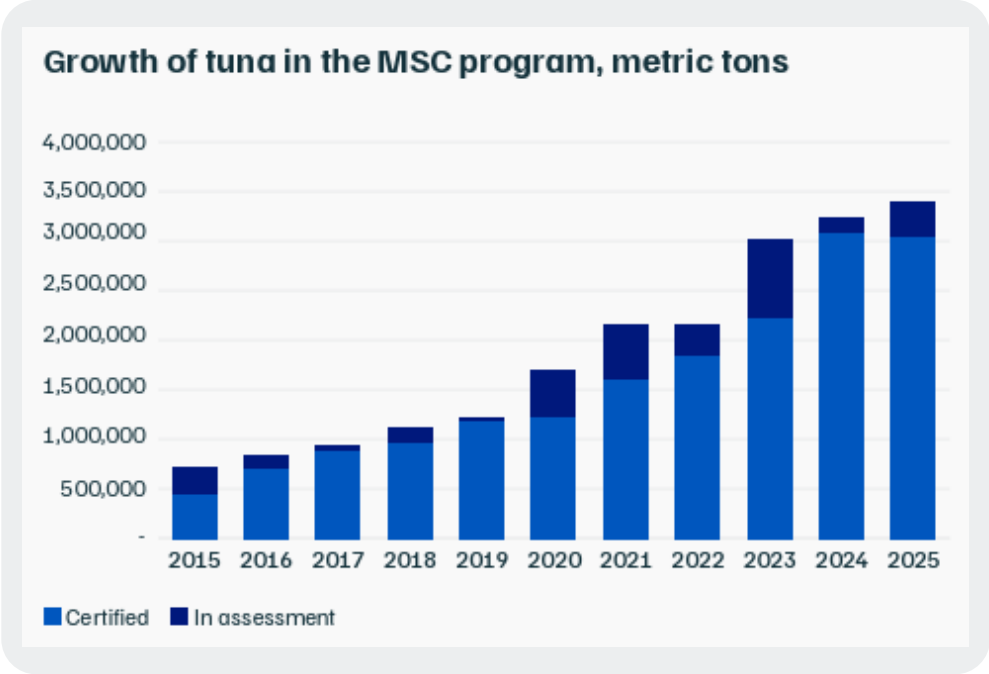


LES PÊCHERIES DE THONS

UNE FORTE CROISSANCE DANS LE PROGRAMME MSC

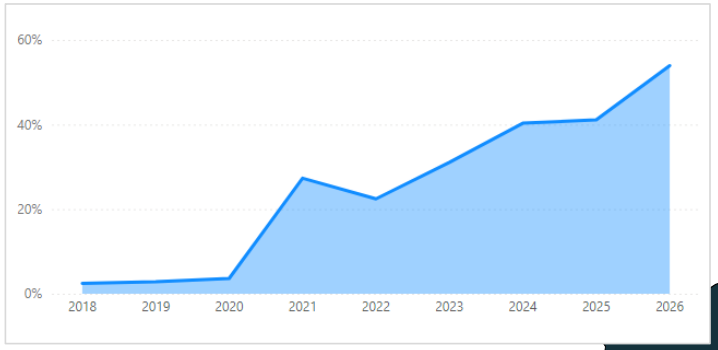
Source : guide MSC du thon durable 2026





LES PÊCHERIES ENGAGÉES EN FRANCE

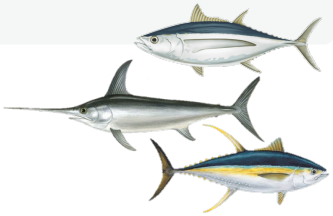
Marine Stewardship Council





Espadon, albacore, germon
ARIPA

Espadon et thons des palangriers de la Réunion





Listao et albacore
ORTHONGEL et adhérents

Thon tropical de l'Atlantique à la senne
Thon tropical de l'océan Indien à la senne

Espadon, germon, albacore
Ocean Products Tahiti

Thons et espadon de Polynésie





Germon
Pêcheurs d'Aquitaine

Pêcherie artisanale de germon de l'Atlantique



Thon rouge
SATHOAN

Thon rouge des petits métiers de Méditerranée

Certifiée (5) Pêcherie suspendue (1)

ÊTRE DURABLE ...

Marine Stewardship Council

PRINCIPE 1 : DES STOCKS DURABLES



1.1 ETAT DU STOCK CIBLÉ

1.1.1 Stock en bonne santé
1.1.2 Stock en reconstitution



1.2 GESTION DU STOCK

1.2.1 Stratégie de gestion
1.2.2 Contrôle des captures
1.2.3 Information et suivi
1.2.4 Evaluation du stock

PRINCIPE 2 : DES IMPACTS MINIMISÉS



2.1 ESPÈCES ACCESSOIRES

2.1.1 Stock en bonne santé
2.1.2 Stratégie de gestion
2.1.3 Informations fiables



2.2 ESPÈCES SENSIBLES

2.2.1 Risques
2.2.2 Stratégie de gestion
2.2.3 Informations fiables



2.3 HABITATS

2.3.1 Risques
2.3.2 Stratégie de gestion
2.3.3 Informations fiables



2.4 ÉCOSYSTÈMES

2.4.1 Risques
2.4.2 Stratégie de gestion
2.4.3 Informations fiables

PRINCIPE 3 : UNE GESTION EFFICACE



3.1 GOUVERNANCE & POLITIQUES

3.1.1 Cadre légal et coutumier
3.1.2 Consultation
3.1.2 Objectifs long terme



3.2 GESTION DE LA PÊCHERIE

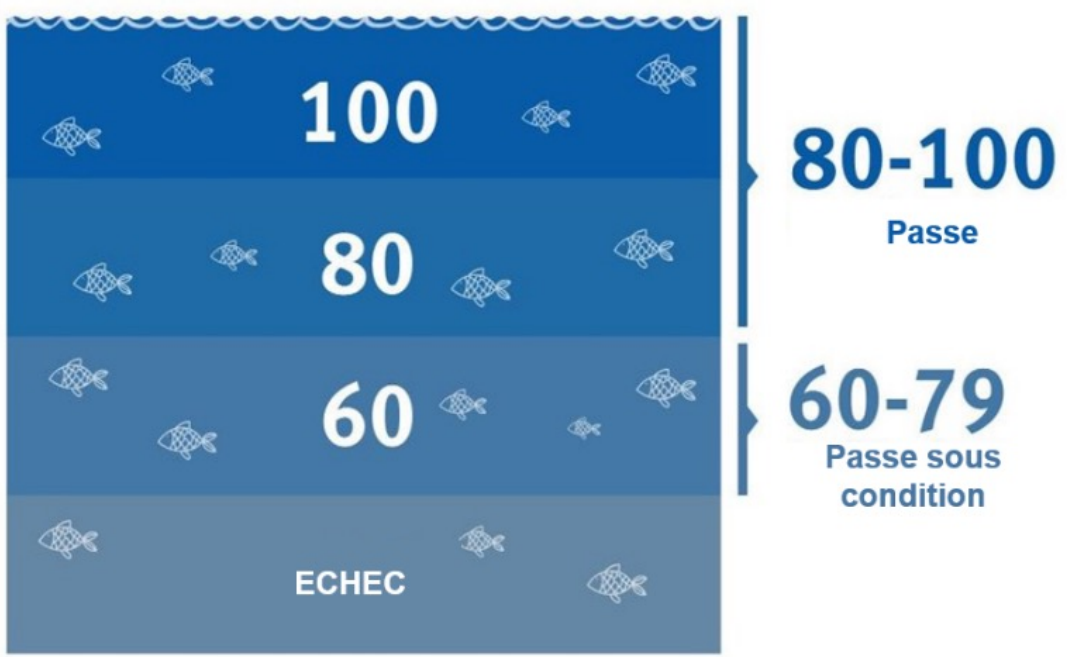
3.2.1 Objectifs spécifiques
3.2.2 Processus de décision
3.2.3 Conformité et contrôle
3.2.4 Efficacité de la gestion

ÊTRE DURABLE …

LA NOTATION DES PÊCHERIES

Pour être certifiée, une pêcherie doit :

- Avoir un score supérieur à 60 sur chaque indicateur de performance
- Atteindre la moyenne de 80 par principe



CONTINUER À PROGRESSER

C’EST QUOI UNE CONDITION ?

Pour un score entre 60 et 80 sur un indicateur de performance

Un score de 80 minimum, à atteindre sous 5 ans maximum, avec des jalons fixés par les évaluateurs indépendants

Un plan d’action, avec des actions précises et un calendrier validé par les évaluateurs et leur organisme d’accréditation (ASI)

Des audits de surveillance annuels, avec un suivi des progrès réalisés. Si la pêcherie est en retard deux années consécutives ou si elle ne ferme pas la condition avant la date limite, elle est suspendue.

Marine Stewardship Council



LES PÊCHERIES DE THONS

PROGRÈS RÉALISÉS

204 AMÉLIORATIONS
ces trois dernières années

93 Améliorations pour réduire les impacts sur les espèces accessoires et sensibles

39 Améliorations pour réduire les impacts sur les habitats marins

72 Améliorations concernant l'état des stocks et les stratégies de gestion des espèces cibles

44 Améliorations concernant la gestion des pêches et la gouvernance des pêcheries



LES PÊCHERIES DE THONS

LES PROGRÈS EN COURS

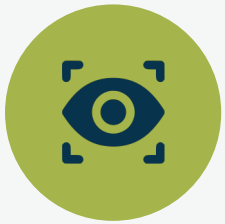
Gestion des captures



SUIVRE LA SCIENCE

Avis scientifique
= décisions de gestion

Suivi des impacts



TOUT ÉVALUER

Collecter des données
suffisantes et de qualité

Réduction des impacts



GÉRER DE A À Z

Fin de vie des engins et
dispositifs de pêche

Système de gestion



ÊTRE PRÊTS À S'ADAPTER

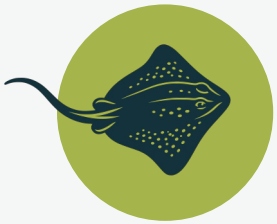
Objectifs à long terme
fondés sur l'avis scientifique

Marine Stewardship Council

CONTINUER DE PROGRESSER

AVEC UN PROGRAMME QUI ACCOMPAGNE LE CHANGEMENT

PROJET RAYVIVAL



MARQUAGES DE RAIES EN MÉDITERRANÉE

2021 - 2023

SATHOAN et Ifremer

PROJET SAVE TURTLE RUN

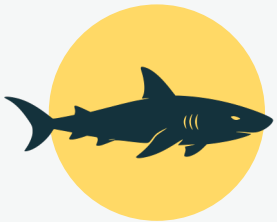


PROTECTION DES TORTUES À LA RÉUNION

2023 - 2025

ARIPA, Kelonia, CITEB

PROJET SID20



DONNÉES FIABLES SUR LES INTERACTIONS

2025 - 2026

ORTHONGEL et adherents
BV Living Resources

OCEAN STEWARDSHIP FUND CRÉÉ EN 2019

7,7 millions d'euros

34 pays

144 projets financés

En 2025, **1,89 millions d'euros** pour soutenir **85 projets** dans le monde

Marine Stewardship Council

aripa
association réunionnaise interprofessionnelle de la pêche et de l'aquaculture

4. Condition 7 – Réponse de la pêcherie

Minimiser la mortalité des espèces ETP (tortues marines en priorité)



Mesures opérationnelles

- Pose de nuit
- Dispositifs d'effarouchement
- Bonnes pratiques de manipulation
- Remise à l'eau rapide

Formation des pêcheurs

- Identification des espèces
- Manipulation sécurisée
- Kits de manipulation à bord
- Protocoles de remise à l'eau

Collaboration scientifique

- Centre Kelonia
- Collecte de données terrain
- Analyse saisonnalité & zones
- Suivi de survie post-capture

5. Projet phare :Save Turtle RUN

Projet financé par le MSC Ocean Stewardship Fund / Science & Research Fund (2023)

Montant : ~57 800 € | Porteur : ARIPA | Objectif : former les pêcheurs et améliorer les données pour clôturer les conditions liées aux captures accidentelles

Résultats & impacts concrets

>400	80%	Caouanne
tortues sauvées (collaboration historique)	taux de survie estimé au centre Kelonia	espèce principale concernée (VU – UICN)

PROPOSER DES OUTILS D'AMÉLIORATION

POUR LES PÊCHERIES EN ROUTE VERS LA DURABILITÉ

Le MSC Improvement Program | Marine Stewardship Council

Des critères d'entrée



ÊTRE ÉLIGIBLE

Être dans le champ du programme de certification MSC

Une base de travail



PRÉ-ÉVALUATION

Être dans le champ du programme de certification MSC

Un engagement concret



PLAN D'ACTION

Avoir un plan d'amélioration crédible

Un engagement clair



5 ANS MAXIMUM

Engagement pour une évaluation MSC complète sous 5 ans

Marine Stewardship Council

PROPOSER DES OUTILS D'AMÉLIORATION

ET CRÉER DE NOUVELLES OPPORTUNITÉS AVEC LA FILIÈRE



Pêcheries du MSC Improvement Program soumises à une évaluation optionnelle indépendante une fois un niveau minimum de performance écologique atteint



Obligation de séparer les prises associées au MSC Improvement Program du reste des prises dans la chaîne d'approvisionnement



Accès aux chaînes d'approvisionnement certifiées MSC



Déclaration d'appartenance au MSC Improvement Programme au dos de l'emballage

Source: Fishery certification guide | Marine Stewardship Council (msc.org)

Marine Stewardship Council

UN PROGRAMME

EXIGEANT ET QUI LE RESTE

AMÉLIORATION CONTINUE

du programme MSC en conformité avec l'ISEAL

EXIGENCES EN MATIÈRE DE PREUVES

pour des données et des informations de qualité

CLASSIFICATION DES ESPÈCES

pour une protection renforcée

SECTION SE

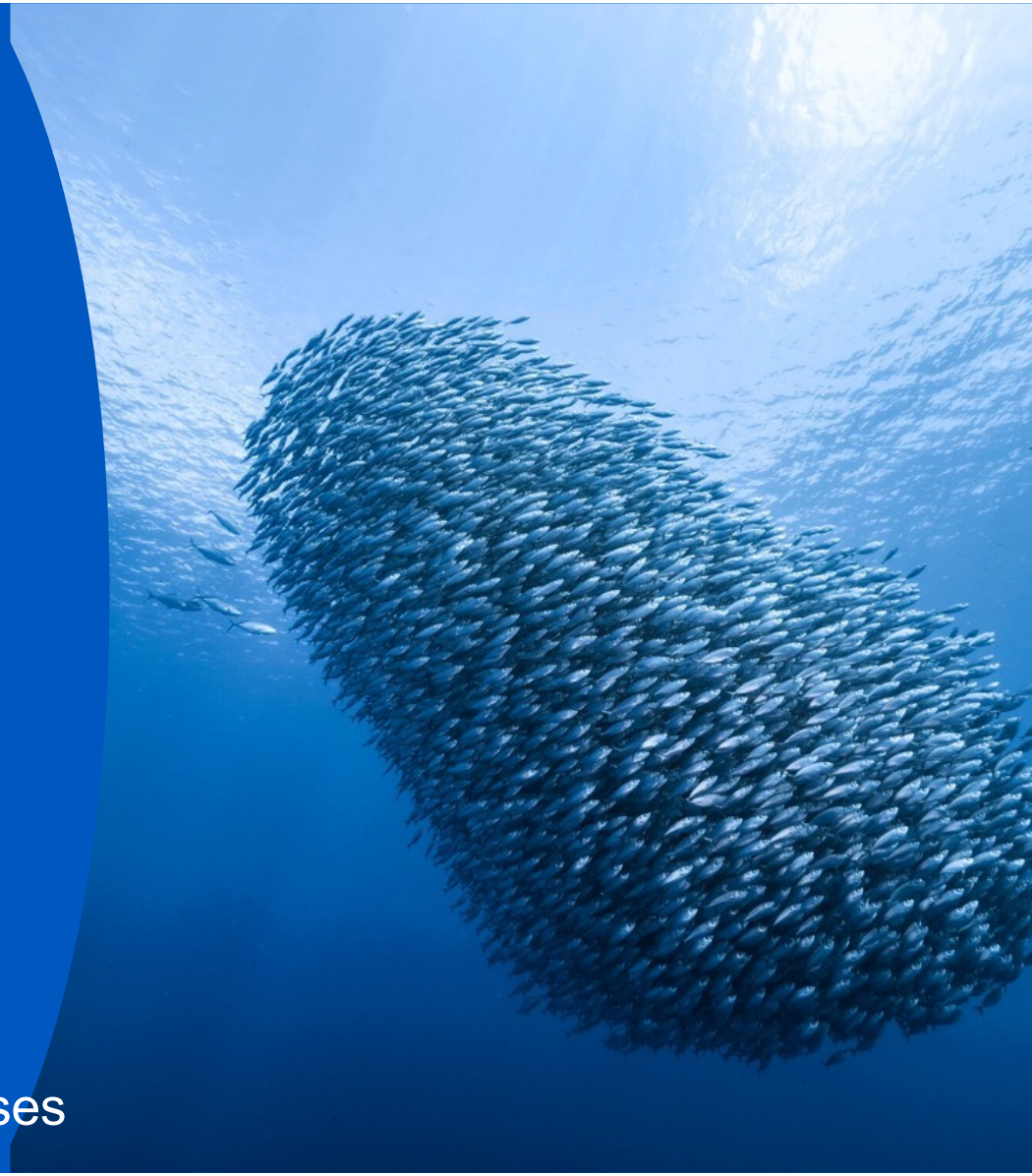
pour des stratégies de gestion qui voient loin

Marine Stewardship Council



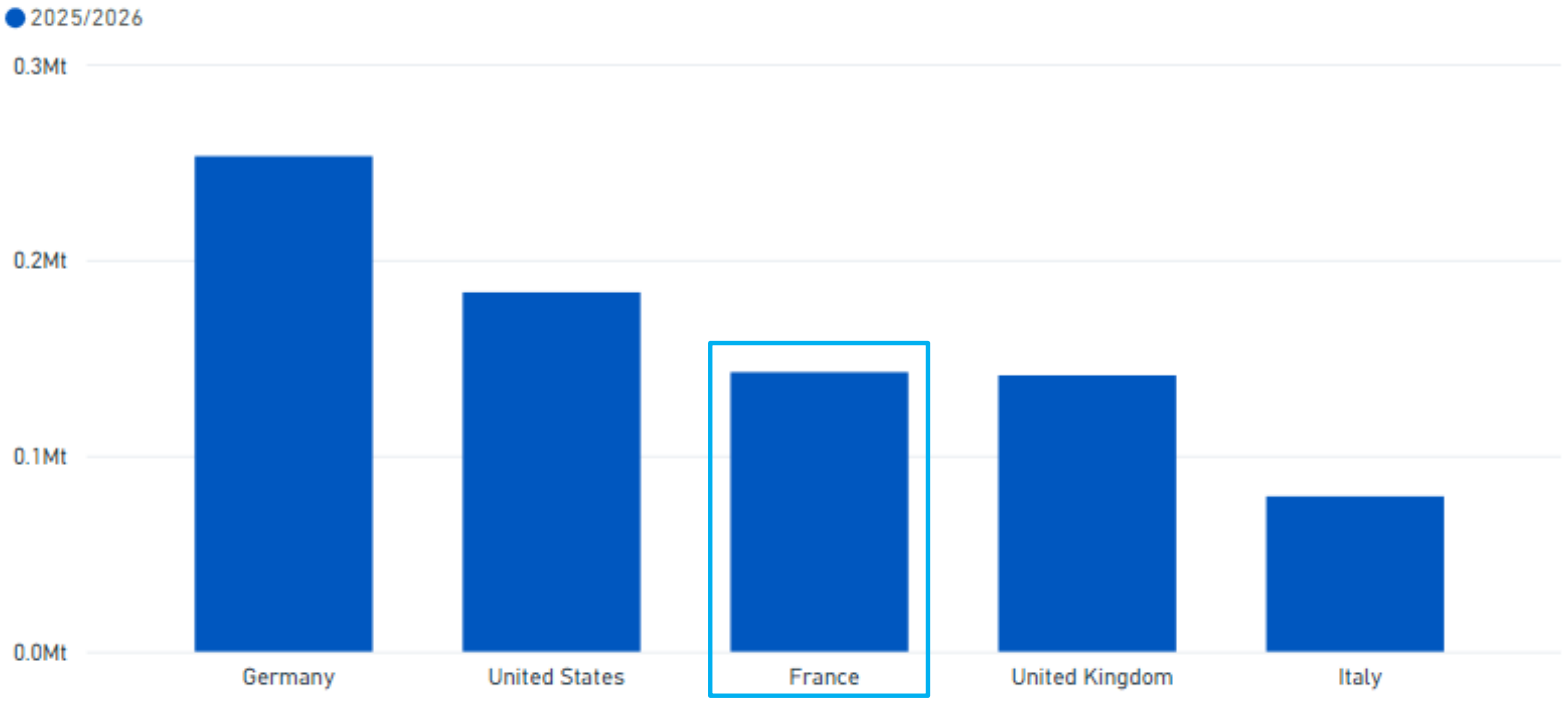
Marine Stewardship Council

Le marché du thon MSC en France



Amélie Martinez –
Responsable du Pôle Partenariats Entreprises

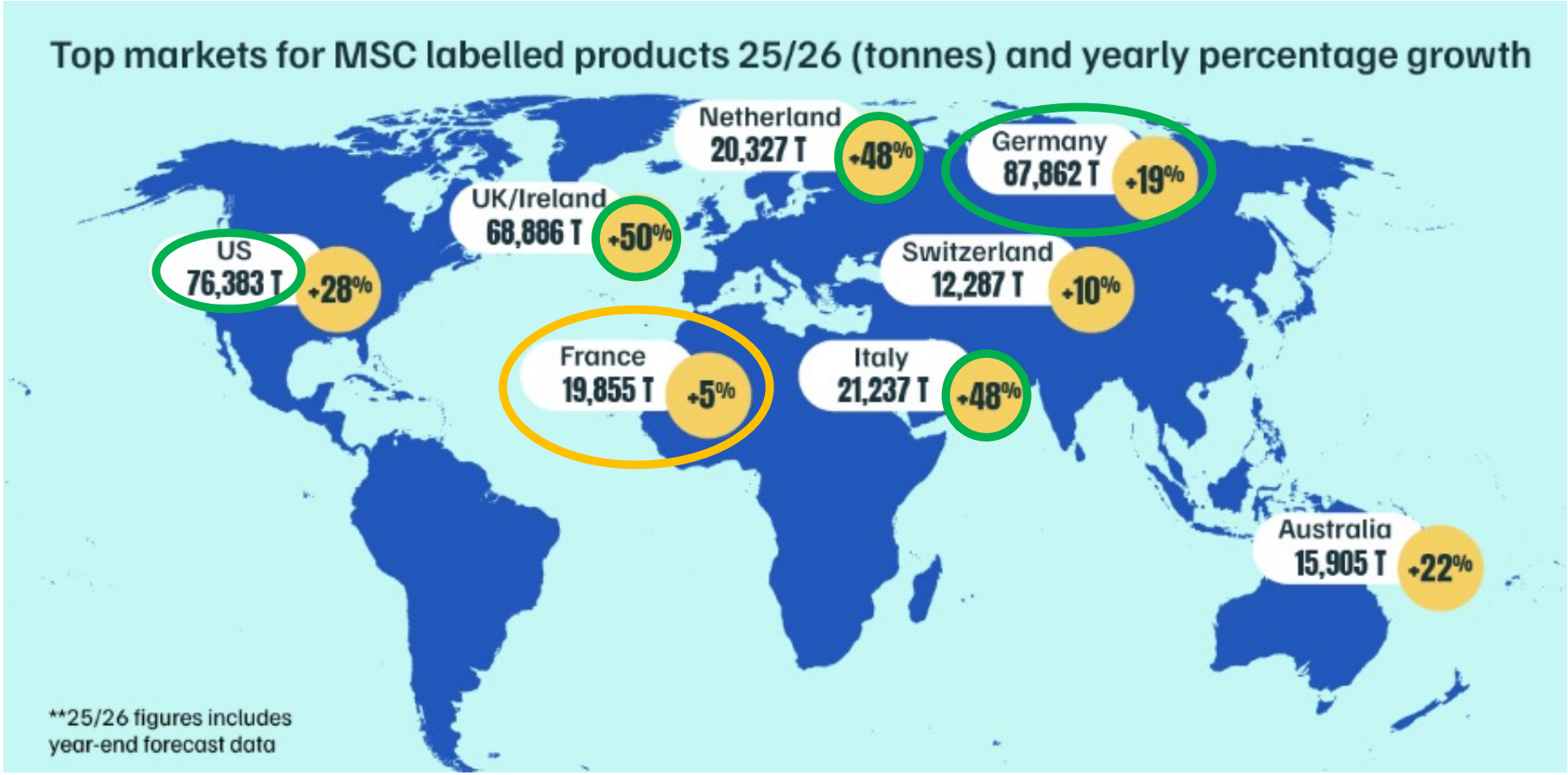
Données marché toute espèce MSC - Top 5



Marine Stewardship Council

Source : données partenaires 2025/2026 - extraction octobre 2026

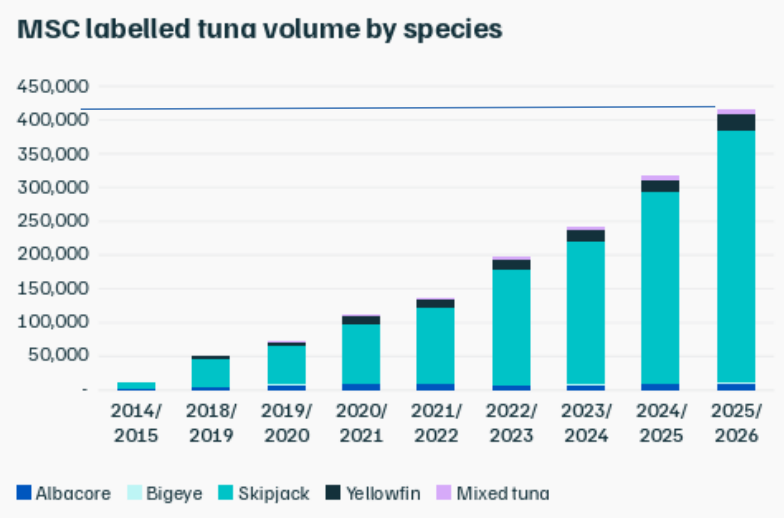
Données marché thon MSC - monde

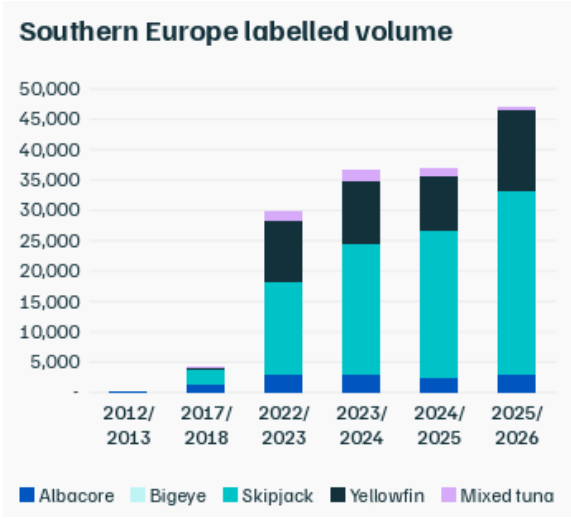


Marine Stewardship Council

Source : Newsletter thon MSC "Sustainable Tuna Updates" - juin 2026

Données marché thon MSC - monde





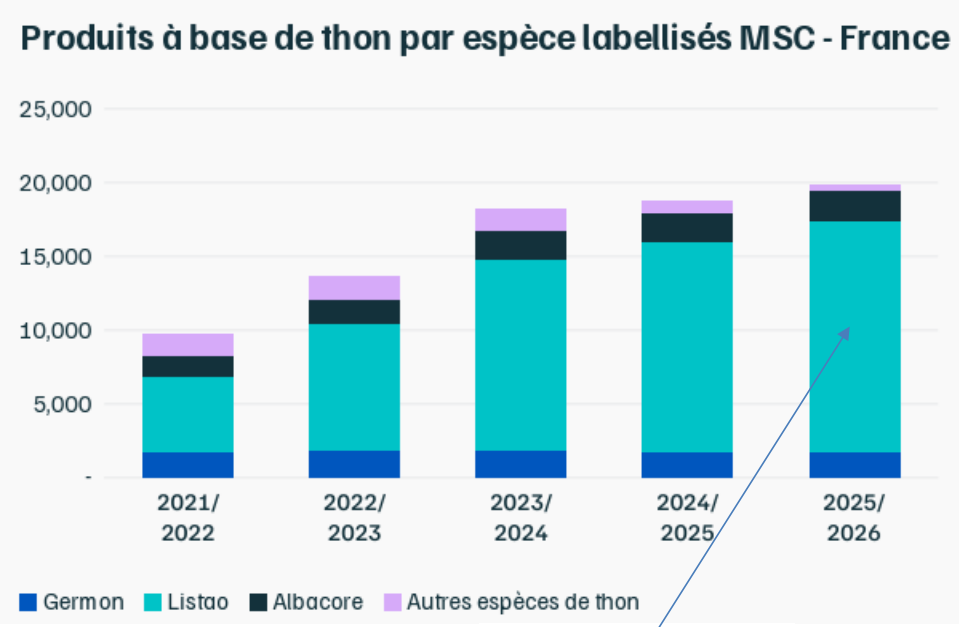


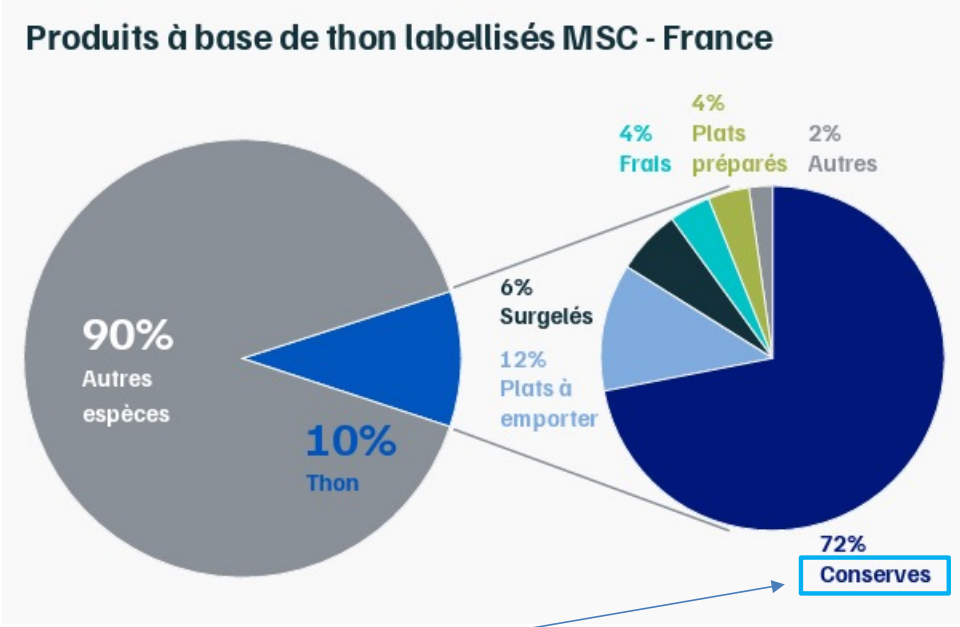


Marine Stewardship Council

Source : guide du thon durable MSC édition 2026

Consommation du thon MSC en France







Marine Stewardship Council

Source : guide du thon durable MSC édition 2026

Partenaires engagés en France - thon MSC



Produits de thon MSC en grande distribution





















GROUPE Casino

Marine Stewardship Council

Intermarché

MONOPRIX

Innovation : les derniers produits de thon MSC en France

POKAWA









Janvier 2026

POKAWA OBTIENT LES CERTIFICATIONS ASC ET MSC

Et renforce son engagement pour une pêche durable.

EN S





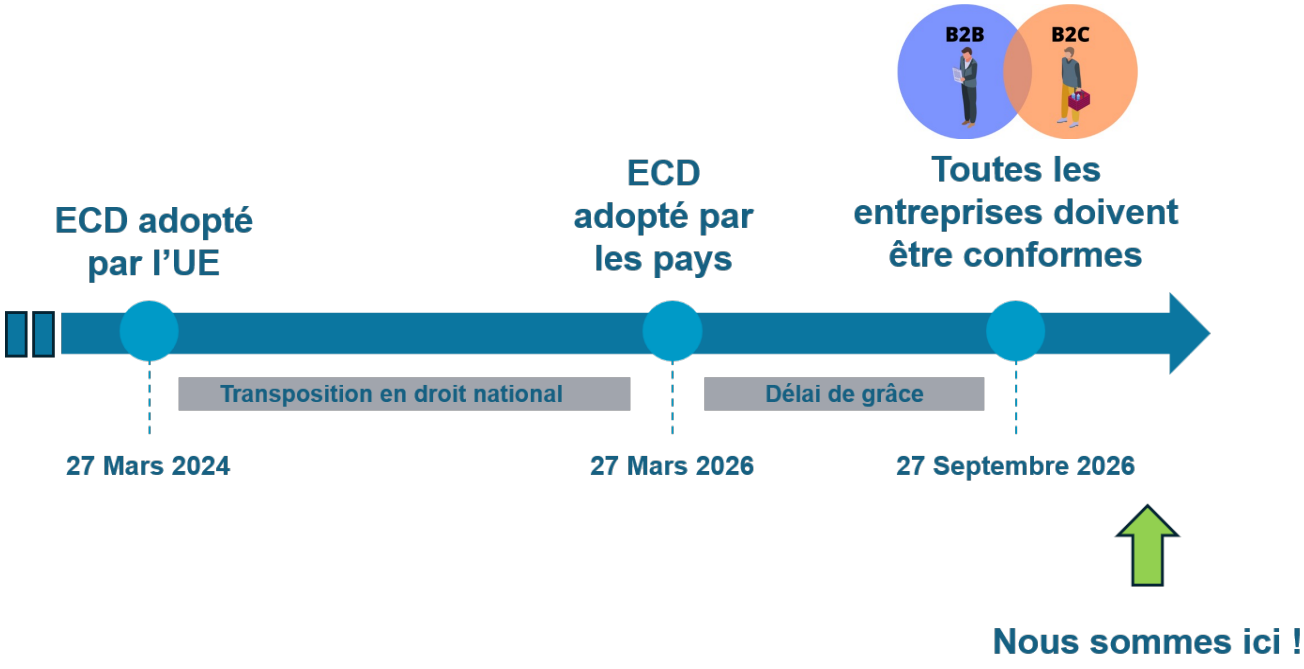






Label MSC et directive EmpCo

EU Empowering Consumers Directive



Marine Stewardship Council

Label MSC et directive EmpCo

Le label MSC répond aux critères imposés par la directive européenne

PÊCHE DURABLE MSC
www.msc.org/fr

https://www.msc.org/fr/nos-actions/que-signifie-le-label-msc

CE QUE COUVRE (ET NE COUVRE PAS) LE LABEL MSC

Le label MSC se concentre sur les impacts environnementaux de la pêche, tels que le maintien de stocks halieutiques productifs, d'écosystèmes sains et d'une bonne gestion des pêcheries. Il ne certifie pas les conditions sociales ou économiques et ne couvre pas des aspects tels que l'emballage ou l'empreinte carbone du produit final.

Impact environnemental

Impact social
Impact économique

msc.org/fr

Marine Stewardship Council

Marine Stewardship Council

The MSC Blue Label: Making Claims with Confidence

Guidance for brand and retail partners on communicating credibly about MSC certified sustainable seafood, including recent developments in green claims legislation.

Introduction

The MSC blue label is one of the most trusted sustainability certifications in the world. When your product carries it, you have a powerful, credible story to tell — and this guide is here to help you tell it with confidence.

Across the globe, rules about how companies communicate on sustainability are evolving rapidly. New legislation in the EU, Australia, Canada, and elsewhere is designed to crack down on greenwashing and give consumers the reliable information they deserve. This may sound daunting, but the good news is straightforward: if your seafood product carries the MSC blue label, the hard work of substantiation has already been done.

MSC certification is grounded in science, independently audited, and publicly transparent. It was built precisely to withstand the scrutiny that new regulations demand. Communicating around it — on pack, off pack, in-store, and online — is something your brand and category teams can approach with clarity and confidence.

How to use this guide

Designed for brand managers, product category managers, and marketing teams at retailers and seafood brands, this guide covers:

1. Developments in Green Claims Legislation
2. How MSC Certification Addresses Legislation
3. How to draft good claims
4. Guidance for Using the MSC Label and Claims
5. Example Messaging
6. Do's and don'ts at a glance
7. A word on speaking up
8. Further references and contacts

⚠ Legal Responsibility

While MSC provides this guidance to support you, the legal responsibility for ensuring the accuracy and compliance of all claims rests with your organisation. This guide does not constitute legal advice. MSC strongly recommends seeking independent legal or regulatory advice where you are uncertain about specific claims or markets.

6. Do's and don'ts at a glance

✓ Do	✕ Don't
Use the current MSC-approved ecolabel on certified products	Use outdated versions of the MSC label or claims text
Use the latest MSC back-of-pack claim text for your market	Use the term 'sustainable' outside of the ecolabel without the highest level of qualification
Describe MSC certification as part of your sustainability program	Imply that MSC certification covers all aspects of a product's sustainability
Be specific: "environmentally certified fishing practices"	Use the word 'guarantee' in relation to certification
Reference msc.org so consumers can verify the claim	Apply the MSC label or claims to products not covered by your licence
Use the ecolabel for products that are certified	Imply your whole range is certified if only some products are



Label MSC et directive EmpCo – en résumé



- Programme de **certification indépendant et tierce partie**
- Répond aux **exigences spécifiques de la directive** « Empowering Consumers »
- Les phrases d'accompagnement **(MSC claims) ont été actualisées.**
- Une **équipe d'experts MSC** basée à Bruxelles reste à l'affût des **évolutions politiques.**
- Nos **outils et ressources** sont disponibles.

amelie.martinez@msc.org

Marine Stewardship Council

GSSI GLOBAL SUSTAINABLE SEAFOOD INITIATIVE

FAO FIAT PANIS

iseal CODE COMPLIANT

ISO

SUSTAINABLE DEVELOPMENT GOALS 14 LIFE BELOW WATER

Outils et ressources

TUNA YEARBOOK 2026

Market data, innovations and insights from communities protecting our ocean

SUSTAINABLE TUNA UPDATES

FOCUS SUR LE MARCHÉ DU THON EN FRANCE - 2026

Online Chain of Custody training

Register for free online training modules to get better insight into the Standard and the auditing process.

GET TRAINING



MSC Tuna Fisheries Master Table - July 2026

Date of issue: 08 July 2026

DOWNLOAD XLSX - 1 MB



Find a supplier

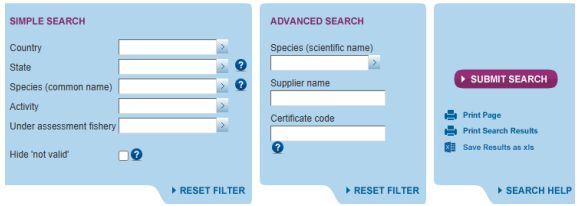
Find businesses around the world with MSC chain of custody certificates that can supply you with the certified sustainable seafood that you need.

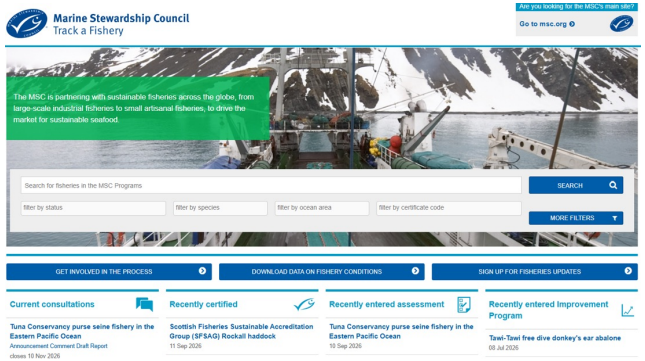
Species name differences

Please note, species may be identified with different names to the ones used by the MSC and found on Find a Supplier.
The MSC endeavours to align the names used to identify species with the FAO ASFIS list where possible. The MSC acknowledges that there are many other species names used globally, including species names defined within national legislation. Common names are most likely to differ by region – it's recommended to use the scientific name or contact the certificate holder directly if required.

Any questions?

For further information about the MSC and certified sustainable seafood please contact your nearest MSC Commercial Team.





Merci à tous de votre attention !



Alexandra Maufroy
Responsable du Pôle Pêcheries
alexandra.maufroy@msc.org

Amélie Martinez
Responsable du Pôle Partenariats
amelie.martinez@msc.org



Leveraging vessel-level data to advance sustainability: The value of ISSF tools.

Sustainable Fisheries
PARTNERSHIP

Cody Pajunen
Fisheries Policy and Information Analyst
Protecting Ocean Wildlife
cody.pajunen@sustainablefish.org

David Parreño
Partnerships & Markets Engagement
(Europe, Middle East & Latin America)
David.Parreño@sustainablefish.org

Who Are SFP?

NGO, Founded in 2006, exclusively remote organization with more than 60 expert and specialist staff based all around the world.







Scientists, marine biologists, policy and markets experts, analysts and data specialists, and professionals in communications, fundraising, systems, and operations



Our strategy for change

Instead of abandoning problem fisheries, we should support them to improve their practices.

We engage stakeholders throughout the supply chain, from artisanal fishers to large-scale retailers, to foster the sustainability and resilience of the entire global seafood system,
through continuous, dynamic change.

Sustainable Fisheries™
PARTNERSHIP

SFP Advisory Services

SFP tools are available to EVERYONE as a trusted source for companies looking to support sustainable fisheries.

We can help you:

- Understand the sustainability of your sources
- Identify needed improvements
- Monitor and report progress
- Engage stakeholders
- Showcase impact

Sustainable Fisheries™
PARTNERSHIP

Sustainable Fisheries™ PARTNERSHIP

SFP Partners

30+ corporate partners in 15+ countries.



Sustainable Fisheries PARTNERSHIP

Tools & Services

(available to everyone)

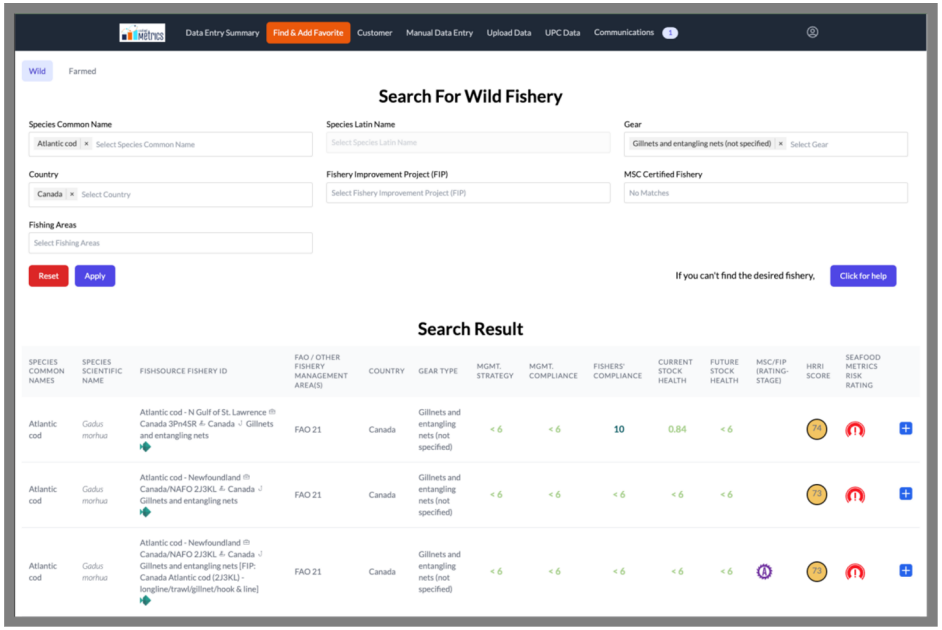
FISHSOURCE

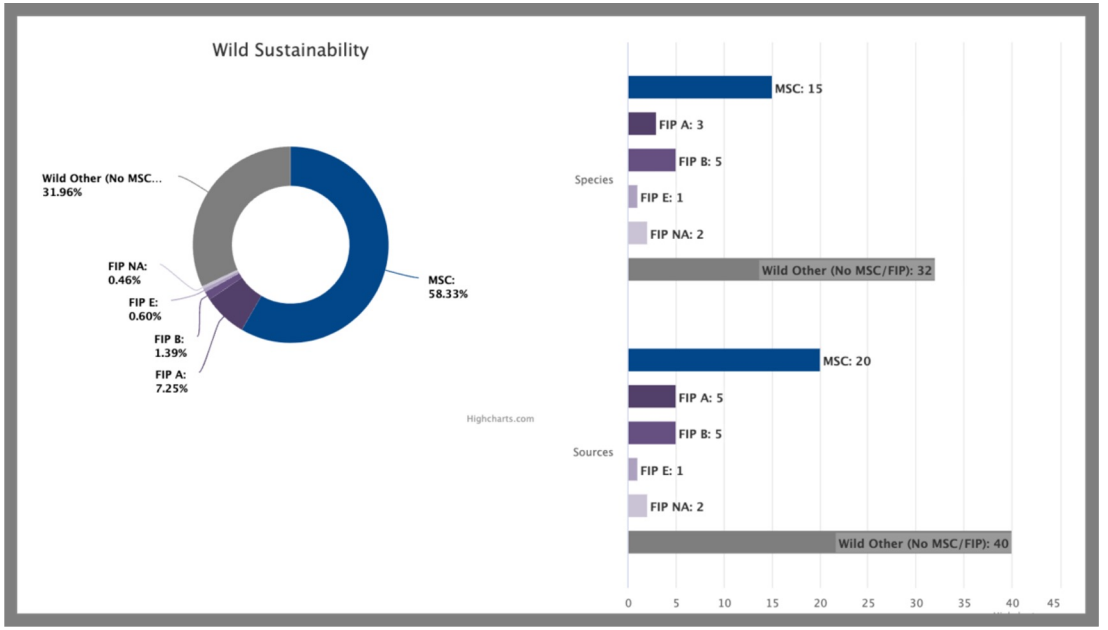
seafood Metrics

Ocean Disclosure Project

seafood metrics

A data-driven tool that helps you fully understand the level of sustainability risk in your source fisheries.





Ocean Disclosure Project

Want to show your commitment to sustainable seafood?

Public - The ODP allows your business to disclose key information about your seafood sourcing practices.

https://oceandisclosureproject.org/

Utilizing ISSF Data

No need to recreate the wheel!
SFP is incorporating ISSF data into our platforms:

ISSF already provides valuable transparency & accountability tools at the supplier and vessel-level through the ISSF VOSI, a public, audited platform.

- Advances SFP's focus on:
  - Increasing transparency
    - ***Down to the vessel level***
  - Reducing bycatch
- Aligns perfectly with market needs for
  - Setting **strategic tuna sourcing objectives**
  - Credibly verifying implementation at the **vessel-level**
  - Pursuing and **measuring continuous improvement** within fisheries and fleets
  - Support fisheries to meet and maintain MSC certification criteria



SFP Tuna Dashboard: The Value of Vessel-Level Insights

- **Centralized insights** for simplified monitoring
- **Increased risk management** across regions, fisheries, and individual vessels
- **Enhanced due diligence** capacity
- **Commitment** monitoring + progress
- **Concrete improvement** opportunities to help drive unique business objectives



ISSF PVR & VOSI Data in Action: SFP Tuna Dashboard

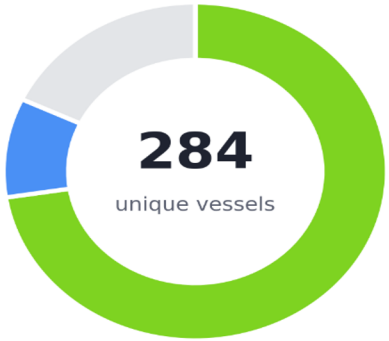
SFP Tuna Sustainability Dashboard

Fisheries Level | Vessel Level (ISSF) | **Supplier Vessel**

Supplier Vessel tab · supplier vessel lists benchmarked against ISSF indicators · purse seine & longline only · Jun 2025 – Sep 2026

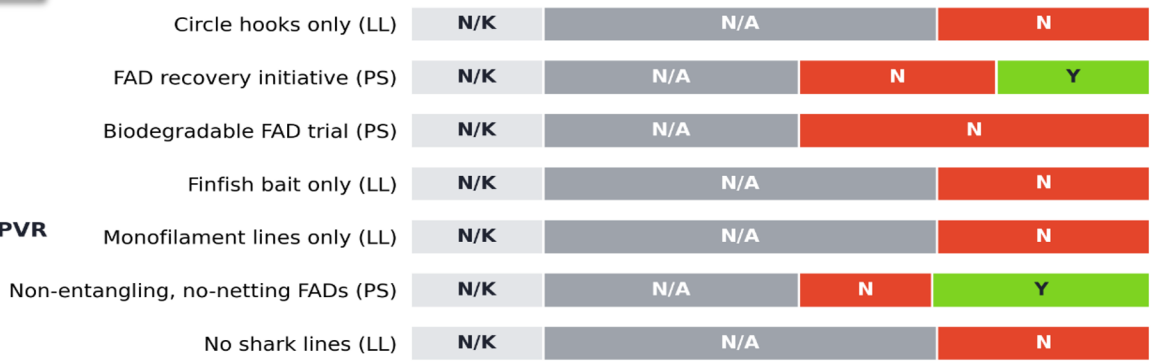
Supplier Unique Vessels (VOSI & PVR)

Last updated September 2026



- **On VOSI & PVR** — 206 vessels · 72.5%
- **On VOSI, not on PVR** — 27 vessels · 9.5%
- **Not on VOSI** — 51 vessels · 18.0%

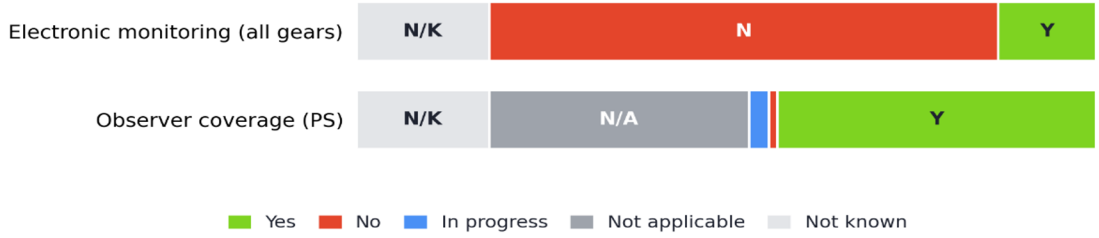
Bycatch Mitigation (ISSF)



Supplier Uploaded Unique Vessels

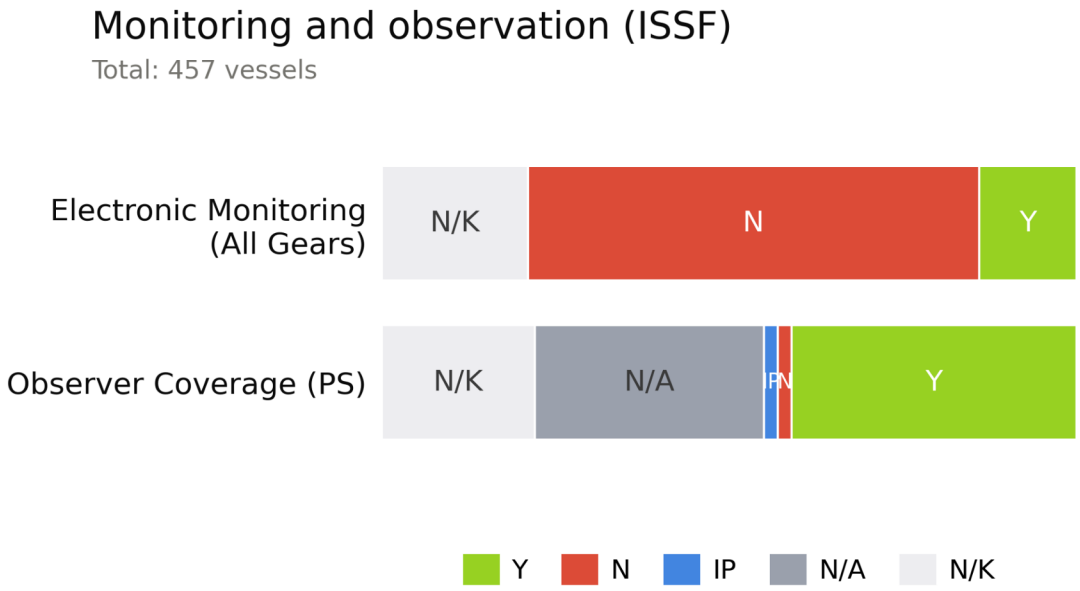
Supplier	Total uploaded	On VOSI & PVR	On VOSI, not PVR	Not on VOSI	% tuna sourcing
Supplier Demo 1	233	206	27	0	13.0%

Monitoring & Observation (ISSF)



Example 1: Monitoring Commitments

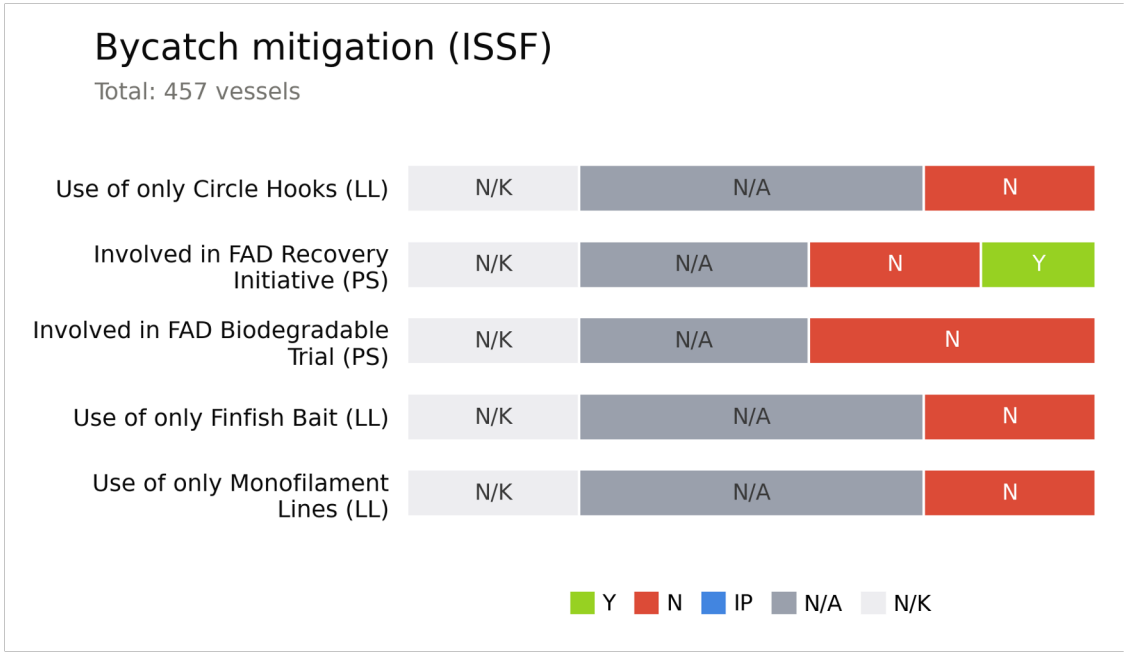
- TNC's Tuna Transparency Pledge
- ISSF VOSI + PVR
- Major retailers + suppliers
- Phase 1: vessel transparency
  - 1500+ vessels submitted
- Phase 2: verifying observer coverage



All data shown is from an SFP Seafood Metrics demo account, no proprietary data is reflected

Example 2: Pursuing Continuous Improvement

- Bycatch mitigation within source fleets
- ISSF data helps visualize transparency and bycatch reduction by vessel
- Linked to concrete improvement opportunities in **SFP's Bycatch Solutions Hub**



All data shown is from an SFP Seafood Metrics demo account, no proprietary data is reflected

BYCATCH SOLUTIONS HUB™

FOUNDING SPONSOR

PURINA®

Launched in 2023, the Hub is curated **for the seafood industry**, and meant to bridge the gap between the industry and efforts to reduce bycatch by gear manufacturers, NGOs, etc., while also providing a **tangible means** to support for projects working to implement bycatch solutions.

28
projects

27
partners

1.2+ million USD
in funding generated



BioFAD model under construction at a workshop in Spain to improve FADs to reduce bycatch, hosted by ISSF and partially funded through the Hub.

Questions or want to request a demo?

Cody Pajunen
Fisheries Policy and Information Analyst
Protecting Ocean Wildlife
cody.pajunen@sustainablefish.org

David Parreño
Partnerships & Markets Engagement
(Europe, Middle East & Latin America)
David.Parreño@sustainablefish.org



Activating Market Influence & Creating Strategic Value:

ISSF Initiatives & Tools

9 October 2026

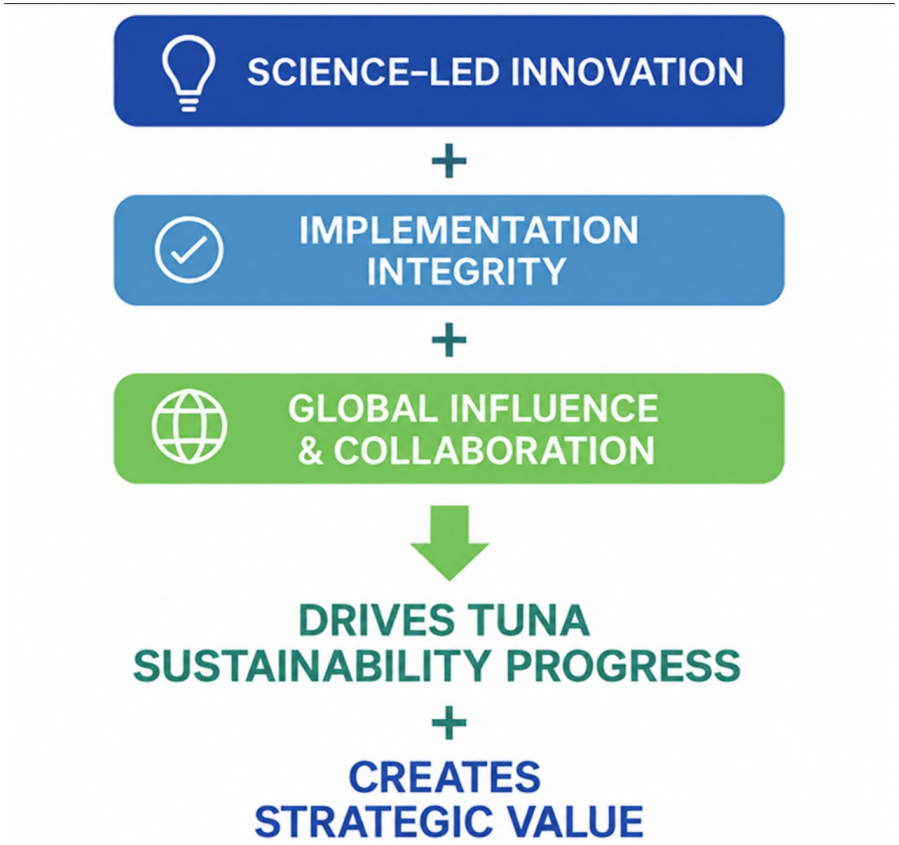
Michael Cohen
ISSF Market Outreach Associate

ISSF INTERNATIONAL SEAFOOD SUSTAINABILITY FOUNDATION

ISSF Portfolio of Initiatives & Tools

ISSF INTERNATIONAL SEAFOOD SUSTAINABILITY FOUNDATION

AN OVERVIEW



- Status of the Stocks
- ISSF RFMO Advocacy Program
- ISSF Transparency & Accountability Tools
  - ISSF Conservation Measures
  - ISSF PVR (ProActive Vessel Register)
  - ISSF VOSI (Vessels in Other Sustainability Initiatives)
- ISSF MSC & FIP Advisory Engagement

ISSF Portfolio of Initiatives & Tools

ISSF INTERNATIONAL SEAFOOD SUSTAINABILITY FOUNDATION

DRIVING TUNA SUSTAINABILITY PROGRESS & CREATING STRATEGIC VALUE

DRIVE SUSTAINABILITY PROGRESS

- Strengthen science-based tuna fisheries management
- Advance solutions for stock health, bycatch, FADs, IUU fishing and monitoring through innovation and collaboration
- Foster supply-chain transparency and accountability
- Support tuna fisheries pursuing and maintaining MSC certification



CREATE STRATEGIC VALUE

- Foster improved stock health and growing availability of MSC-certified tuna fisheries.
- Strengthen supply-chain transparency and accountability, mitigating risk.
- Provide harmonized, verified data to monitor progress against policy commitments and supply chain requirements.
- Support due diligence reporting objectives. Build trust
- Help streamline sustainability programs and operating complexity



ISSF Portfolio of Initiatives & Tools

Highlights

ISSF INTERNATIONAL SEAFOOD SUSTAINABILITY FOUNDATION

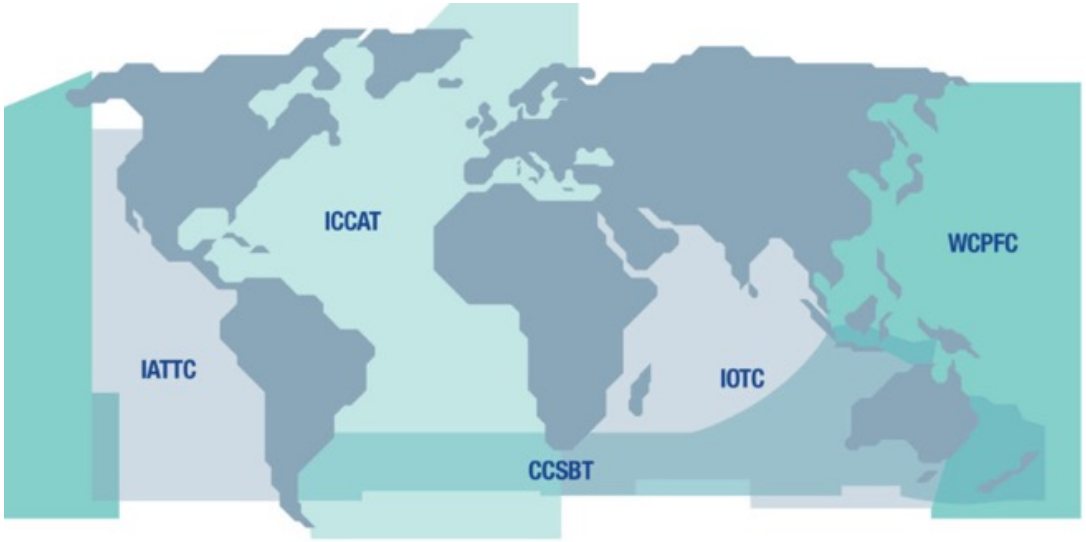
ISSF RFMO Advocacy Program

ISSF INTERNATIONAL SEAFOOD SUSTAINABILITY FOUNDATION

STRENGTHENING RFMO MANAGEMENT

ISSF RFMO Advocacy Priorities

- Robust RFMO member **compliance processes**
- Implementation of rigorous **harvest strategies**
- Science-based **FAD management**
- Adoption of best practice **bycatch mitigation** for sea turtles, seabirds, sharks and rays
- Enhanced **Monitoring, Control and Surveillance (MCS) measures**
- Effective **management of fleet capacity**



ISSF RFMO Advocacy Program

ISSF INTERNATIONAL SEAFOOD SUSTAINABILITY FOUNDATION

A multi-dimensional approach to strengthening RFMO management

1 Set priorities & shape positions

- RFMO priorities & position statements
- Pre- and post-meeting analysis
- Publish RFMO Best Practices Reports

2 Engage decision-makers & partners

- Direct strategic outreach to RFMO member nations
- Participate in annual Commission science and compliance meetings
- Serve as experts on working groups and panels
- Conduct RFMO side events
- Coordinate advocacy efforts with NGOs

3 Equip market & vessel partners

- Support ISSF Participating Companies' advocacy with model letters and talking points
- Provide tools for the vessel community, MSC fisheries and FIPs

Engages RFMO member nations • Coordinates with NGOs, supply chain and fleets

ISSF Transparency & Accountability Tools

Transparency & Accountability is a fundamental element of any credible, transformative sustainability policy and responsible supply chain.

ISSF Transparency & Accountability tools support the Market and its supply chain to advance tuna sustainability and strategic operating priorities.

The system features:

- Clear, public commitments & measures
- Transparent assessment protocols
- Independent verification of best practice implementation
- Regular public reporting of results
- A mechanism to address incomplete conformance

"The call for transparency and accountability applies to every tuna fishery stakeholder, from vessel owners and fisheries managers to processors and retailers"

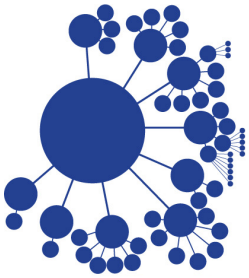
- Susan Jackson
President, ISSF

ISSF Transparency & Accountability Tools

ISSF INTERNATIONAL SEAFOOD SUSTAINABILITY FOUNDATION

Processors

Independent auditing of tuna company compliance with ISSF conservation measures



30+ conservation measures across 9 categories



Individual & public company compliance reports

Tuna Vessels

Independent auditing of vessel compliance with best practices on the

ProActive Vessel Register (PVR)

Vessels in Other Sustainability Initiatives (VOSI)

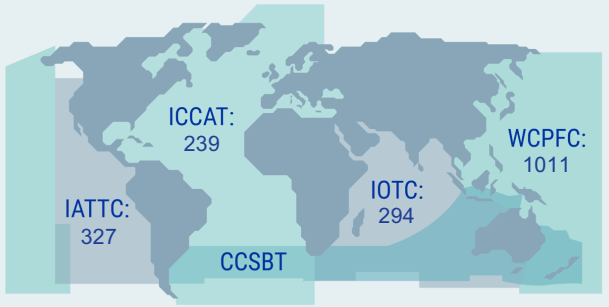


ISSF works with tuna vessels & processors **globally**

1,800+ vessels worldwide

23 participating companies with operations in ~80 countries

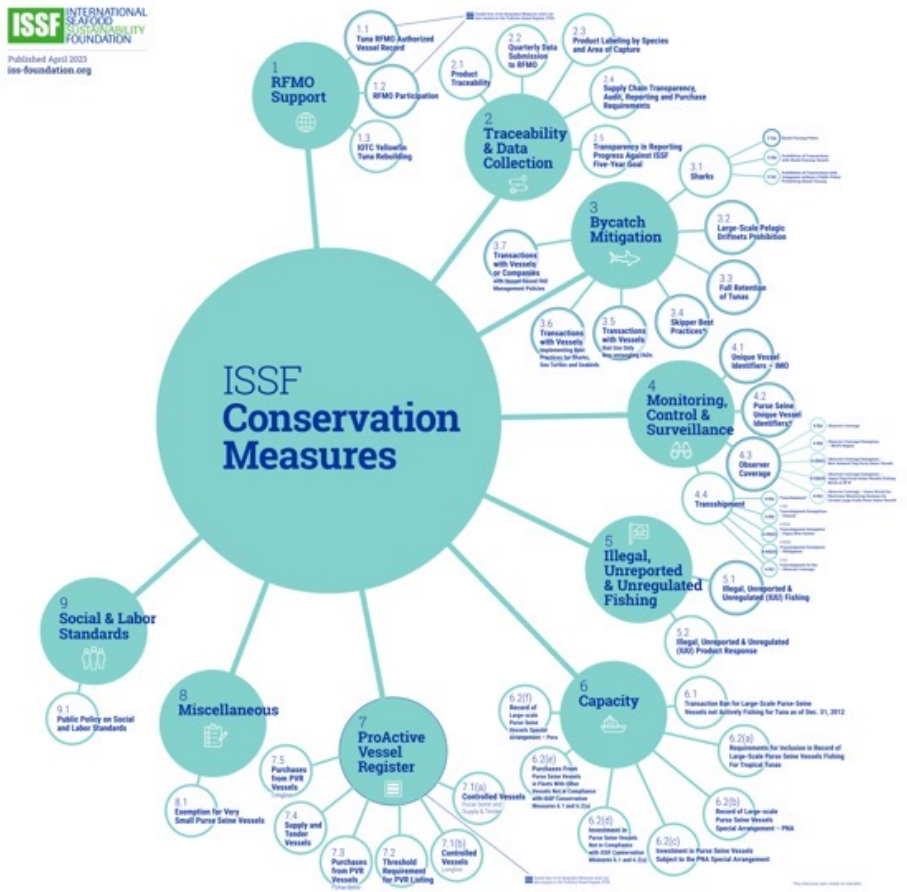
Vessels by RFMO Region



ISSF Conservation Measures

30+ conservation measures across 9 categories

- RFMO Support
- Traceability & Data Collection
- Bycatch Mitigation
- Monitoring, Control & Surveillance
- Fighting IUU
- Capacity Management
- PVR/Vessel Transparency
- Social & Labor Standards
- Misc



ISSF Conservation Measures
iss-foundation.org/vessel-and-company-commitments/conservation-measures-and-auditing/our-conservation-measures/

ISSF's ProActive Vessel Register (PVR)

ISSF INTERNATIONAL SEAFOOD SUSTAINABILITY FOUNDATION

Vessel-Level Transparency

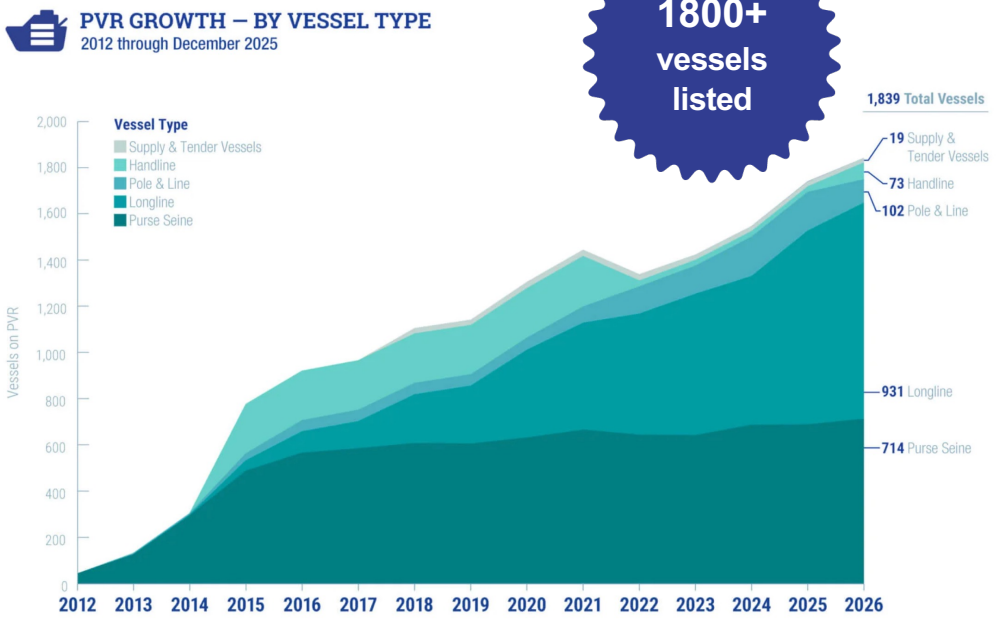
- Publicly accessible. Free to use.
- Any tuna fishing vessel may register. Free.
- Provides tuna purchasers with transparent, independently-audited information about vessel implementation of science-based best practices.

Vessels on the PVR commit to:

- Provide detailed vessel information about progress to implement best practices
- Independent audits by MRAG-Americas; transparently report compliance

ISSF participating companies have listed all controlled vessels and committed to source 100% of their large-scale purse seine purchases from PVR vessels.

1800+ vessels listed

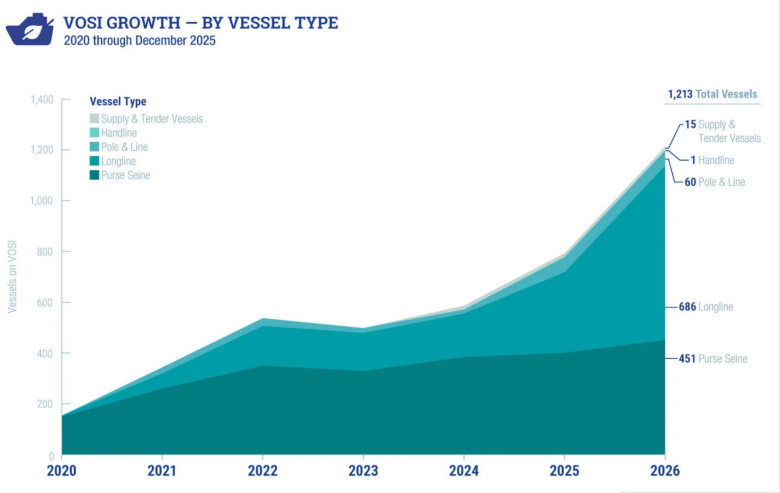


- **More than 70%** of the world's large tuna purse seine vessels
- **Longline +100%** vs 2020. Now 900+

Vessels in Other Sustainability Initiatives (VOSI)

VOSI is a transparency tool for the public that want to understand which tuna vessels have made public commitments to more sustainable fishing beyond the commitments reflected on the PVR.

Learn more: www.iss-foundation.org/vessel-and-company-commitments/other-vessel-lists/vessels-in-other-sustainability-initiatives-vosi/



3,000+ sustainability recognitions in total, covering best practice initiatives

Number of vessels on VOSI by key initiatives, for example:

- MSC-Certified - 889
- FIP - 907
- EM – 110
- Biodegradable FAD Trial - 187
- FAD Recovery Initiative - 140
- Fins Naturally Attached - 12
- Longline Circle Hooks - 8
- Longline Shark Lines Not Used - 13

Independent verification by MRAG Americas

Why Your Vessels Should Be on PVR & VOSI

Know your vessels

- PVR and VOSI empower vessel-level transparency, partnership and management

Track vessel-level compliance with your policy and supply chain requirements

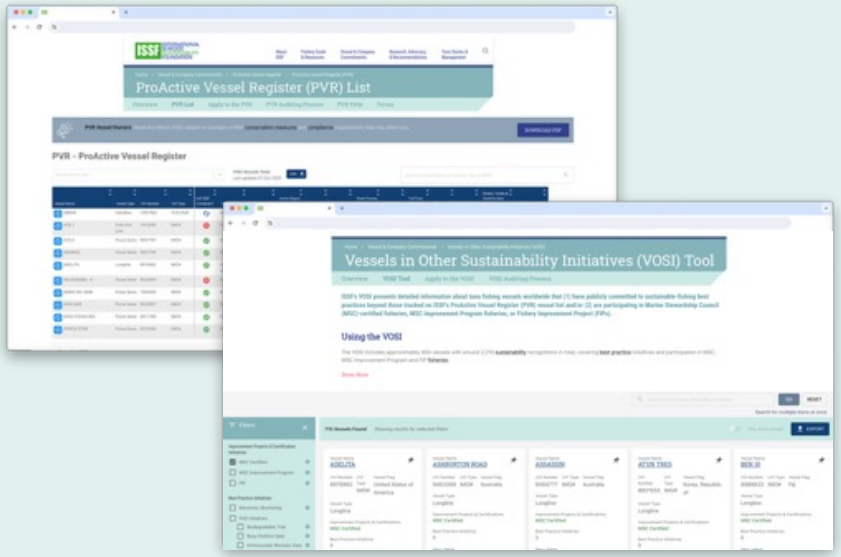
- PVR and VOSI vessels are audited for commitments re: IUU prevention, Bycatch mitigation, observer coverage, FAD Management, FNA

Lead Progress

- These tools address growing demand for vessel-level transparency about operating practices.
- VOSI helps fulfill global pledges like 100% on-the-water monitoring and other progressive practices like:
  - Biodegradable FADs
  - FAD retrieval
  - Longline ETP Bycatch Mitigation

Get Started Today:

- Apply to the PVR
- Apply to the VOSI



ISSF Participating Company & PVR Vessel Compliance

ISSF INTERNATIONAL SEAFOOD SUSTAINABILITY FOUNDATION

AT-A-GLANCE

ISSF annual compliance report documents performance of:

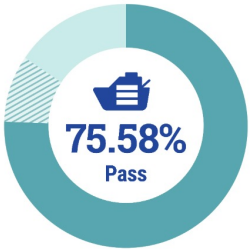
- **Participating seafood companies,** each independently audited by MRAG Americas against **32 ISSF conservation measures**
- **1800+ Vessels** listed on PVR against relevant ISSF conservation measures



98.83% overall company conformance rate across all 24 audited companies



17 of 24 companies fully compliant on all ISSF conservation measures



75.58% overall vessel pass rate across all audited vessels on ISSF's ProActive Vessel Register



100% public disclosure of third-party audit findings

ISSF 2026 Annual Compliance Report

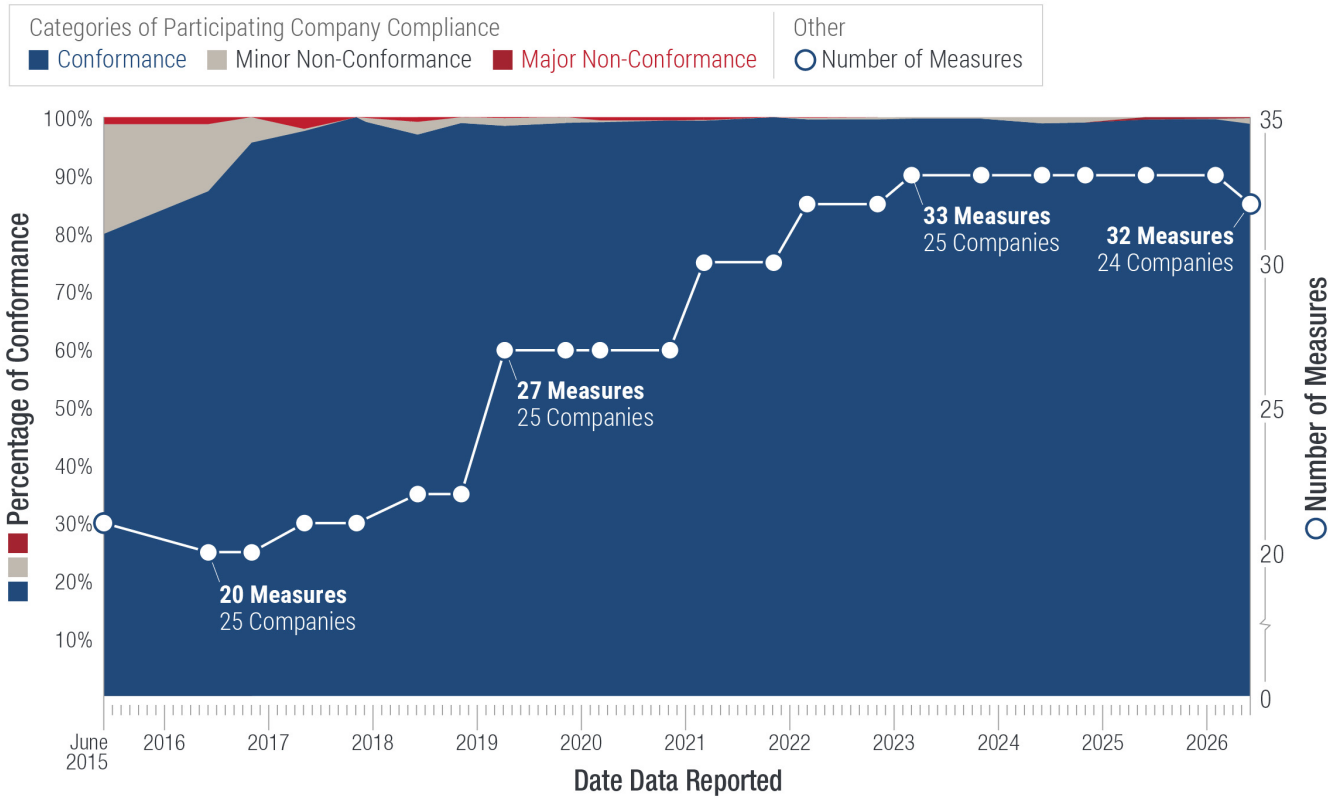
ISSF INTERNATIONAL SEAFOOD SUSTAINABILITY FOUNDATION

CHANGE OVER TIME — JUNE 2026

Ambitious Commitment + Implementation Integrity = Sustainability Impact

98.83% Compliance

All Companies



ISSF Participating Companies

VALUABLE SUPPLY CHAIN PARTNERS

ISSF Participating Companies make an essential contribution to Progress

- **Fund solutions-focused science**

  Supporting research, on-the-water trials and innovations such as electronic monitoring, biodegradable FADs and best-practice training for skippers

- **Implement science-based, best practices**

  Traceability, Bycatch reduction, Vessel tracking, IUU fishing prevention, Observer coverage and more

- **Ensure independent verification**

  Undergo third-party audits with results published transparently to provide stakeholders with credible data on company performance

- **Foster vessel-level transparency and continual improvement**

  Supporting platforms like the ProActive Vessel Register (PVR) and Vessels in Other Sustainability Initiatives (VOSI) which track vessel–level progress to implement best practices.

- **Advocate for stronger global tuna fisheries management by RFMOs**

The ISSF Approach



Closing Comments

9 October 2026

Susan Jackson
President

ISSF INTERNATIONAL SEAFOOD SUSTAINABILITY FOUNDATION

ISSF INTERNATIONAL SEAFOOD SUSTAINABILITY FOUNDATION

Thank You!

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