

# "The oceans are doomed"—can they be saved by closing the high seas to fishing?







# Areas Beyond National Jurisdiction (ABNJ)

Areas Under
National
Jurisdiction (ABNJ)

#### **High Seas**

(continental shelf)

International waters (outside Territoral waters)

Exclusive Economic Zone (200 nautical miles)

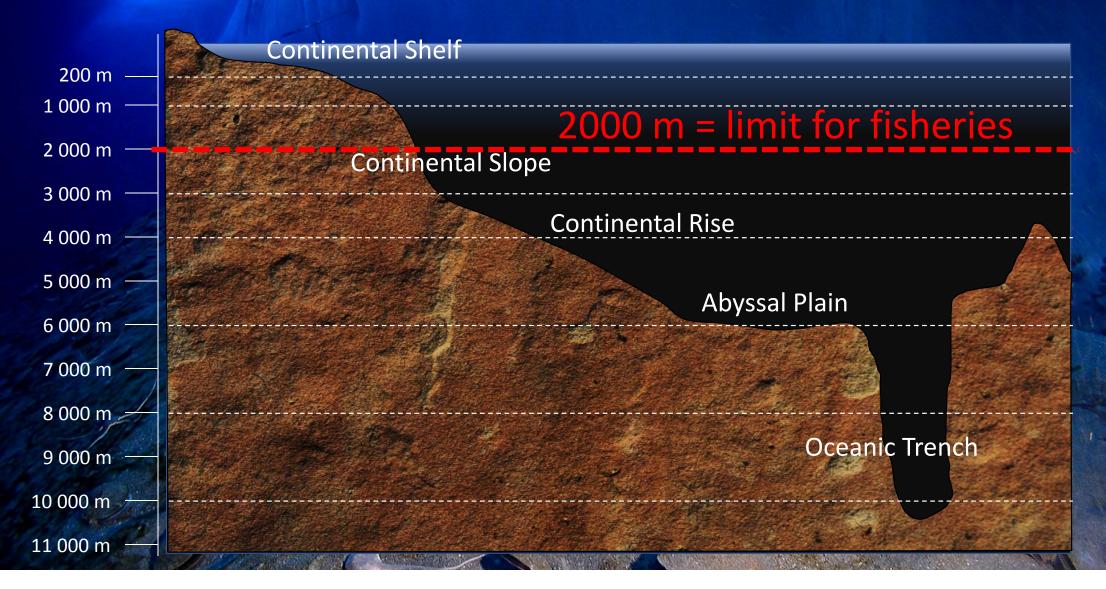
Contiguous zone (12 nautical miles)

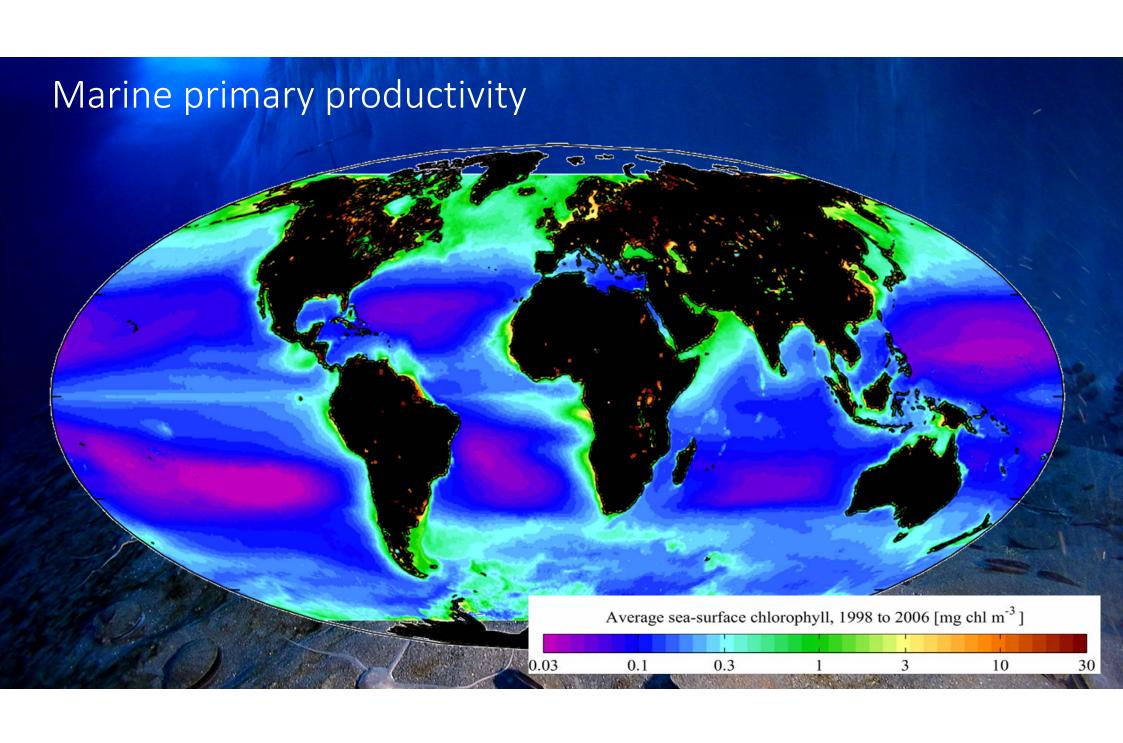
Territorial waters (12 nautical miles)

# The oceans cover almost two-thirds of Earth's surface

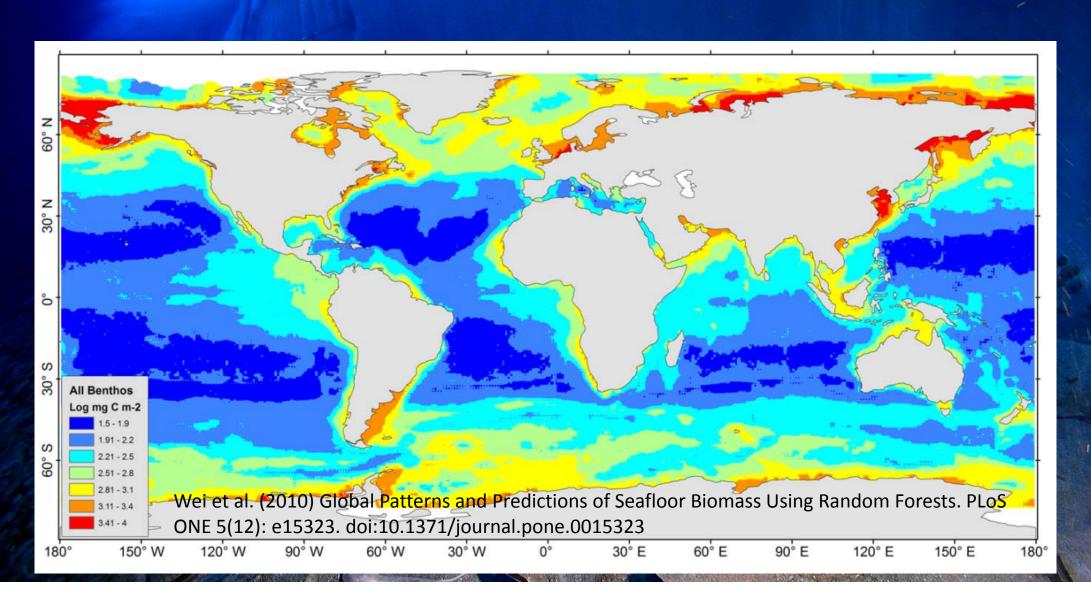


# Over 80% of the oceans are deeper than 2,000 m





### Seafloor biomass

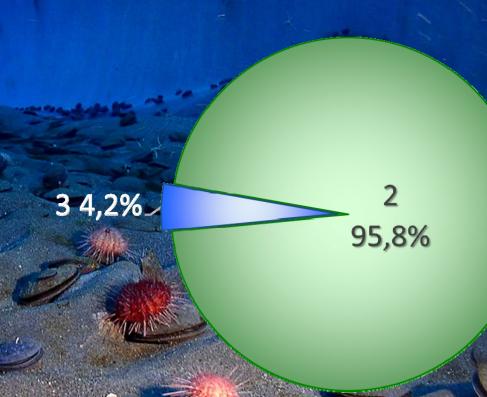


# Most ocean areas are beyond national jurisdiction Ocean Surface Area but marine life concentrates along the 38% coasts and requires 62% national conservation laws

# Most ocean areas are beyond national jurisdiction

Wild catches 2009-2014

But most fishes are caught in areas under national jurisdiction and require national management



# Major threats to the oceans

- Climate change, e.g.
  - Acidification
  - Warming
  - Ocean currents
- Human activites, e.g.
  - Organic & toxic wastes from agriculture, industries and cities
  - Plastics and other garbage from land and vessels
  - Overfishing and destructive fishing methods
  - Mining destroys seabed habitats,
  - Aquaculture affects coastal habitat (e.g. deforestation, contamination)

### **Biological Impacts**

- Habitat loss
- Biodiversity loss
- Change in species composition
- Distributional shifts of marine species
- Declining populations
- Coral reef bleaching



## Ocean Governance: Areas under national jurisdiction

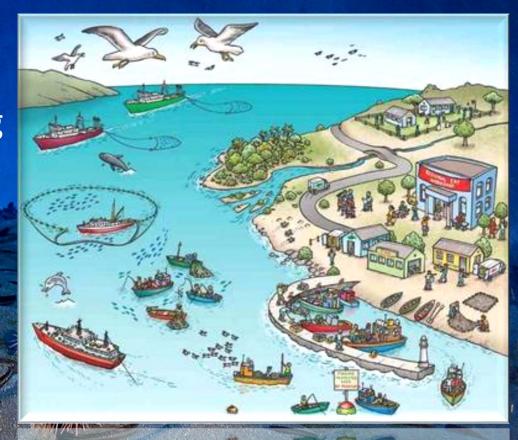
#### Good ocean governance should involve:

- Cooperative planning & decision making by relevant government agencies
  - Fisheries, Agriculture, Environment, Transport, Mining, Trade, Tourism, Health, Municipalities, etc
- Data collection and environmental/biological assessments Governments, universities, industry
- Monitoring and Enforcement
   Coastguard, navy, ports, health insp., police, courts
- Stakeholders
   Resource users, tourism, farmers, vessel owners, conservation agencies, NGOs

### Ocean Governance: Areas under national jurisdiction

Ocean governance is costly and must cover the coasts and the 200 miles of the EEZ. This is challenging for many coastal States.

- There are about 150 coastal
   States in the world.
- Over 100 are developing States and of these
- 58 are Small Islands Developing States



# Ocean Governance: Areas under national jurisdiction

### Challenges faced by many coastal States:

- Lack of funds and technical know-how
- Incomplete ecological & biological data
- Inadequate legislation and poor enforcement
- Limited cooperation and coordination of government activities
- Unresolved conflicts between stakeholders
- Lacking participation of stakeholders

# Ocean Governance: Areas Beyond National Jurisdiction Global Agreements and Institutions

1982 UN Convention on the Law of the Sea (UNCLOS)

#### **Jurisdiction**

- International Tribunal for the Law of the Sea (ITLOS)
- International Court of Justice, ICJ)

#### Climate change

1992 UN Framework Convention on Climate Change (UNFCCC) (UN Secretariat)

#### **Mining**

International Seabed Authority (ISA)

#### Transport and Pollution

- 1948 UN Convention on the International Maritime Organization (IMO) Secretariat
- 1973 IMO Convention for the Prevention of Pollution from Ships (MARPOL)

# Ocean Governance: Areas Beyond National Jurisdiction Global Agreements and Institutions

#### 1982 UN Convention on the Law of the Sea (UNCLOS)

#### Conservation, biodiversity and vulnerable species

- 1973 UN Convention on International Trade in Endangered Species of Wild Fauna and Flora (CITES) – Secretariat
- 1992 UN Convention on Biological Diversity (CBD) Secretariat
- Global Environmental Facility (GEF) UN Environment Programme (UNEP)
- International Union for Conservation of Nature (IUCN)

#### Fisheries Management

- 1993 FAO Compliance Agreement
- 1995 UN Fish Stock Agreement
- 1995 FAO Code of Conduct for Responsible Fisheries (voluntary)
- 2001 FAO Reykjavík Declaration on Responsible Fisheries in the Marine Ecosystem
- 2009 Port State Measures Agreement (PSMA)
- UN Food and Agriculture Organization (FAO)

## Ocean Governance: Regional Institutions

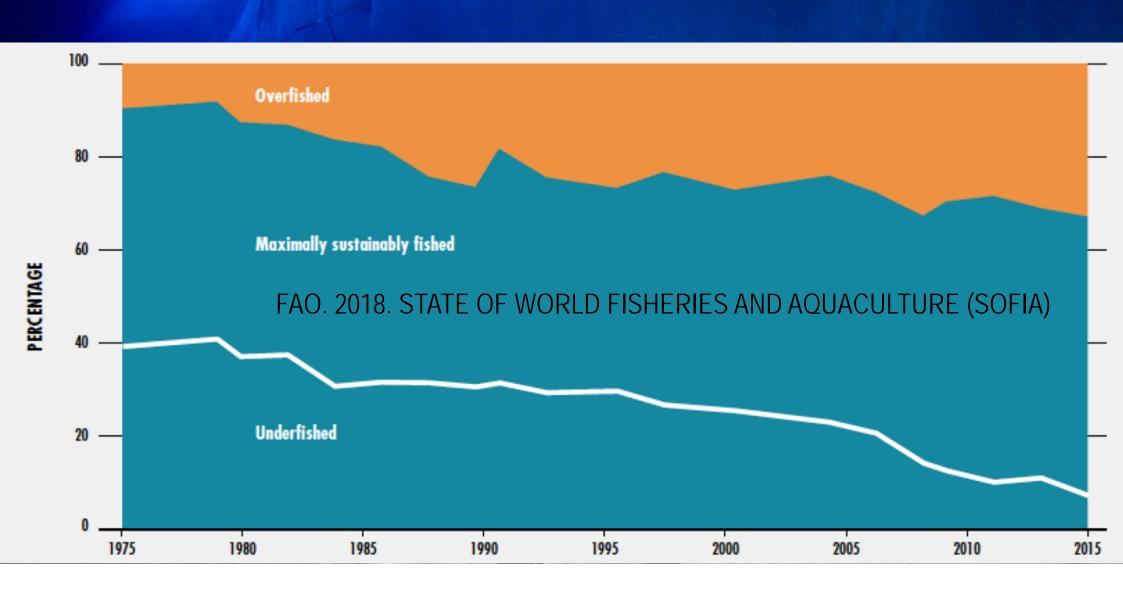
#### Regional Fisheries Management Organizations (RFMOs)

- General RFMOs (8)
- Tuna RFMOs (5)
- Specialised RFMOs (6)

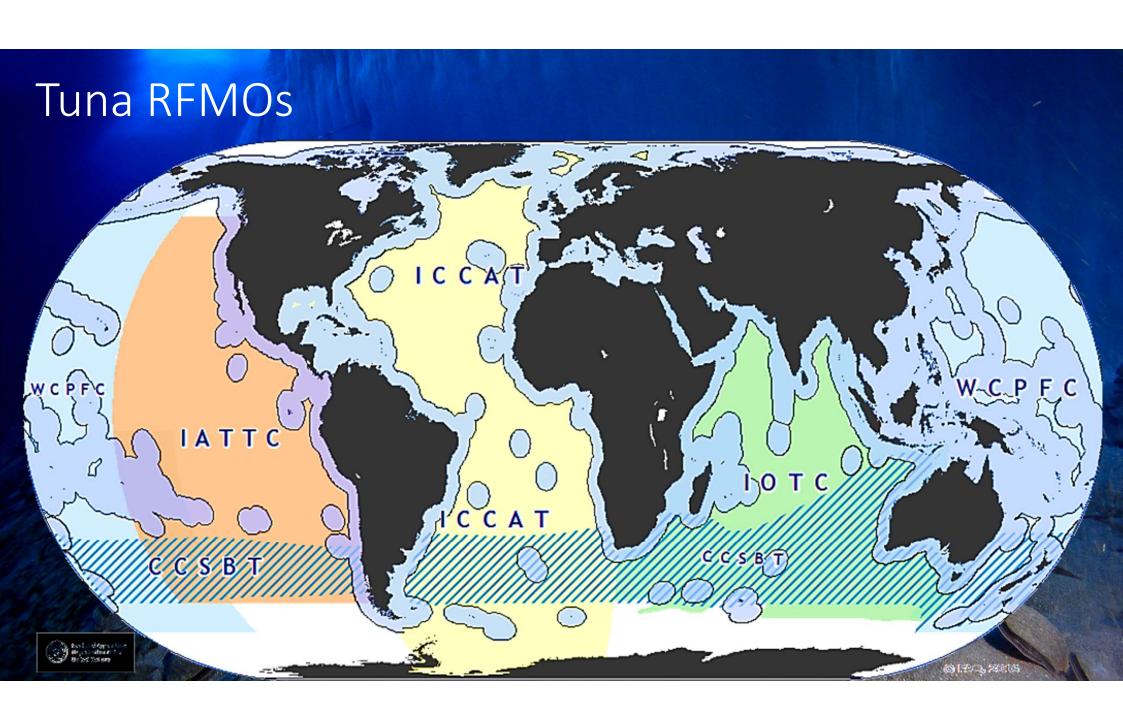
#### **Regional Seas Agreements**

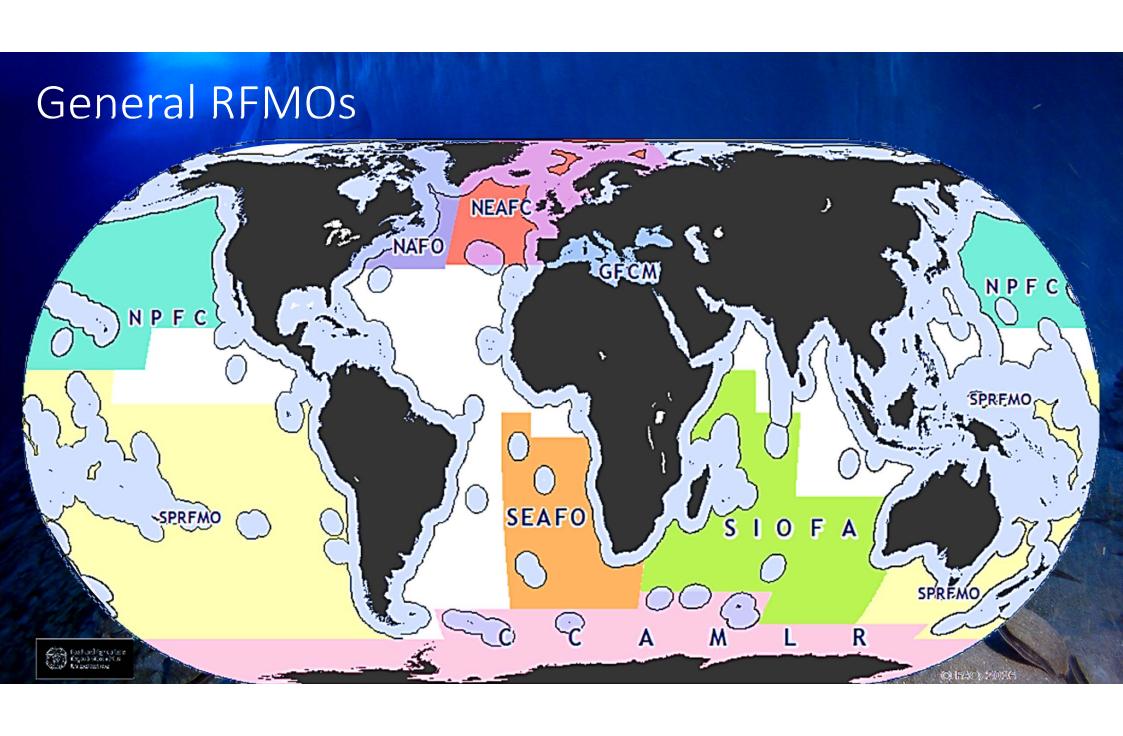
- 1959 Antarctic Treaty
- 1986 Convention for the Protection of Natural Resources and Environment of the South Pacific Region (SPREP)
- 1992 Convention on the Protection of the Marine Environment of the North East Atlantic (OSPAR)
- 1995 Convention for the Protection of the Marine Environment and the Coastal Region of the Mediterranean (Barcelona Convention)

# Overfishing – a serious threat to the oceans









### General RFMOs

- Have responsibility for most species in the high seas 'fishery resources' means all fish including molluscs, crustaceans and other living marine resources (except those covered by other agreements) (SPRFMO)
- Define 'fishing' very broadly to include any activity which can be expected to result in the locating, catching, taking or harvesting of fishery resources for any purpose as well as transhipments and any other operation at sea in support of fishing. (SPRFMO)

# General RFMOs: Mandate includes the conservation or protection of biodiversity and ecosystems

RFMO	Biodiversity conservation	Ecosystem Approach
CCAMLR	implicit	explicit
GFCM	implicit	implicit
NAFO	explicit	explicit
NEAFC	explicit	implicit
NPFC	explicit	explicit
SEAFO	explicit	explicit
SIOFA	explicit	explicit
SPRFMO	explicit	explicit

# Typical Setup and Tasks of a general RFMO

**COMMISSION** 

(Decision-making body)

SCIENCE:

Biological assessments and advice

COMPLIANCE:

Review of effectiveness and compliance

FINANCE:

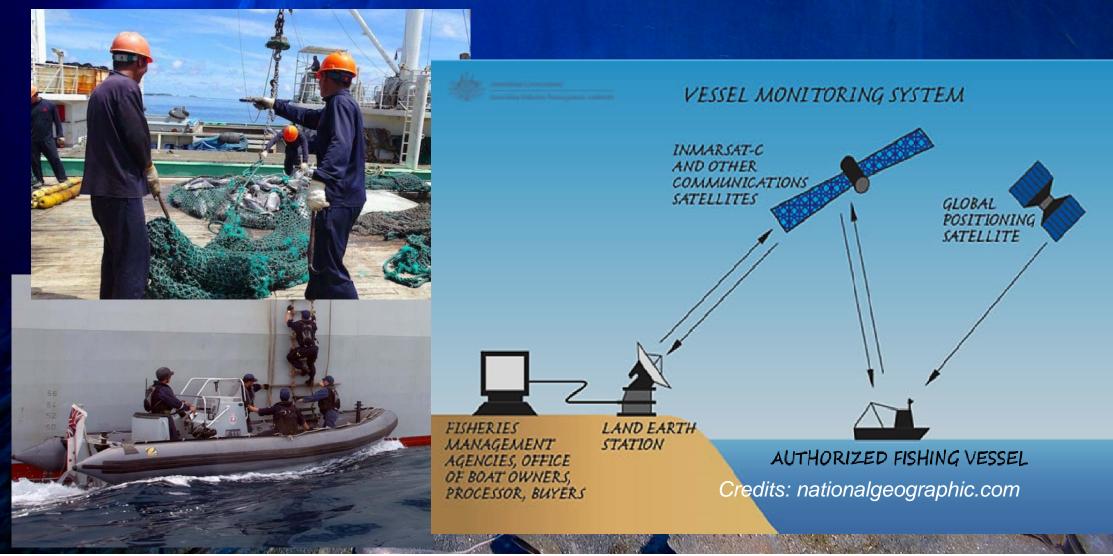
Budget, procedures, regulations SECRETARIAT:

Continuous coordination, administration





# Monitoring, Control and Enforcement (MCS)



# Illegal, Unreported and Unregulated (IUU) fishing



SPRFMO COMM-03 (2015) ANNEX E

South Pacific Regional Fisheries Management Organisation

#### Final 2015 IUU List

Name of vessel	AURORA	DAMANZAIHAO
	(PACIFIC CONQUEROR)	(LAFAYETTE)
Flag of vessel	Russian Federation	Peru
	(Peru)	(Russian Federation)
Name & Address of Owner	Albatros Company Limited, ul. Portovaya 8, Korsakov 694020, Russian Federation	Sustainable Fishing resources S.A.C. Calle Amador Merino Reyna No. 307 Piso 9 San Isidro, Lima,
		ru

#### **SPRFMO IUU List 2015**

Summary of a that justifies the inclusion of the vessel on the List, together with reference to all relevant documents informing of and evidencing those activities

Fishing in the SPRFMO
Convention Are awithout
authorisation (air photographs
from New Zealand) and
prolonged unauthorised presence
in the SPRFMO Area (evidence
from Chile).

Prolonged presence in the SPRFMO Area without authorisation and providing support to five authorised Peruvian trawlers according to evidence provided by Chile and Peru.

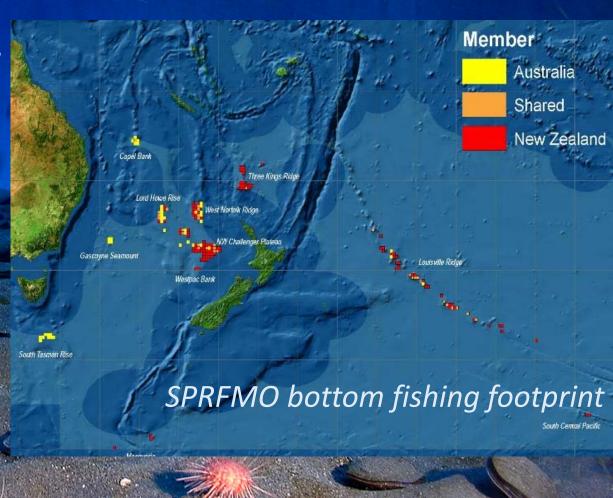
(Indicates former details)

#### Vessels on the IUU List:

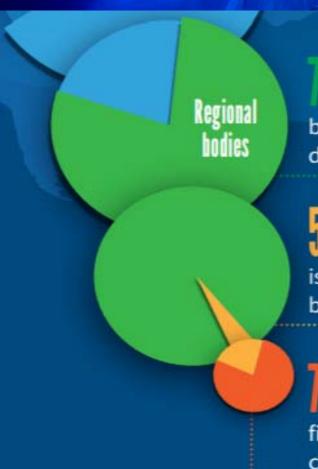
- Will not receive a fishing permit
- Will not receive support from other vessels
- Are prohibited from entering foreign ports
- Will not be granted another flag
- Cannot trade their catch



- Defining bottom fishing footprints and prohibiting fishing outside
- Requirement of Impact Assessments (IAs) for new fishing areas
- Closure of most seamounts to fisheries
- Gear restrictions (e.g. prohibition of bottom trawl)
- Encounter protocols



### FAO 2017: Bottom fishing in areas beyond national jurisdiction (ABNJs)



of the ABNJ is managed by regional bodies regulating deep-sea bottom fisheries

of this managed ABNJ is "potentially fishable"\* for bottom fishing

76% of these potentially fishable areas are either closed to bottom fishing or subject to other access regulations\*\*

- Most deep-sea fishing is not in the ABNJ
- Most ABNJ bottom fishing is on the smooth seabeds of continental shelves
- Most fished seamounts are in areas under national jurisdiction.

#### RFMOs and VMEs

FAO Report on VME processes and practices in the high seas:

It is clear that these deep-sea fisheries are being progressively managed according to an ecosystem approach to fisheries and it is expected that this will continue in the future.

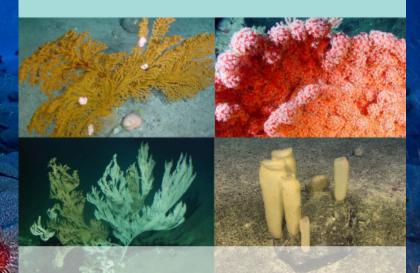


FAO FISHERIES AND AQUACULTURE TECHNICAL PAPER

595

#### Vulnerable marine ecosystems

Processes and practices in the high seas



#### **RFMOs**

- provide governance in the high seas
- promote international ocean cooperation
- establish best practices with benefits for coastal fisheries management of developing States
- offer a forum for coastal States to address their concerns, issues and achievements
- lend support for capacity development of coastal States
- are mandated to protect ecosystems and biodiversity
- monitor compliance and sanction noncompliance
- perform regular reviews of their effectiveness



# A/RES/72/249 Resolution adopted by the General Assembly on 24 December 2017

- 1. Decides to convene an intergovernmental conference ... to elaborate the text of an international legally binding instrument under the United Nations Convention on the Law of the Sea on the conservation and sustainable use of marine biological diversity of areas beyond national jurisdiction ...
- 2. Also decides that negotiations shall address ... in particular, together and as a whole, marine genetic resources, including questions on the sharing of benefits, measures such as area-based management tools, including marine protected areas, environmental impact assessments and capacity-building and the transfer of marine technology;

•••

# An Urgent Wake Up Call to Protect our Oceans



This week, in New York, countries across the globe are meeting at LINE

governments to n to sustain life on E Could the High Seas Be Closed to Fishing?

## 'Make new rules' to save the oceans

By Roger Harrabin BBC environment analyst

① 12 July 2017



New rules are urgently needed to protect life in the open warned.

# The oceans' last chance: 'It has taken years of negotiations to set this

Wildlife in most of the lawless high seas faces an existential threat from fishing, shipping and the military. Next month, a landmark UN conference could finally bring hope

by Robin McKie

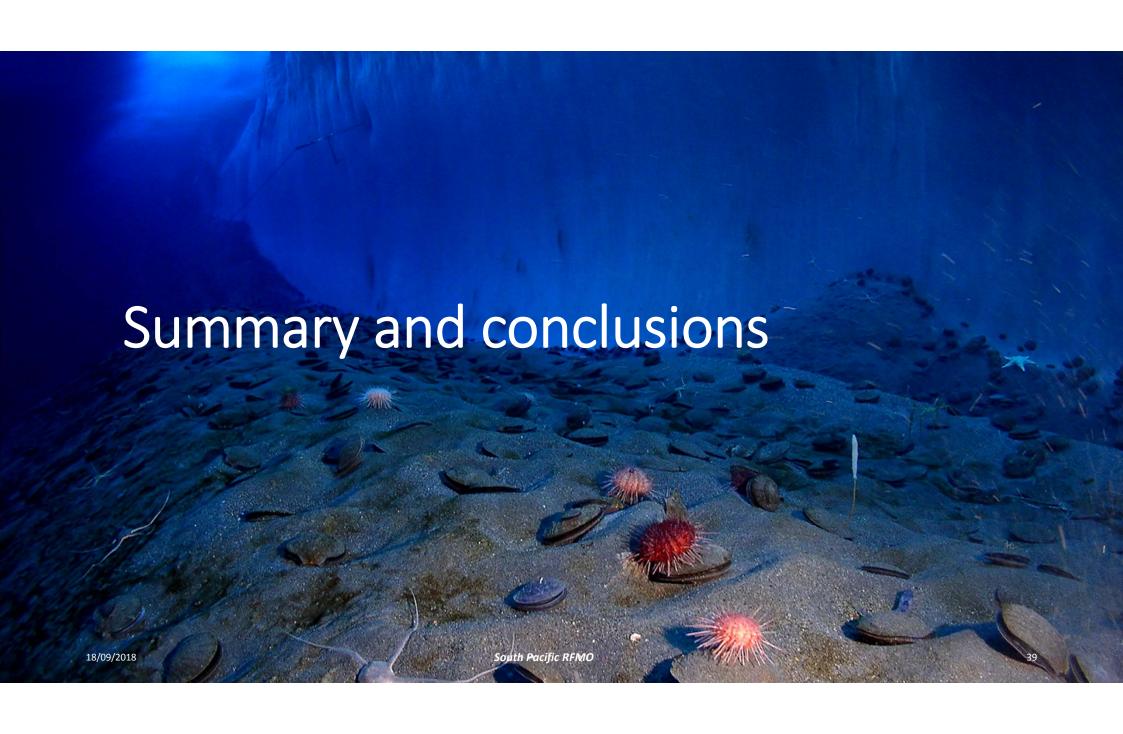
# Closing the high seas to fishing?

#### **Potential benefits:**

- Highly migratory pelagic species would be safer in international waters
- Currently fished VMEs in the high seas would have a chance to regenerate
- Economic impact would be low catches are low and fishing expensive

#### **Potential risks:**

- Fisheries in the high seas provide an important incentive for regional cooperation through RFMOs
- Without RFMOS, a vital tool for the promotion of best practices will be lost
- Without RFMOs, scientific sampling in the high seas will be reduced
- Without RFMOs, MCS in the high seas will be jeopardized.
- Without MCS, there is a high risk of increased IUU fishing



# Summary

- Climate change poses the biggest threat to the oceans
- Non-climate ocean threats derive mainly from land-based/coastal activities
- National ocean governance varies and many countries face severe difficulties with the implementation of sound management regimes
- Regional fishery cooperation in the high seas is functional, has legal authority, provides for MCS and strives to implement best management practices
- Closing the high seas to fishing could diminish vital regional ocean cooperation

#### **Conclusions:**

- 1. The existing international ocean governance is comprehensive and has the potential to adequately address threats from marine activities in the high seas.
- 2. Land-based and coastal threats to the oceans are significant. Effective ocean conservation must focus on supporting national efforts in finding solutions.
- 3. Regional cooperation encourages the national implementation of best practices and should continue.