

# Role and impact of China on world fisheries and aquaculture

Irina Popescu and Marcus Breuer
Policy Department B – Structural and Cohesion Policies
European Parliament



### **Background**

- Committee on Fisheries (PECH) request November 2021
  - ➤ The implications of Chinese fishing operations on EU fisheries and the way forward 2022/2148(INI)
- Policy Department B unit dedicated to providing expert input to the PECH Committee
  - > 2012 The role of China in world fisheries
  - 2022 Role and impact of China on world fisheries and aquaculture, Lead author – Daniel Pauly (University of British Columbia)



### Structure of the study

- Overview of the Chinese fleets, aquaculture, and trade
- 2. Fishing access agreements
- 3. China's subsidies to its fishing sector
- 4. IUU fishing practices
- 5. EU-China cooperation
- 6. Consequences of China's fishing activities for the EU
- 7. Protection of the EU against unfair competition
- 8. Conclusions and recommendations

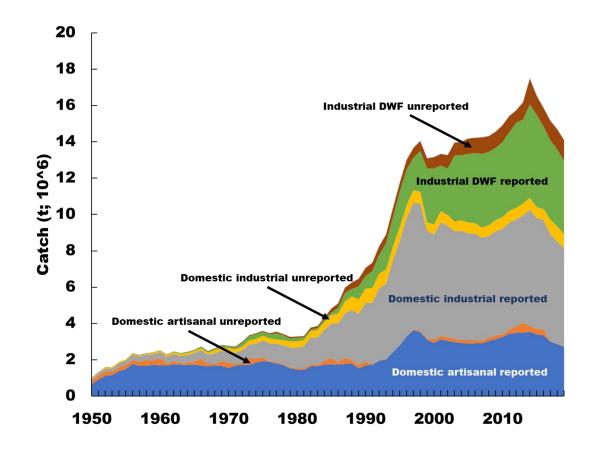


#### **Chinese distant water fishing fleet:**

- The total marine catches of Mainland China currently amount to 14-16 million tonnes, of which 3-4 million tonnes originate from distant-water fishing, notably from the waters off West Africa and western South America.
- Since 2014, China is the top fishing country in the high seas, and is one of five countries driving high seas fisheries and transshipment of large tuna and sharks and, more recently, of squid.

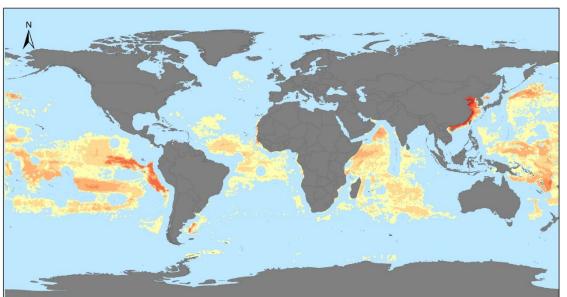


### Marine fisheries catch by Mainland Chinese domestic and distant water fleets





 Distant water fleets of Mainland China, in 2018-2020, operated in hot spots around the focus areas emphasized in the study.



- off Ecuador
- off northwestern Africa (Mauritania and Senegal)
- off the east coast of Madagascar,
- around Mauritius
- off the eastern and southern coasts of the Solomon Islands.



#### **Chinese distant water fishing fleet:**

- There is a large discrepancy and uncertainty about the number of vessels of the Chinese distant water fleets. The low estimate of 'visible' vessels is around 900; a higher estimate assumes that about 2 000 'invisible' vessels ought to be added.
- This discrepancy may be due to the inclusion of a large number of vessels operating in waters close to China, e.g., in North Korea and Japan, usually on the basis of access agreements.



#### Chinese marine aquaculture sector

- China's mariculture produced **16 million tonnes** (mt) in 2020, of which **14 mt** are **bivalves**. Overall, the industry generates about **52 billion Euros** per year.
- Fish and crustacean farming generate a huge demand for fishmeal, which has turned China into the largest fishmeal importer in the world, and which impacts the fish consumption of some of the countries from which the fishmeal is imported.



### Chinese import and export of fisheries and aquaculture products

- China's role as a primary seafood processor (filleting) to the world is changing in favour of secondary value-added processing.
- Rising Chinese wealth is unsurprisingly leading to increased imports of expensive prime seafood (fresh salmon, fillet products, shellfish) for domestic consumption.



### Chinese import and export of fisheries and aquaculture products

- However, there is one thing that has not changed, i.e., China's dominance of the trade in fishmeal. In 2012, China was importing 30% of the traded total, and provisional data for 2021 suggests this is now approaching 50%.
- When its domestic production is included, China appears to be consuming 60% of global fishmeal production.



### 2. Fishing access agreements

- Distant water fleets operating in the study areas usually gain legal access in these countries' Exclusive Economic Zones through joint ventures, bilateral agreements, private agreements and licensing.
- The terms of these agreements or licenses are usually not publicly available, as they are seen as commercially sensitive. EU SFPA are more transparent.
- Of the six focus countries, Mauritania, Senegal and Mauritius have active SFPAs, Madagascar and the Solomon Islands have dormant SFPAs and Ecuador has no SFPA.



### 2. Fishing access agreements

- In the past decade, China has been actively expanding its Belt and Road Initiative. All focus countries but Mauritius have joined the initiative, with fisheries as an important component of China's involvement. However, concrete details on these agreements are not publicly available.
- Many of China's distant water fishing companies also engage in joint ventures or private agreements in foreign countries. This makes it hard to trace who the actual beneficial ownership is and adds another layer of opaqueness on the operation of China's distant water fleet.



#### 3. China's subsidies to its fishing sector

- China provides US\$ 2.4 billion annually to its distant water fleets operating in the Exclusive Economic Zones of other countries, and \$68 million to its distant fleets operating in the high seas.
- Harmful subsidies provided by China to its distant fleets are concentrated on those operating along the coast of African countries (22 EEZs; amounting to an annual average of \$240 million).
- Results suggest that transparency is an issue not only regarding the deployment of fleets and their catches, but also regarding subsidies.



### 4. IUU fishing practices

- The unreported catch of Chinese distant water fleets subject to illicit trade is, on the average, 17% of the total distant fleet catch (1980-2019).
- The greatest number of IUU incidents were reported in Ecuador (35%), the Philippines (25%) and Mauritania (13%). Infractions reported in Senegal, Madagascar, Mauritius, and the Solomon Islands represent only about 2% of the incidents reported.
- The switching off of Automatic Identification Systems
   (AIS) directly accounts for 'going dark'. Lack of data on position of vessels are due to vessels 'going dark'.



#### 5. EU-China cooperation

- EU-China cooperation at the bilateral level has advanced considerably in the past few years, partly due to the establishment and the political visibility of the Blue Partnership for the Oceans.
- The Blue Partnership for the Oceans has opened the path for cooperation and dialogue, and encourages the EU and China to cooperate with Regional Fisheries Management Organizations (RFMOs) to promote better governance of fisheries.



# 6. Consequences of China's fishing activities for the EU

- China's massive subsidies for their distant-water fleet have lead to unfair competition.
- Overfishing results in environmental degradation and reduced resource availability, as well as socio-economic implications for local communities.
- The risk of overfishing is exacerbated by the lack of reliable data and transparency about the amount of fish caught.



# 7. Protection of the EU against unfair competition

- The EU's best protection against unfair practices should be transparency and adherence to the letter and spirit of the fishing agreements it has with various countries, thus setting a high bar for other entities to follow.
- Ensuring adequate enforcement of the existing EU legislation and of international agreements on safety at sea and labour conditions on fishing vessels is also recommended.



#### 8. Conclusions and recommendations

- China will not fade away, and its major role in international fisheries and mariculture will continue to grow. We should always keep this in mind.
- Thus, a rule-based global system that considers the interests of all parties needs to be in place to regulate international economic activities, including fisheries.
- Finally, when interacting with Chinese negotiators, it may help to point out that China's central government has proclaimed an 'Ecological Century' and insists on international cooperation leading to mutual benefits.

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