

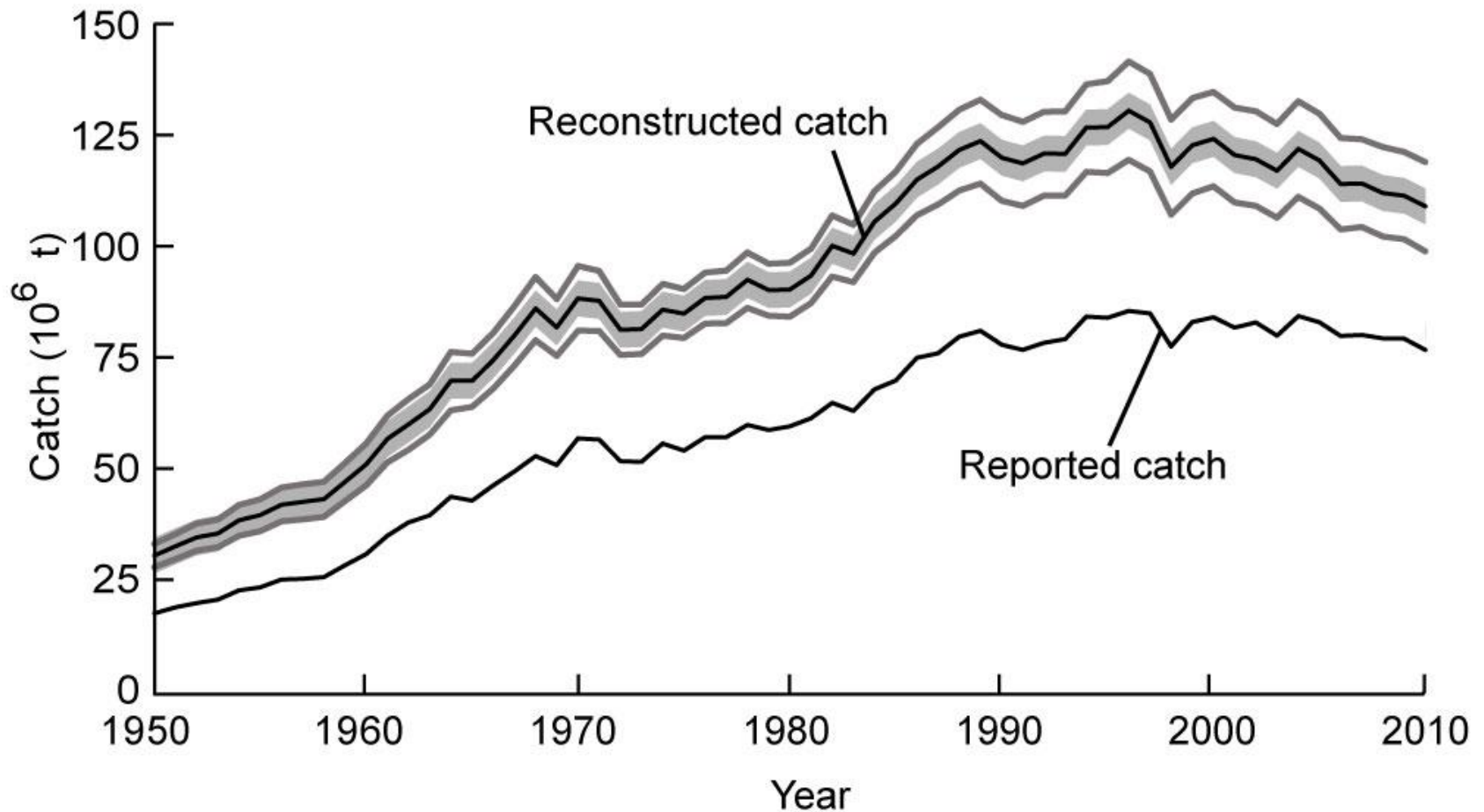
The Big Picture

Introduction to global fisheries trends

Professor Daniel Pauly, *Sea Around Us*
Institute for the Oceans and Fisheries
University of British Columbia

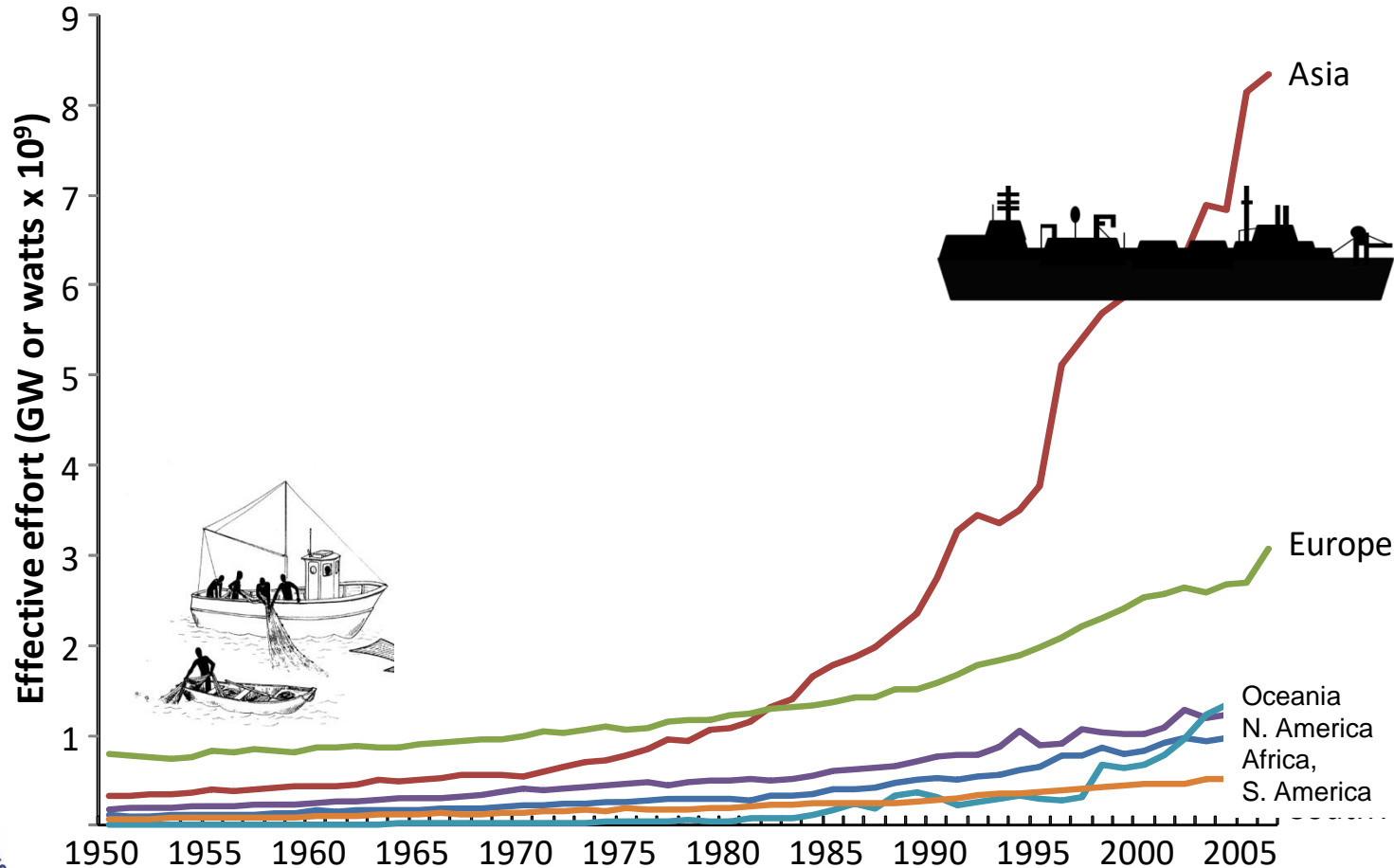


Global marine world's fisheries catches are declining, whether you believe governments' reported statistics or 'reconstructed' catch data (see www.seaaroundus.org)



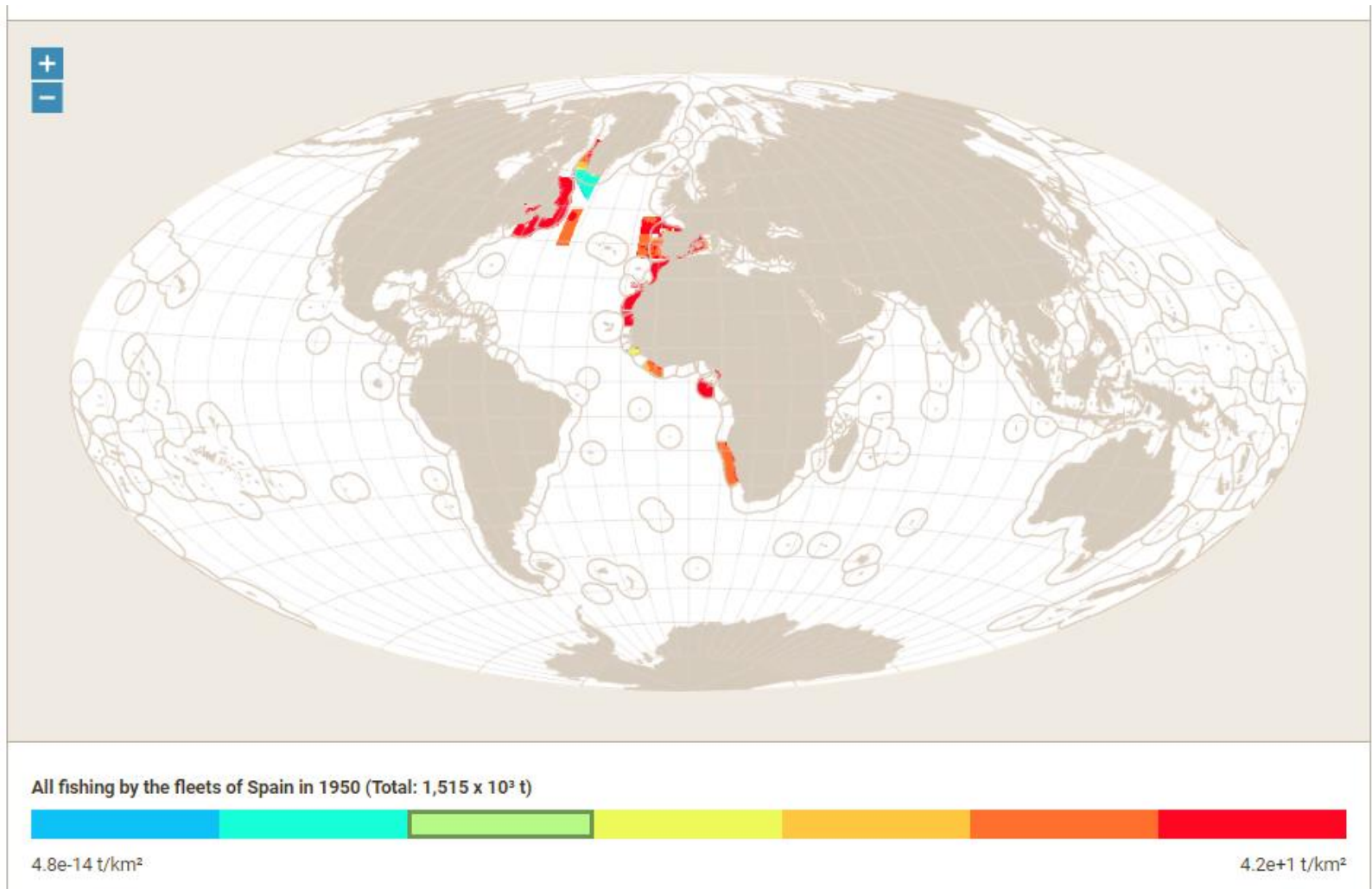
Pauly & Zeller (*Nature Comm.* 2016)

This decline is due to excessive fishing pressure by the world's fishing fleets, which keeps increasing.

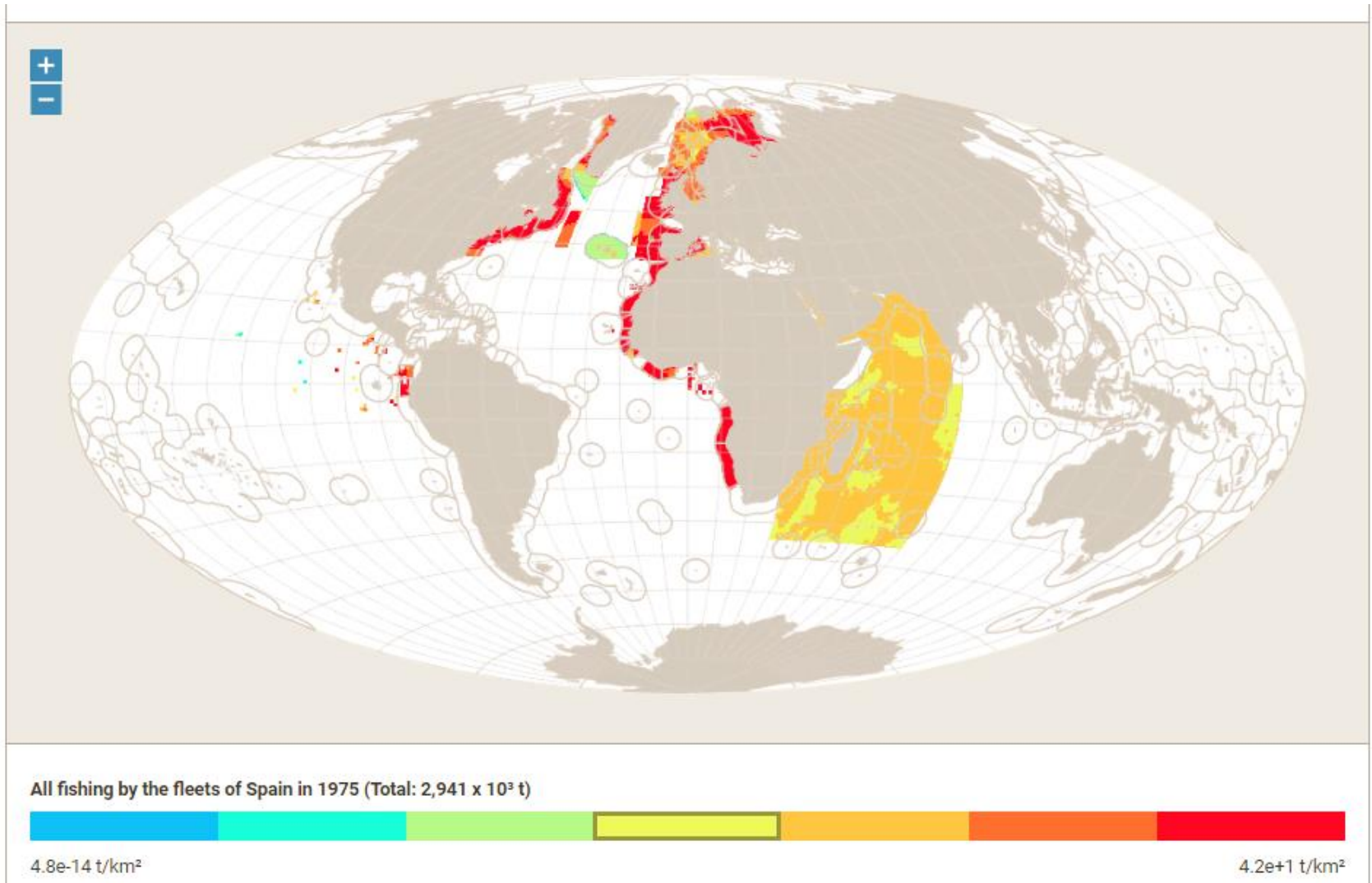


Anticamara et al. (*Fisheries Research*, 2011)

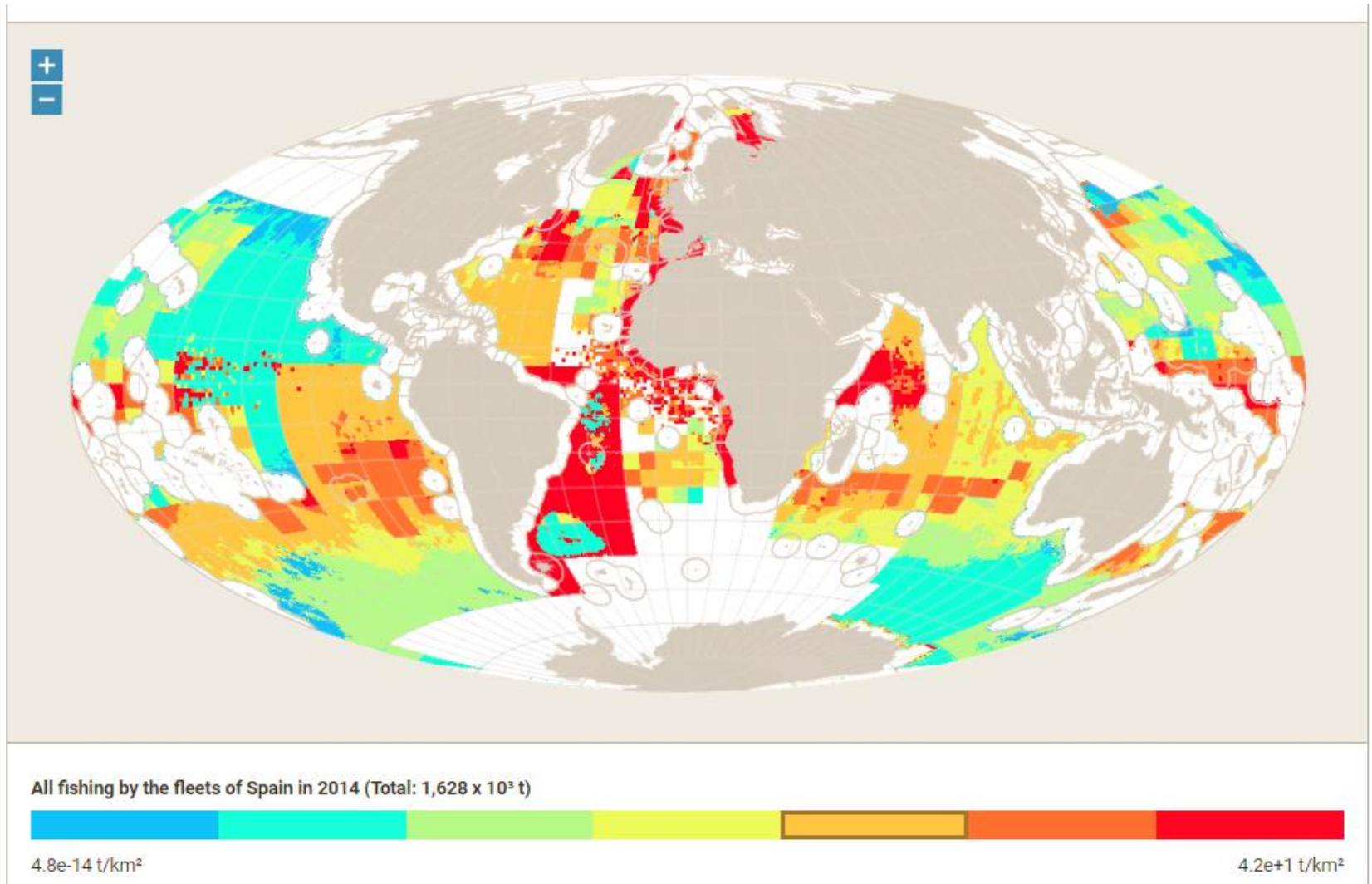
The response to local depletions in industrialized countries was to expand the reach of their fisheries, as illustrated by Spain in 1950...



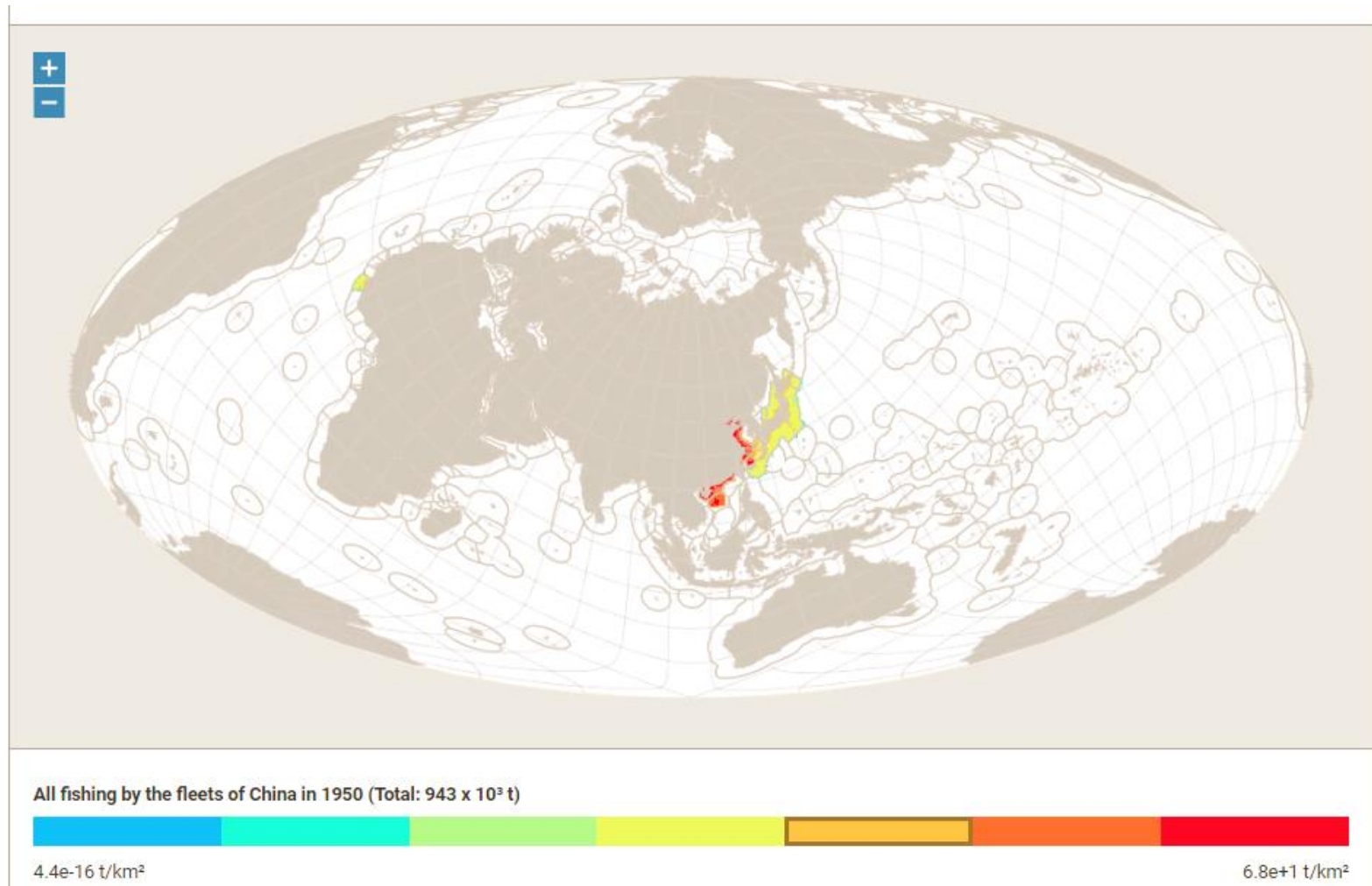
...in 1975...



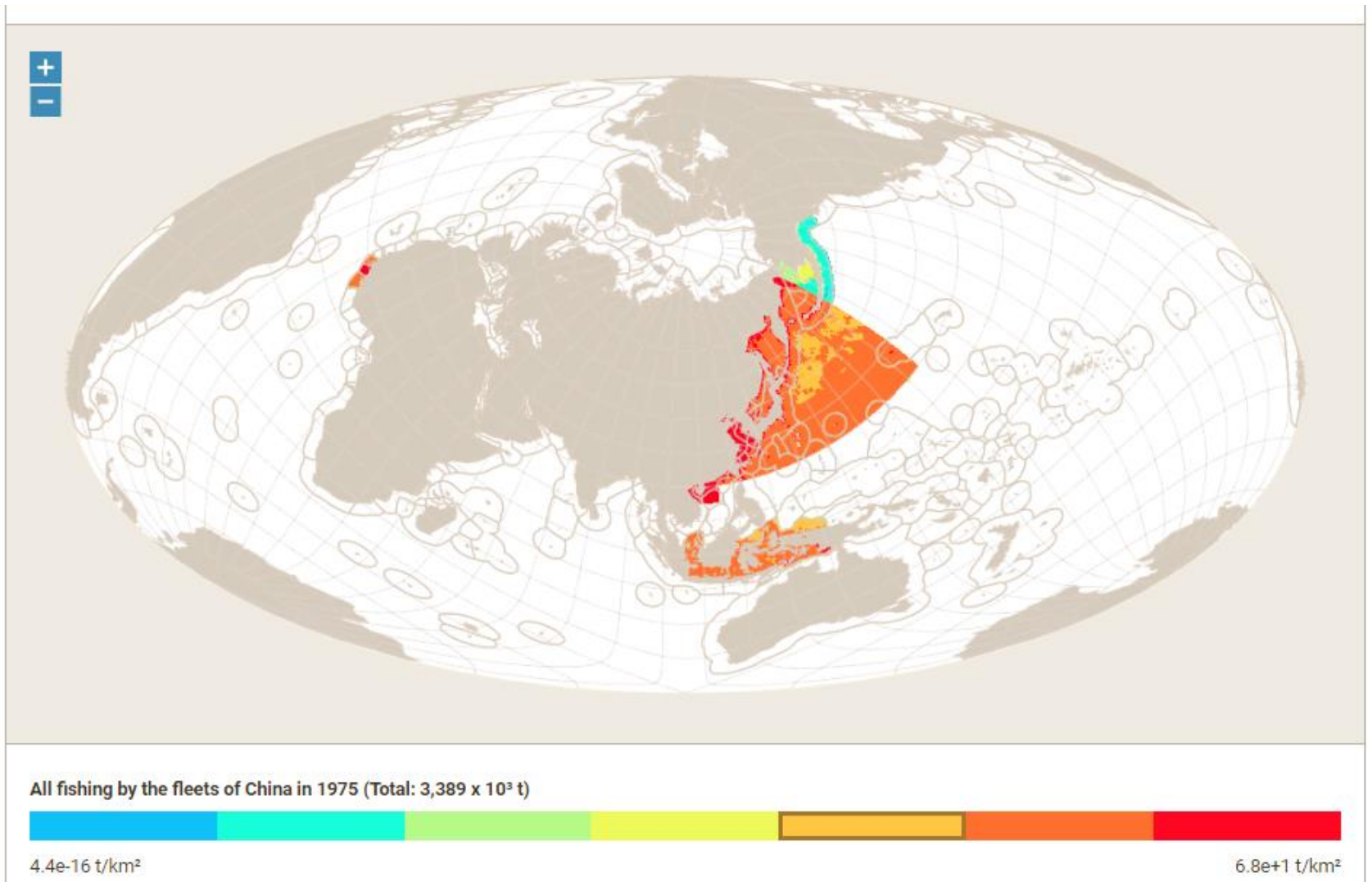
...and in 2014.



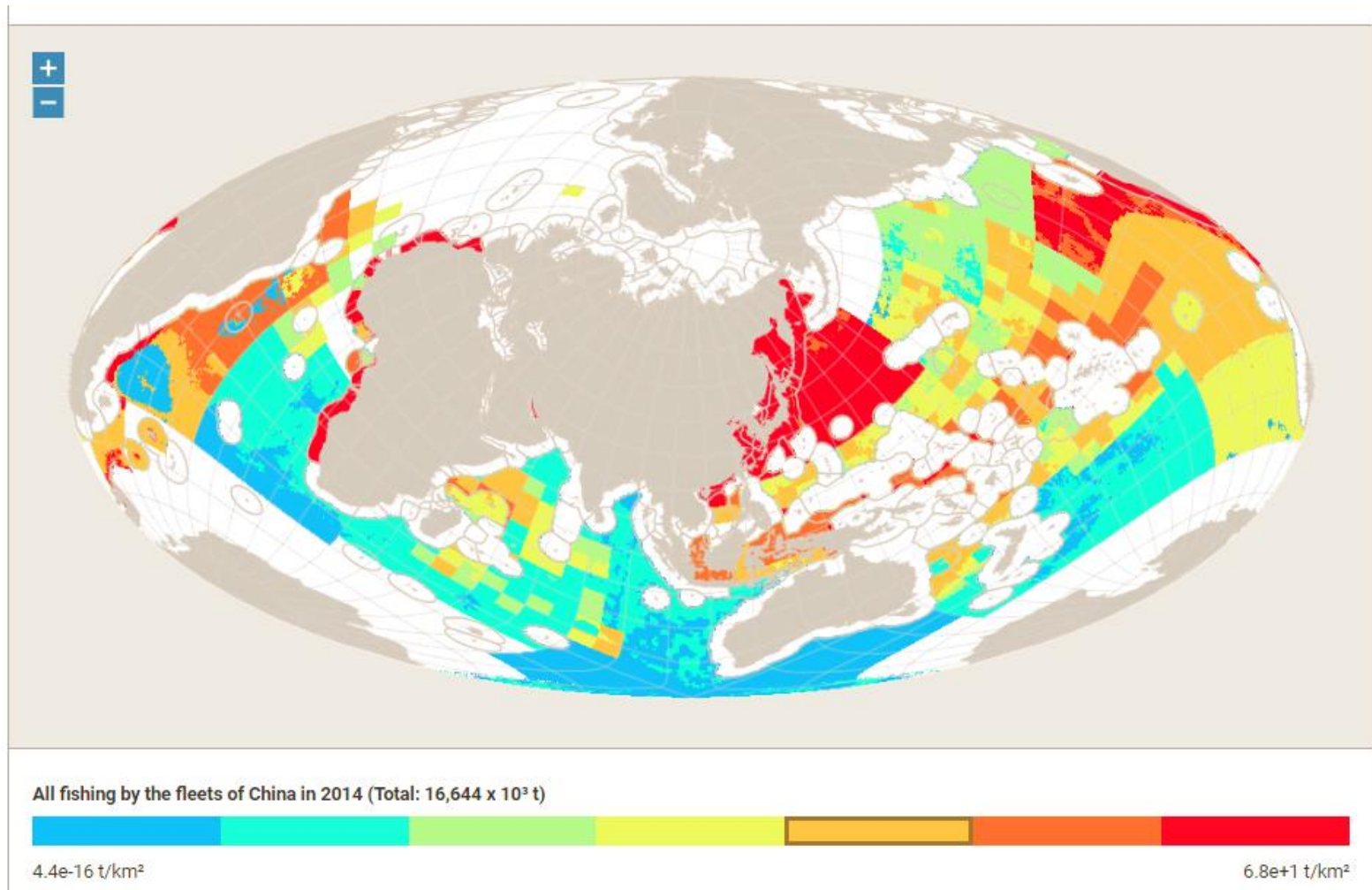
China started later expanding later than Japan, South Korean or Spain; here is China in 1950...



...in 1975...



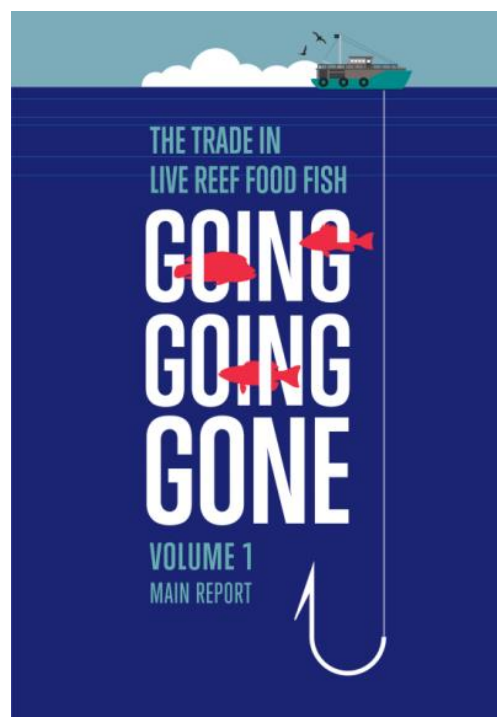
...and in 2014.



Going Going Gone: The Trade in Live Reef Food Fish

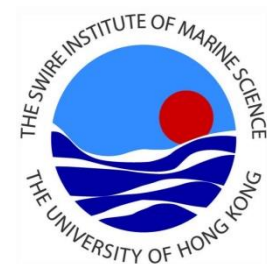
Sadovy de Mitcheson, Y., Tam, I., Muldoon, G., le Clue, S.,
Botsford, E. & Shea, S.

HKU, ADMCF, WWF, Bloom

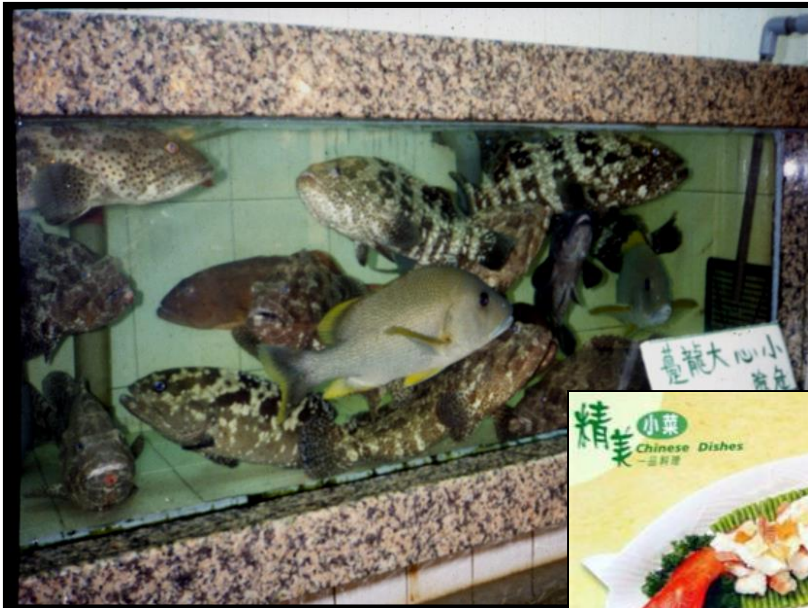


香 港 大 學

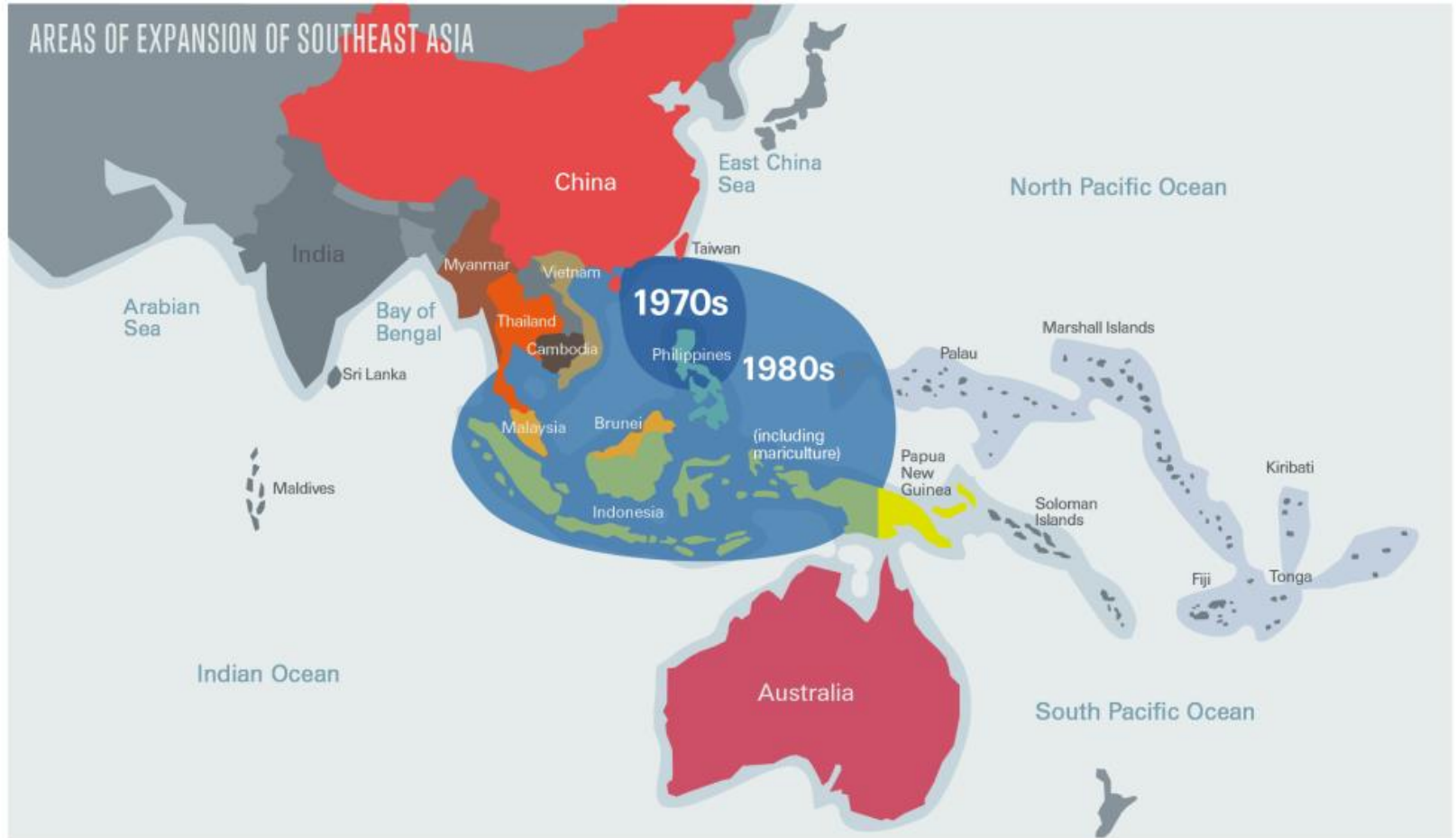
THE UNIVERSITY OF HONG KONG



Hong Kong is the global centre of the international trade in live reef fishes for local markets, restaurants, and for re-export for luxury seafood trade



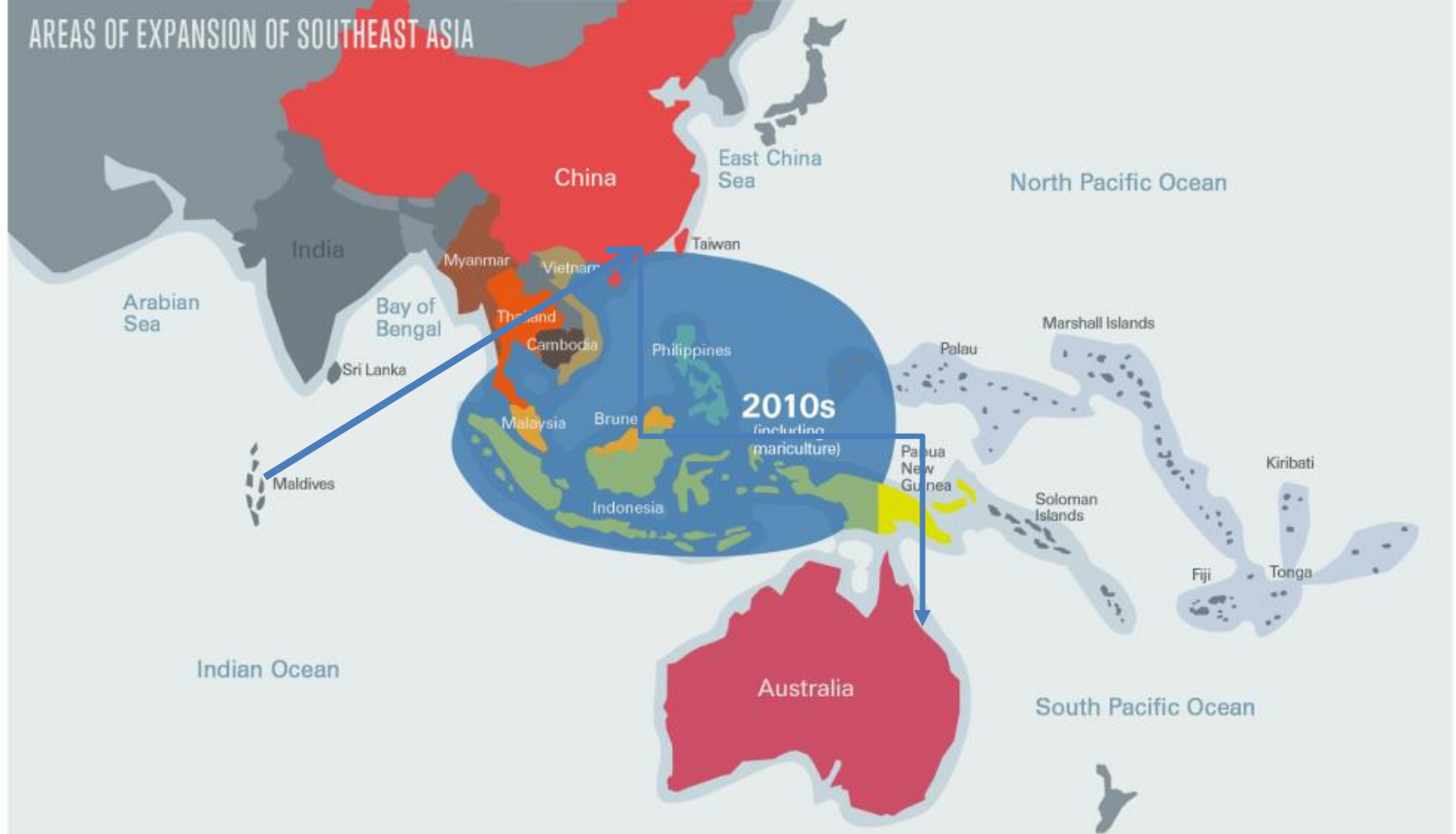
AREAS OF EXPANSION OF SOUTHEAST ASIA

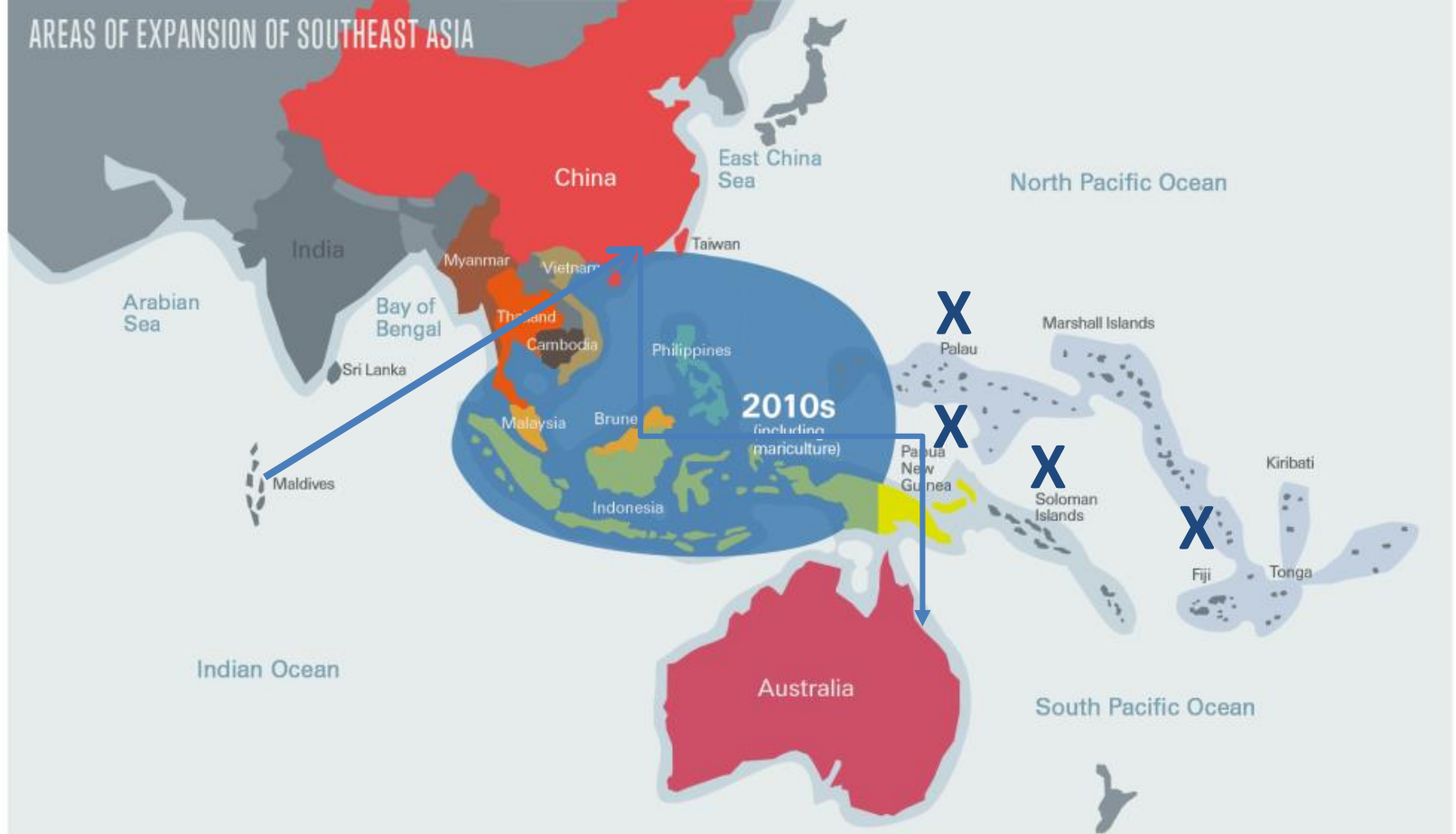


AREAS OF EXPANSION OF SOUTHEAST ASIA







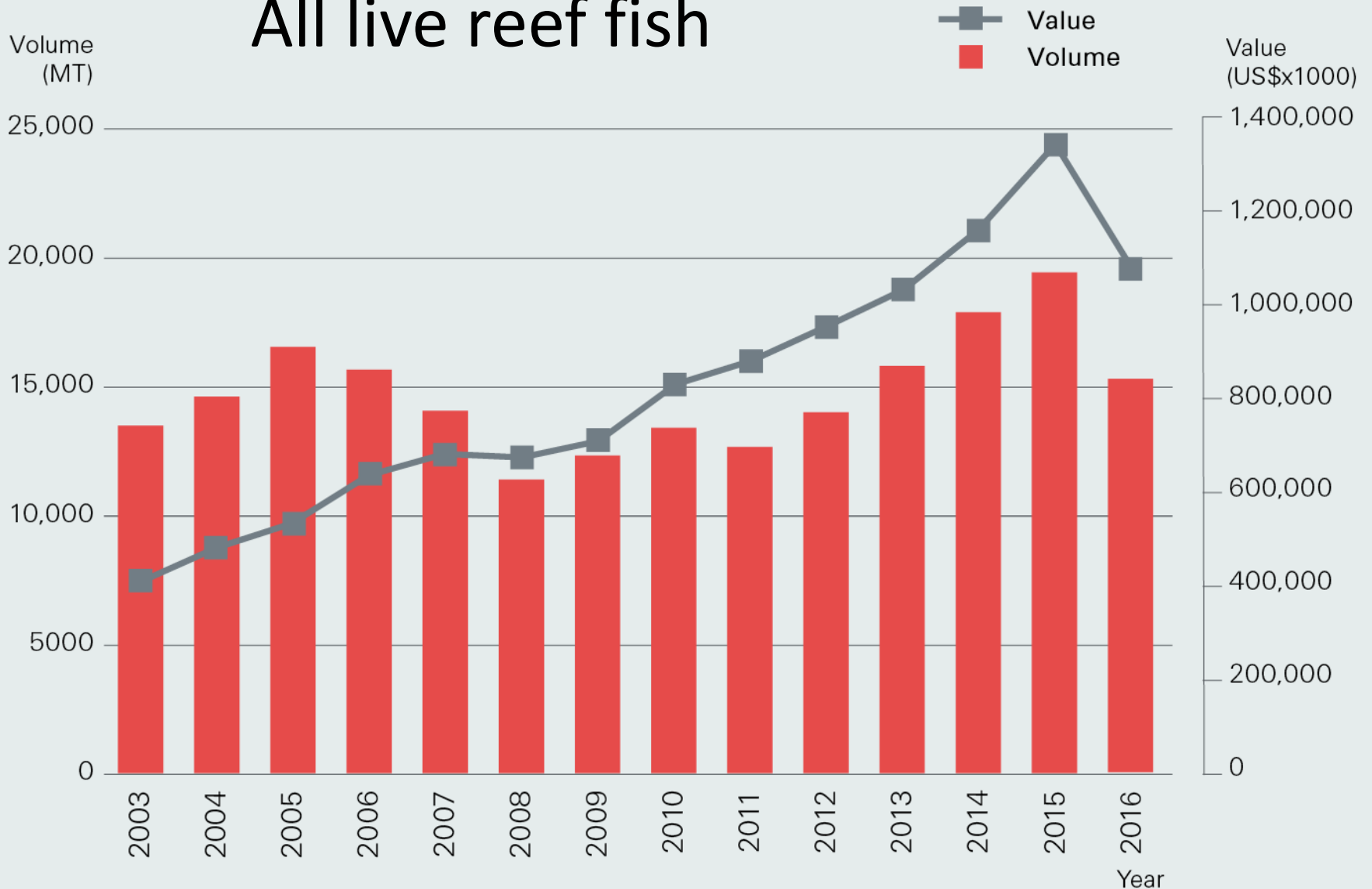




Reef fisheries supplying the live trade are also used for food and livelihoods in communities of the region

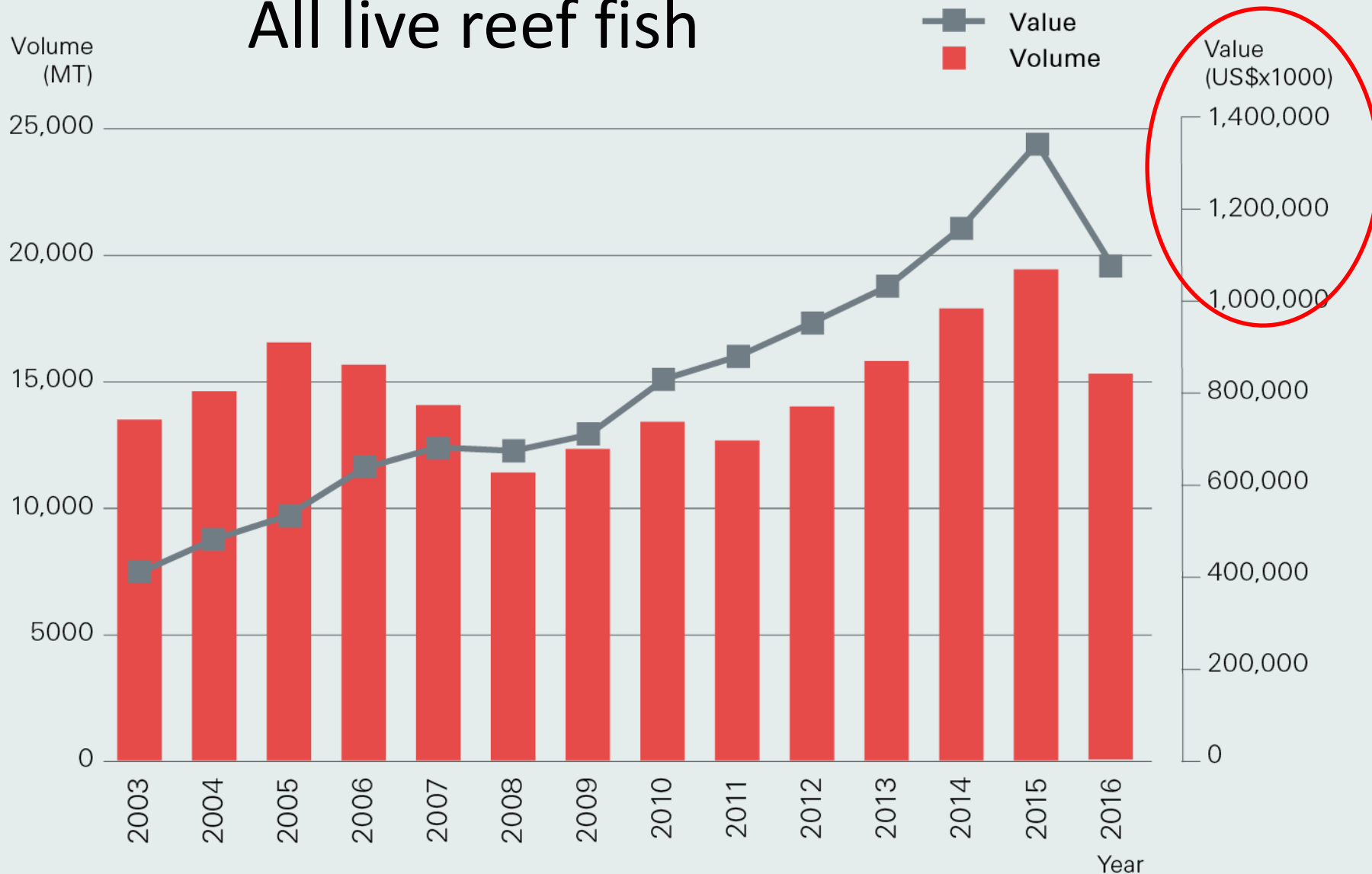
VOLUME AND RETAIL VALUE OF IMPORTS, 2003-2016

All live reef fish



VOLUME AND RETAIL VALUE OF IMPORTS, 2003-2016

All live reef fish



The most important section of the trade by both volume and value are the groupers; some grouper fisheries are declining and several species are now threatened because of trade



CONSERVATION STATUS OF KEY LIVE REEF FISH SPECIES IN THE LRFTT ACCORDING TO THE IUCN RED LIST 2008

ENDANGERED



Humphead
Napoleon Wrasse
Cheilinus undulatus

regulated
under
Hong Kong
Ordinance
Cap 586

VULNERABLE



Squaretail Coralgroupers
Plectropomus areolatus

西星班

NEAR THREATENED



Leopard Coralgroupers
Plectropomus leopardus

東星班



Tiger Groupers
Epinephelus fuscoguttatus

老虎班



Flowery Groupers
Epinephelus polyphekadion

杉班

CONSERVATION STATUS DEFINITIONS

ENDANGERED

facing a very high risk of extinction in the wild

VULNERABLE

facing a high risk of extinction in the wild

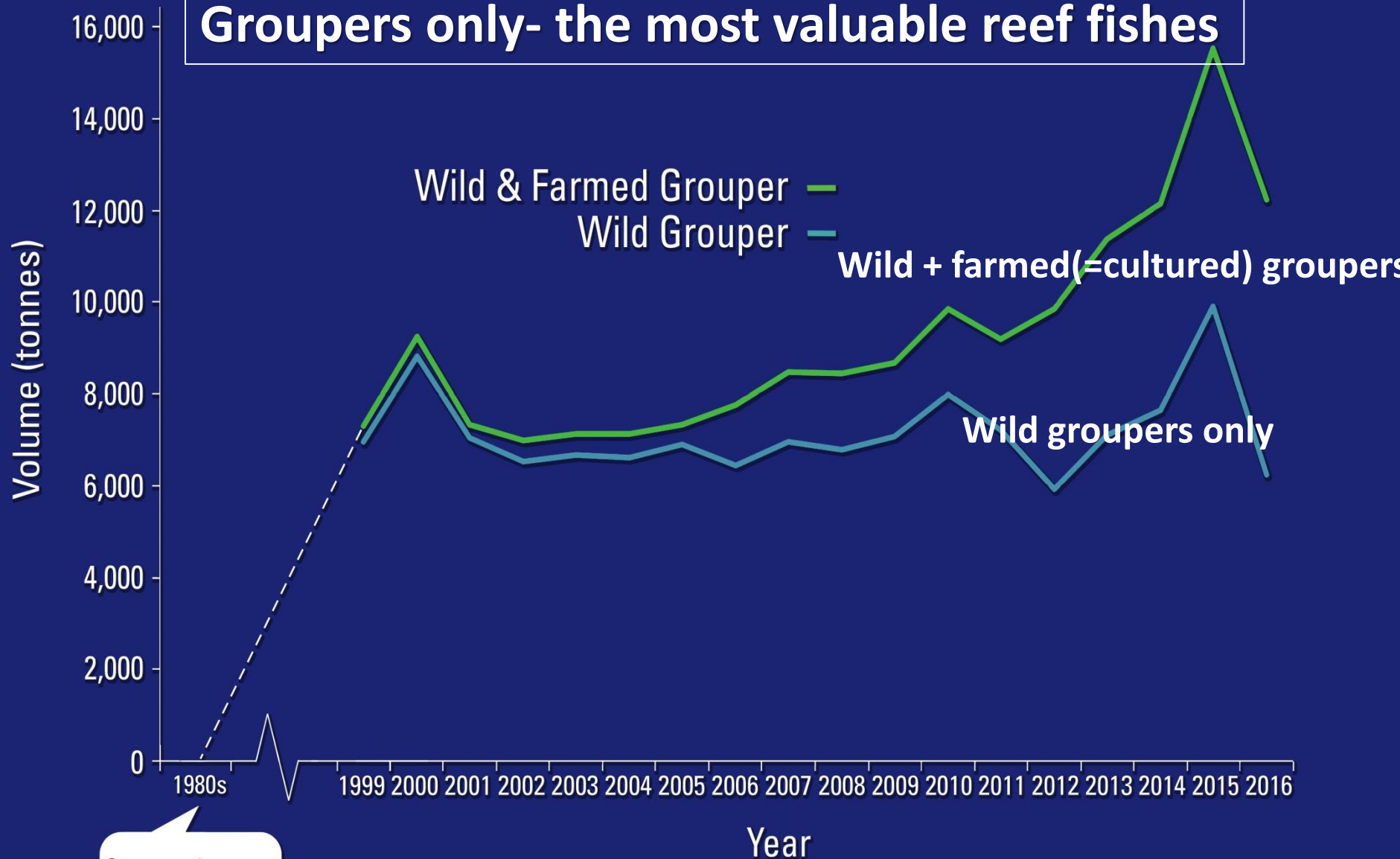
NEAR THREATENED

close to qualifying for or is likely to qualify for a threatened category in the near future

Source: The IUCN Red List of Threatened Species. Version 3.1,
<http://www.iucnredlist.org>

蘇眉

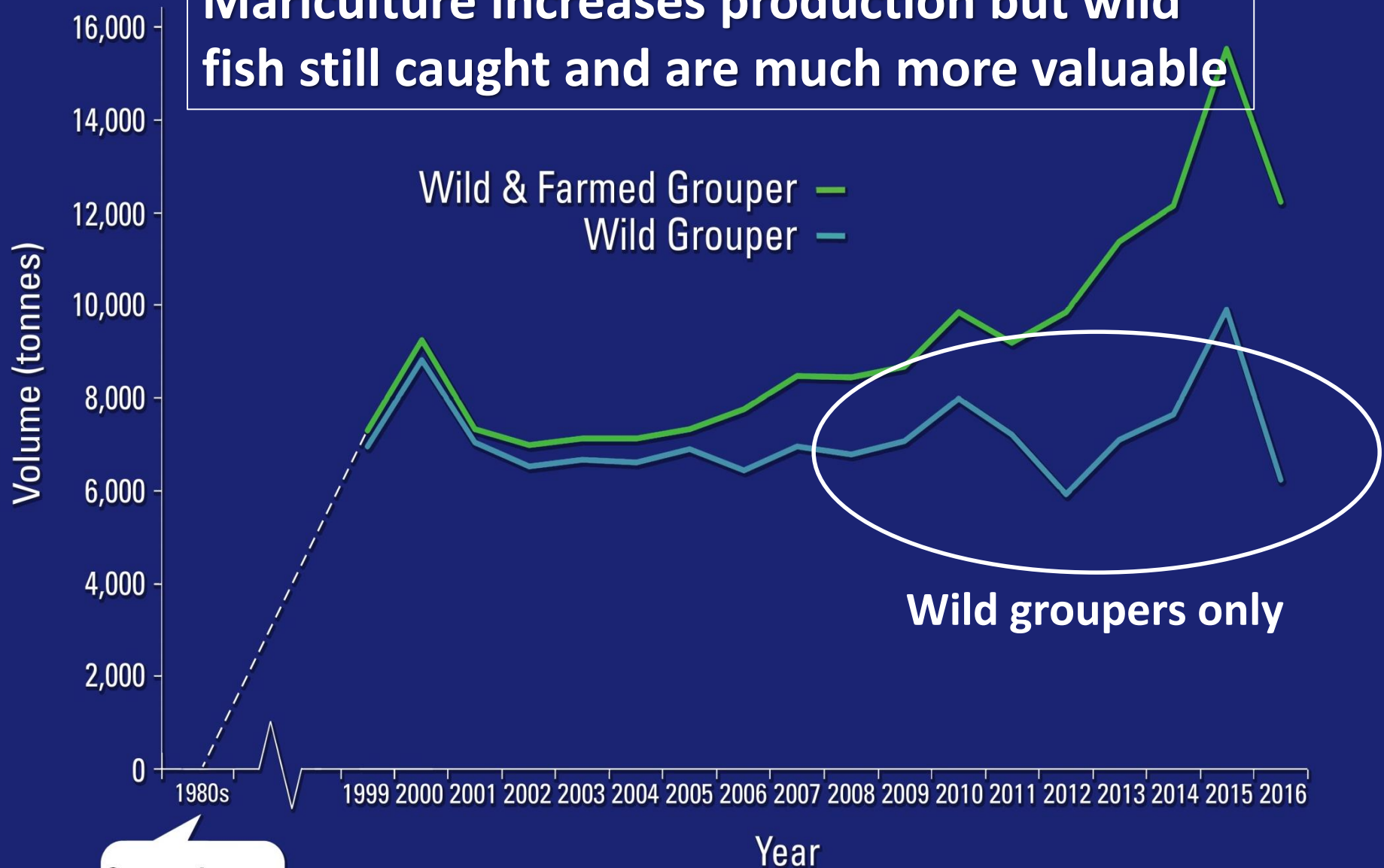
Groupers only- the most valuable reef fishes



Grouper imports
begin

Imports to Hong Kong in tonnes for wild and farmed grouper

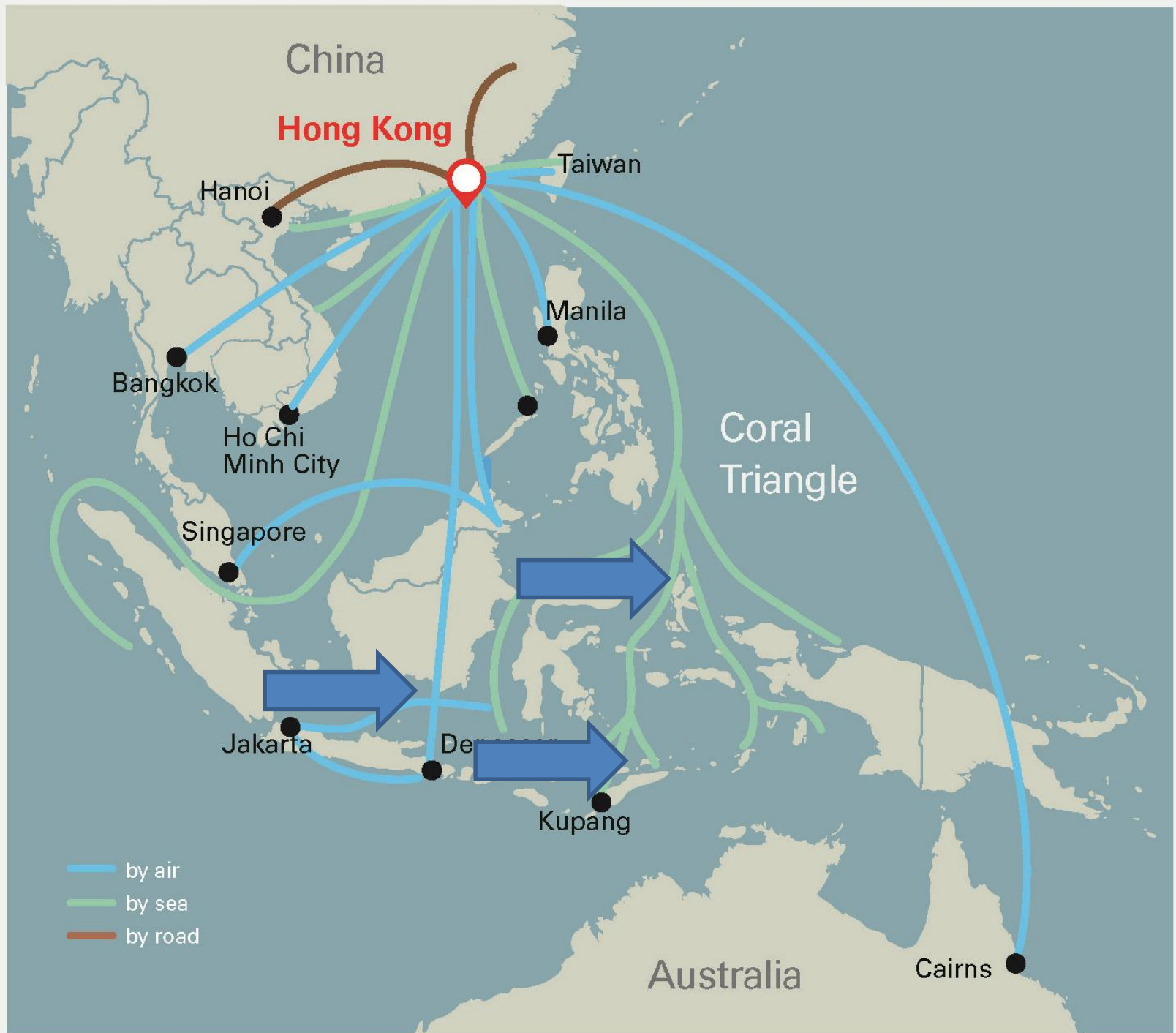
Mariculture increases production but wild fish still caught and are much more valuable



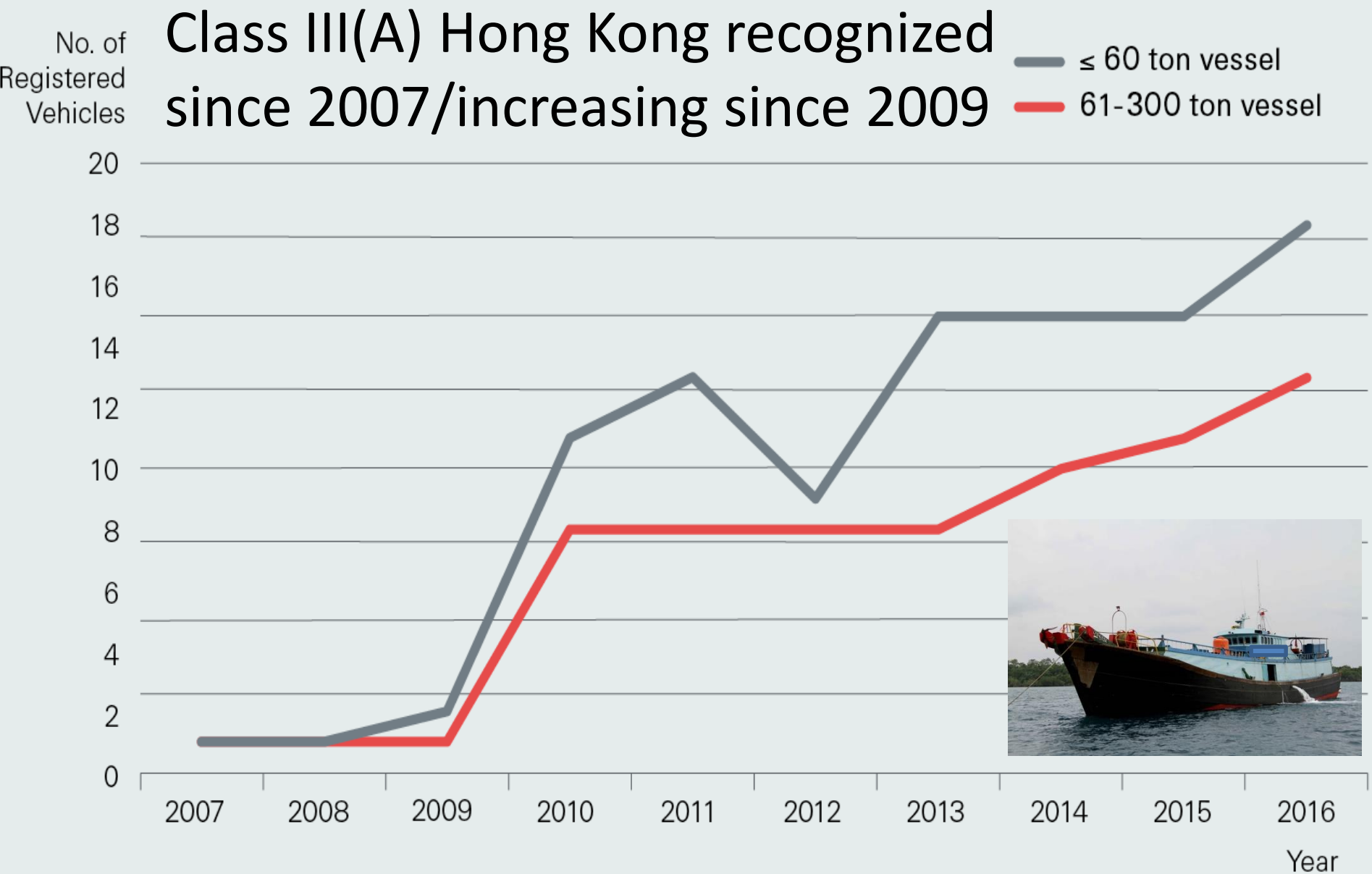
**Grouper imports
begin**

Imports to Hong Kong in tonnes for wild and farmed grouper

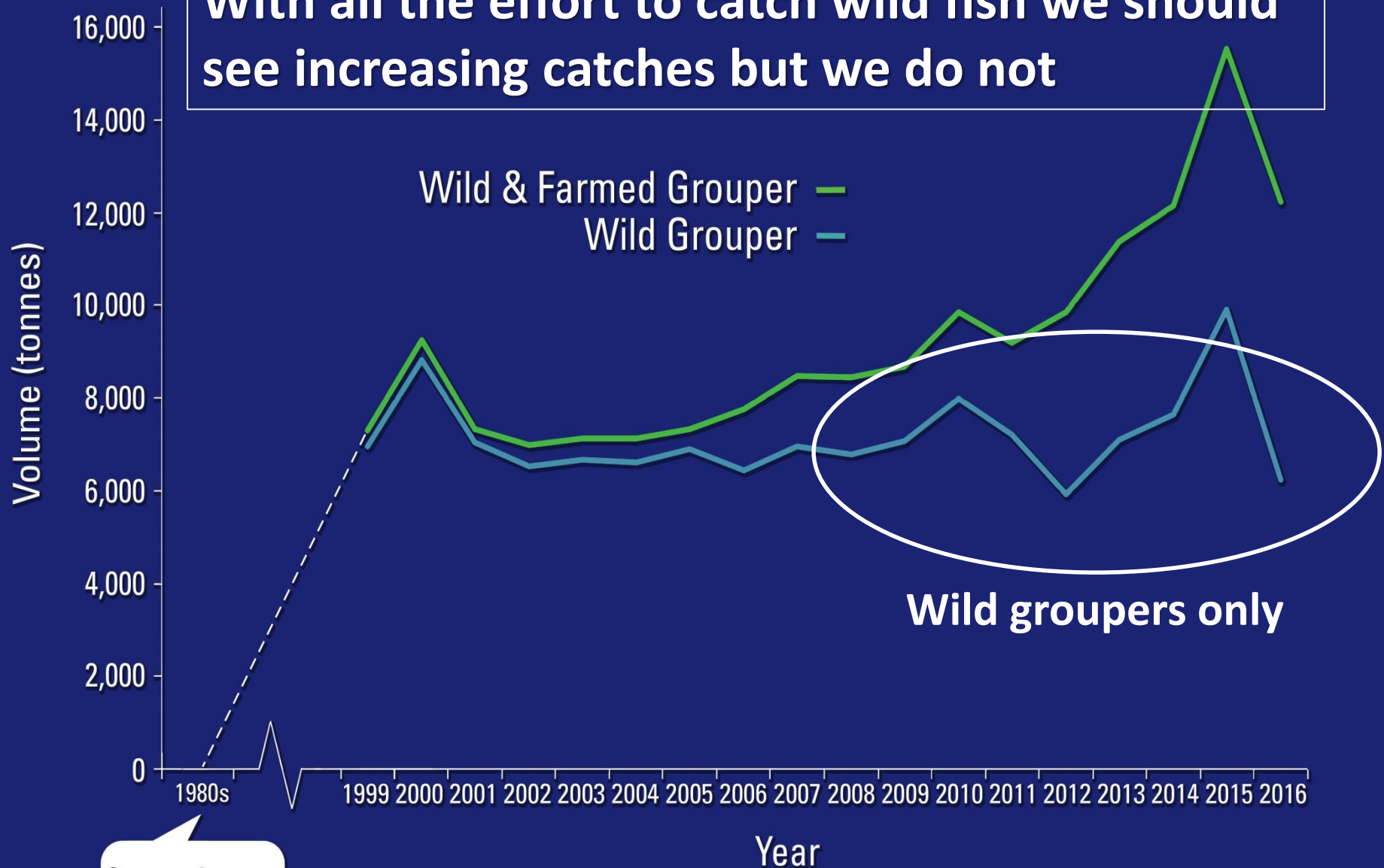




REGISTRATION OF CLASS III (A) FISH CARRIERS, 2007-2016



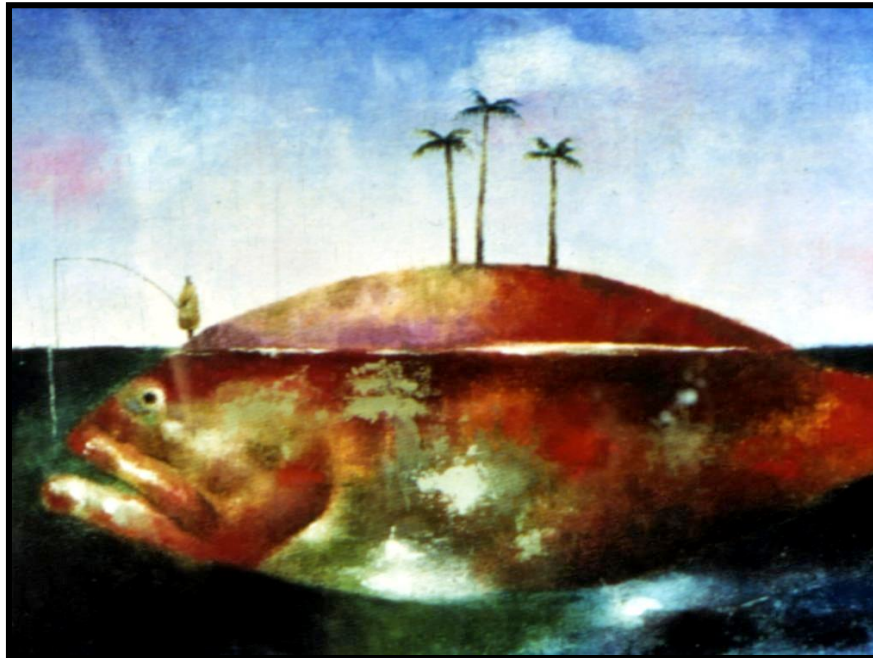
With all the effort to catch wild fish we should see increasing catches but we do not



**Grouper imports
begin**

Imports to Hong Kong in tonnes for wild and farmed grouper

Threats to wild fish populations, come from overfishing i.e. taking too many fish too quickly and taking too many juveniles for grow-out to allow sufficient reproduction



Also.....beyond live fish;
retail values increasing for chilled/frozen fishes
putting further pressure on fish populations

FROZEN REEF FISH SOLD IN MARKETS

Leopard Coralgrouper
Being Sold in China



Photos: Yvonne Sadovy (left), Allen To (middle and right), 2014



Humphead
Wrasse on Sale
in Kota Kinabalu,
Malaysia

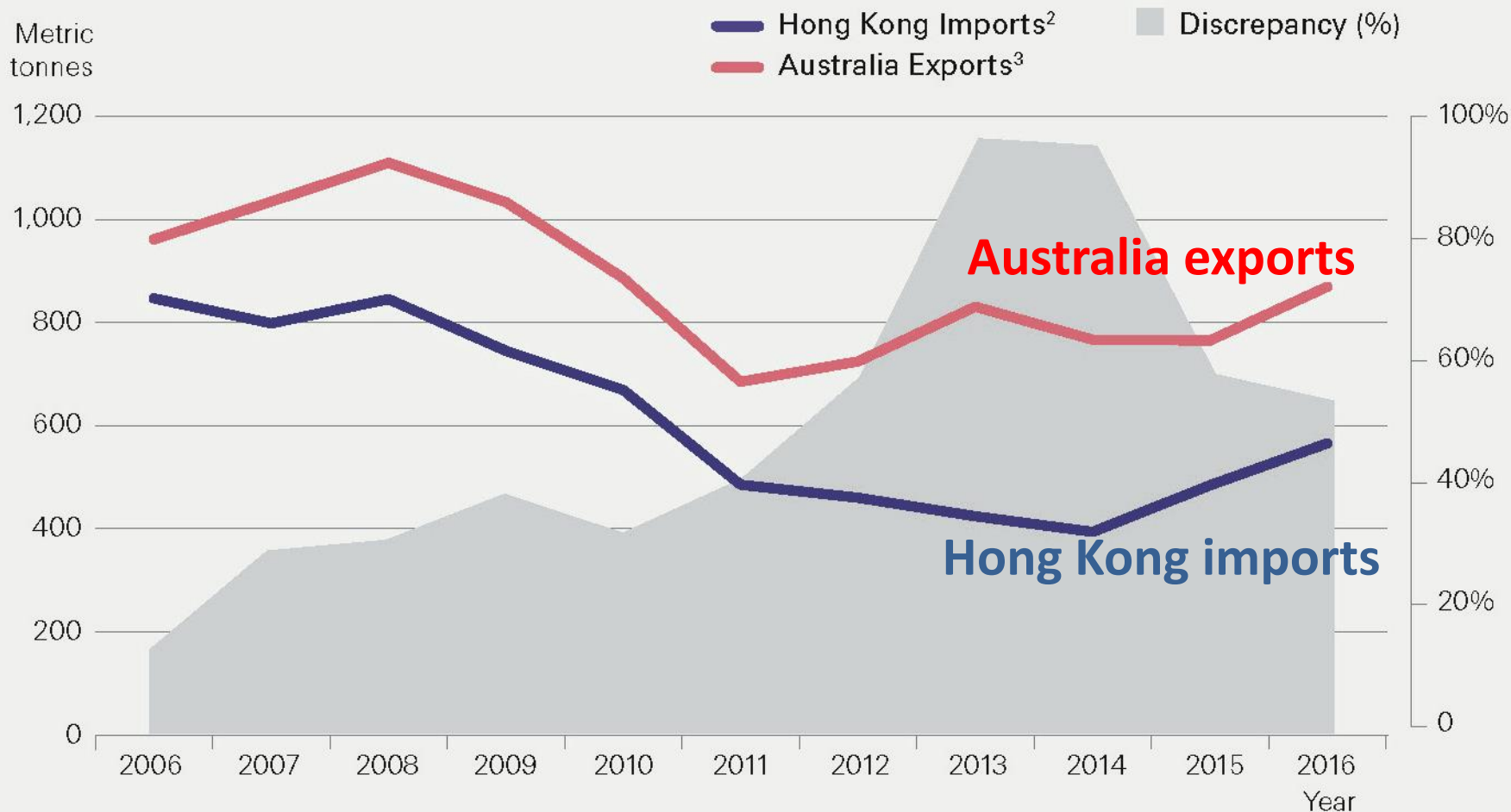


Leopard
Coralgrouper
on Sale in
Kota Kinabalu,
Malaysia

There is also much illegal and unregulated trade in high value fish. How do we know?

- * import/export trade data comparisons
 - * documented illegal loading
 - * illegal Humphead wrasse imports
 - * smuggling (re-exports)
- etc.

HONG KONG IMPORT DATA COMPARED WITH AUSTRALIA¹ EXPORT DATA, CONCERNING PRIMARILY THE LEOPARD CORALGROUPE², 2006-2016





Lots of exports over the border barely documented in official statistics (i.e. smuggling)

LIVE GROUPER IMPORTS AND RE-EXPORTS TO AND FROM HONG KONG, 1999-2016



Data source: C&SD & AFCD (HKLFV), 2017

SEAFOOD MARKETS, DEPARTURE AND ARRIVAL LOCATIONS FOR SPEEDBOATS TRANSPORTING LIVE FISH BETWEEN HONG KONG AND SHENZHEN



Wu and Sadovy de Mitcheson, 2016

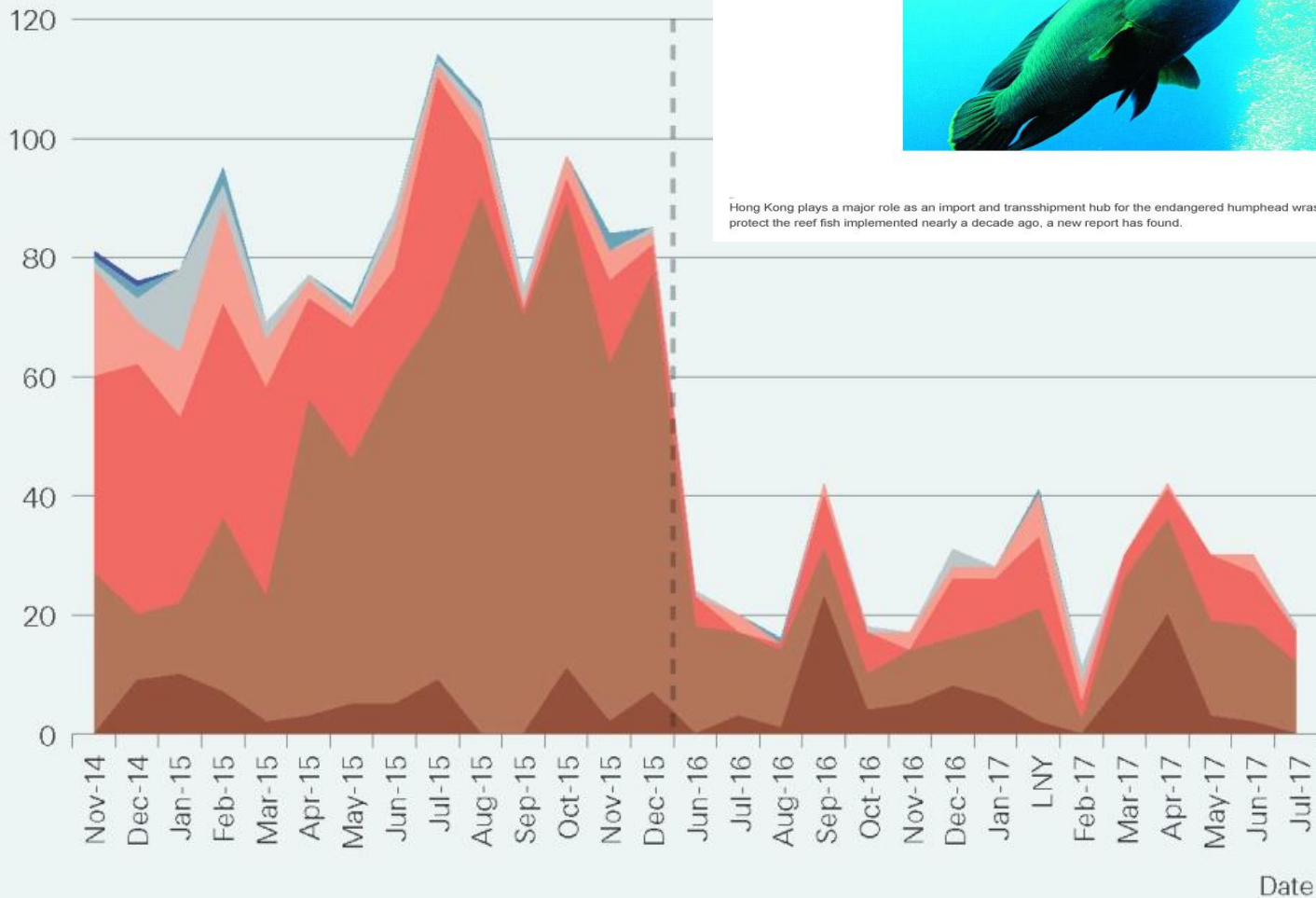


Small motor boats
regularly move fish
to the border areas
(red circles and above)

NUMBER OF HUMPHREAD WRASSES OBSERVED AT RETAIL OUTLETS IN THE THREE MAJOR SEAFOOD AREAS IN HONG KONG (LEI YUE MUN, TUEN MUN AND SAI KUNG), 2014-2017

GOVERNMENT CRACKDOWN

No. of Individuals recorded each month (separated by sizes)



South China Morning Post

Exposed: the illegal Hong Kong trade in endangered coral reef fish

Despite more than 1,000 counted on sale, no imports of the fish took place last year according to official records, exposing extent of illegal trade

PUBLISHED : Friday, 18 March, 2016, 9:30am
UPDATED : Friday, 18 March, 2016, 10:13am



Ernest Kao
186SHARE

Hong Kong plays a major role as an import and transshipment hub for the endangered humphead wrasse despite regulations to protect the reef fish implemented nearly a decade ago, a new report has found.

There are major threats to the long-term sustainability of wild fishes used in the high value reef fish trade.

These are lack of management control in source countries and lack of control on illegal trade activities by some Hong Kong based traders

There are major threats to the long-term sustainability of wild fishes used in the high value reef fish trade.

These include lack of management control in source countries and lack of control on illegal trade activities by some Hong Kong based traders



THE TRADE IN
LIVE REEF FOOD FISH

GOING GOING GONE

VOLUME 1
MAIN REPORT



Stan Shea

佘國豪



DIVE INTO A
fresh feast
of seafood
EVERYDAY!

Call 2315 1118
for bookings



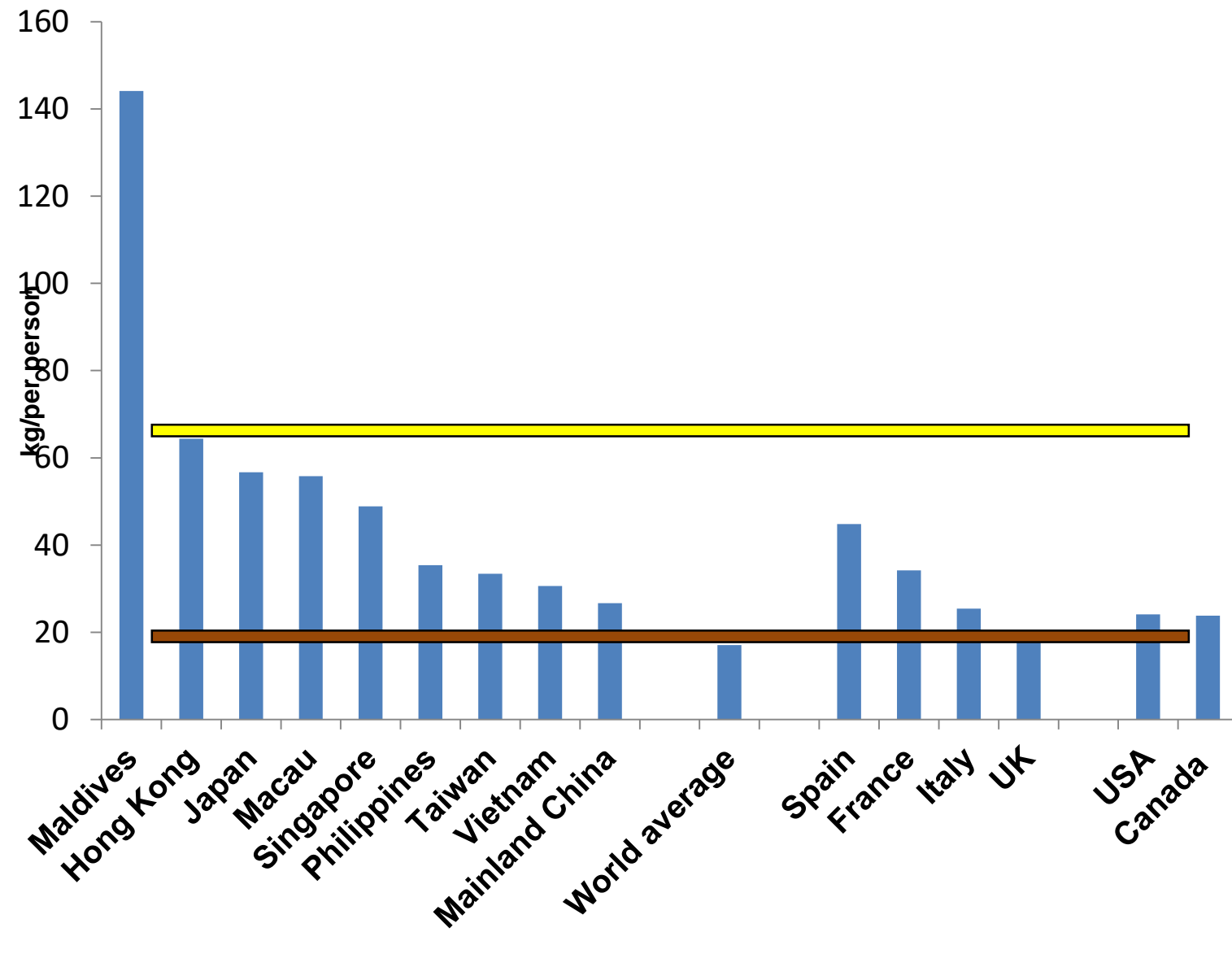
JEWELLERS

經典時錶
Classic Watches

ISTRO
ON THE MILE

Seafood consumption (annual per capita / kg)

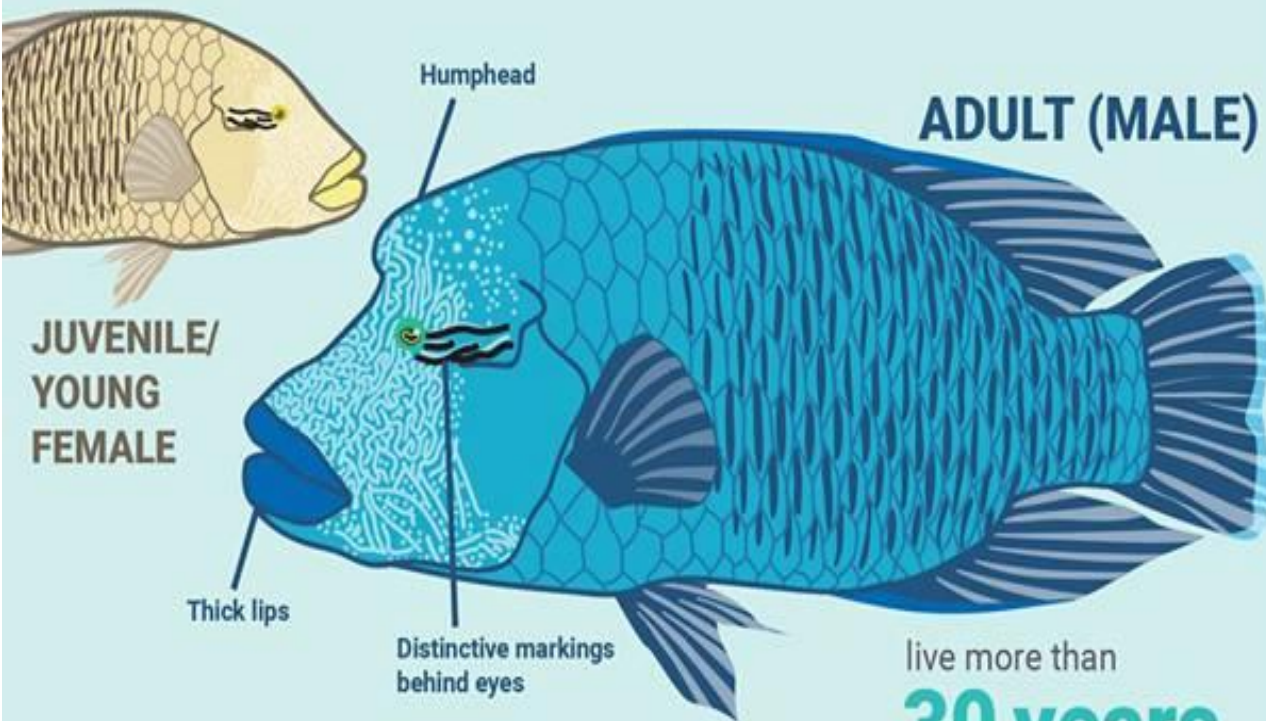
海鮮進食量 (每人每年進食量/公斤)



Humphead wrasse 蘇眉

HUMPHEAD WRASSE

a gentle ocean giant that needs our help



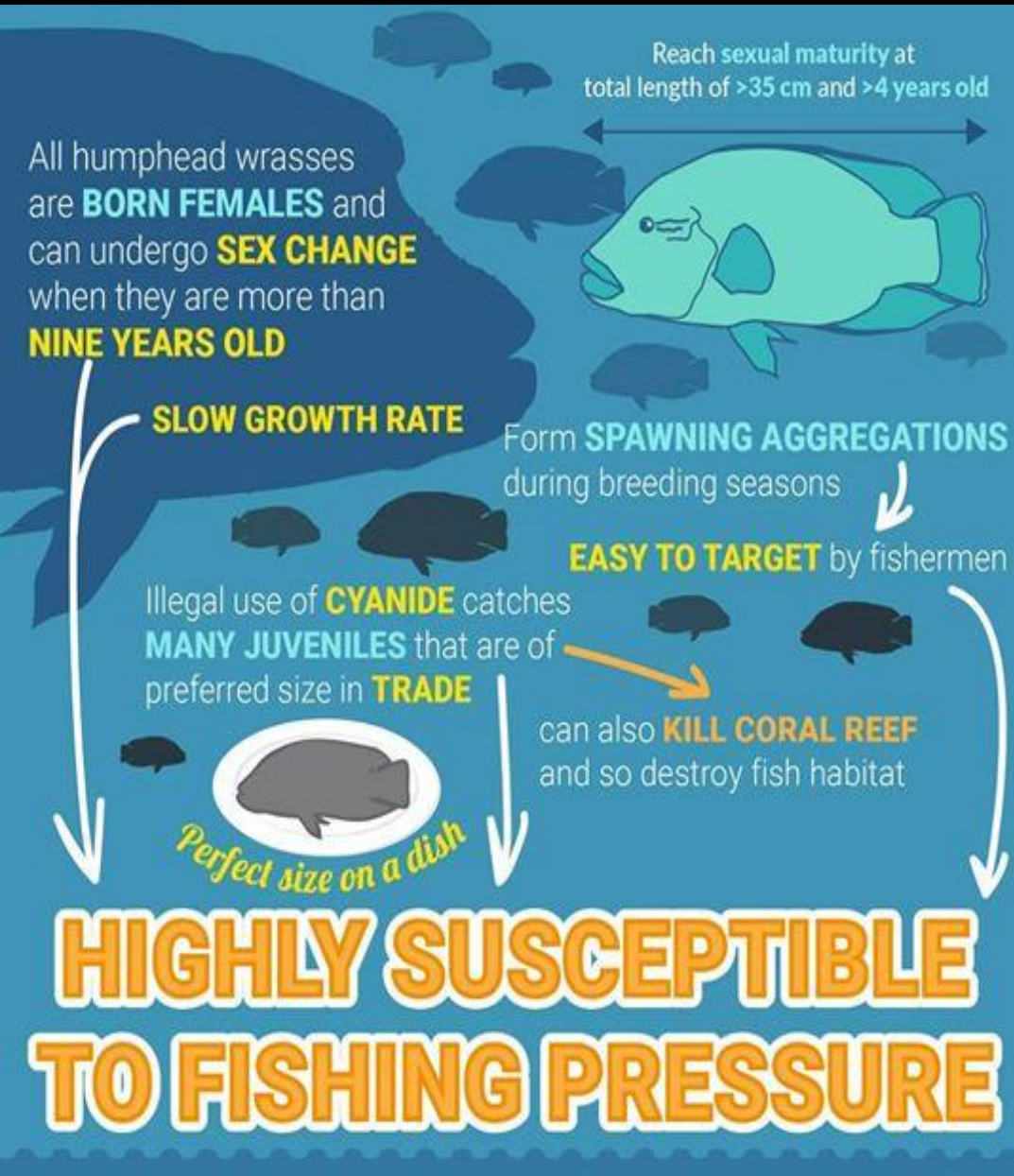
live more than

30 years

BIGGEST reef fish that can reach up to **2m** and **190kg**



Humphead wrasse 蘇眉



Humphead wrasse 蘇眉

Listed as **ENDANGERED** on the IUCN Red List, it was added to CITES Appendix II in 2004, becoming the first food fish from coral reef ecosystems to be added to the Convention on International Trade in Endangered Species (CITES).

Protected in many countries, including all French territories, which do not export this species and protect it domestically.



IUCN Redlist: Least Concern → Near Threatened → **Vulnerable** → **Endangered** → **Critically Endangered** → **Extinct in the Wild** → **EX**



Recommendations 建議

Source Countries / Territories 原產地

- Monitoring and Stock Assessment – LRFFT especially the species that are particularly overfished
- Socio-economic indicators
- Fishery management measures: Target levels of catch on indicator species; minimum sizes; export quotas
- Controls and incentives to tighten oversight of export volumes
- Promote cooperative business models and partnerships to improve productivity, environmental performance and farming practices

Recommendations 建議

Hong Kong 香港

- Update the long due law; amend the exemption of 'fishing craft' to submit customs declarations and should request all vessels must report their entry / exit to relevant department
- Expect the unexpected; increase the commodity codes on chilled / fresh / frozen LRFF and for new species entering trade
- Monitoring the trade through communications between trading countries / territories
- Labelling
- Introduction of specific landing ports

Recommendations 建議

Industries 業界

- Traders Responsible retailing; develop best practice guideline
- Increase greater transparency and traceability
- Suppliers and retailers; Adopt a voluntary industry code of conduct for responsible seafood sourcing
- Retail sector; increase pressure on suppliers by requesting verification on seafood that is sustainably, safely and legally sourced
- Air carriers: Requiring that shipment tanks or boxes have a transparent window to facilitate inspection of cargo shipment

You can do better: Hong Kong 香港加油



Who is already sourcing sustainable seafood and providing an “Ocean Friendly Menu”?

The following hotels/restaurants are now sourcing sustainable seafood and offering an “Ocean Friendly Menu” according to the WWF Seafood Guide. Click on the name of restaurant to view its menu*:

Hong Kong Island

Café Gray Deluxe

Address: Level 49, The Upper House, Pacific Place, 88 Queensway, Hong Kong

Tel: 3968 1106

Menu: A-la-carte

City Hall Maxim's Palace

Address: 2/F, Low Block, City Hall, Central, Hong Kong

Tel: 2521 1303

Menu: Banquet

Congress Plus

Address: Level 4, HKCEC, 1 Harbour Road, Wanchai, Hong Kong

Tel: 2582 7250

Menu: A-la-carte

Hong Kong Football Club

Address: 3 Sports Road, Happy Valley, Hong Kong

Tel: 2830 9500

Menu: A-la-carte

Jade Garden

Address: 3/F, Causeway Bay Plaza 2, 463-483 Lockhart Road, Causeway Bay, Hong Kong

Tel: 2573 9339

Menu: Banquet

Jasmine Place

Address: Shop 5, LG/F, Jardine House, Central, Hong Kong

Tel: 2521 5000



哪裡已採購環保海鮮及推廣「環保海鮮菜單」?

以下食肆已加入本計劃，開始採購環保海鮮，並根據「海鮮選擇指引」設計「環保海鮮菜單」供市民選擇。點擊餐廳名稱以查看菜單*

香港島

Café Gray Deluxe

地址: 香港金鐘道 88 號太古廣場奕居 49 樓

電話: 3968 1106

菜單類別: 一般菜式

大會堂美心皇宮

地址: 香港中區大會堂低座 2 樓

電話: 2521 1303

菜單類別: 宴會

You can do better: Hong Kong 香港加油

[海鮮何價](#)[識買識食](#)[可免則免](#)[最新消息](#)[ENGLISH](#)

提供環保海鮮的食肆



環保海鮮飲食

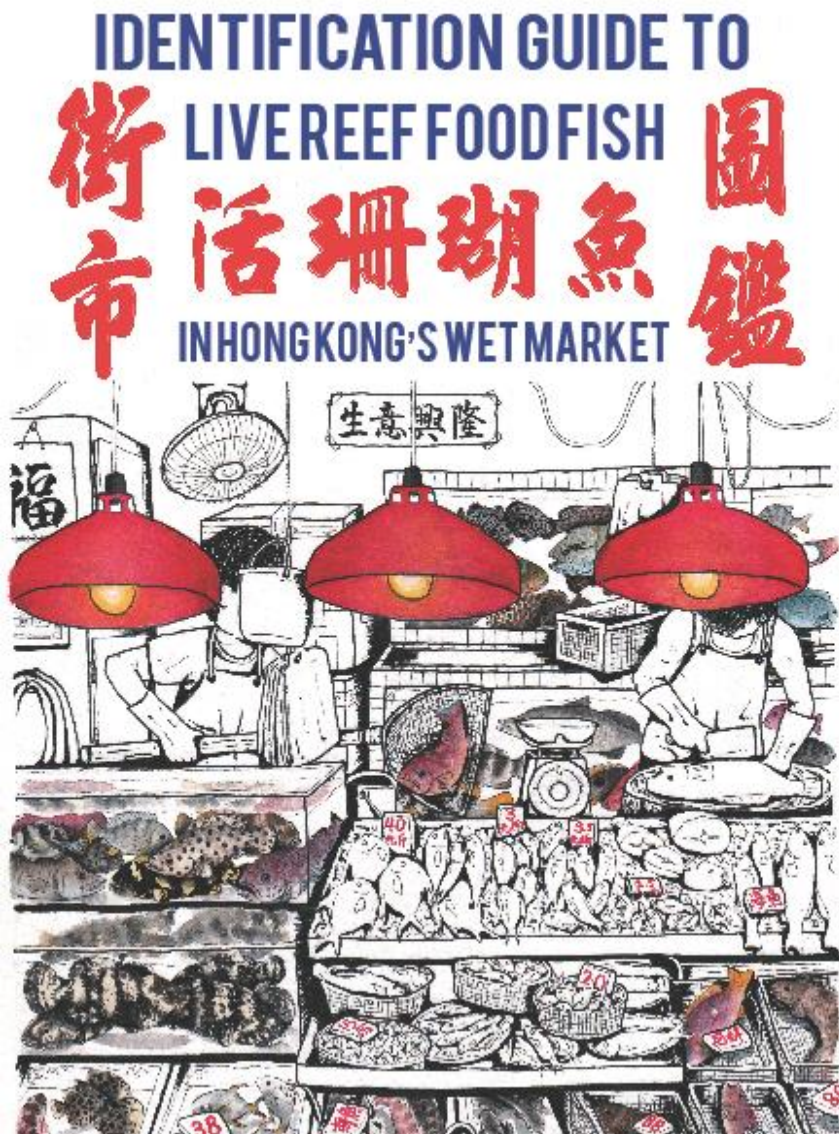
本指南旨在為香港市民介紹提供環保海鮮的餐廳。

食肆包括只選用環保海鮮的餐廳，亦包括部分菜色以環保海鮮製作的餐廳。由於食材供應及餐單時有變動。我們鼓勵你向餐廳職員查詢現有環保海鮮的選擇。如不確定該菜色是否選用環保海鮮，可以參考 [WWF海鮮選擇指引](#) 或 [WWF海鮮選擇指南](#)。

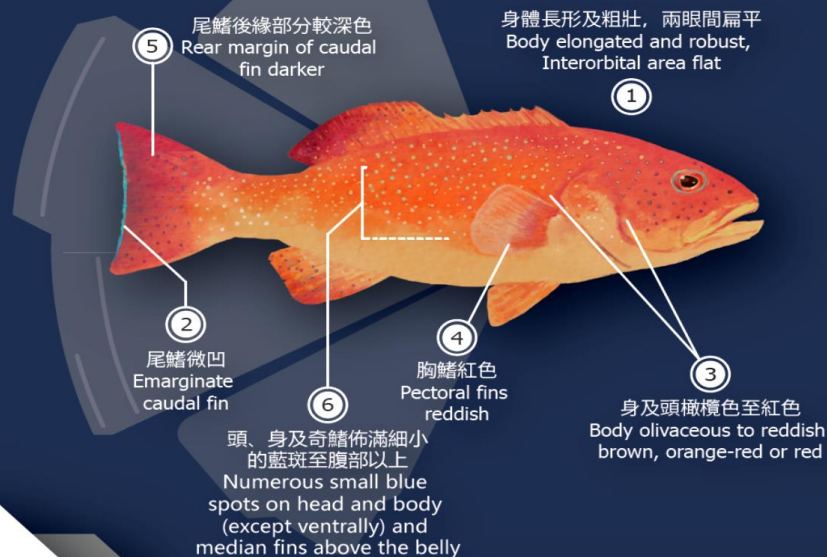
[篩選 - 所有文章](#)[亞洲菜](#)[小酒館](#)[中式料理](#)[中式點心](#)[中式Fusion菜](#)[法式料理](#)[健康快餐](#)[國際美食](#)[意大利菜](#)[日式料理](#)[龍蝦吧](#)[墨西哥菜](#)[現代中菜](#)[現代北歐料理](#)[有機料理](#)[秘魯料理](#)[薄餅](#)[海鮮](#)[西班牙料理](#)[扒房](#)[西餐](#)

我們致力核實指南內食肆所提供的都屬環保海鮮，但未能保證我們所得的資訊沒有偏差。這裡的資訊現階段亦非詳盡無遺，但可算是向香港市民推廣環保海鮮的重要第一步。如希望我們加入其他提供環保海鮮的食肆資訊，請[告訴我們](#)。

You can do better: Hong Kong 香港加油



身體特徵
Body characteristics



海鮮選擇指引評級
Seafood Guide
assessment



建議選擇
Recommended choice



避免選擇
Choices to be avoided

Distribution 分佈



Happy Chinese New Year



免
收加一服務費

海鮮宴

任選其中4款

優惠 2 人世界 \$388

芝土中蝦伊麵底
清蒸海上鮮
白灼海生蝦
清蒸鮑魚仔
蒜茸粉絲蒸元貝
薑蔥焗海蟹
豉椒炒蠔子
豉椒炒蜆
燒味雙拼
椒鹽焗鮮魷
菠蘿咕嚕肉
奉送清炒時蔬一碟

任選其中5款

優惠4人套餐 \$788

芝士波龍伊麵底
清蒸海上鮮
白灼海生蝦
清蒸鮑魚仔
蒜茸粉絲蒸元貝
薑蔥焗海蟹
豉椒炒蜆子
豉椒炒蜆
燒味雙拼
椒鹽焗鮮魷
菠蘿咕嚕肉
奉送清炒時蔬一碟

6 位

六人精美海鮮套餐

西貢靚時菜
揚州炒飯
椒鹽焗鮮魷
薑蔥焗海蟹
蒜香粉絲蒸元貝
芝士波龍伊麵底
清蒸海上鮮
白灼游水海蝦

特價 \$1380

8位

八仙過海餐

揚州炒飯
西貢靚時菜
金牌鹽焗雞
薑蔥焗海蟹
清蒸海上鮮
豉椒炒蠔子
芝士波龍伊麵
蒜香粉絲蒸元貝
果皮蒸生鮑魚
白灼游水海蝦

特價 \$2280

12位

良朋暢聚海鮮餐

粟米魚肚羹
揚州炒飯
西貢靚時蔬
金牌鹽焗雞
清蒸海石斑
豉椒炒細鯉子
椒鹽焗鮮魷
芝士波龍伊麵
避風塘炒蟹
白灼生海蝦

特價 \$2380

12位

金玉滿堂海鮮餐

海鮮菜粒炒飯
西貢靚時菜
金牌鹽焗雞
龍皇海鮮湯
清蒸海石斑
芝士波龍伊麵
蒜香粉絲蒸元貝
果皮蒸生鮑魚
椒鹽尿蝦皇
白灼生海蝦

特價 \$2880



生力啤酒
真正朋友



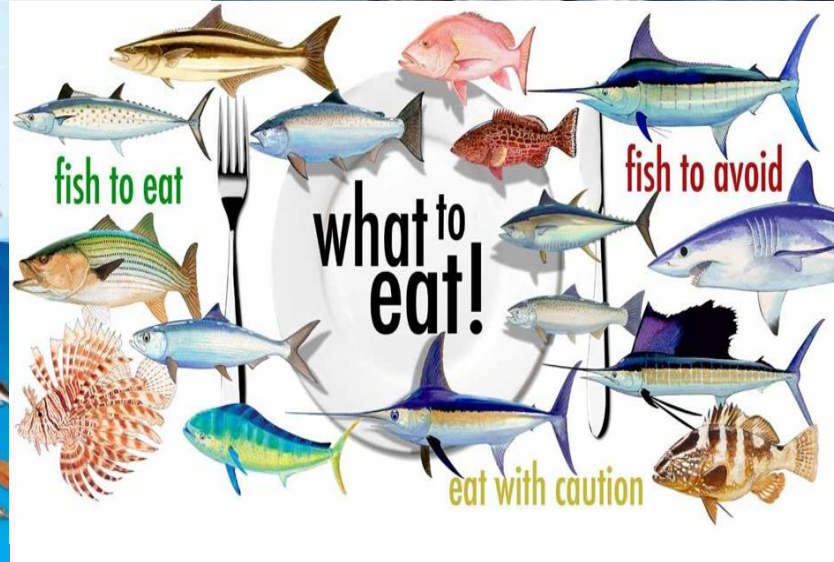
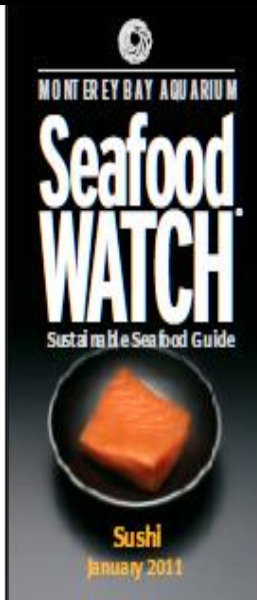
San Miguel

PAT

PREF

Picky eaters

揀魚擇食



“ Their biology, long lives, reproductive styles (aggregation spawning and sex change) meant that
**THEY WERE EASY TO CATCH AND IF FISHERMEN TOOK TOO MANY FISH
TOO QUICKLY THEIR POPULATIONS WOULD DECLINE** ”
because they could not produce enough baby fish to replace those lost to fishing.

- Yvonne J. Sadovy de Mitcheson
Co-Chair of the IUCN World Conservation Union
Specialist Group on Groupers and Wrasses



年年有
may you
have a
prosperous
new year



願年年有
「魚」

“I don’t want to
be
remembered as
the generation
that ate it
ALL...”

Acknowledgement

ADMCF

Dr. Allen To

Bertha Lo (ADMCF)

Cassandra (Communiqué)

Ellie Appleby (ADMCF)

Emily Botsford

Felix Chan

HKU Fish Lab.

Jacqui (Communiqué)

Karishma (Communiqué)

Kathleen Ho

Lisa Genasci (ADMCF)

Loby Hau

Sam Gor (ADMCF)

Sophie le Clue (ADMCF)

Prof. Yvonne Sadovy

Questions & Answers

Should you have further questions, please kindly contact
stanleyshea@bloomassociation.org

