Globalization, subsidies, illegal fishing and developing countries

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Outline of talk

- Globalization & fish trade;
- Fishing access to developing country EEZs as fisheries subsidies;
- Illegal fishing;
- How to support developing country coastal communities, and protect fish stocks.

Globalization

- A process characterized by the trade of goods and services leading to a less parochial world (Ellwood, 2001);
- Key elements of globalization include the increasing flows of
 - Money; material; information; and people across national boundaries (Vincent, Marsden and Sumaila, in press).
- "... the removal of barriers to free trade and closer integration of national economies .." (Stiglitz, 2002).

The positive side of globalization

- Comparative advantage & specialization;
- Increasing wealth implies more spending on the environment;
- Global organizations can help, e.g., the WTO & subsidies disciplines;
- Diffusion of environmentally friendly technologies & practices;
- Positive use of modern communication technology.

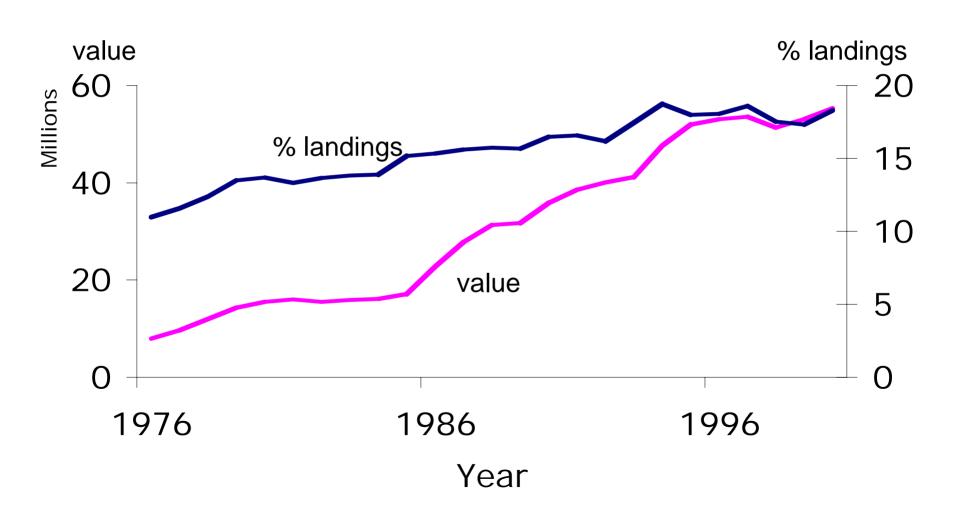
The negative side of globalization

- High production & consumption, implies depletion of natural resources when management is ineffective;
- "Race to the bottom" phenomena;
- Full cost of trade is not internalized;
- Weak bargaining power:
 - between developed and developing countries;
 - within developing countries.

Global trade in fish & fish products

- ~ 40% of fish produced are exported;
- ~ 20% wheat & 5% of rice are exported;
- Exports in 2000 : 26 million tonnes of product worth 55 million USD;
- Imports: 27 million tonnes worth 61 million USD.

Marine fish exports

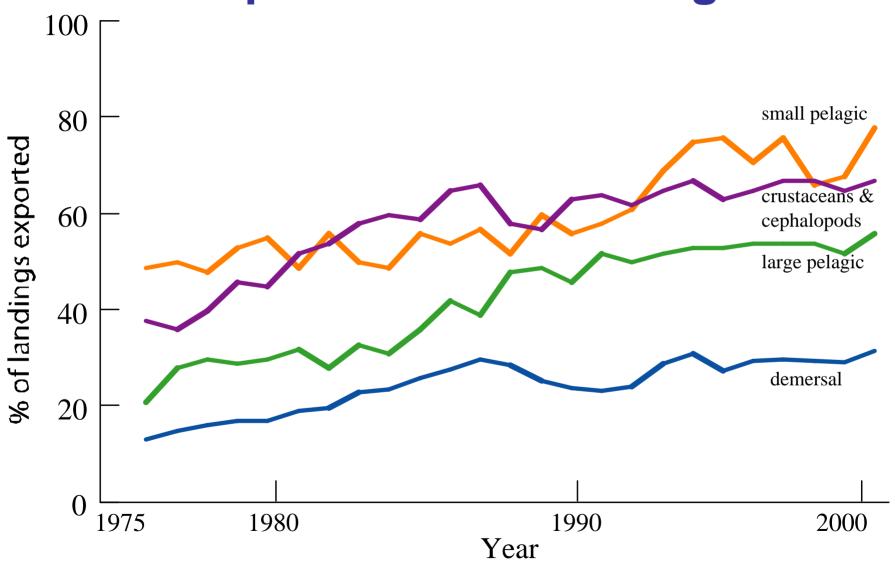


Marine capture fish trade

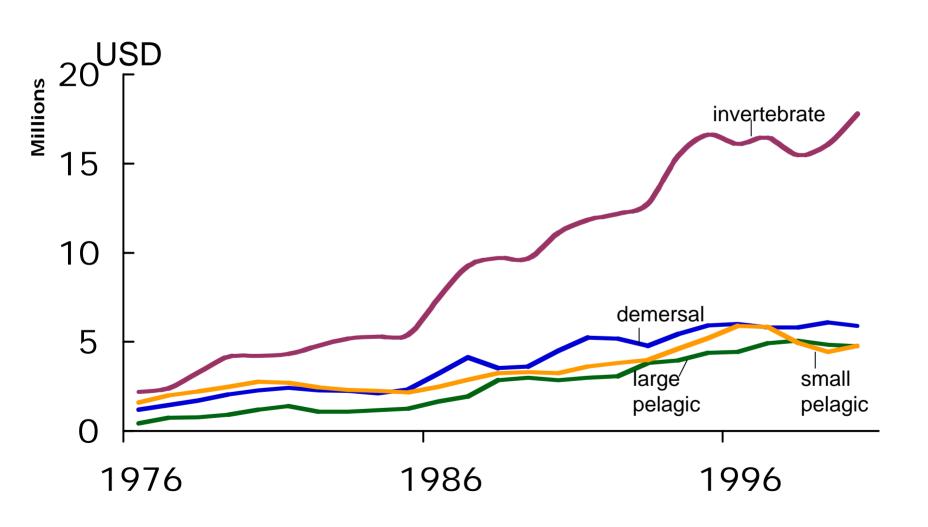
- Demersal "whitefish";
- Large pelagic "tuna";
- Small pelagic fishmeal, fish oil and cheap protein;
- Invertebrate crustaceans* and cephalopods.

Using FAO's Commodities Database

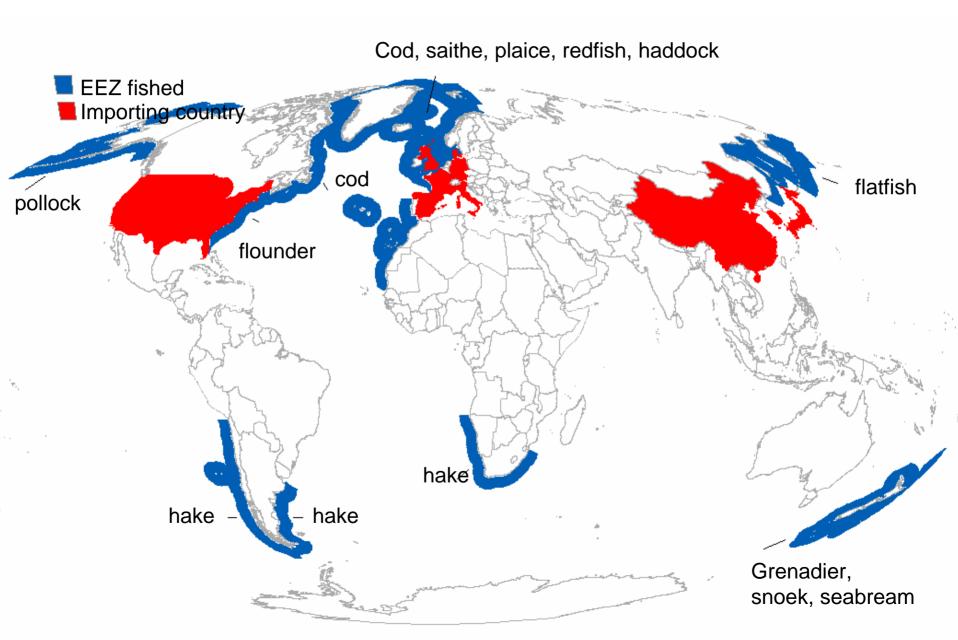
Exports in % of landings



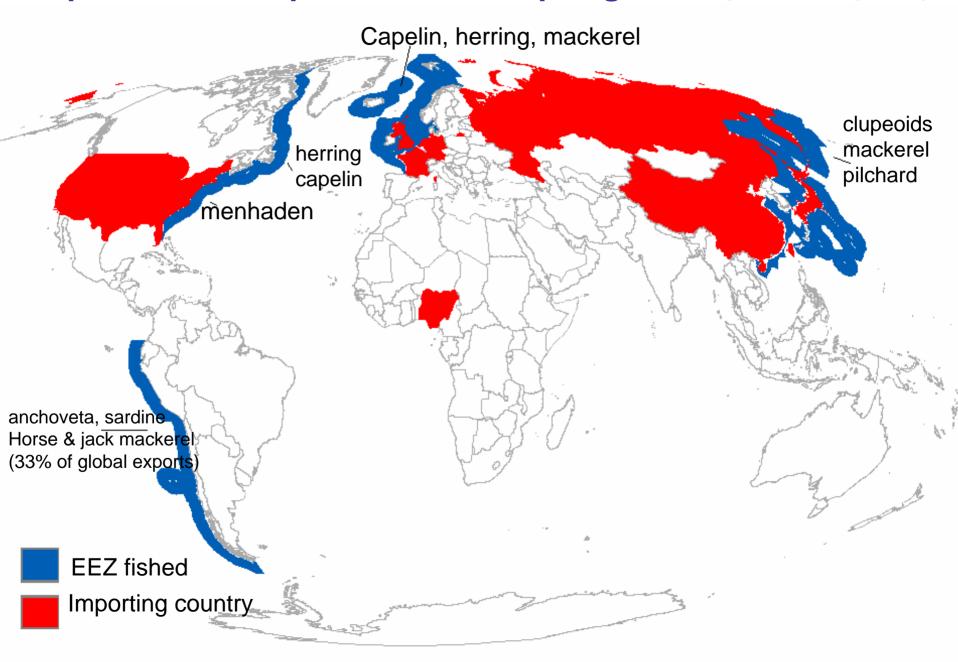
Exports in value



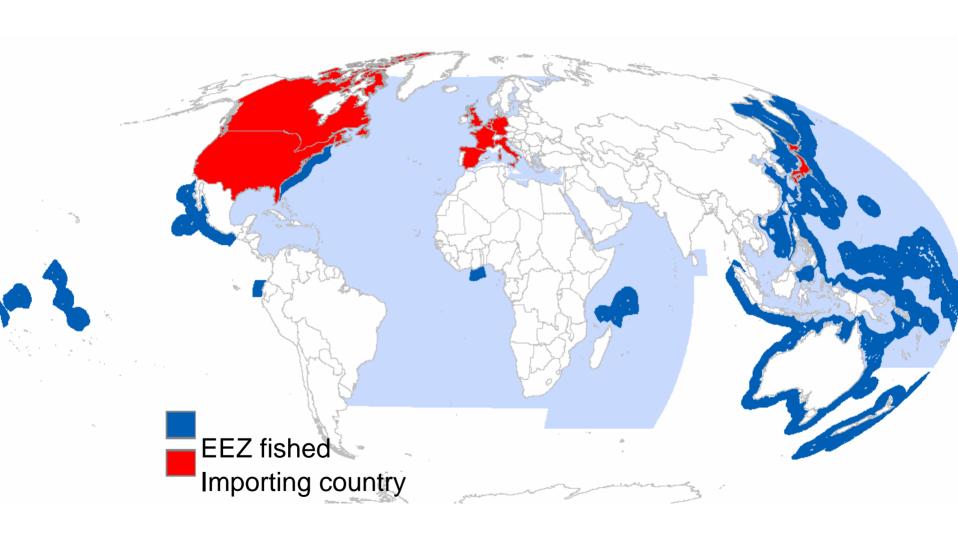
Exporters and importers of demersal fish (83% of exports)



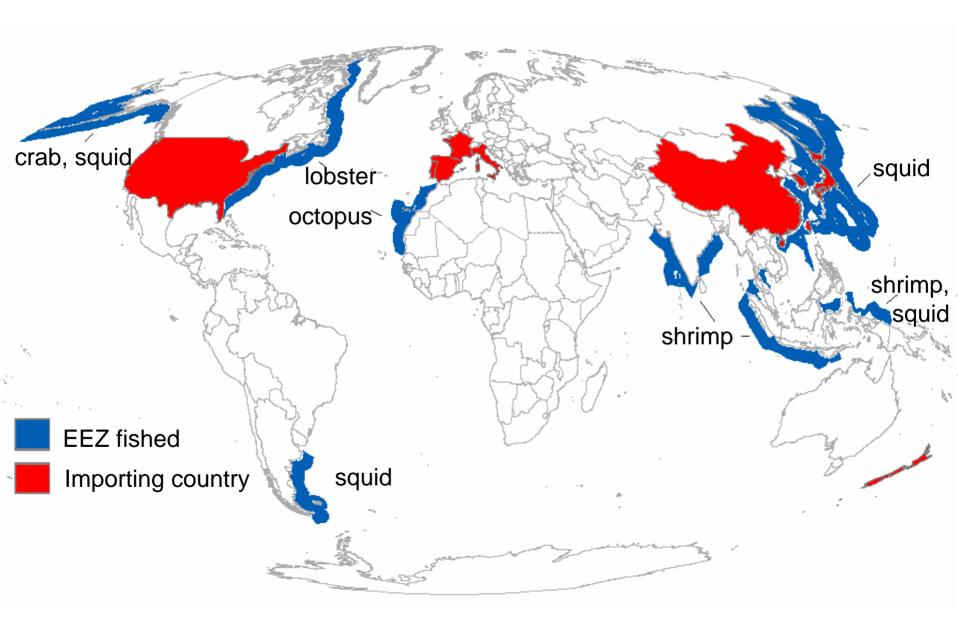
Exporters and importers of small pelagic fish (92% of exports)



Exporters and importers of large pelagic fish (62% of exports)



Exporters and importers of invertebrates (62% of exports)



Bottom line

- Fish is imported from countries in South to countries in the North;
- Is this good or bad?

Definition of fisheries subsidies

Fishery subsidies are financial payments from public entities to the fishing sector, which helps the sector make more profit than it would otherwise.





www.reefbase.org

Why the concern about subsidies?

- Subsidies are substantial and have to be paid by someone – the tax payer;
- Global estimates:
 - FAO estimate: US\$54 billion annually;
 - World Bank estimate by Milazzo in 1998 was US\$ 14-20 billion per year;
 - Re-estimated in this work to be between \$30-34 billion annually.

Why the concern about subsidies?

- Subsidies have socio-economic, distributional and trade impacts on fishing communities, regions and countries;
- Fisheries subsidies recognized world wide as contributing to overfishing.



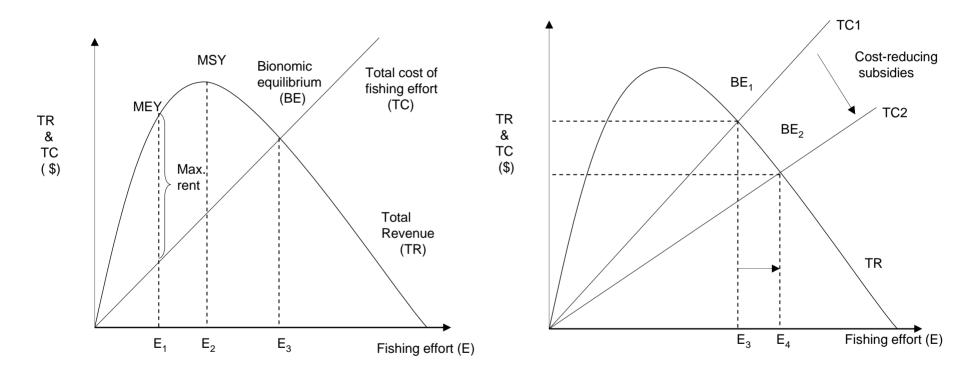
NOAA





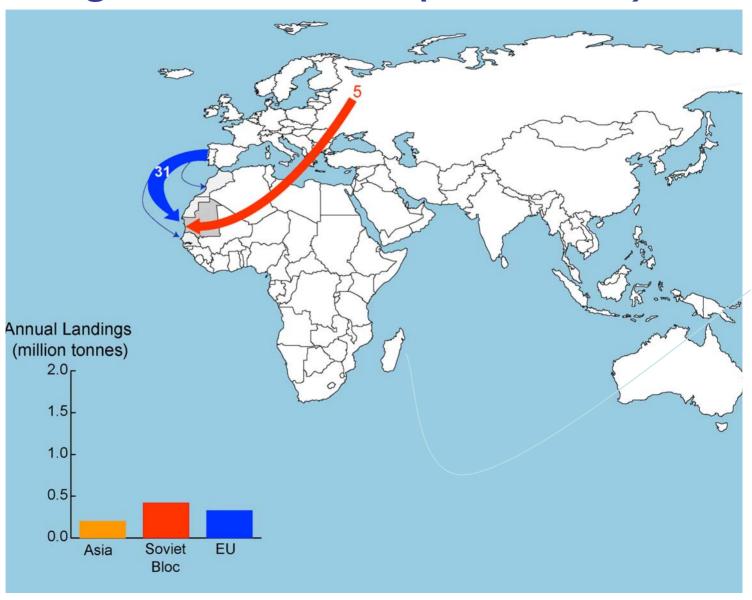
http://www.terradaily.com

How subsidies induce overfishing

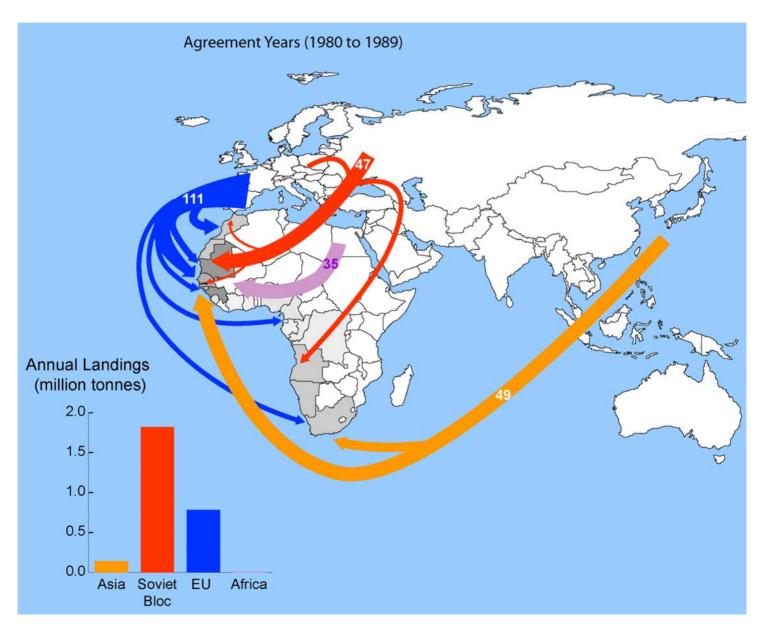


Gordon Schaefer bioeconomic model

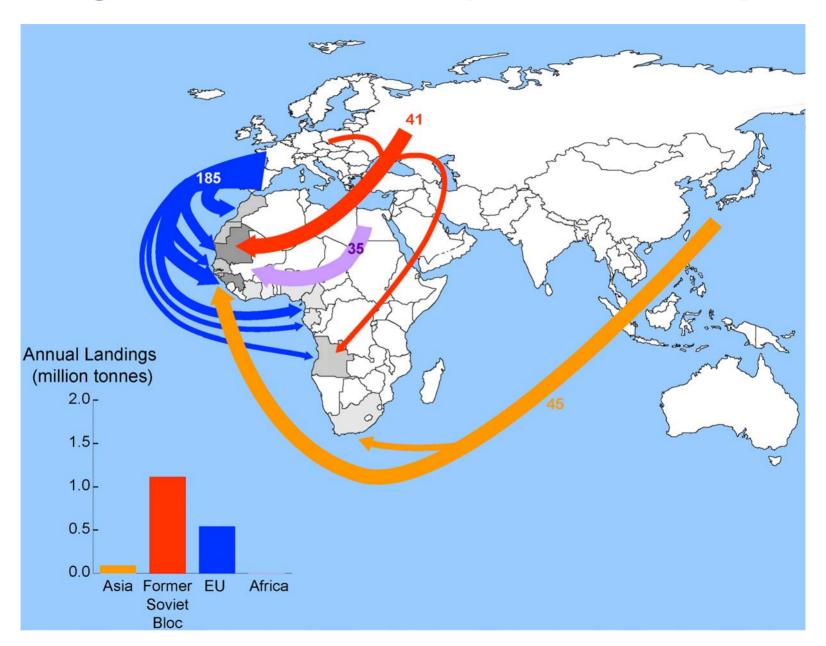
DWF Access to West African Waters Agreement Years (1960-1969)



Agreement Years (1980 – 1989)



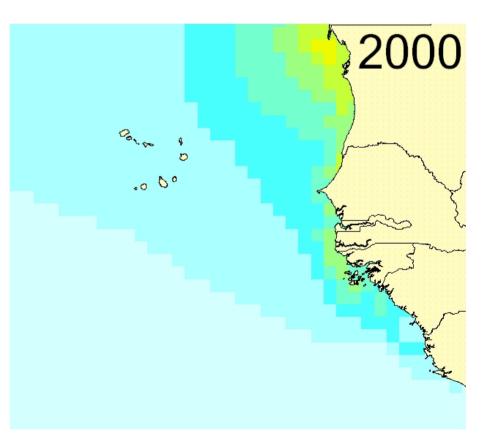
Agreement Years (1990 – 1999)



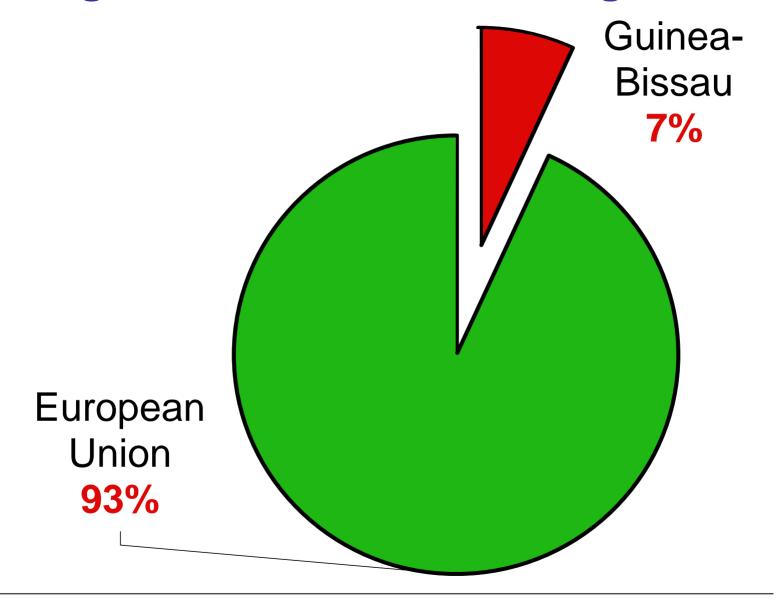
1960 > 5.0 < 5.0 < 4.0 < 3.0 < 2.0 < 1.5 < 1.0 < 0.5 < 0.4 < 0.3 < 0.2 < 0.1

Christensen et al. (2002). Dakar Conference Proceedings

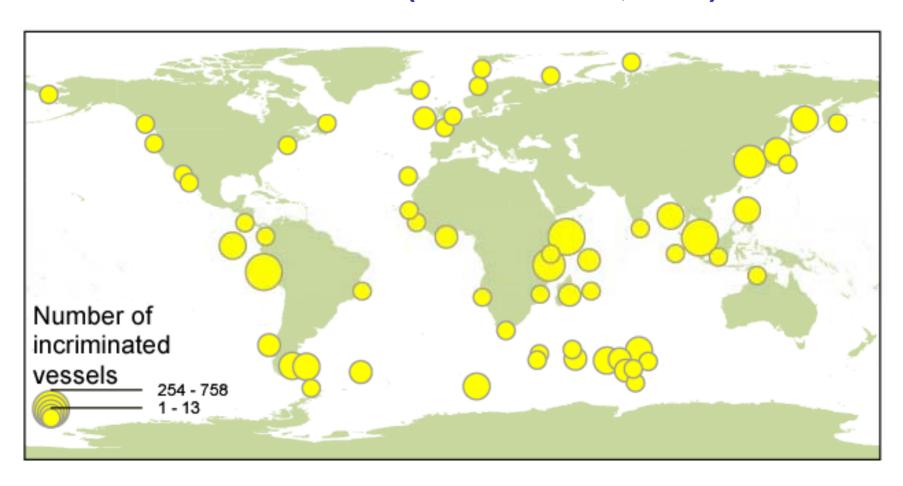
Biomass



Sharing the benefits of access agreements?



A map of global illegal fishing incidence (Sumaila et al., 2004)



Helping developing countries

- Improve management institutions;
 - Increase fisheries knowledge;
 - Put in place cost effective monitoring, control and surveillance (MCS) through joint efforts;
- Form regional bodies to help negotiate good deals with DWF nations;
- Work with coastal communities to set aside marine protected areas – an insurance!
- Education, education, education!

Acknowledgments

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Thanks for your attention



