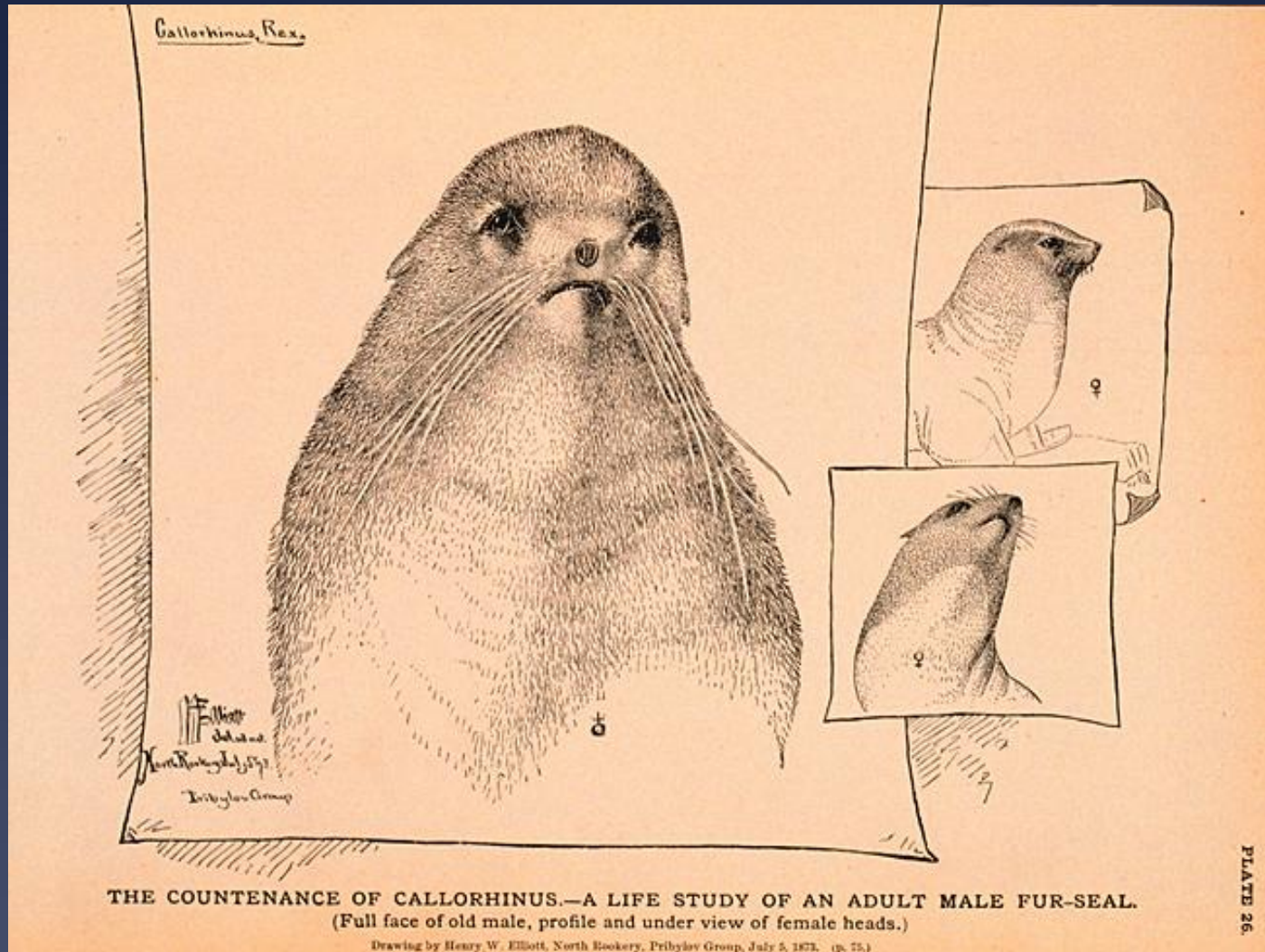
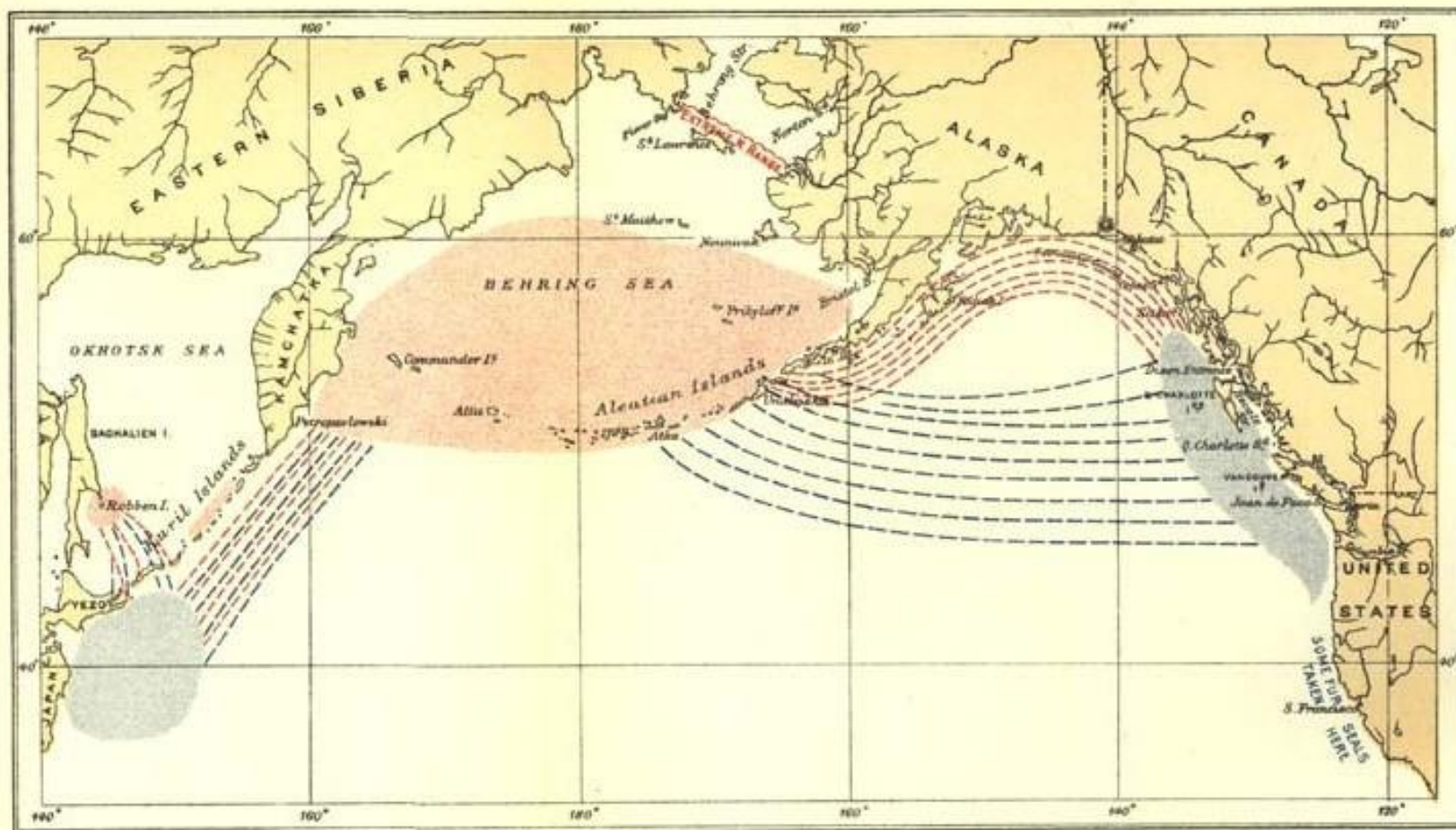


INTERNATIONAL ENVIRONMENTAL COOPERATION IN THE 21ST CENTURY





SCOTT BARRETT
JOHNS HOPKINS UNIVERSITY
SCHOOL OF ADVANCED INTERNATIONAL STUDIES

North Pacific Fur Seal





No. 2. SKETCH MAP ILLUSTRATING RESORTS AND MIGRATION ROUTES OF FUR SEALS IN THE NORTH PACIFIC.

-  SUMMER HABITATS
 WINTER HABITATS.
 NORTHERLY MIGRATION ROUTES IN EARLY SUMMER
 SOUTHERLY MIGRATION ROUTES IN AUTUMN.

(NOTE.—THE SUMMER HABITATS OF SEALS IN THE VICINITY OF ROSSEN ISLAND AND THE KURILE ISLANDS ARE MERELY INDICATED AS THEY CANNOT BE DEFINED.—)

North Pacific Fur Seal Treaty 1911



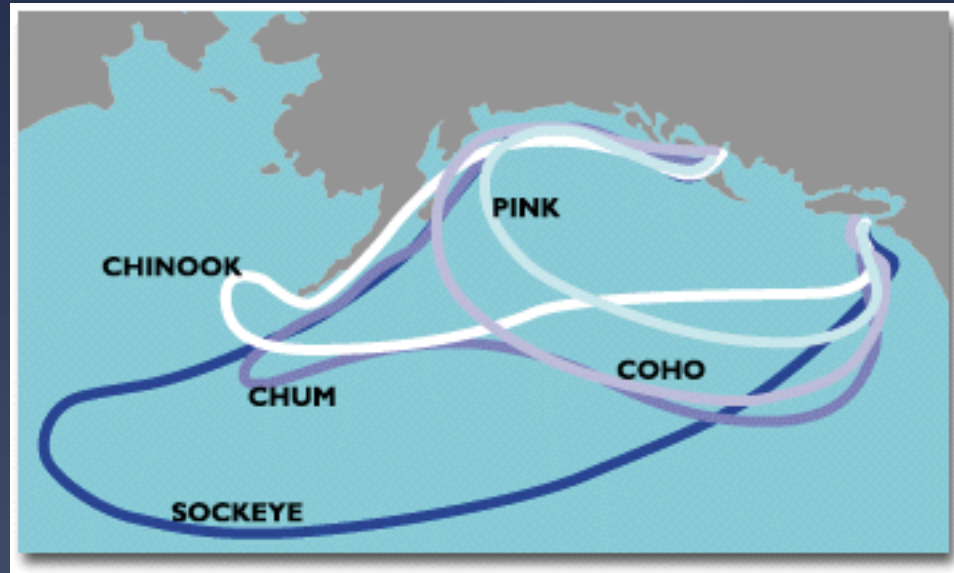
Recipe for Success

1. Banned pelagic sealing.
2. Redistributed the take.
3. Enforced participation.
4. Enforced compliance.
5. Deterred entry.



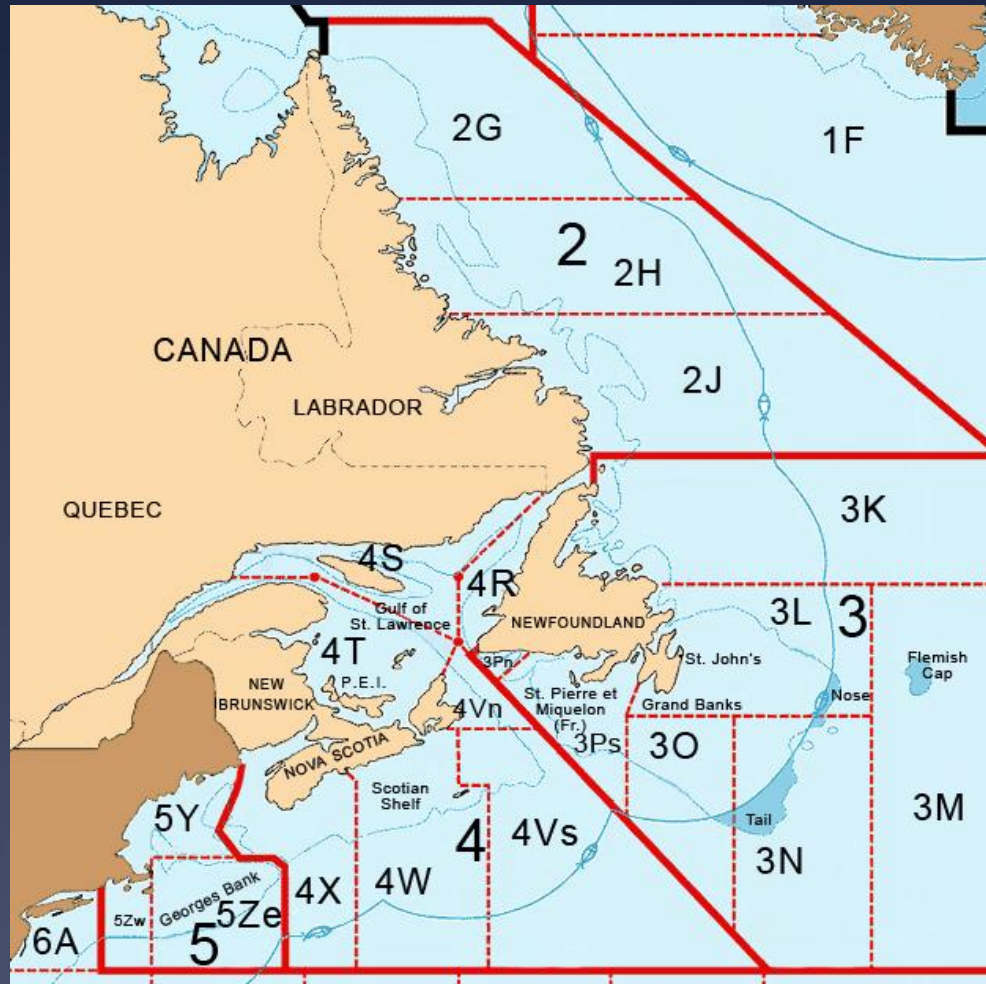
Changed
the rules of
the game.

Anadromous fishes



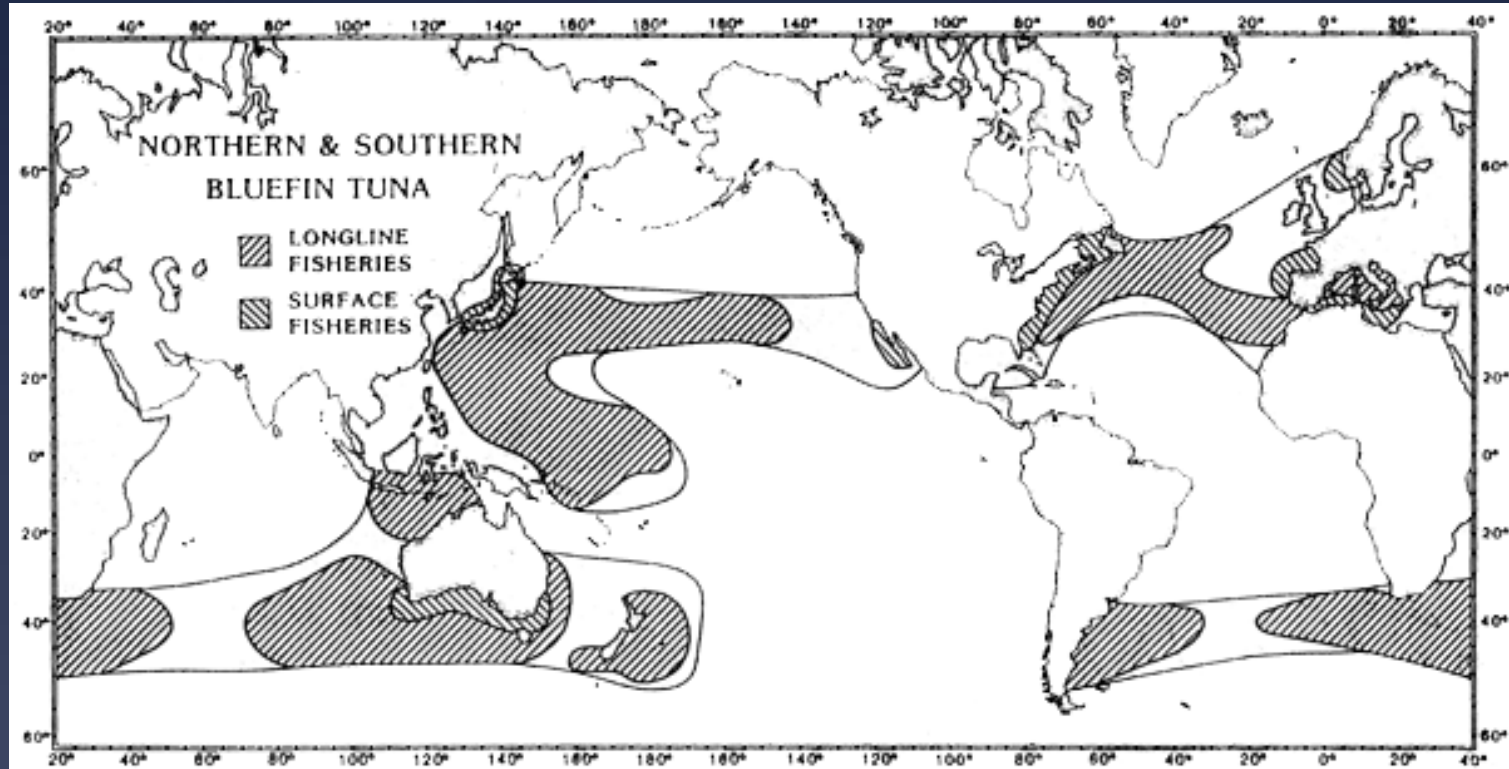
Anadromous Stocks Treaty

Straddling stocks



NAFO

Highly migratory stocks



ICCAT, etc.

Possible Remedies

- *Change property rights.
- *United Nations Resolutions.
- *New norm/customary law.

Smallpox eradication



WHA Resolution

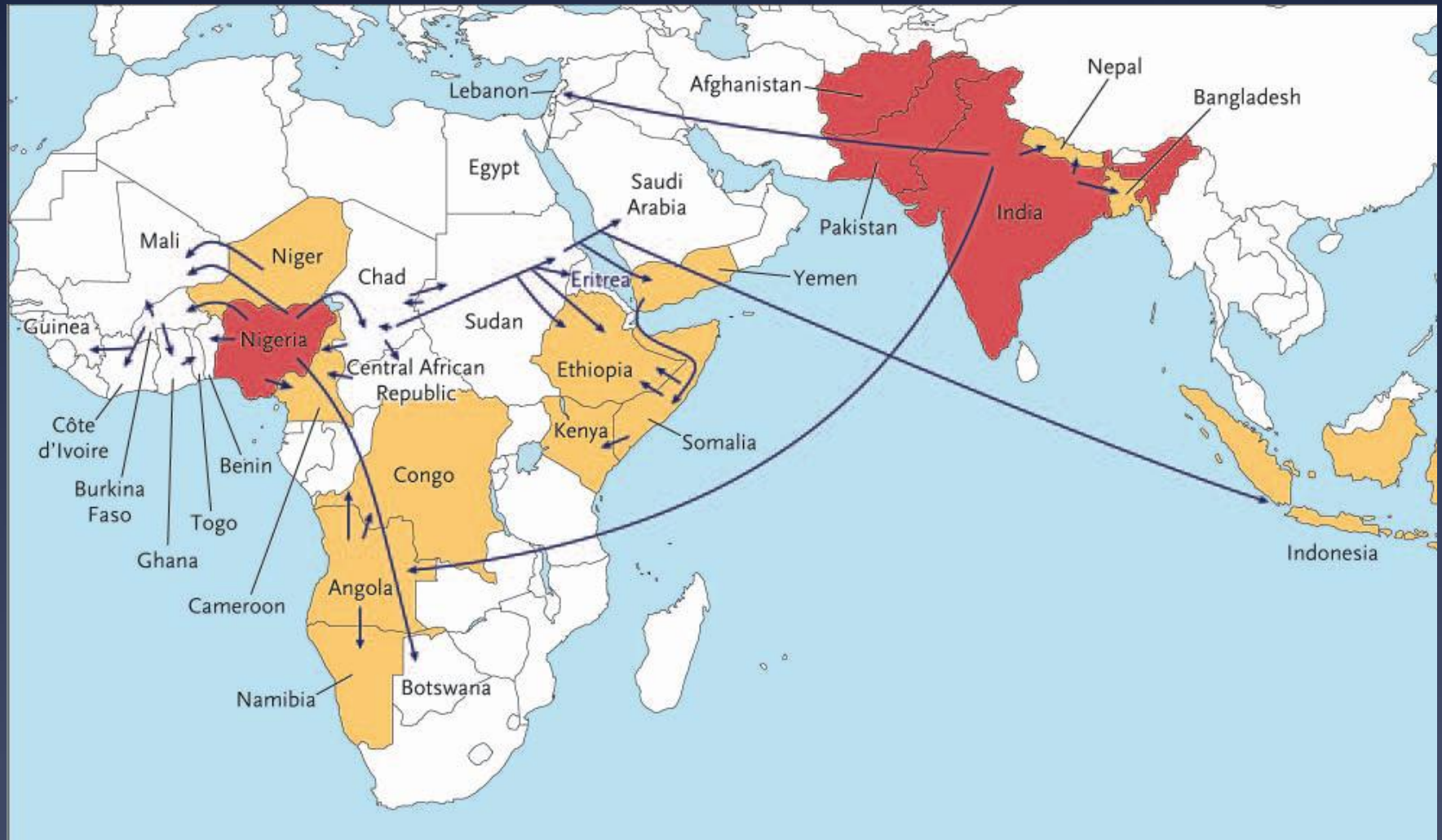
Weakest Links and Failed States





Polio eradication

Routes of Spread, 2002-2006



Post-eradication challenge

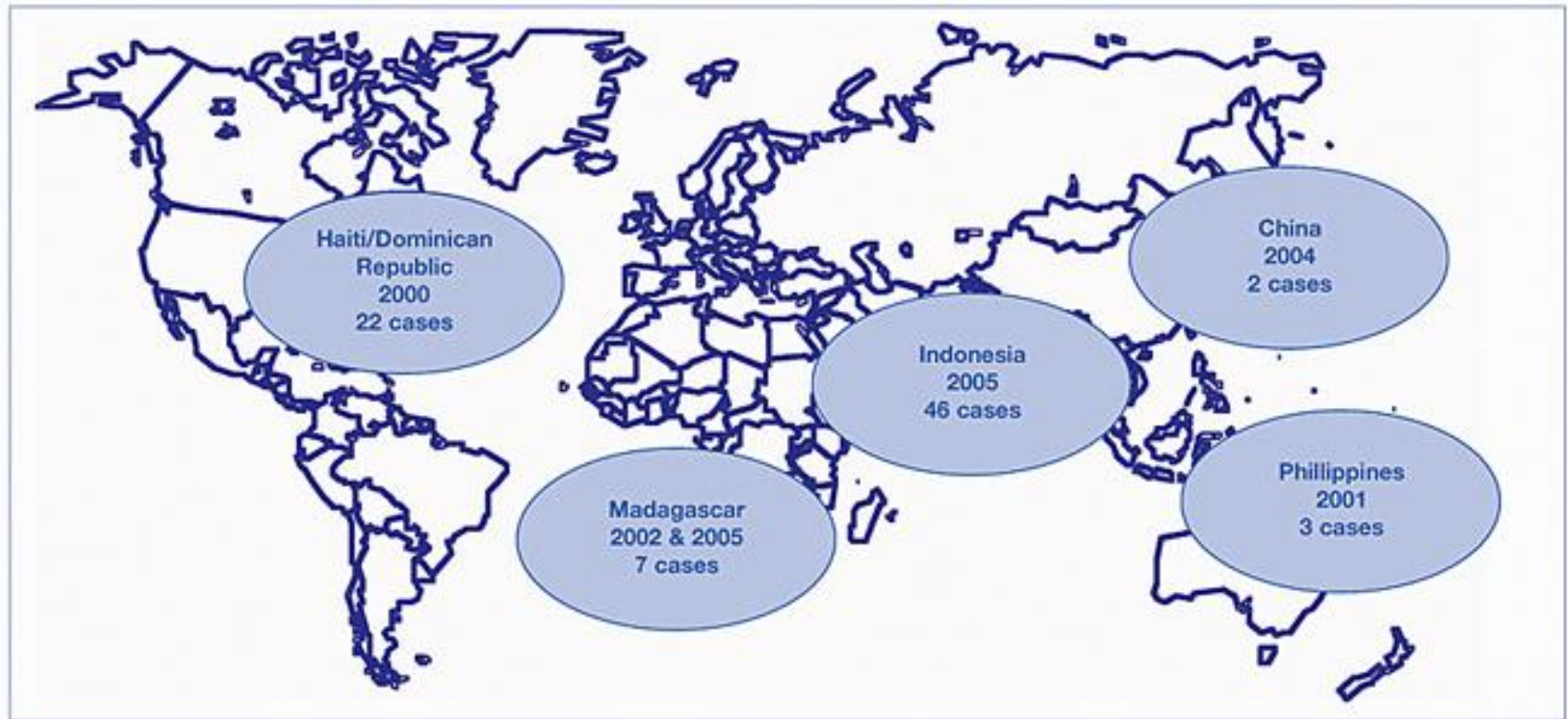


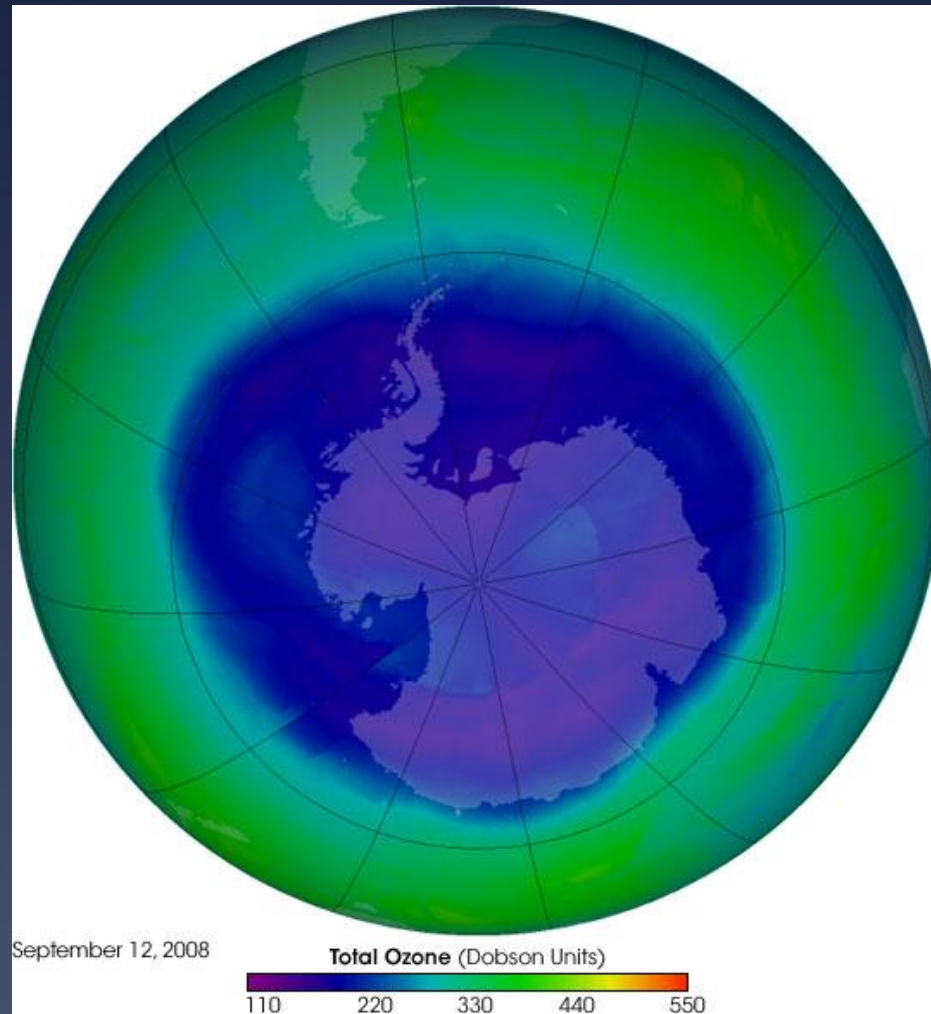
Figure 2. Outbreaks of circulating vaccine-derived poliovirus, 2000 - 2005.

Circulating vaccine-derived viruses

Vaccination Cessation

- *Current plan may fail.
- *Price IPV = OPV.
- *OPV prohibition.
- *WHA resolution.

Ozone Hole 2008

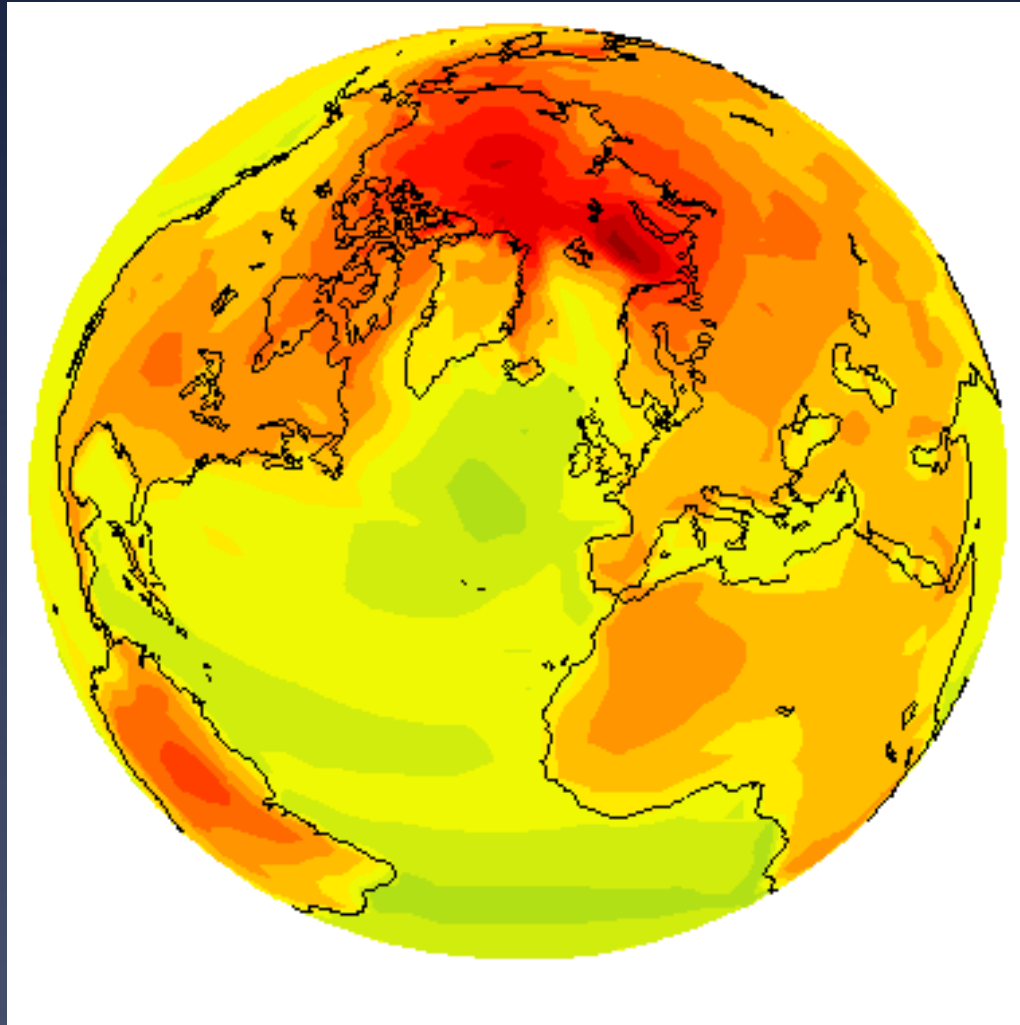


Montreal Protocol

Recipe for success

1. Limits are permanent.
2. Production/consumption.
3. Agreed incremental costs.
4. Trade restrictions.
5. Participation/compliance.

Climate Change



Kyoto Protocol

Recipe for...

1. Participation.
2. Compliance.
3. Emission cuts tiny.

1. Global emissions rising.
2. Concentrations rising.
3. Little innovation.

But

- * Montreal Protocol achieves 5-6 X Kyoto.
- * 2007 Adjustment will achieve more.

Also

- ❖ Kyoto already leaves out air/marine & deforestation.
- ❖ Countries treat gases/sectors separately.

Possible way forward

- * Break problem up
 - * Gases
 - * Sectors
 - * R&D
- * And to address risk
 - * Adaptation
 - * Geoengineering
 - * Air capture