

# Parks and invasive species: a new partnership to increase the efficacy of action, and improve the role of world protected areas for protecting global biodiversity and our livelihood

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# Accelerated Invasive Hybridization in Threatened Species in an USA-Canada River System



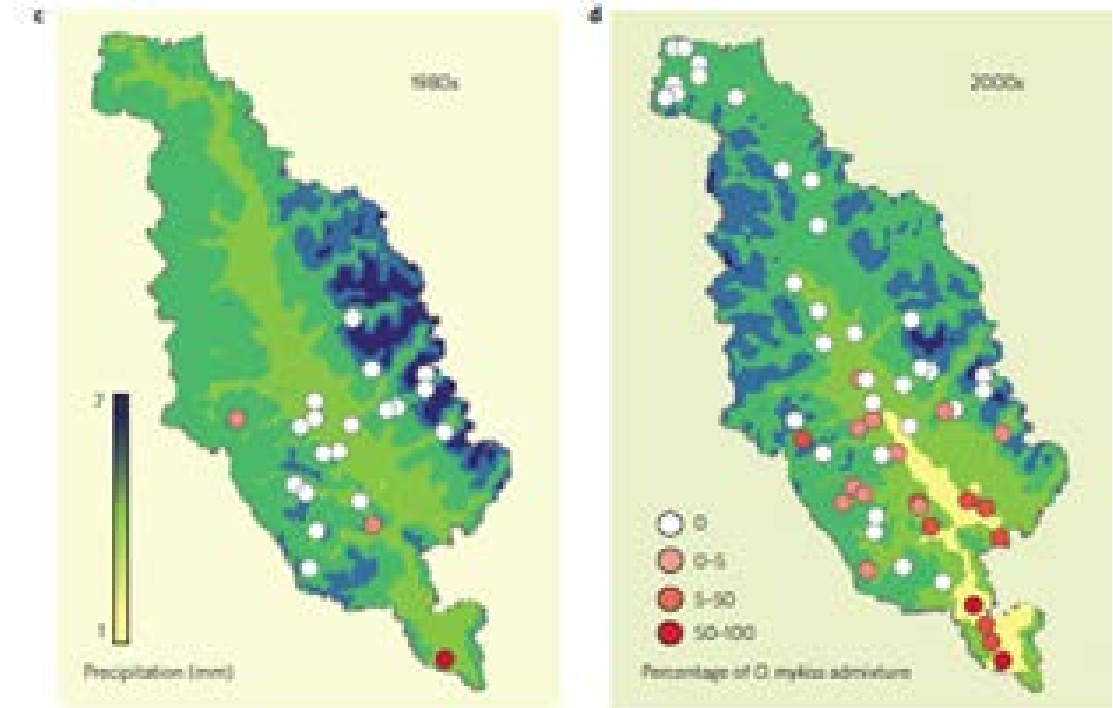
Threatened Native species

Cutthroat trout

<http://www.washingtonlakes.com/forum/viewtopic.php?f=38&t=10992>



Invasive Rainbow trout



Nature Climate Change :4 620–624 (2014)

# Responsible Parks Management to protect ecological integrity

- CBD Article 8h
- The Guiding Principles for the prevention, introduction and mitigation of impacts of invasive alien species on ecosystems, habitats or species
- Guidance on devising and implementing measures to address the risks associated with the introduction of alien species as pets, aquarium and terrarium species, and as live bait and live food
- COP decisions on invasive alien species

# Aichi Biodiversity Target 9

- By 2020, invasive alien **species and pathways are identified and prioritized**, priority species are **controlled or eradicated** and measures are in place to **manage pathways to prevent** their introduction and establishment

# Achieving Aichi Biodiversity Target 9

- GBO4 showed
  - Governments are increasingly taking steps to control and eradicate invasive alien species
  - However the overall rate of invasions, with great economic and ecological costs, shows no sign of slowing.
- Actions need to be taken :
  - To identify and control the main **pathways** responsible for species invasions
  - To develop **border control or quarantine measures** to reduce the likelihood of potentially invasive alien species being introduced, and making full use of **risk analysis and international standards**

# Partnership approach for achieving Aichi Biodiversity Target 9

- Prioritization of invasive alien species and pathways
  - The Global Invasive Alien Species Information Partnership
  - Global information sharing
  - Surveillance at the regional or national level
- Development of capacity
  - Technical and scientific cooperation

# Outcomes of COP 12

- **Guidance** on devising and implementing measures to address the risks associated with the introduction of alien species as pets, aquarium and terrarium species, and as live bait and live food
- **Future work** for Parties to do:
  - Risk communication; public awareness on invasive alien species
  - Make use of international standards
  - Information sharing
  - Continuing efforts on the management of invasive alien species, with special emphasis and giving priority and importance to protected areas and key biodiversity areas

# Emerging issue of IAS in urban parks in warmer climate than the past



<http://www.bbc.com/news/world-asia-29026023>

*Aedes aegypti*

[http://species.wikimedia.org/wiki/Aedes\\_aegypti](http://species.wikimedia.org/wiki/Aedes_aegypti)



# Global spread of dengue virus types: mapping the 70 year history

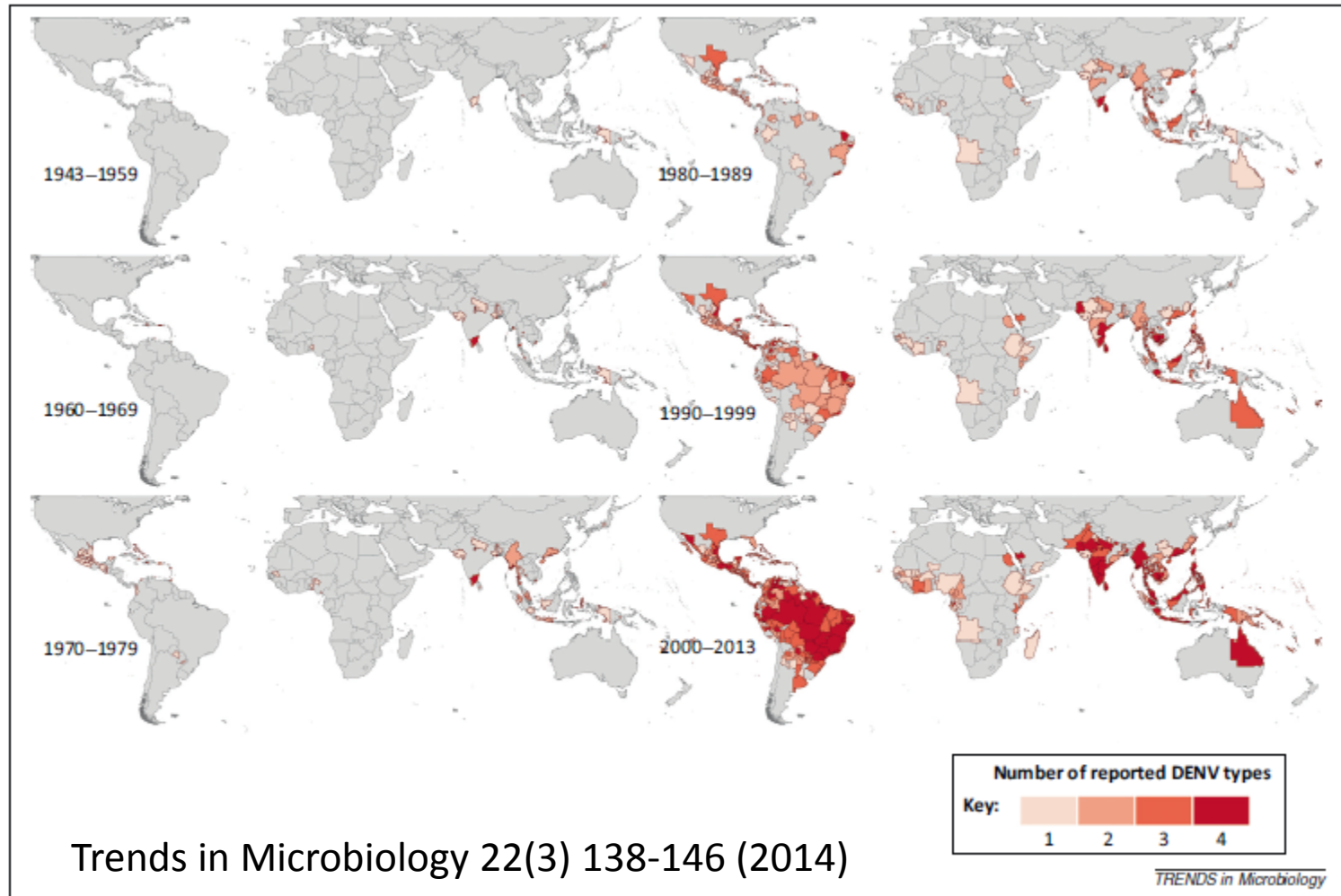


Figure 5. DENV Co-circulation. Cumulative number of DENV types reported by decade since 1943.

# Standards and guidance for animal, plant and human health

- **ANIMAL DISEASES AND ZOOONOSIS:** International agreement for the creation of an office international des epizooties (OIE) in Paris (1924-)
- **HUMAN COMMUNICABLE DISEASES:** International Health Regulations (1951)
- **PESTS:** International Plant Protection Convention (1952)
- **The Agreement on the Application of Sanitary and Phytosanitary Measures (1995)**

# Global partners to implement standards and guidance

- **Inter-agency Liaison Group on Invasive Alien Species**
  - WTO, OIE, IPPC, FAO, IMO, ICAO
  - IUCN, CABI
  - IATA, Ramsar, WCO
- **Standards and Trade Development Facility**
  - World Bank
  - World Health Organization
  - World Trade Organization
  - Standard setting organizations recognized by WTO SPS Committee

“It is not the strongest of the species that survives,  
not the most intelligent that survives.  
It is the one that is the most adaptable to change.”  
— Charles Darwin

“Whether it's big spiders or dangerous viruses,  
we'd best find ways to minimize the ecological  
and human health threats posed by our global  
economy”  
— David Suzuki