

Global Trade in Marine Aquarium Fish

Species Knowledge Initiative



Global information
serving conservation.

Andrew L. Rhyne, Ph.D.



Roger Williams
University



New England
Aquarium

Protecting the blue planet



Jacqueline Juergens, Rikke Oegelund Nielsen,
Paul Anderson, Brian Zimmerman, Johanna
Staerk, Morgane Tidière, Sandra Trautwein,
Dalia A. Conde, + Workshop Experts

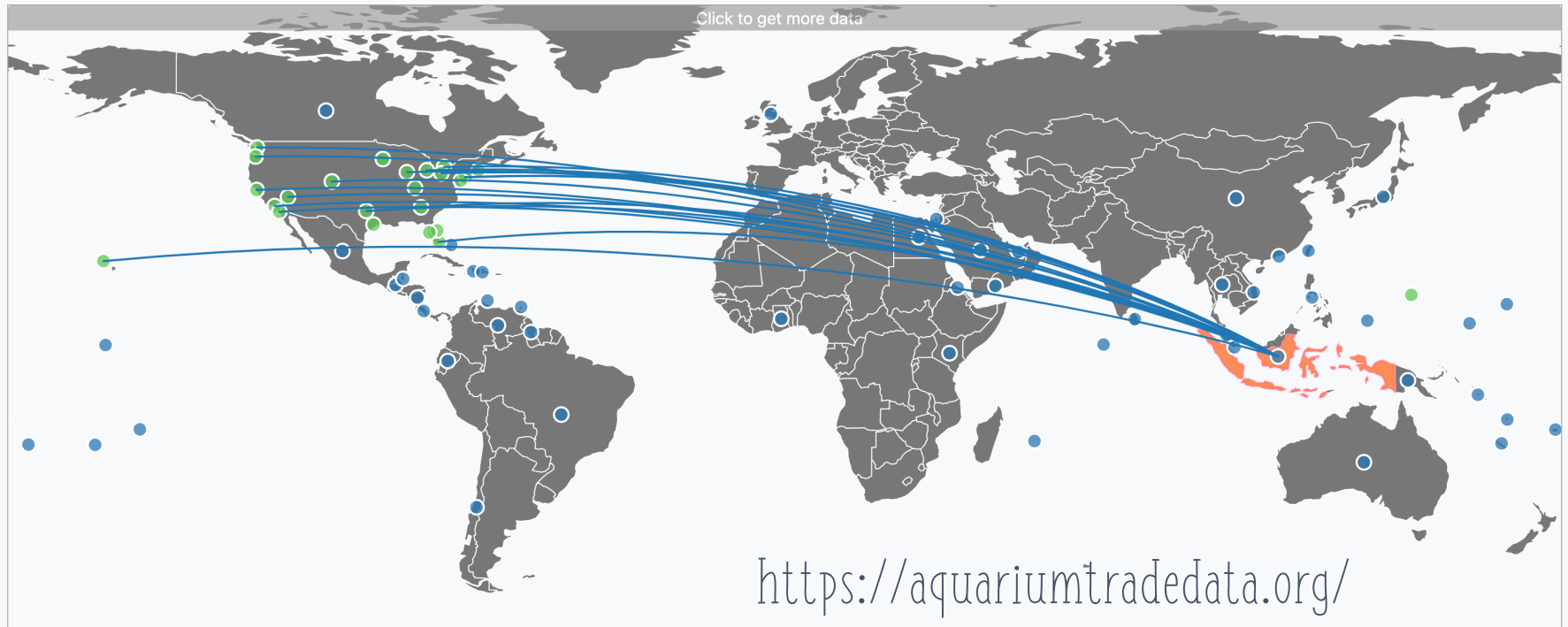
Biodiversity Trade Data



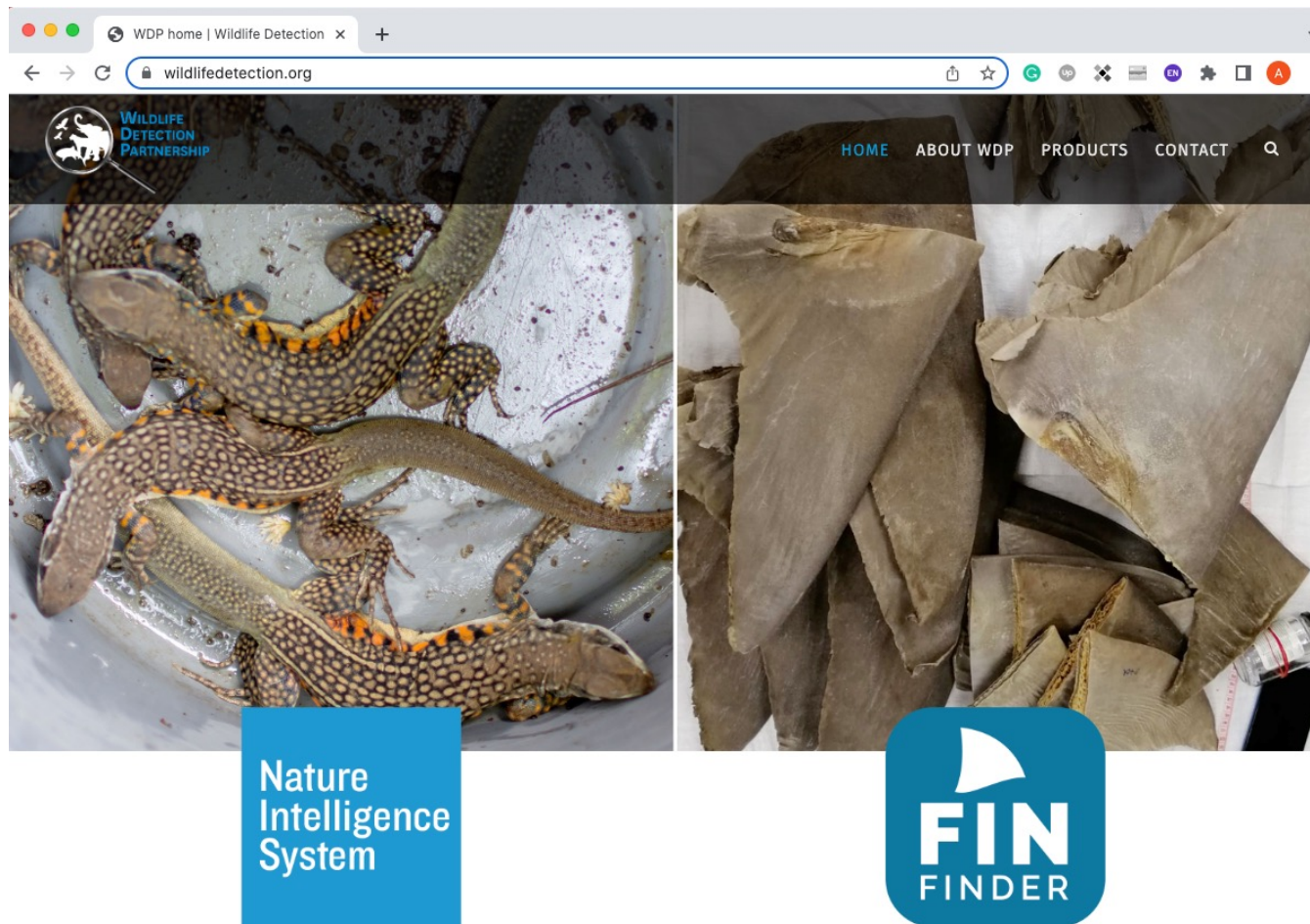
Marine Aquarium Biodiversity and Trade Flow



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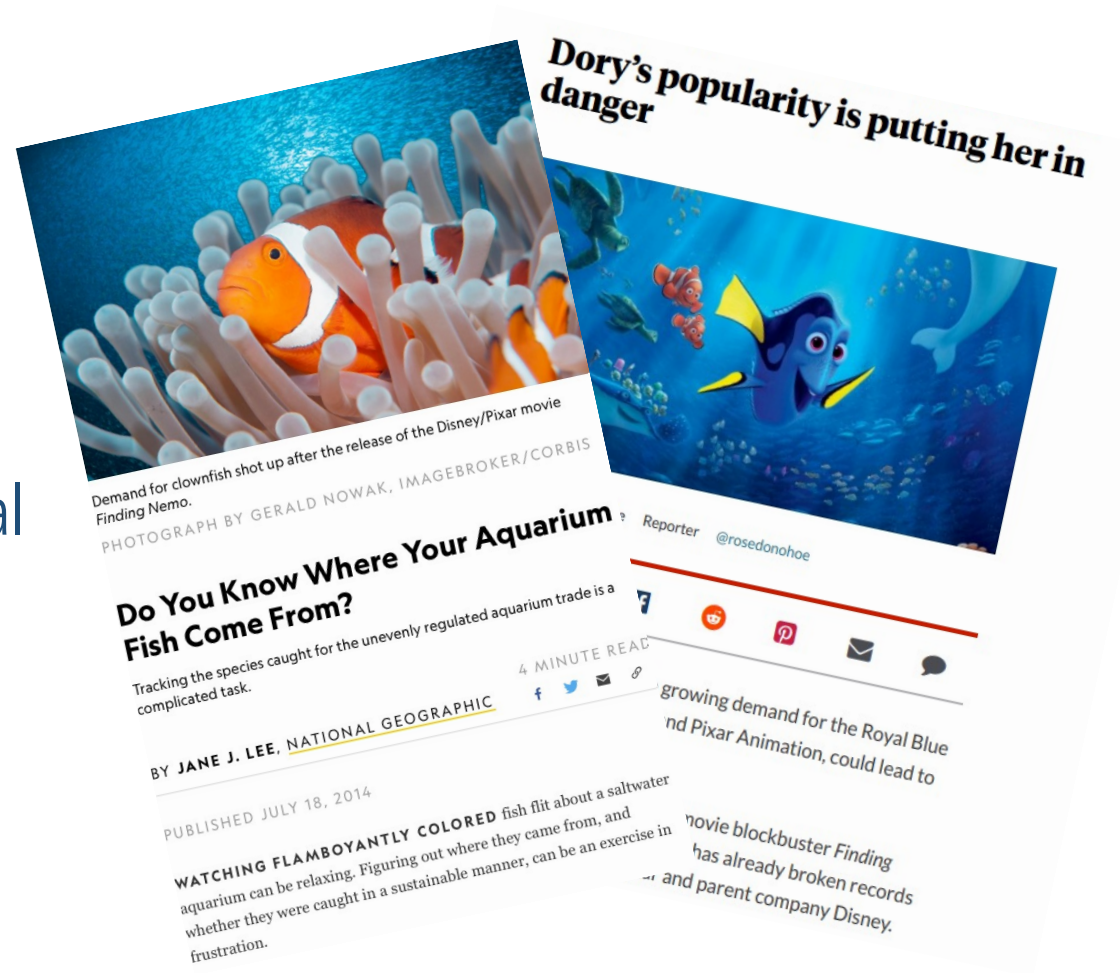
AI Tools for the Wildlife Trade



Sustainability in the Marine Aquarium Trade

"A relationship between society and reef that continually sustains and improves the net benefit to the Coral Reef Social-Ecological System"

Rhyne et al. 2014



...there is an absence of data to help shape policy decisions.



Rhyne et al. 2017

Marine Aquarium Fish SKI

SPECIES
360 

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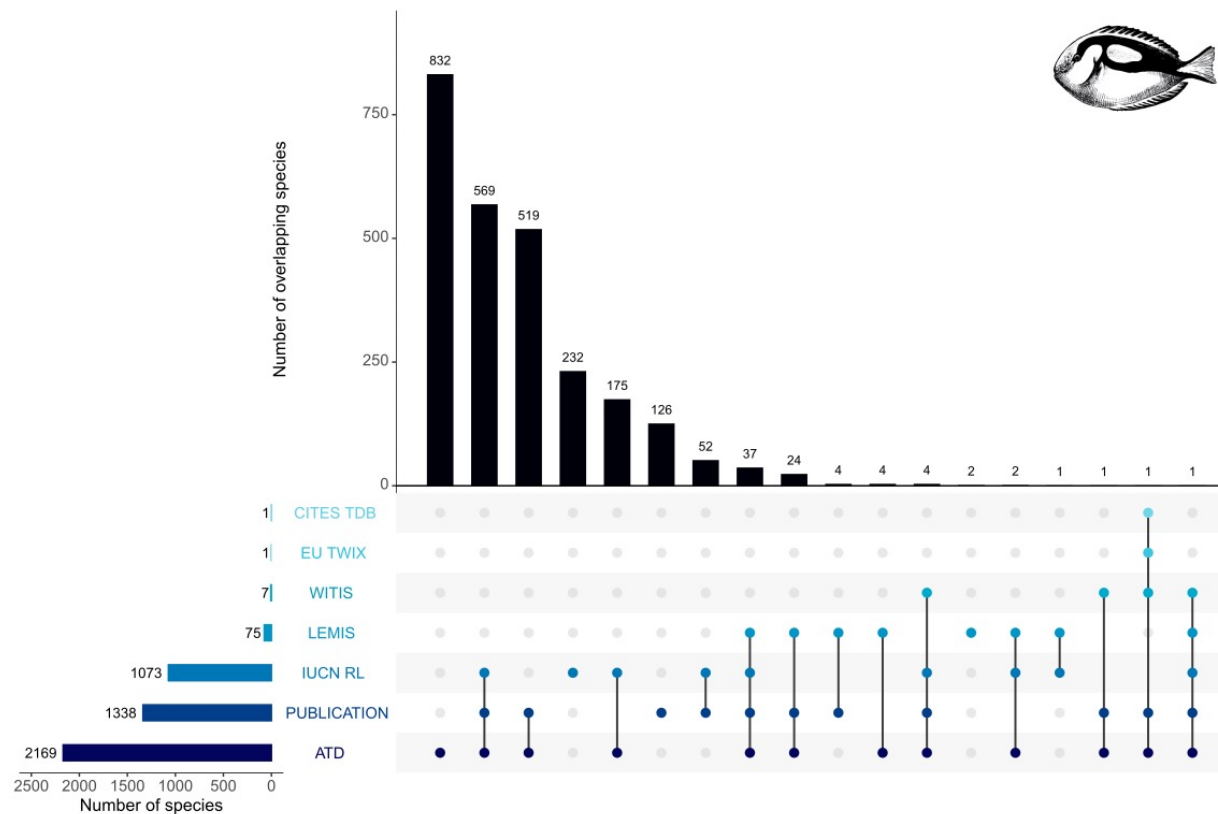


Marine Aquarium Fish SKI

SPECIES
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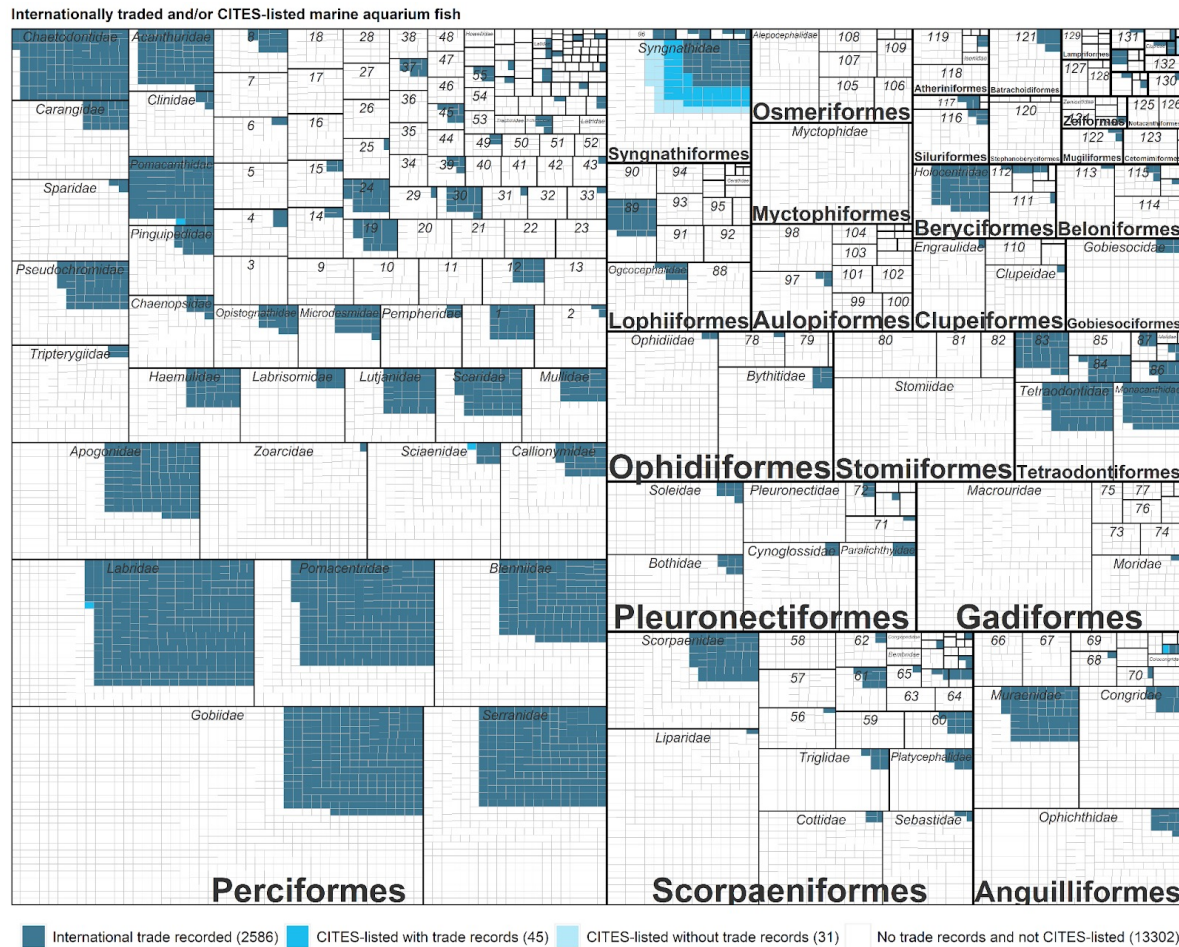
~ 2586 Fishes in "Trade"



Marine Aquarium Fish SKI

SPECIES
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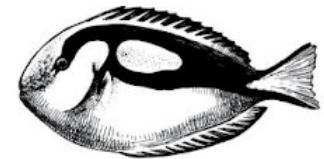


MARINE aQUARIUM FISHeS

Priority species for research on the sustainability of international trade on wild populations

Marine bony fish

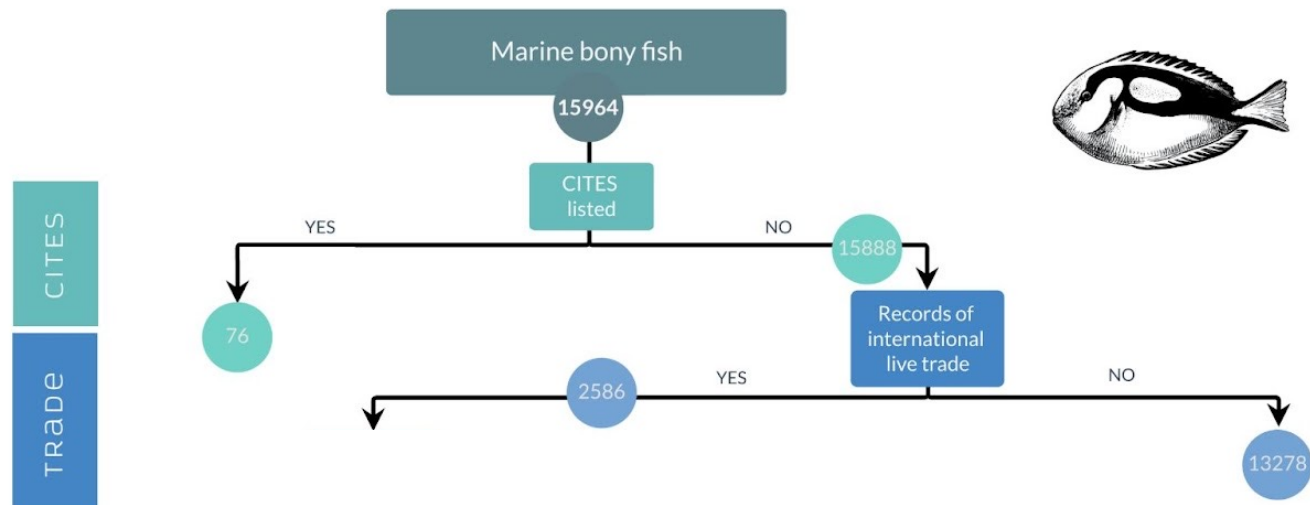
15964



How do you assess a large group of taxa that are generally data poor?

MARINE AQUARIUM FISHES

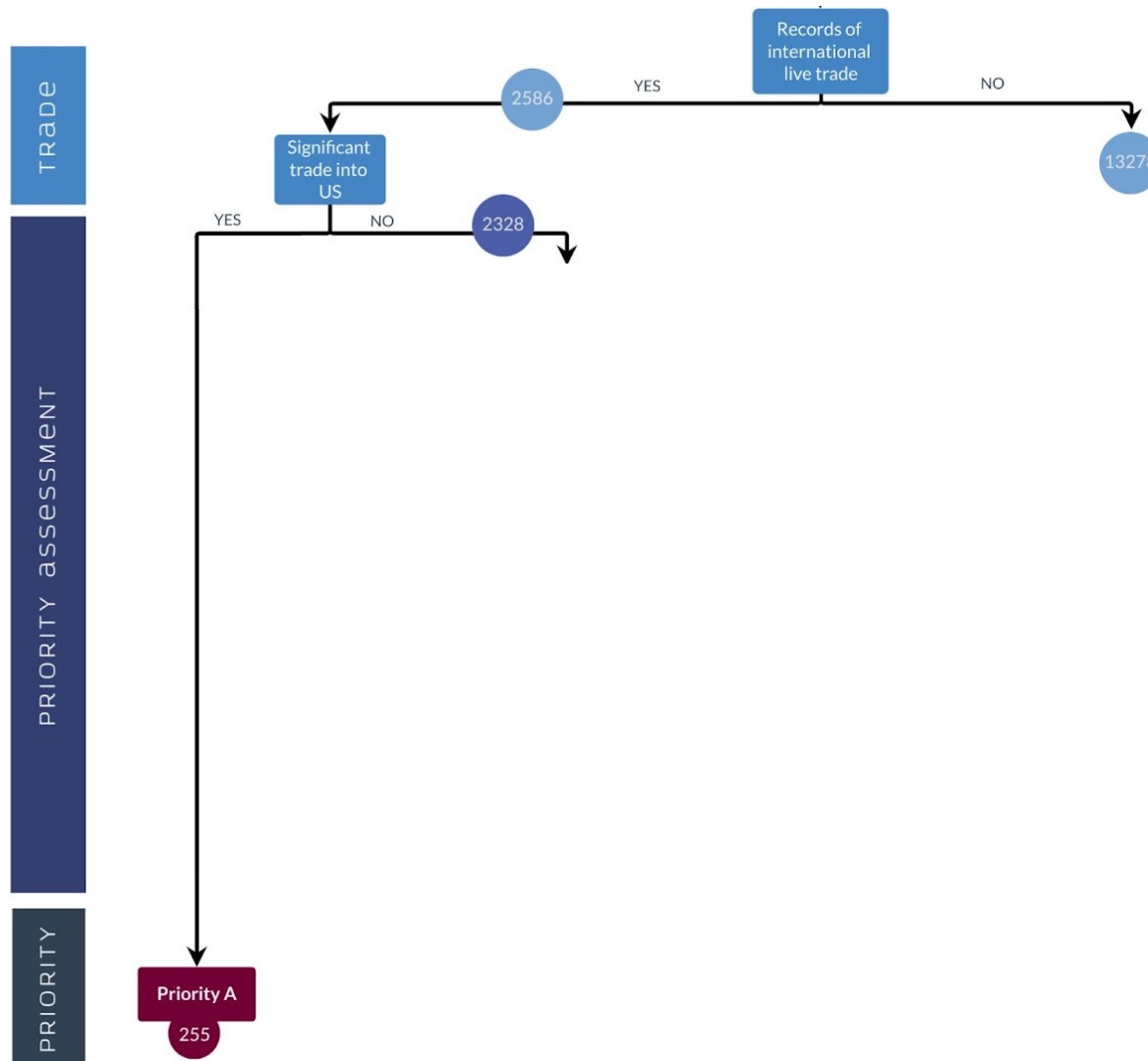
Priority species for research on the sustainability of international trade on wild populations

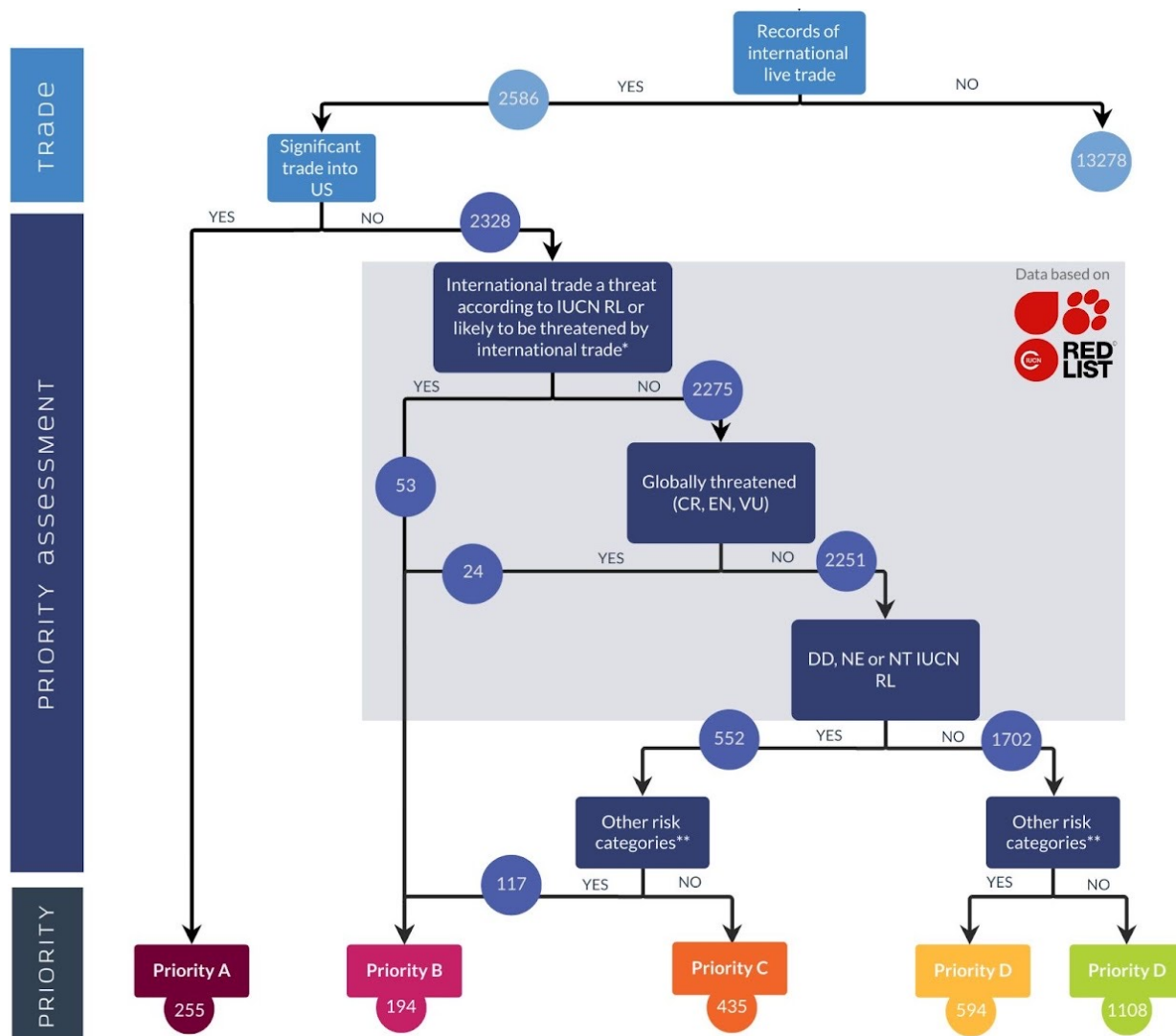


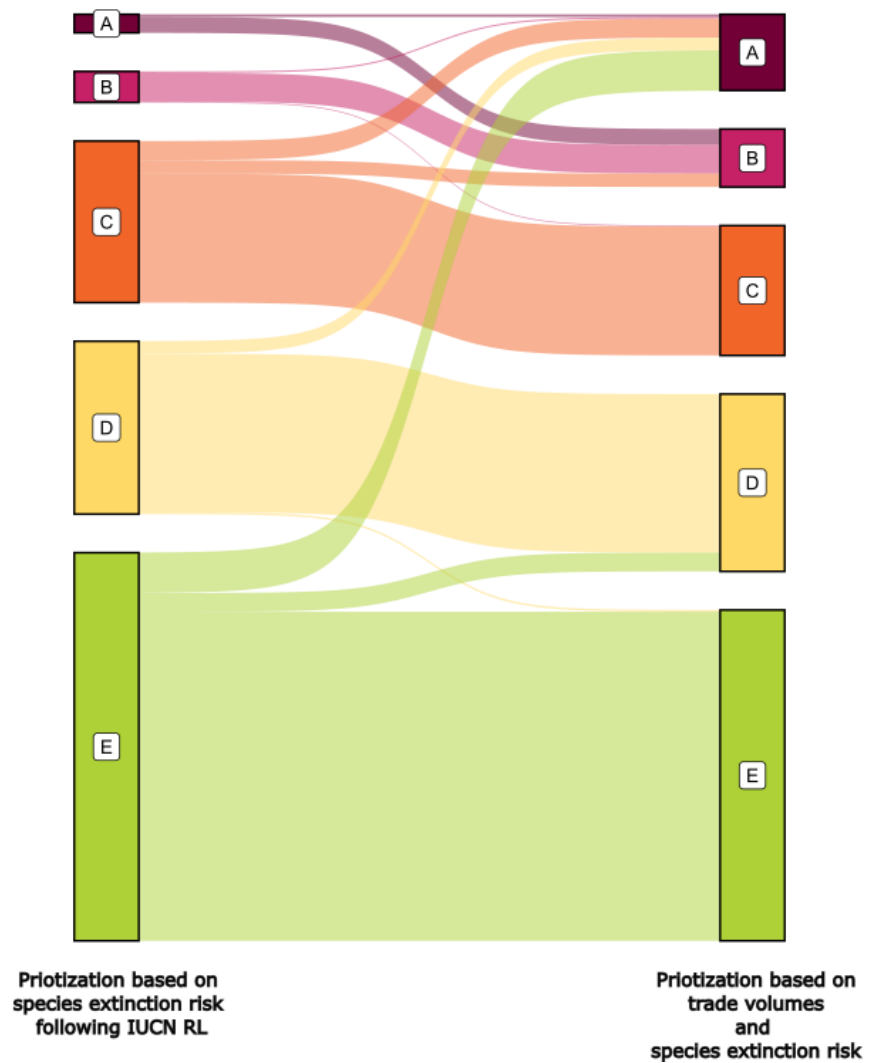
Priority A -- 255

Significant trade recorded
into the US (over 10,000
individuals imported
between 2004-2011)

255 of the 2586 Species







SPECIES
360



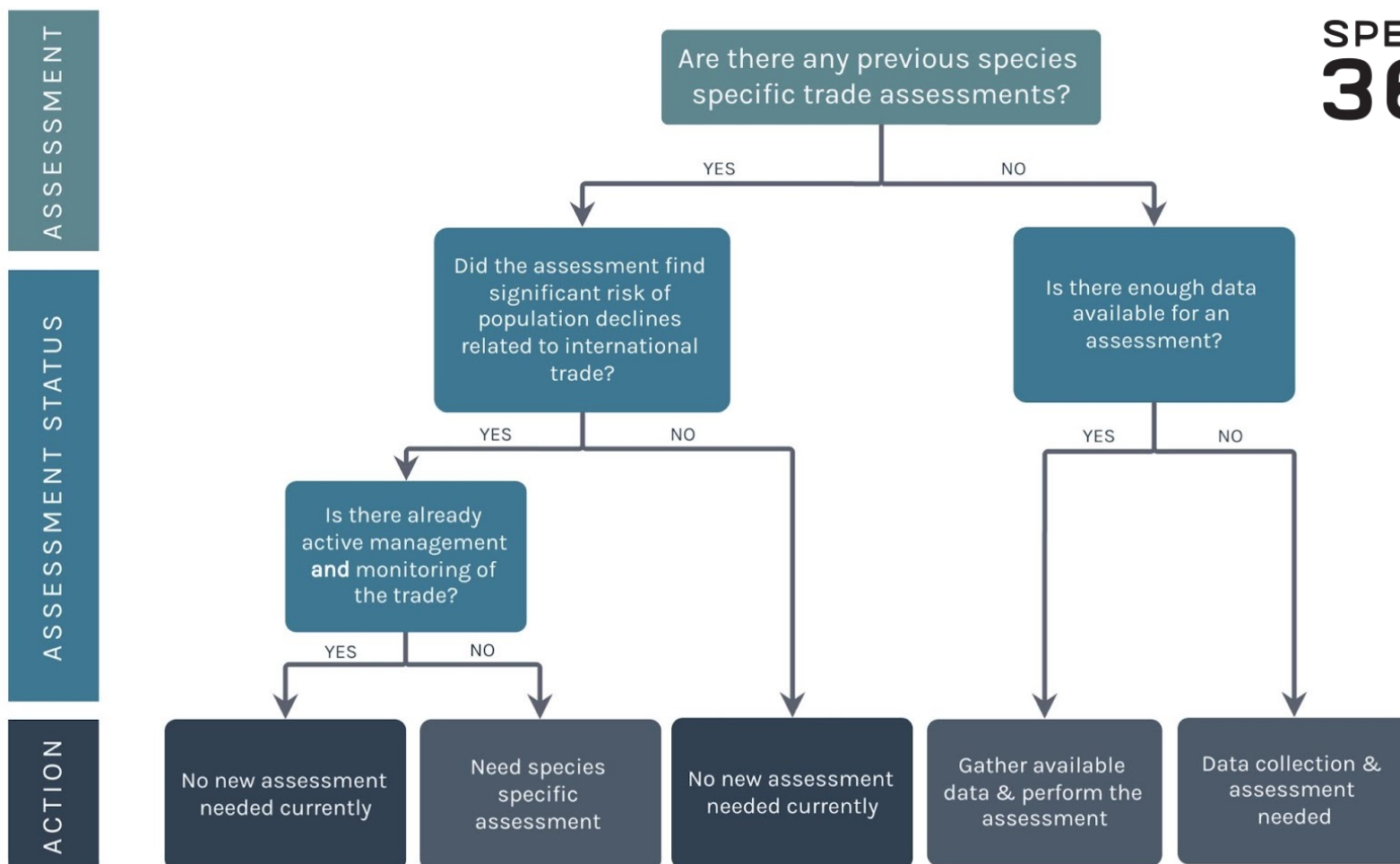
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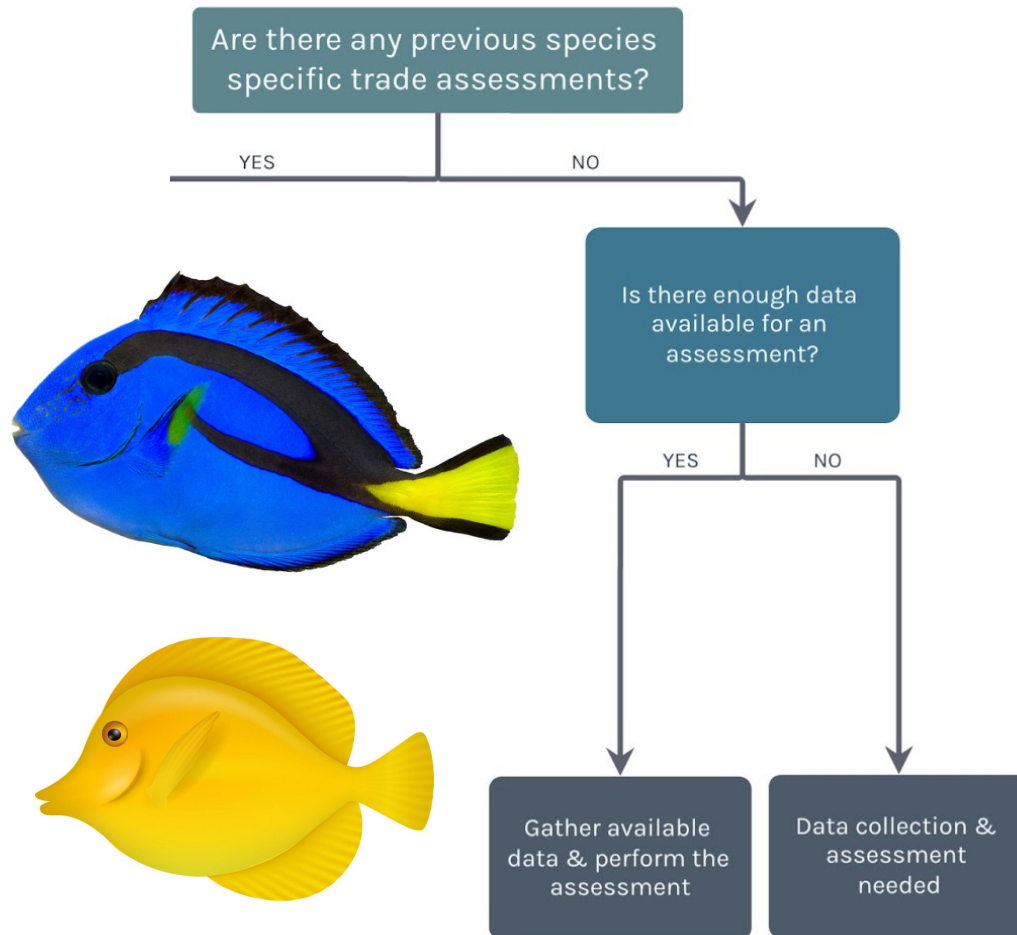
ASSESSMENTS ON THE SUSTAINABILITY OF THE TRADE



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Assessing Risk: Baillargeon et al. 2024



Gabrielle Baillargeon

Evaluating Species at Risk in Data-Limited Fisheries: A Comprehensive Productivity-Susceptibility Analysis of the Most Traded Marine Aquarium Fish

Day 2 Morning Session





NOAA
FISHERIES



NOAA
CORAL REEF
CONSERVATION PROGRAM



NFWF

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