Malasia - P.C. de Taiwá

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A CONSENSUS PAN-AMAZONIAN TIMBER SPECIES DATABASE: A CALL FOR HARMONIZATION AND CONSERVATION EFFORTS

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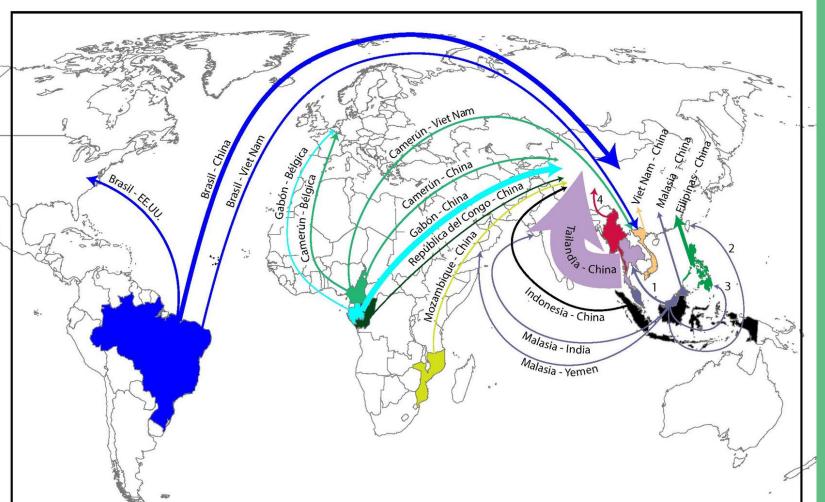
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1. WHY THIS RESEARCH?

• The Amazon biomass carbon sink has started to decline (Brienen et al., 2015). ITTO maintain a record of tropical wood used, but only for the international market. · The nomenclature of tropical wood species used in the international market was updated in 2017. This nomenclature is articulated between ITTO, WHO and CITES. • We lack updated information and harmonized nomenclature of Amazon timber species, including for hundreds of species used regionally. Without a standard baseline it is difficult to evaluate the conservation status of species, the risk posed by the timber trade, and to develop effective policy responses.



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UDNA

2. WHAT WAS THE OBJECTIVE?

To make available unpublished information about timber species from the nine Amazon countries in an integrated consensus database.

3. WHAT DID WE DO?

COMPLETE TIMBER SPECIES LIST FROM ALL SOURCES SUBMITTED TO TNRS

HERRERO-JÁUREGUI ET AL. (2013) PIPONIOT ET AL. (2019)

2861 species

1st filter

Data compilation **1375 SPECIES REMOVED:** duplicated, Data cleaning no opinion, Taxonomic standatization (TNRS) Merging data

1486 species

genus,

not match

not found

Amazonian, according Cardoso et al. (2017

Data compilation

EXTRA-ECOLOGICAL DATA OVERLAP

Gomes et al. (2019) ter Steege et al. (2013) ter Steege et al. (2020) The International Union foi Conservation of Nature (2022)The International Tropical Timber Organization (2014) UNEP-WCMC(2021)

Data compilation

Data cleaning

(TNRS)

4. WHAT RESULTS DID WE FIND?

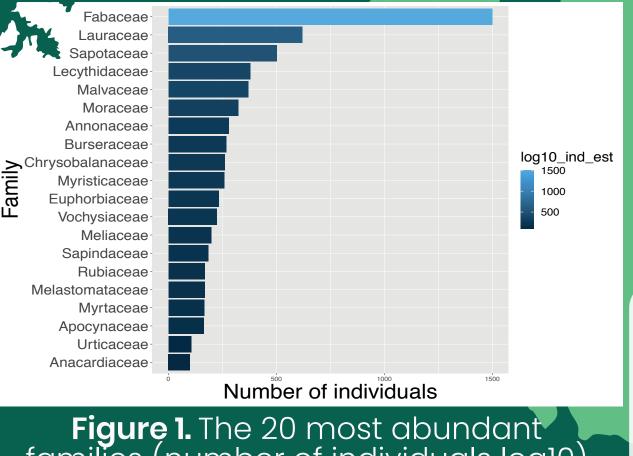
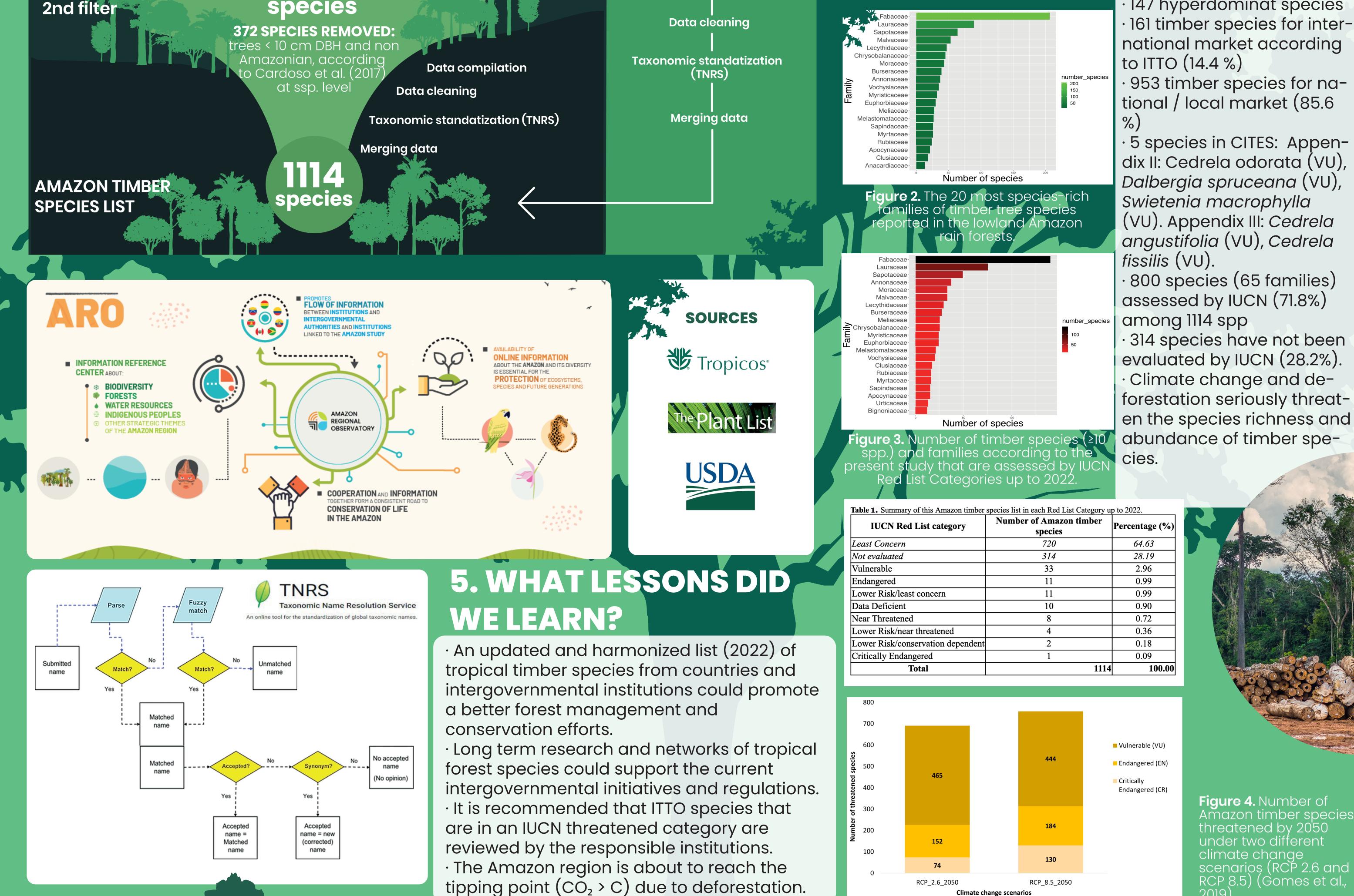


Figure 1. The 20 most abundant families (number of individuals log10) estimated for the Amazon region using data according to ter Steege et al., (2020).



Amazon timber species are the 16.6% of the total Amazon tree species.

Main trade flows: Tropical sawn

timber in 2019 and 2020 in millions

· 72 families, 336 genera and 1114 accepted species. ≥ 10cm DBH among the 6727 spp proposed by Cardoso et al (2017).

· 147 hyperdominat species

tipping point $(CO_2 > C)$ due to deforestation.

Near Threatened	8	0.72
Lower Risk/near threatened	4	0.36
Lower Risk/conservation dependent	2	0.18
Critically Endangered	1	0.09
Total	1114	100.00

Amazon timber species scenarios (RCP 2.6 and 2019)

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AMAZON REGIONAL OBSERVATORY



FORESTPLOTS.NET de Cooperación Amazónica



Tiputini Biodiversity Station