



© Fabio Colombini
Praia de Guaratuba –
Bertioga (SP)

Top 10 Riscos

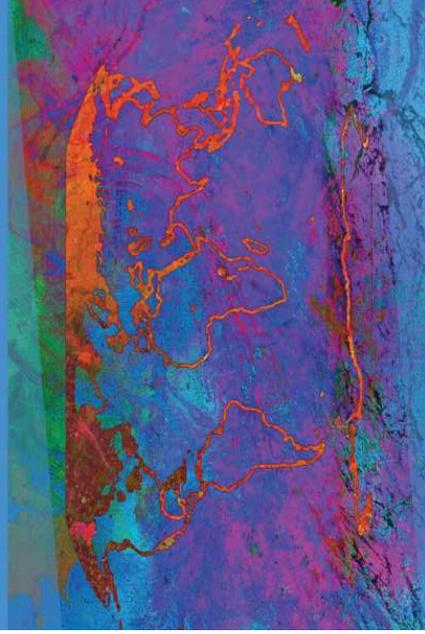


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INTERGOVERNMENTAL PANEL ON CLIMATE CHANGE

Climate Change 2021

The Physical Science Basis

Summary for Policymakers



Working Group I Contribution to the Sixth Assessment Report of the Intergovernmental Panel on Climate Change



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INTERGOVERNMENTAL PANEL ON CLIMATE CHANGE

Climate Change 2022

Impacts, Adaptation and Vulnerability

Summary for Policymakers



Working Group II contribution to the Sixth Assessment Report of the Intergovernmental Panel on Climate Change



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INTERGOVERNMENTAL PANEL ON CLIMATE CHANGE

Climate Change 2022

Mitigation of Climate Change

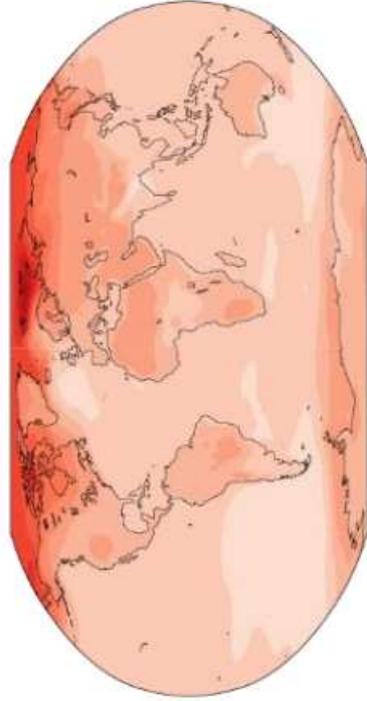
Summary for Policymakers



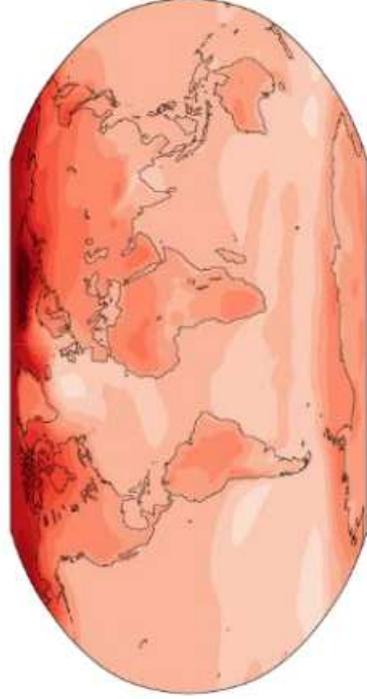
Working Group III contribution to the Sixth Assessment Report of the Intergovernmental Panel on Climate Change



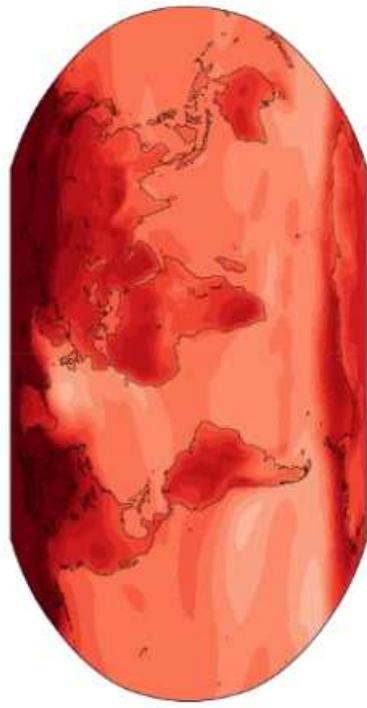
...at 1.5°C

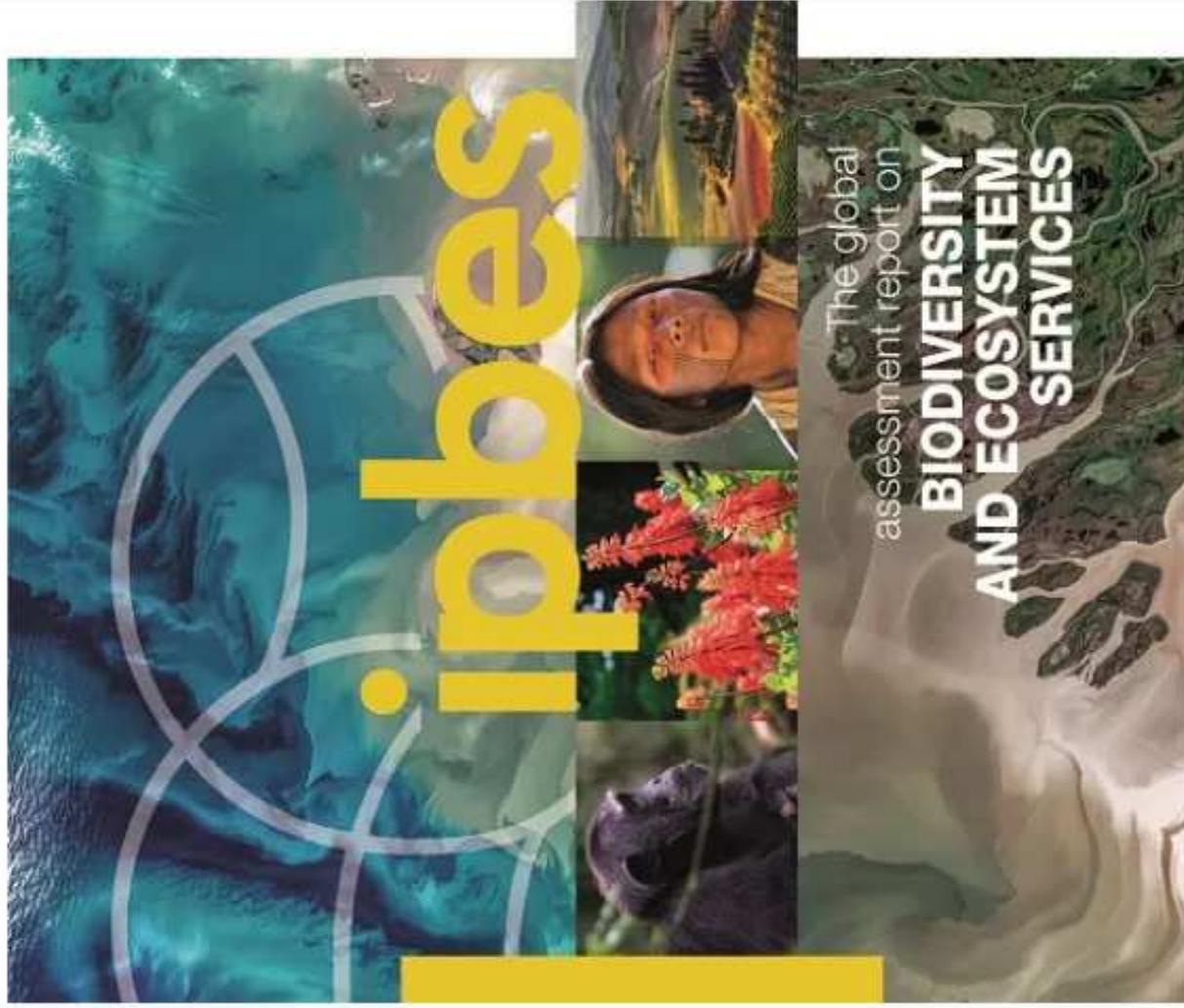


...at 2°C



...at 4°C



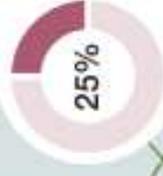


EXAMPLES OF DECLINES IN NATURE



ECOSYSTEM EXTENT AND CONDITION

Natural ecosystems have **declined by 47 per cent** on average, relative to their earliest estimated states.



SPECIES EXTINCTION RISK

Approximately **25 per cent of species are already threatened with extinction** in most animal and plant groups studied.



ECOLOGICAL COMMUNITIES

Biotic integrity—the abundance of naturally-present species—has **declined by 23 per cent** on average in terrestrial communities.*



BIOMASS AND SPECIES ABUNDANCE

The global biomass of wild mammals has **fallen by 82 per cent**.* Indicators of vertebrate abundance have declined rapidly since 1970



NATURE FOR INDIGENOUS PEOPLES AND LOCAL COMMUNITIES

72 per cent of indicators developed by indigenous peoples and local communities show **ongoing deterioration** of elements of nature important to them

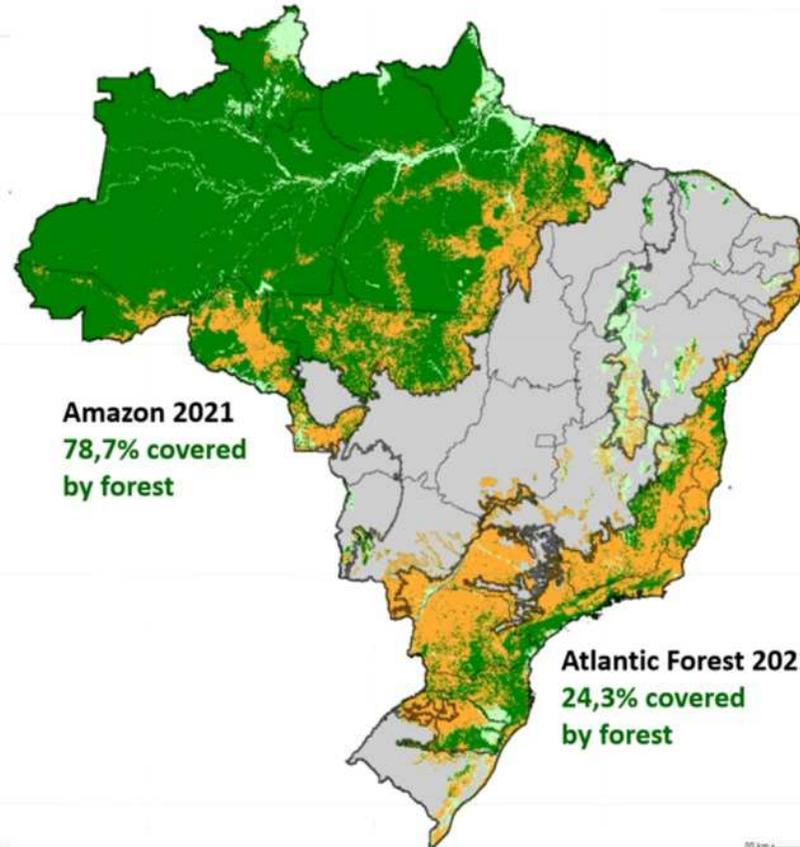
The Restoration biome for Climate, water, biodiversity and ecosystem services



Original Forest Cover in Amazon and Atlantic Forest



Current Forest Cover in Amazon and Atlantic Forest



Amazon 2021
78,7% covered
by forest

Atlantic Forest 2021
24,3% covered
by forest



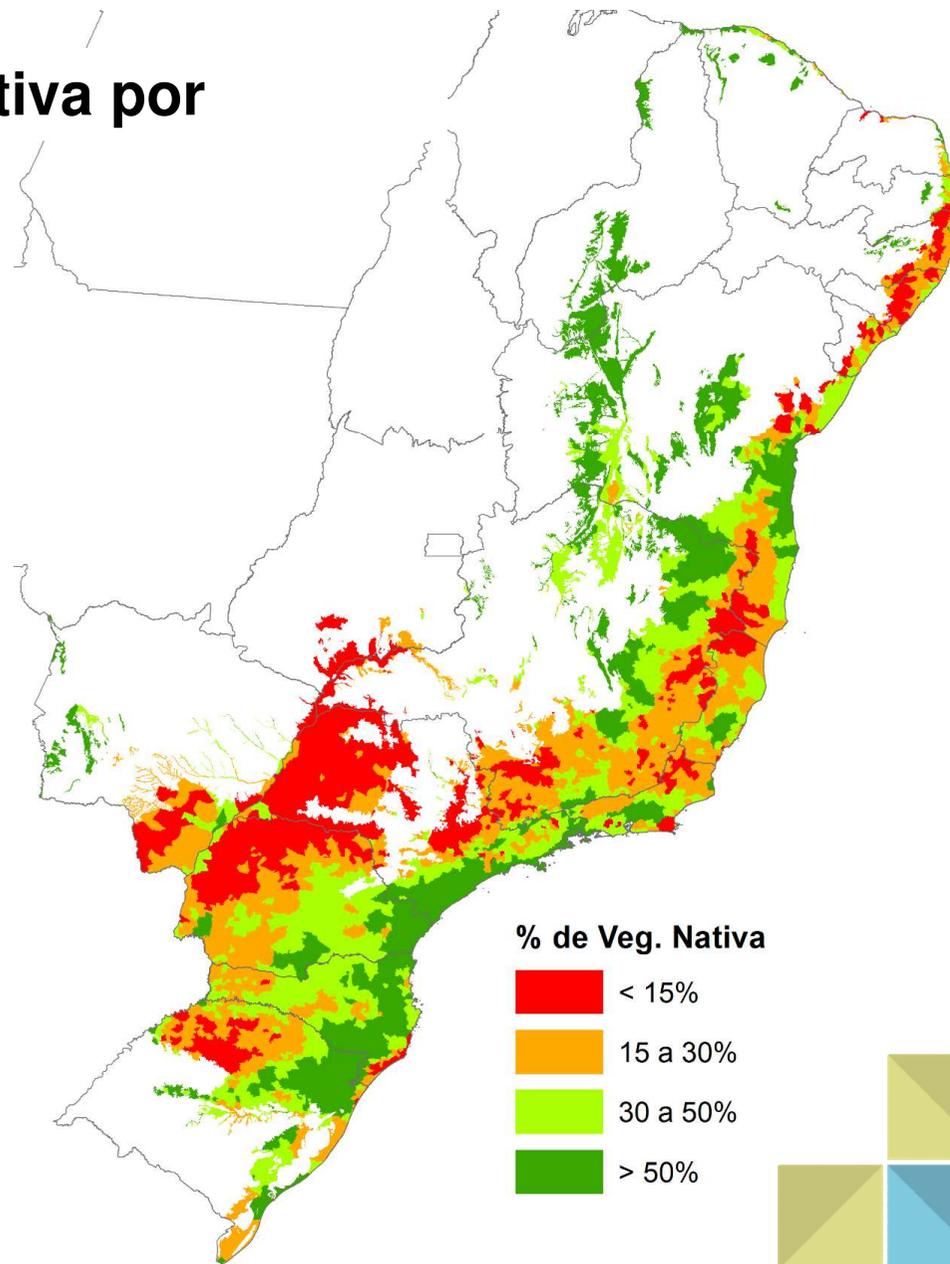
Cobertura de vegetação nativa por município

57% dos municípios possuem **menos de 30%** da vegetação nativa

↑
fragmentação
↑
isolamento

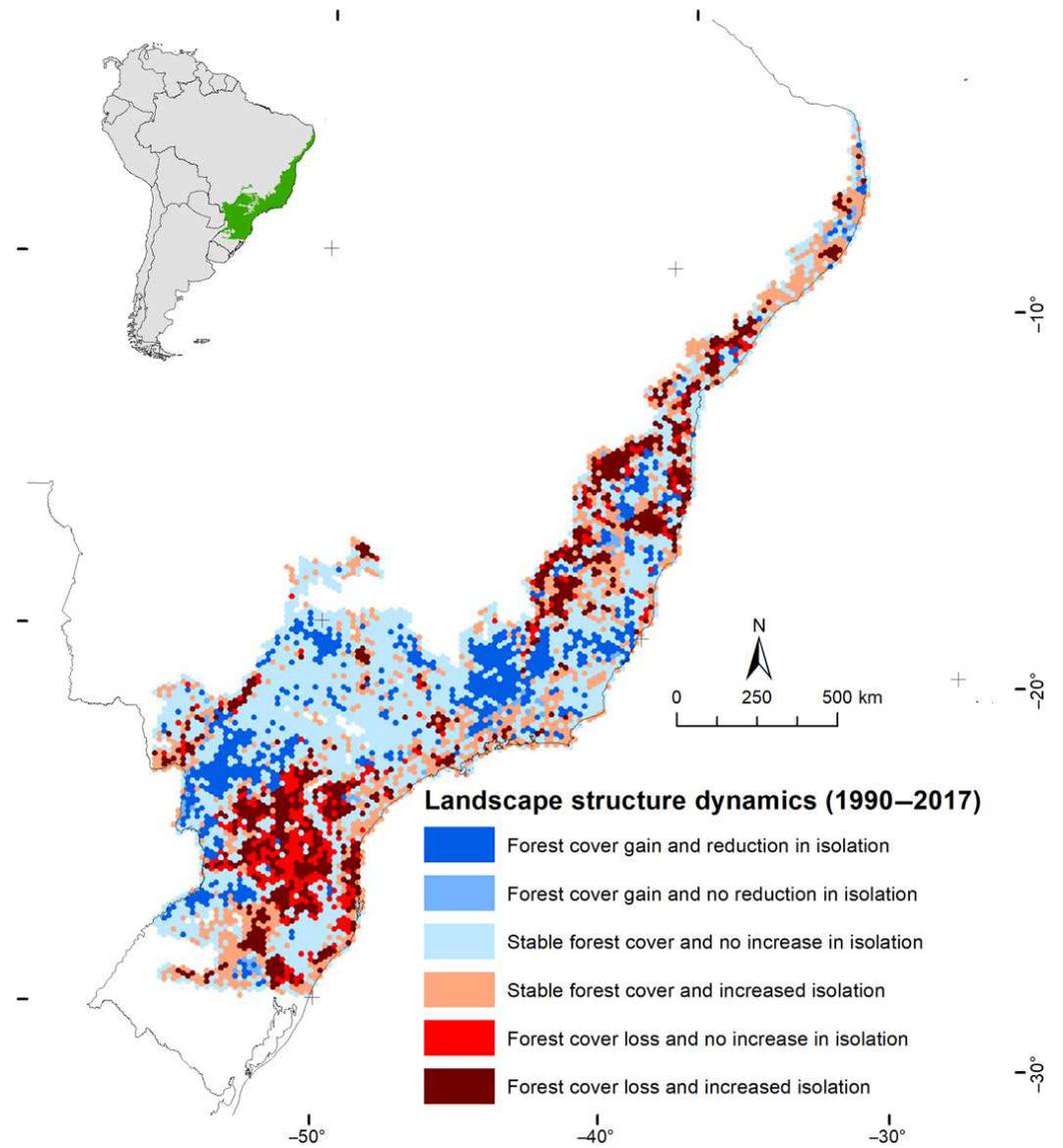
↓
biodiversidad
e
↓
estoque de C

Quantidade de municípios	
menos de 15%	27%
de 15 a 30%	30%
de 30 a 50%	22%
mais de 50%	21%



Desmatamento e regeneração

Rosa, Marcos R., et al. "Hidden destruction of older forests threatens Brazil's Atlantic Forest and challenges restoration programs." **Science advances** 7.4 (2021)



Rosa, et al.
(2021)

