

“Incorporation of climate change considerations into the design and financing of biodiversity conservation”



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Comité Consultivo
Publico Conjunto (CCPC)

Joint Public Advisory
Committee (JPAC)



Outline

2023 climate snapshot

Biodiversity
conservation in Chile

Effects on plants and
animals

Biodiversity conservation
financing



The Arctic 100 years ago and now.



Snow and ice will disappear from the Andes – it's only a matter of time
What are the implications for biodiversity conservation?



Consequences of Climate Change on Biodiversity Conservation

Ecosystem Transformation



Biodiversity Loss



Loss of Ecosystem Services



Range Shifts



Invasive Species Spread



Fish & Wildlife Health



Consequences of Climate Change on Biodiversity Conservation

Decreased Harvest



Phenology Mismatch



Marine Heatwaves



Biodiversity - our strongest natural defense against climate change

Spotted Owl:

- Formerly 1000 animals
- 200 animals in 1980s
- 1 wildbirth observed in 2023

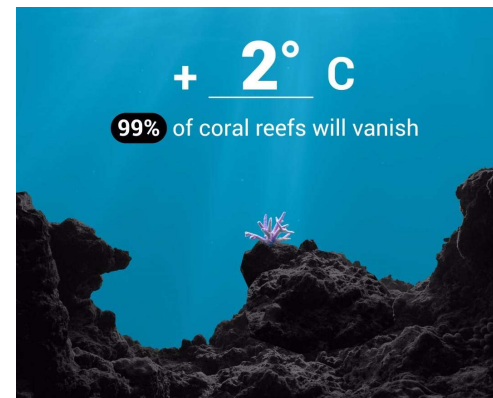
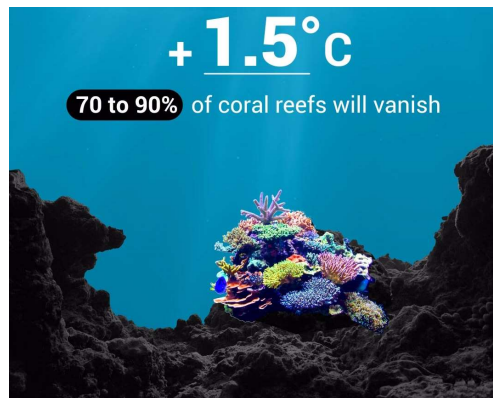
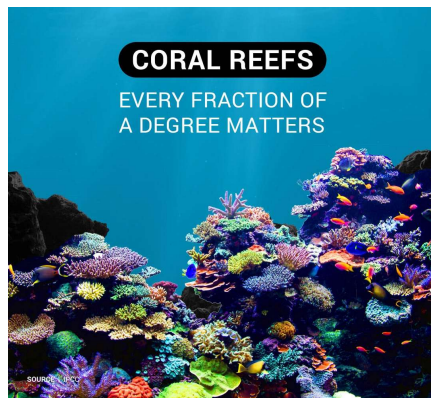


United Nations 30x30 goal:

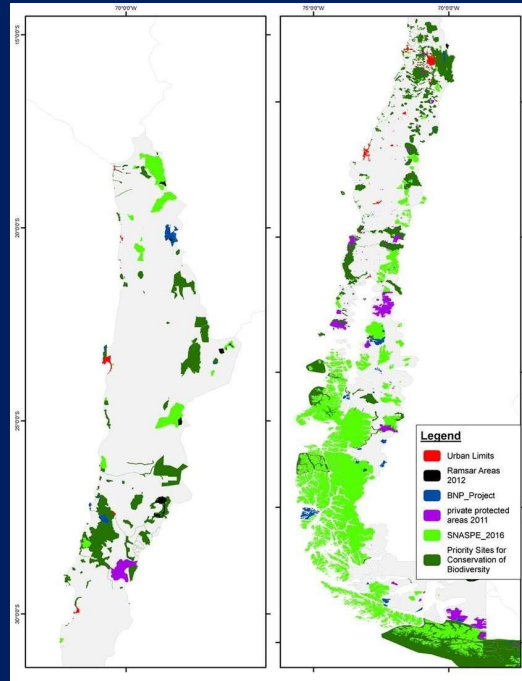
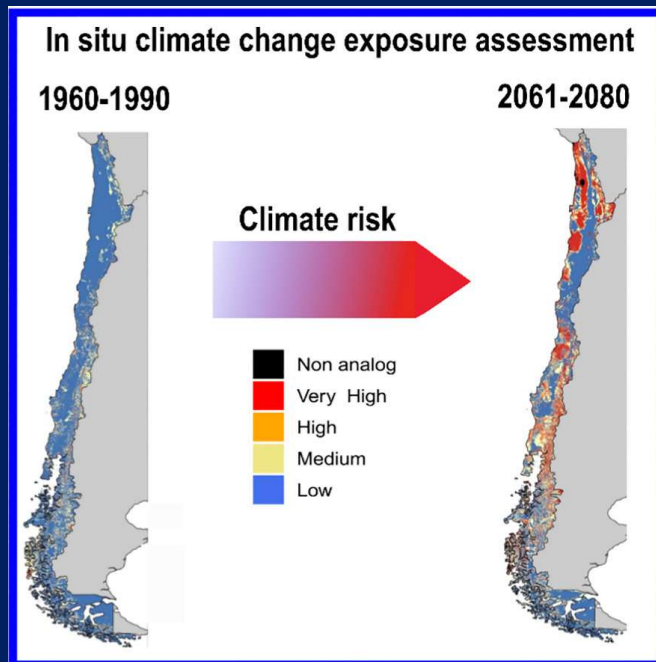
- Conserve 30% of lands and waters by 2030



Climate change reduces biodiversity

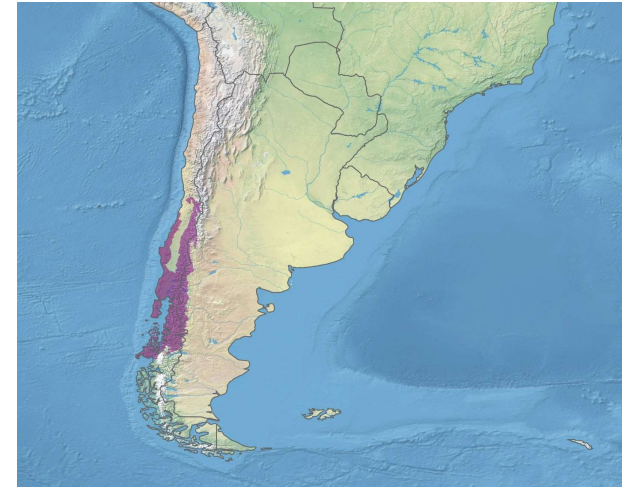
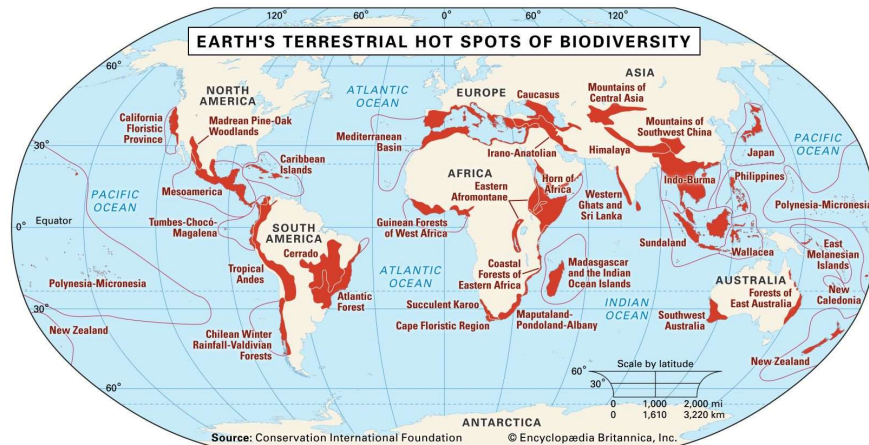


Climate Change Exposure Assessment



Climate exposure shows high risk and few climate refugia for Chilean native vegetation

Chilean Winter Rainfall-Valdivian Forests



34 Biodiversity hotspots

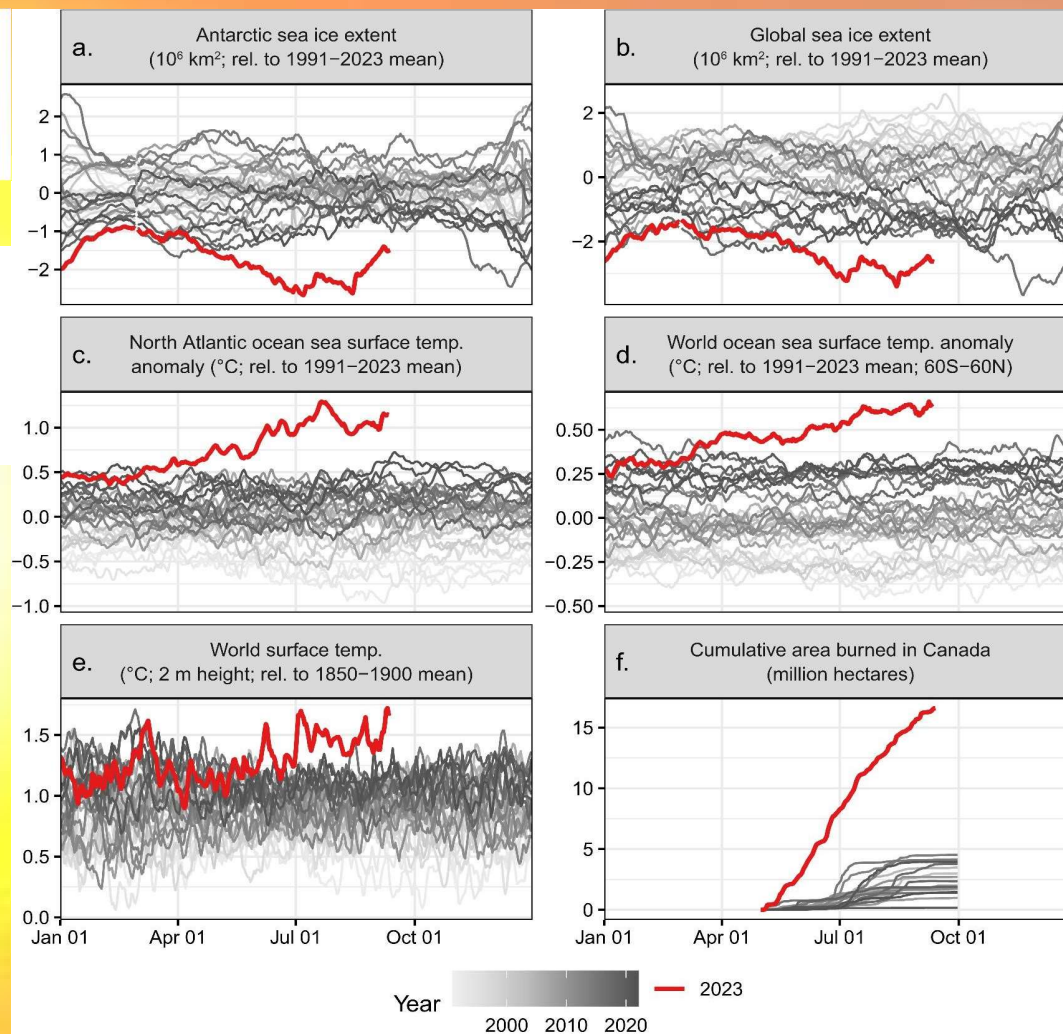
- high species diversity,
- endemic species,
- threatened or endangered species,
- represent 2.5% of Earth's land surface
- critically important biodiversity conservation areas

JOURNAL ARTICLE

The 2023 state of the climate report: Entering uncharted territory FREE

El informe sobre el estado del clima 2023: entrando en territorio inexplorado

24 octubre 2023



Chile wildfires spread amid heat wave as death toll rises



1 of 8 | A woman clears debris from a landscape of charred remains in Santa Ana, Chile, Saturday, Feb. 4, 2023. At least 13 people were reported dead as a result of the wildfires burning across Chile that have destroyed homes and thousands of acres of forest while the South American country is in the midst of a heat wave. (AP Photo/Matias Delacroix)



South America sweats under high temps—in the middle of winter



High temperatures have led to smoggy conditions in Chile's capital Santiago.

Winter heat wave in Chile offers 'window' to warmer world

Reuters

August 3, 2023 1:35 PM PDT · Updated 3 months ago



Implications for Biodiversity Conservation Financing

1. Banker perspective – show me your business plan!
2. Climate vulnerability assessments and management/monitoring plans
3. Define your timelines
4. Incorporate flexibility
5. Consider a dynamic approach
6. Since plants and animals know no borders, international cooperation is essential





Untold Human Suffering in Pictures



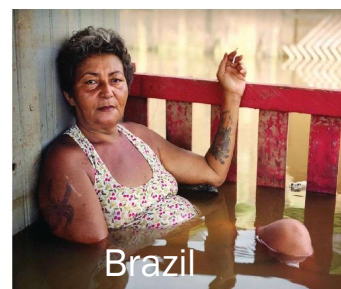
California



USA



Afghanistan



Brazil



Mozambique



Philippines