

What forests can do for water and climate

Daniel Murdiyarso
CIFOR



What can forests do for water?



Promote
rain



Cool air



Recharge
groundwater

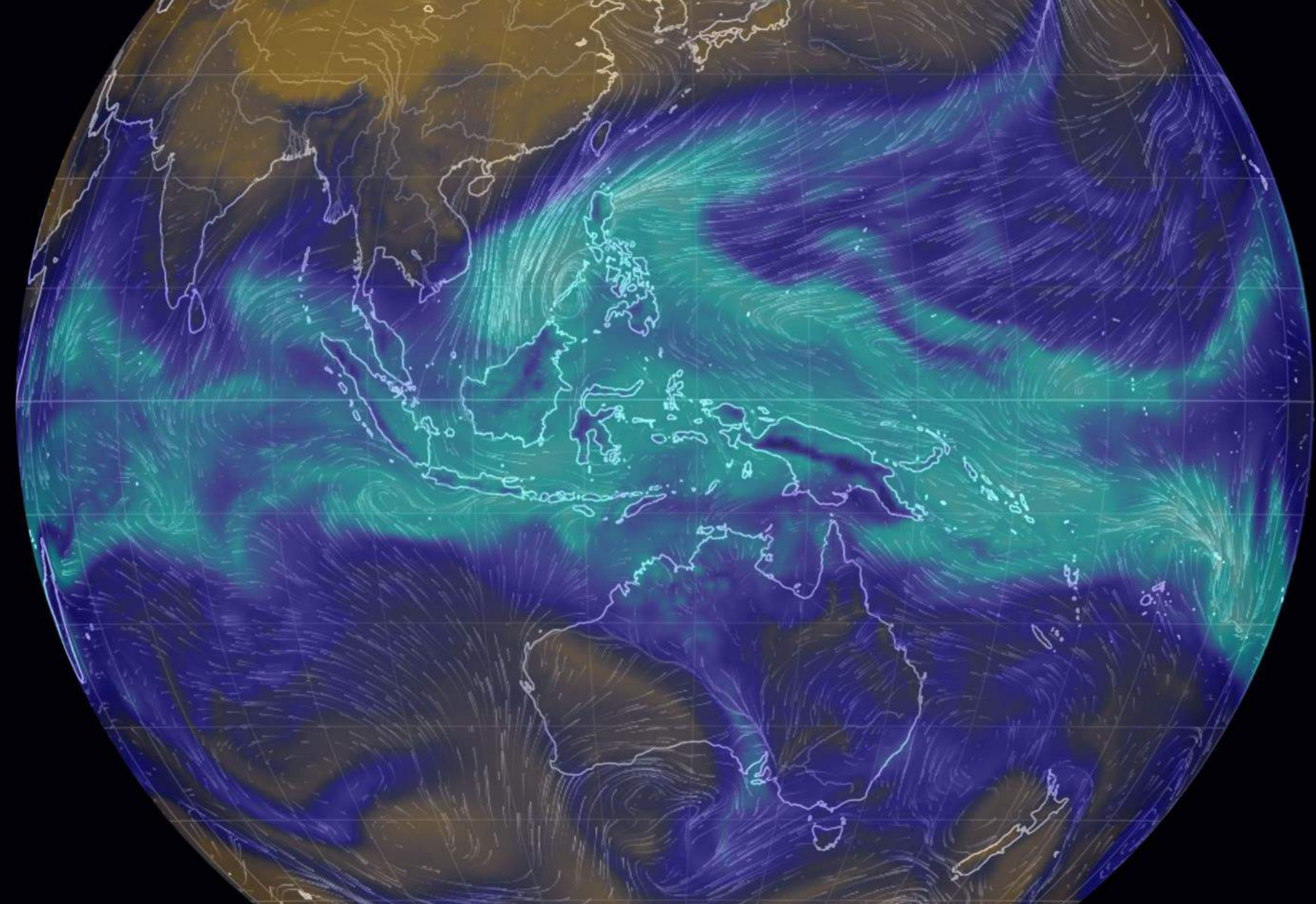


Transfer
vapour



Moderate
flooding

WeForest 2016



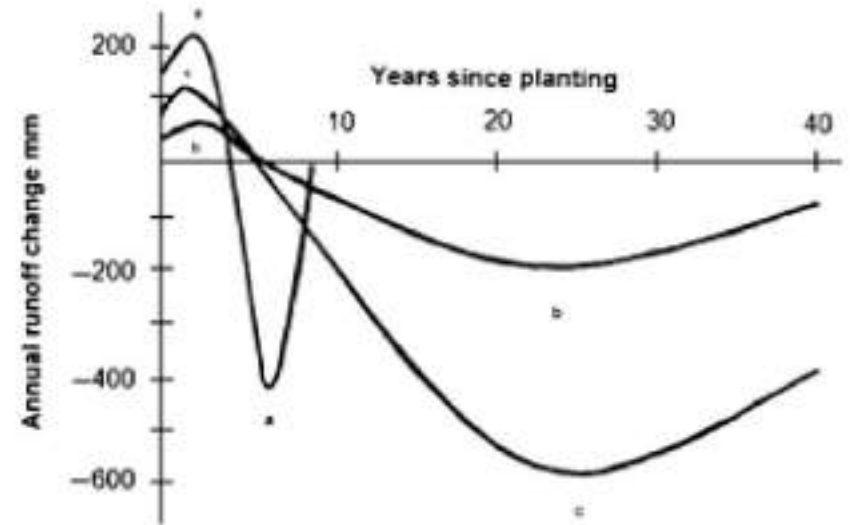
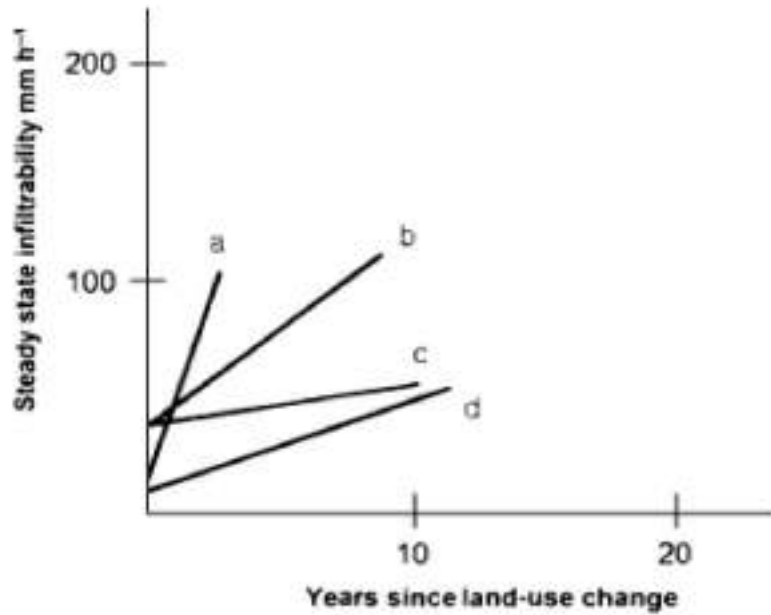
https://earth.nullschool.net/#current/wind/surface/level/overday-total_precipitable_water/orthographic=127.19,-0.22,456



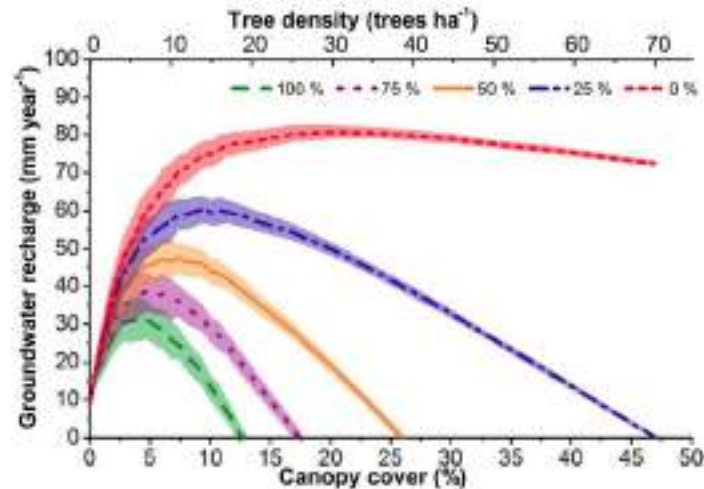
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Rainfall regimes matter

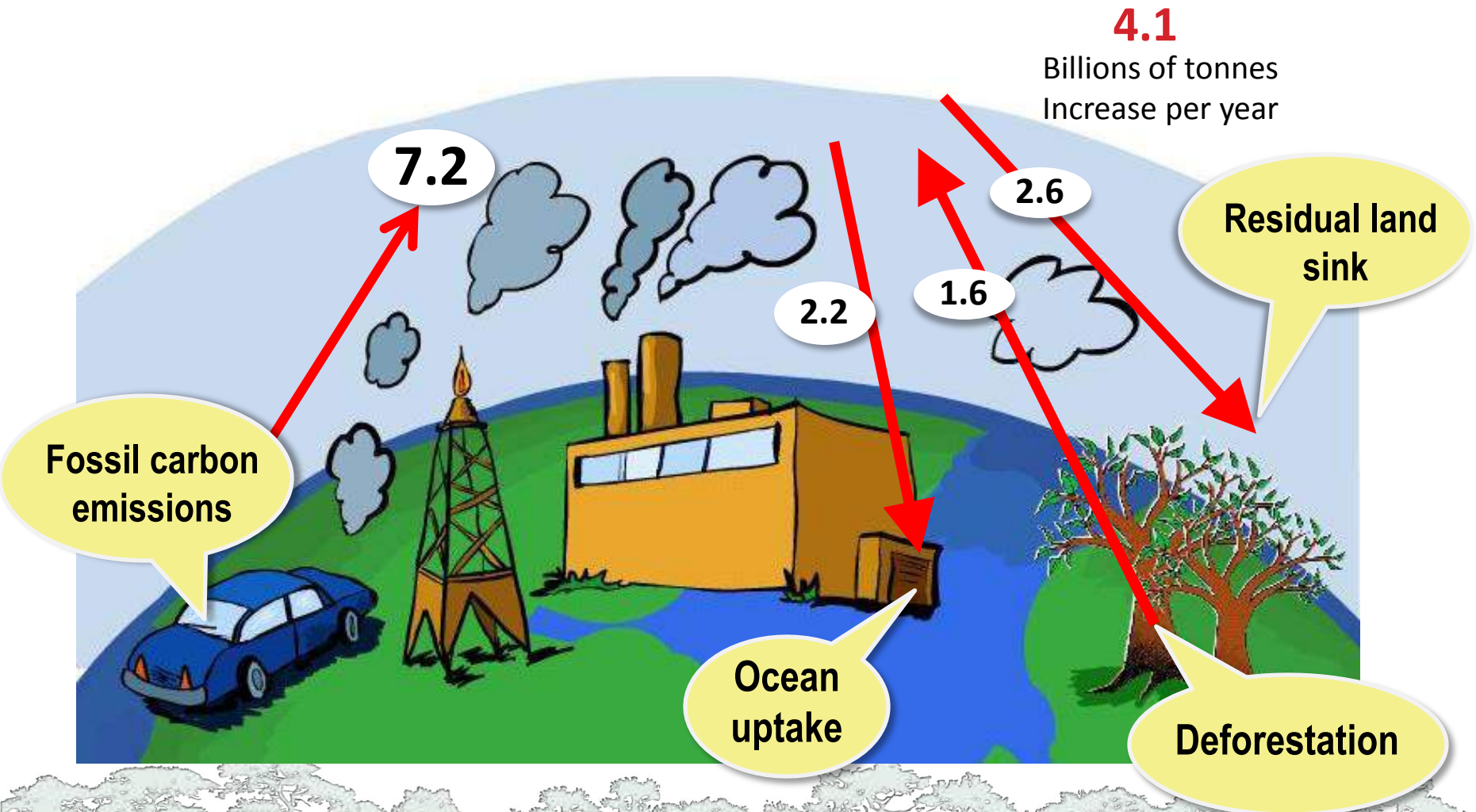


Malmer et al 2009. GCB



Iltstedt et al 2016. SR

Forests and carbon at the global scale



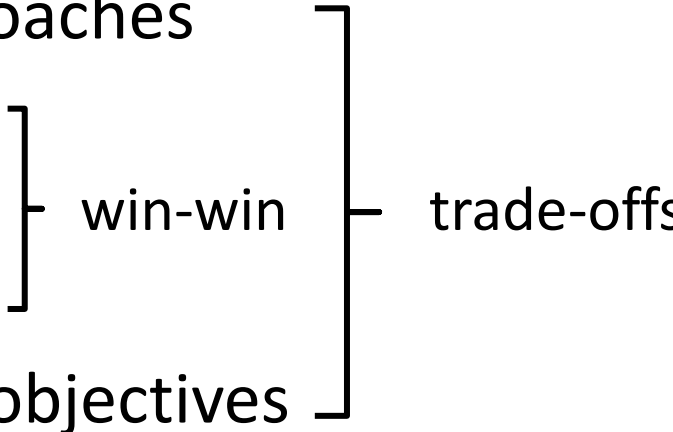
Land-based emissions in the last decade



- On average emissions from deforestation and other land-use change were 1.3 GtC during 2007-2016
- Together, land use change, fossil fuel and industry emissions, reached 11.2 GtC in 2016
- Forests and other LUC accounting for about 12%

GCP 2017

(New way of) governing forests

- Watershed approaches
 - International
 - National
 - Sub national
 - Links to climate objectives
 - Taking SDG (6,13,15) targets into account
- win-win
- trade-offs
- 



1. Achieve universal and equitable access to safe and affordable drinking water for all
2. Implement integrated water resources management at all levels, including through transboundary cooperation as appropriate



1. Strengthen resilience and adaptive capacity to climate related hazards and natural disasters in all countries
2. Integrate climate change measures into national policies, strategies, and planning
3. Mobilize USD100 billion annually by 2020 through GCF



1. Sustainable forest management to combat desertification, halt and reverse land degradation, and biodiversity loss
2. Sustainable use of terrestrial and inland freshwater ecosystems and their services, in particular forests, wetlands, mountains and drylands

THANK YOU



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