

## Why should we protect mangroves?



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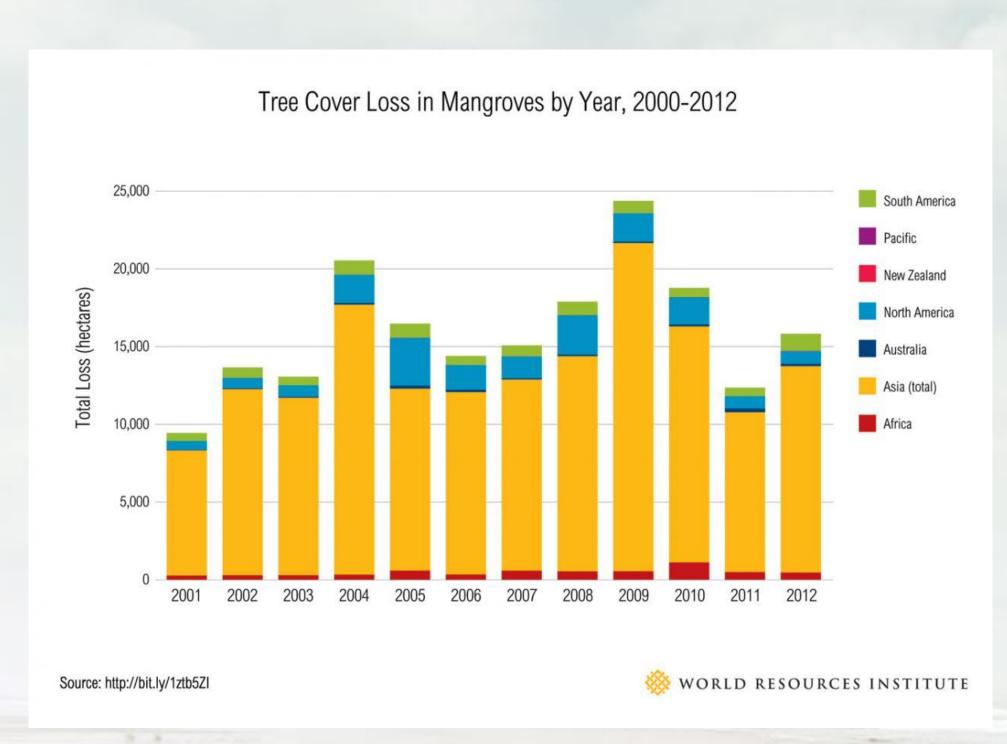


Figure 1: Mangrove loss each year in different regions between 2000 and 2012 (Strong and Minnemeyer, 2015).

## Mangroves

- Most of the worlds mangroves are located in Asia (39 %), which is also the area with the highest loss rate each year, almost **twice as big** as the rest of the world.<sup>1,2</sup>
- Studies have shown that there is a connection with the presence of mangroves and fish catch, and the extinction of mangroves leads to poorer catch for fisheries. 4
- Many of the species in mangrove ecosystems are endemic, meaning that they cannot be found in other types of ecosystems.1

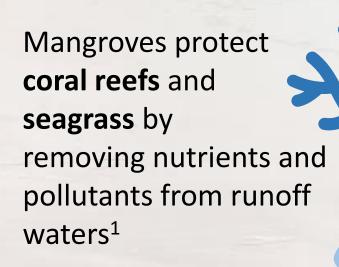
## Main threats:

- Climate Change <sup>1</sup>
- Agriculture 1
- Pollution <sup>1</sup>
- Aquaculture <sup>1</sup>
- Coastal urbanisation <sup>1</sup>

Mangroves protect coral reefs and seagrass by removing nutrients and pollutants from runoff waters<sup>1</sup> 14 LIFE BELOW WATER



Ideal perches for barnacles, oysters and crabs<sup>1</sup>







Important nursery

biotope for juvenile

Protection to coastal

mitigating the effects

preventing erosion<sup>1</sup>

ecosystems and

settlements by

of storms and

13 CLIMATE ACTION

Shelter for many

species, such as

birds and insects<sup>1</sup>

Carbon absorption

and storage<sup>1</sup>



Roots provide unique habitat for many marine species<sup>1</sup>





Mangroves are tropical trees or shrub that live in coastal areas in the tropics and subtropics. They are unique in their tolerance of salt water.1



From 2001 to 2012 alone, the world lost **1,38 % of it's mangroves**, or **0,13 %** annually<sup>3</sup>



Mangroves have been shown to regrow effectively by themselves if the hydrological conditions are beneficial<sup>3</sup>

- 1. Sandilyan, S. and Kathiresan, K. (2012) 'Mangrove conservation: A global perspective', Biodiversity and Conservation, 21(14), pp. 3523–3542. doi:10.1007/S10531-012-0388-X
- 2. Strong, A. and Minnemeyer, S. (2015) Satellite Data Reveals State of the World's Mangrove Forests, World Resources Institute. Available at: https://www.wri.org/insights/satellite-data-reveals-state-worlds-mangrove-forests (Accessed: 4 May 2022).
- Waters, H. (2016) Mangrove Restoration: Letting Mother Nature Do The Work | Smithsonian Ocean, Smithsonian. Available at: https://ocean.si.edu/ocean-life/plants-algae/mangrove-restoration-letting-mother-nature-do-work (Accessed: 3 May 2022). 4. Nagelkerken, I., Blaber, S., Bouillon, S., Green, P., Haywood, M., Kirton, L.G., Meynecke, J.-O., Pawlik, J., Penrose, H.M., Sasekumar, A., Somerfield, P.J. (2008). The habitat function of mangroves for terrestrial and marine fauna: A review. Aquatic botany, 89(2), 155-185. https://doi.org/10.1016/j.aquabot.2007.12.007